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DEPARTMENT OF PUBLIC WORKS.

Report for the Quarter and Year ending December 31, 1892.

DEPARTMENT OF PUBLIC WORKS—COMMISSIONER'S OFFICE,
No. 31 CHAMBERS STREET,
NEW YORK, December 31, 1892.

Hon. HUGH J. GRANT, Mayor :

DEAR SIR—In accordance with section 49 of the New York City Consolidation Act of 1882, I have the honor to present the following report of the transactions of the Department of Public Works for the quarter ending December 31, 1892, with a brief review of the operations of the Department for the past year :

SUMMARY OF EXPENDITURES.

(Being amount of requisitions drawn on the Comptroller.)

On account of appropriations raised by taxation (Consolidation Act of 1882, section 189)	\$894,748 65
On account of Local Improvement Fund for Street Improvements (Consolidation Act, sections 144 and 150)	345,823 81
On account of Funded Debt for Improvement and Extension of Water Supply (Consolidation Act, section 141)	221,464 96
On account of Repavement Fund (chapter 346, Laws of 1889)	571,928 11
On account of Criminal Court-house Fund (chapter 371, Laws of 1887, section 8) ..	119,684 48
On account of Fund for One Hundred and Fifty-fifth Street Viaduct (Consolidation Act, section 144, and chapter 576, Laws of 1887)	38,547 47
On account of Special Fund for restoring pavements over street openings (Revised Ordinances of 1880, sections 354 to 357)	15,147 86
On account of Fund for Public Building, Twelfth Ward	7,110 00
On account of Revenue Bonds for furnishing and setting water-meters (Consolidation Act, sections 161 and 352)	3,719 81
On account of Fund for New Harlem River Bridge at Third Avenue	1,654 50
On account of Fund for Bridge over Ship Canal at Kingsbridge Road	100 00
Total	\$2,219,929 65

SUMMARY STATEMENT OF CONTRACTS.

Contracts Entered into During the Quarter.

23 sewer contracts, estimated cost	\$245,584 17
12 contracts for regulating, grading, curbing and flagging streets and sidewalks, estimated cost	23,213 81
64 paving contracts, estimated cost	649,050 56
2 contracts for laying water-mains, estimated cost	6,570 00
5 miscellaneous contracts, estimated cost	5,447 32
106 contracts ; total estimated cost	\$929,865 86

Contracts Completed during the Quarter.

21 sewer contracts, cost	\$162,868 80
17 contracts for regulating, grading, curbing and flagging streets and sidewalks, cost	57,891 27
32 paving contracts, cost	922,333 05
4 contracts for water-mains, cost	112,984 60
13 miscellaneous contracts, cost	71,771 24
87 contracts ; total cost	\$1,327,848 96

BUREAU OF CHIEF ENGINEER OF THE CROTON AQUEDUCT.

In consequence of the drought which continued throughout the last summer and autumn, the natural flow of the Croton river was far below the volume of water required for the City's daily supply, until the 10th of November, since which time it is again furnishing all the needed supply without drafts upon the storage reservoir. For the forty-one days from October 1 to November 10, the drafts on the reservoirs amounted to an average of 100,000,000 gallons per day, or about two-thirds of the entire supply from the Croton watershed.

An engineering party has been steadily employed in making surveys, searches and maps of lands to be acquired by the City along the east branch of the Croton river, and along the Bronx river, to put a stop for all time to nuisances which have been maintained by the owners of these lands and have polluted the City's water supply.

The work of removing the existing nuisances was practically finished at the end of October, but a small force is still employed in patrolling the banks of the streams and reservoirs to correct any abuses which may yet exist or arise.

The dry weather has reduced the supply of water which we can obtain from the Bronx river to 7,000,000 gallons per day, while in past seasons, prior to the completion of the New Aqueduct, the supply obtained from that source was as high as 16,000,000 gallons per day. The natural consequence is that the pressure in the distributing mains in the Twenty-third and Twenty-fourth

Wards is very much reduced, giving rise to many complaints from residents in that section of the city.

The report of the Chief Engineer of the Croton Aqueduct, hereto annexed, describes in detail the work which has been done in the maintenance of the aqueducts and reservoirs.

During the quarter 15,163 lineal feet of new water-mains were laid in extending and improving the water service, and in connection with this work 65 stop-cocks and 53 fire-hydrants were placed.

BUREAU OF WATER PURVEYOR.

An average force of 277 mechanics, 310 laborers, 95 carts and 4 trucks has been employed during the quarter in the repairs of pavements. The total area of pavements taken up and relaid in this work is 134,405 square yards.

In the repavement work 141,009 square yards of new granite-block pavement and 78,662 square yards of asphalt pavement were relaid.

The total area of new streets which have received their first pavement during the quarter is 20,596 square yards, of which 17,208 square yards is granite pavement, and 3,388 square yards asphalt pavement.

The average force employed in the work of repairing water-mains, stop-cocks and fire-hydrants consisted of 36 mechanics, 93 laborers and 16 carts, and the following is a summary of the work done by this repair force :

- 845 leaks in water-mains and stop-cocks repaired.
- 1,326 defective fire-hydrants repaired.
- 137 old and defective fire-hydrants replaced by new ones.

OFFICE OF ENGINEER IN CHARGE OF SEWERS.

Sixteen contracts for the construction of new sewers and 4 contracts for new receiving-basins were completed during the quarter. The work done under these contracts includes 13,871 lineal feet of sewers and 19 receiving-basins.

At the present time there are 34 unfinished sewer contracts on which work is in progress.

The following are the principal items of work done during the quarter in the maintenance and repairs of the sewage system :

- 2,256 receiving-basins and culverts cleaned.
- 28,075 lineal feet of sewers cleaned.
- 25 receiving-basins repaired.
- 162 lineal feet of brick sewer repaired.
- 30 lineal feet of new pipe sewer and culvert laid.
- 9 manholes repaired.
- 91 manholes reset.
- 163 new manhole covers placed.
- 46 new manhole heads placed.
- 3 new granite basin-heads placed.
- 5,956 cart-loads of sewer deposits removed.

BUREAU OF STREET IMPROVEMENTS.

Twenty-two contracts for regulating and grading streets, flagging sidewalks and fencing vacant lots were completed during the quarter.

The following are the aggregate quantities of work done under the several contracts :

- 13,404 cubic yards earth excavated.
- 20,781 cubic yards rock excavated.
- 67,598 cubic yards filling placed in embankments.
- 10,805 lineal feet new curb-stones set.
- 2,653 lineal feet curb stones reset.
- 95,961 square feet flagging laid.
- 15,599 square feet flagging relaid.
- 3,137 cubic yards retaining-wall built.
- 790 lineal feet picket fence built.

BUREAU OF STREETS AND ROADS.

The following are the principal items of work done during the quarter in the maintenance and repairs of macadam roadways and unpaved streets :

- 7,270 square yards macadam roadway resurfaced.
- 964 truck loads of broken stone furnished and replaced.
- 558 truck loads of gravel furnished and placed.

During the past summer and autumn the Department took such measures as the limited means at its command would permit to improve the condition of the park spaces on the Boulevard, which had become bare of grass. These plots have been manured and seeded, and it is expected that by next spring they will again become the ornamental feature of that driveway for which they were designed.

BUREAU OF LAMPS AND GAS.

The following statement shows the additions and changes made during the quarter in the service of lighting the streets, parks, docks and bridges of the City :

	GAS LAMPS.	ELECTRIC LAMPS.	NAPHTHA LAMPS.
In use September 30	25,647	1,425	152
New lamps placed	350	127	...
Old lamps relighted	33	...	...
Lamps discontinued	484	17	...
In use December 31	26,546	1,535	152

BUREAU OF REPAIRS AND SUPPLIES.

The New Harlem Court Building is fully completed, and the Fifth District Police Court and the Ninth District Civil Court have exchanged the hired quarters, in which they have heretofore been located, for the much more commodious and better appointed court rooms and offices in the new building.

The exterior work on the New Criminal Court Building is finished with the exception of a few minor details. The interior work of plastering, carpentering, painting and plumbing is progressing, and in the course of next year the entire building will be ready for occupancy.

For the many details of work done in the general repairs of the public buildings and offices under the care of the Department I beg to refer to the report of the Superintendent of Repairs and Supplies hereto annexed.

BUREAU OF INCUMBRANCES.

The following is a summary of the work of this Bureau for the quarter:

710 complaints of obstructions received and attended to.
423 seizures and removals of obstructions made.
143 cart-loads of dirt, stone and refuse removed from streets.
89 dead and dangerous trees and stumps removed.
106 telegraph poles removed.
122 miles of telegraph wires removed.
1,094 permits issued to place building materials on streets.
163 miscellaneous permits issued.

BUREAU OF WATER REGISTER.

This Bureau collected and paid into the City Treasury the following amounts of revenue from the water service:

For water rents.....	\$588,063 66
For penalties on water rents.....	6,796 50
For permits to tap water-mains.....	3,205 00
Total.....	\$598,065 16

MISCELLANEOUS REVENUE.

There were collected by the Department and paid into the City Treasury the following amounts from various sources:

For sewer permits.....	\$5,178 76
For vault permits.....	17,942 87
For redemption of street obstructions.....	301 25
For work and material furnished citizens.....	833 26
For articles sold at auction.....	452 25
For use of road rollers.....	27 00
For restoration of pavements over street openings.....	14,342 00
For furnishing and setting water-meters.....	2,271 23
Total.....	\$41,348 62

REVIEW OF THE OPERATIONS OF THE DEPARTMENT OF PUBLIC WORKS FOR THE YEAR 1892.

Summary of Expenditures.

Requisitions on regular annual appropriations for 1892, under chapter 346, Laws of 1889.....	\$2,754,485 23
Liabilities on above appropriations, estimated.....	375,500 00
Requisitions on special repavement appropriation.....	567,431 02
Liabilities on above appropriation, estimated.....	432,374 55
Requisitions on Fund for Local Improvements.....	1,129,949 01
Requisitions on Croton Water Fund.....	374,199 86
Requisitions on Fund for New Criminal Court-house.....	483,078 47
Requisitions on Fund for Public Building, Twelfth Ward.....	48,147 82
Requisitions on Fund for One Hundred and Fifty-fifth Street Viaduct.....	321,600 78
Requisitions on Special Fund for restoring pavements over street openings.....	54,376 23
Requisitions on Revenue Bonds for furnishing and setting water-meters.....	18,988 30
Requisitions on Fund for new bridge over Harlem river at Third avenue.....	1,654 50
Requisitions on Fund for new Harlem River Ship Canal at Kingsbridge road.....	100 00
Total.....	\$6,561,885 77

SUMMARY STATEMENT OF CONTRACTS FOR THE YEAR 1892.

Contracts Entered Into.

80 sewer contracts, estimated cost.....	\$584,776 95
80 regulating and grading contracts, estimated cost.....	403,669 28
129 paving contracts, estimated cost.....	2,074,856 27
8 contracts for water-mains, estimated cost.....	451,137 70
62 miscellaneous contracts, estimated cost.....	980,846 81
359 contracts; total estimated cost.....	\$4,195,287 01

Contracts Completed.

66 sewer contracts, cost.....	\$333,603 74
81 regulating and grading contracts, cost.....	194,964 51
75 paving contracts, cost.....	1,439,289 72
5 contracts for water-mains, cost.....	117,901 83
43 miscellaneous contracts, cost.....	180,235 54
270 contracts; total cost.....	\$2,315,995 34

WATER SUPPLY.

During the past year the City has received an average daily water supply of 163,000,000 gallons, and at this date the daily supply distributed through the city is 171,000,000 gallons, which is equal to about 100 gallons per day to every inhabitant. I believe I can say that at the present time our water supply is not excelled either in quantity, quality, or convenience of use by that of any large city in the civilized world. When we reflect that less than eighteen months ago, prior to the introduction of the additional supply through the New Aqueduct in July, 1891, the maximum daily supply was 116,000,000 gallons, or about 48 per cent. less than now, we can realize the benefits we derive from the New Aqueduct, and the increased facilities for the storage of water in the Croton basin. By the construction of additional storage reservoirs under the direction of the Aqueduct Commissioners and this Department, the storage capacity has been increased within the past four years from 11,000,000,000 gallons to over 18,000,000,000 gallons. Had we been without this increased quantity of water held in reserve we would have been under serious difficulties in tiding over the unusually dry summer and autumn. The drafts upon stored water in the Croton reservoirs, lakes and ponds from the early part of July to November 10 amounted to 10,560,000,000 gallons, or an average of nearly 100,000,000 gallons per day.

The work on Reservoir "A," in the Muscote branch of the Croton river, which is under the direction of this Department, is progressing slowly. This is principally owing to delays in the legal proceedings for the acquirement of the necessary lands.

The drafts upon the water stored in the Kensico reservoir and the Rye Ponds reservoir, in the Bronx river water-shed, have proportionately been even greater than those in the Croton water-shed. The reason for this is that the Bronx river water-shed is constantly taxed to its utmost capacity in order to furnish an adequate supply to the Twenty-third and Twenty-fourth Wards, and our population north of the Harlem river is growing so rapidly that the demands for water supply will soon outgrow the capacity of the Bronx river system. Means must therefore soon be devised and adopted to supplement this supply from the surplus which the Croton basin and the Croton

Aqueducts are now, and will be, able to furnish for many years. This can and should be done by the construction of a reservoir on high ground in the Twenty-fourth Ward.

While the supply from the Croton water-shed, through the two aqueducts, is ample in quantity, there are within the City boundaries large areas which are above the elevation at which the water can be distributed through the mains by gravity, and which can therefore only be supplied from the high-service pumping stations. The rapid growth of these high grounds in population and buildings produces a corresponding increase in the demand for water supply, and this can only be met by increasing the capacity or product of the pumping engines. The way in which the Department has endeavored to meet this growing demand is best illustrated by the following figures, giving the average daily supply delivered from the two high-service pumping stations for the past five years:

In 1888.....	14,848,000 gallons.
In 1889.....	15,060,000 "
In 1890.....	17,950,000 "
In 1891.....	21,400,000 "
In 1892.....	23,000,000 "

The present pumping engines are now operated to their full capacity, and further demands on the high-service supply can only be met by building the additional high-service station by which the Act, chapter 38, Laws of 1892, authorizes an expenditure of \$500,000. The plans for the buildings, machinery and appurtenances were submitted to the Board of Estimate and Apportionment on March 21, with the request that they be approved and that funds be appropriated to begin and prosecute the work without delay. That Board has, however, not yet taken action in the matter. The plans provide for pumping machinery capable of pumping and delivering 28,000,000 gallons of water per day, and when these works, which are to be located on City property lying between the New Aqueduct and the Harlem river, are built, we will be able to gradually increase the high-service supply to a maximum of 51,000,000 gallons per day.

In extending and improving the water service the following water-mains were laid during the year:

9,035 lineal feet of 48-inch mains.
1,378 lineal feet of 36-inch mains.
133 lineal feet of 20-inch mains.
15,739 lineal feet of 12-inch mains.
53,698 lineal feet of 6-inch mains.
96 lineal feet of 4-inch mains.

Total.....80,079 lineal feet, or 15.16 miles.

The total length of water-mains laid during the past four years is 66.70 miles, and our distributing system now includes 698.51 miles of water-mains, with 7,304 stop-cocks and 9,006 fire-hydrants.

In extending the water-meter system 2,777 additional meters were placed in 1892, and there are now 27,041 water-meters in use.

Plans and estimates have been prepared for removing from the centre of the carriageway of Amsterdam avenue at One Hundred and Nineteenth street the Old Aqueduct gate-house, which has become a disfigurement to that thoroughfare and the surroundings. The new gate-house which will take its place will be built on adjoining land which the City purchased for that purpose as far back as 1875.

In August last, when the city was threatened with the invasion of the cholera, and special sanitary measures became of supreme importance; vigorous and summary measures were begun to remove nuisances from the banks of the streams, reservoirs and lakes in the Croton water-shed, which threatened to defile our water supply to a degree which might become dangerous to the public health if they were longer tolerated. By the middle of November the most obnoxious of these nuisances had been removed. They consisted of privies, pig pens, cattle pens, manure pits, sewers and house drains, which discharge their contents too near the streams, and other similarly objectionable contrivances. These measures had to be carried out in the face of circumlocutory and obstructive legislation which, while ostensibly designed to protect the water from pollution, rather protects the inhabitants of the Croton water-shed in maintaining nuisances. It must be said, however, that our Croton water has at no time been contaminated to a degree which gave cause for alarm for the public health, but precautionary measures and constant vigilance are at all times necessary to preserve the purity of the water supply. Recent chemical analyses show the water to be now free from any trace of nitrites or other dangerous ingredients.

STREET PAVEMENTS.

During the year new pavements were laid as follows:

On Up-town Streets, Cost Assessed on Abutting Property.		Square Yards.
Granite block.....		68,048
Asphalt.....		17,182
Total.....		85,230

Repavement under Annual Appropriation, Consolidation Act.		Square Yards.
Granite block.....		100,789
Asphalt.....		43,771
Total.....		144,560

Repavements under Legislative Appropriation.		Square Yards.
Granite block.....		71,564
Asphalt.....		117,594
Total.....		189,140

Repavement Land Grant, Act of 1889.		Square Yards.
Granite block.....		44,166

TOTAL AREA OF NEW PAVEMENTS LAID IN 1892.		Square Yards.
Granite block.....		284,549
Asphalt.....		178,547
Total.....		463,096

The Repavement Act of 1889, appropriating \$1,000,000 annually for three consecutive years, came into practical operation in the summer of 1889, and was followed by the act, chapter 35 of the Laws of 1892, which authorizes a further appropriation of \$3,000,000 for repavements. Under the latter act the City was authorized to expend the appropriation in two years, but the Board of Estimate and Apportionment concluded to limit the expenditure for 1892 to \$1,000,000.

The following is the area of new pavements laid since May 1, 1889:

Repavements.		Square Yards.
Granite blocks.....		788,826
Asphalt.....		583,572
Total.....		1,372,398

First Pavements on New Streets.

	Square Yards.
Granite block.....	479,166
Asphalt.....	90,915
Total.....	\$570,081

Total area and mileage of new pavements laid since May 1, 1889, computing the mileage on the basis of roadways of 30 feet in width :

Granite block.....	1,237,952 square yards ; 70.33 miles.
Asphalt.....	732,280 " 41.60 "

There remain, at the present time, a number of uncompleted repavement contracts, which are covered by the present appropriations, notably those for repaving the Bowery, from Sixth street to Chatham Square, and Park Row, including Chatham Square, from Broadway to the Bowery, which have been delayed awaiting the completion of the cable railway of the Third Avenue Railroad Company and other causes. The unfinished portions of these contracts, which will be paid for out of the appropriations heretofore made, include about 125,000 square yards of new granite block pavement.

The map of the city, hereto annexed, gives a comprehensive view of the work done during the past four years in street repavements, and of the plan upon which the work has been pursued.

This map shows that some of the most important longitudinal thoroughfares, like Broadway, Third avenue south of Fifty-ninth street, Eighth avenue, Madison avenue, Lexington avenue, etc., have received new and suitable pavements ; that many of the streets leading to the ferries and docks have been paved with new granite-blocks on concrete foundation, and that over forty miles of streets in the residential portion of the city, including tenement-house districts, have been given the smooth, clean and noiseless asphalt pavement.

SEWERAGE AND DRAINAGE.

During the year 32,517 lineal feet, or 6.17 miles, of new sewers and culverts were built, and at the close of the year work was under contract and in progress for 44,181 lineal feet, or 8.37 miles, of new sewers.

Sewer construction in this city is of two distinct classes : First, the extension of the sewerage system into new streets, which is done upon well considered plans, calculated to meet future as well as present needs ; and, second, the reconstruction and improvement of the old sewers which were built before the Sewerage Act of 1865 provided for the adoption of a comprehensive sewerage system under proper executive control.

The greatest defects in the old sewers have been in the numerous outlets which discharged the sewage at the foot of every street at the bulkheads, polluting the water and the atmosphere. The remedy for these defects is a system of marginal and collective sewers along the water-front, with fewer outlet sewers, extended to the ends of our new piers, where their discharge of sewage goes into the tidal currents and is carried off instead of stagnating in the slips or basins. A general plan for such a system of marginal collective sewers and outlets was adopted some years ago, but its development has been slow, owing principally to the slow progress of dock improvements. It will take about five years more to complete the system of collective sewers and outlets along the entire water-front. It is now practically completed from the Battery to Twenty-third street along the North river and to Grand street along the East river.

The Engineer in Charge of Sewers has made a detailed and interesting report, hereto annexed, in regard to the work accomplished this year in the extension and improvement of the sewerage system.

REGULATING AND GRADING STREETS.

On January 1, 1892, work was in progress on 19 regulating and grading contracts ; during the year 88 contracts were made and 103 contracts were completed.

The following are the aggregate quantities of work done under these contracts :

41,935 cubic yards earth excavated.
81,234 cubic yards rock excavated.
195,008 cubic yards street embankments built.
43,104 lineal feet new curb-stones set.
14,435 lineal feet curb-stones reset.
403,034 square feet new flagging laid.
96,149 square feet old flagging relaid.
1,154 cubic yards retaining-wall built.
3,028 lineal feet of picket fence built.

The following are the most important regulating and grading works now in progress :

The Boulevard, from One Hundred and Fifty-sixth to Inwood street. This work is progressing satisfactorily, and will be completed by the spring of 1894.

Dyckman street, from the Hudson to the Harlem river. This is the first street north of One Hundred and Fifty-fifth street which makes a continuous thoroughfare from river to river. In the section between One Hundred and Fifty-fifth and Dyckman streets the ground rises abruptly from the river shores to an elevation of 150 to 250 feet, and this presents topographical difficulties which prevent the making of continuous cross-town streets on practicable grades. About one-half of the work for grading Dyckman street has been done, and it will take about a year to complete it.

Claremont avenue, from One Hundred and Twenty-second to One Hundred and Twenty-seventh street. This work will be finished early next spring.

McComb's Dam road, from One Hundred and Forty-ninth to One Hundred and Fifty-fourth street. The rock excavation for this work is nearly finished, but a large quantity of filling is required for the grading of this highway, and it will take about six months to complete it.

One Hundred and Forty-fifth and One Hundred and Forty-eighth streets, from the Boulevard to Twelfth avenue. The grading of these streets will be finished early next spring.

The report of the Superintendent of Street Improvements, Document "H," gives further details in regard to regulating and grading works.

LIGHTING PUBLIC STREETS, PARKS AND PLACES.

During the year the public lamp service has been extended into 10.33 miles of new streets, and the Department now lights 539 miles of streets, docks and bridges and 69½ acres of public parks, with 26,546 gas lamps, 1,535 electric lamps and 152 naphtha lamps.

The bids for the contracts for lighting the public lamps for the year 1893 were received from the gas companies and electric-light companies at the public letting held on the 8th of this month. All the awards of contracts for street lighting by gas and electric lamps have been made upon the prices stipulated in the contracts for 1892.

PUBLIC BUILDINGS.

The only work which remains to be done to make the new Criminal Court building ready for occupancy is the interior work of plastering, wood-trim, etc. It contains 201 rooms, and will furnish for the Criminal Courts, the District Attorney and his staff, and other public officers, accommodations which are much more suitable and commodious than those which they now occupy.

The New Harlem Court-house is completed.

The Fifth District Police Court, and the Ninth District Civil Court are now located in it, having vacated the old premises for which the City paid an annual rental of \$13,500 for many years.

For the many details of work done in the repairs and improvements of the municipal buildings and offices which are under the care of this Department, I beg to refer to the report of the Superintendent of Repairs and Supplies, Document "I," of this report.

FREE FLOATING BATHS.

The fifteen free public swimming baths are stored in their winter quarters in Gowanus Bay, South Brooklyn, where they will undergo thorough repairs and refitting in order to have them in good condition for the bathing season of 1893.

During the season of 1892 the attendance at the baths was : Males, 3,234,394 ; females, 1,625,447 ; total, 4,859,841. This is an increase of more than forty per cent. over the attendance in 1891. The increase in attendance is partly accounted for by the fact that we have had uninterrupted summer weather from May until October, but it also attests the great popularity and usefulness of these public baths.

ONE HUNDRED AND FIFTY-FIFTH STREET VIADUCT.

This structure has been designed to overcome the topographical difficulties in the making of a convenient highway to connect Washington Heights with Eighth avenue, Seventh avenue at the Harlem river, and the Central Bridge or McComb's Dam Bridge. It is now practically completed from its starting point at St. Nicholas place to Eighth avenue. The footways were opened to public travel last month, and afford conveniences for pedestrian travel which have long ago been needed and expected. The remaining portion of the work has to be done in connection and conjunction with the building of the new Central Bridge and approaches, which latter work is under the direction of the Department of Public Parks.

NEW HARLEM RIVER BRIDGE AT THIRD AVENUE.

By chapter 413 of the Laws of 1892, the Commissioner of Public Works is authorized and directed to construct a new bridge over the Harlem river at Third avenue, which shall be at an elevation giving a clear space of not less than 24 feet between the structure and high water for the passage of vessels. The construction of this new bridge involves the building of new approaches, and a rearrangement of the grades of the connecting streets. The preliminary surveys and plans for this work have been prepared and are now under consideration. As the subject involves public and private interests of great importance, it requires patient and careful consideration. The preliminary plans have been discussed at a conference of engineers and of citizens representing large property interests at both ends of the bridge. At an early day plans and estimates will be submitted to the Board of Estimate and Apportionment, and a public hearing will then be had before the plans are finally adopted.

BRIDGE OVER THE SHIP CANAL AT KINGSBRIDGE ROAD.

The building of the ship canal from the Harlem river to the Hudson river, under the direction of the United States Government, makes it necessary to construct a substantial and suitable bridge, with a wide draw, on the line of Kingsbridge road, which is the only thoroughfare on the west side which connects Manhattan Island with the mainland across the Harlem river. Surveys and borings are now being made as the preliminary work of making the plans and estimates for the bridge and its approaches.

LAYING-OUT AND OPENING NEW STREETS.

During the year, the Department has made the surveys and furnished to the Board of Street Opening and Improvement and the Law Department the following maps for new streets :

Rule maps in triplicate for legal proceedings to acquire title to 32 streets or parts of streets.

Maps and technical descriptions for the rearrangement of the streets in the section of the city bounded by the Hudson and Harlem rivers north of One Hundred and Ninety-fourth street ; this rearrangement having become necessary in consequence of the construction of the ship canal which is to connect the Hudson and Harlem rivers.

Damage and benefit maps for the use of Commissioners of Estimate and Assessment, in 15 separate proceedings, for the opening of new streets.

Among the important proceedings which have been concluded this year are : Extending and widening College place and the lower end of Greenwich street ; the extension of Bethune street to Thirteenth avenue ; the opening of Cathedral Parkway (One Hundred and Tenth street, west of Eighth avenue) ; the opening of St. Nicholas Terrace.

The Department has also made extensive surveys and searches for estimates of property values for a number of prospective street openings and improvements, including the widening and extension of Elm street, from Chambers street to Lafayette place, the widening of Rector street, from Broadway to West street ; the widening of Park Row, from the City Hall to the Bowery.

REMOVING STREET OBSTRUCTIONS.

The operations of the Bureau of Incumbrances for the year are summarized as follows :

7,120 complaints of obstructions received and attended to.
2,918 seizures and removals of obstructions made.
1,142 cart-loads of abandoned material removed.
705 dead and dangerous shade trees and stumps removed.
731 telegraph poles removed.
1,194 miles of telegraph wires removed.
6,436 permits issued to place building materials on streets.
1,063 miscellaneous permits issued.

CITY REVENUE.

The following is the total revenue from the water service, collected by the Department and paid into the City Treasury during the year :

For regular water rents.....	\$1,589,971 06
For water supplied through meters.....	1,230,989 98
For water for building purposes, etc.....	41,168 80
For water supplied to shipping.....	107,131 48
For penalties for using hose without permit.....	75 00
For permits to tap water-mains.....	13,020 00

Total cash receipts.....	\$2,982,356 32
Add unpaid water rents returned in arrears.....	441,679 69

Total revenue from water service.....	\$3,424,036 01
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MISCELLANEOUS REVENUE.

For sewer permits.....	\$26,228 c6
For vault permits.....	106,462 72
For redemption of street obstructions.....	1,959 80
For restoring pavements over street openings.....	61,003 25
For furnishing and setting water-meters.....	10,753 84
From miscellaneous sources.....	10,637 42

Total.....	\$227,045 09
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The following documents, appended to this report, contain further detailed information of the transactions of this Department :

- Document A—Statement of appropriations and expenditures.
- Document B—Detailed statement of expenditures.
- Document C—Detailed statement of contracts.

Document D—Report of the Chief Engineer of the Croton Aqueduct.
Document E—Report of the Water Purveyor.
Document F—Report of Consulting Engineer on Pavements.
Document G—Report of Engineer in Charge of Sewers.
Document H—Report of Superintendent of Street Improvements.
Document I—Report of Superintendent of Streets.

Document K—Report of Superintendent of Lamps and Gas.
Document L—Report of Superintendent of Repairs and Supplies.
Document M—Report of Superintendent of Incumbrances.
Document N—Report of Water Register.

Very respectfully,

THOS. F. GILROY, Commissioner of Public Works.

Document "A."

Showing Titles of Appropriations; Balances of 1891 on October 1, 1892; Requisitions on 1891 in Fourth Quarter of 1892, together with Transfers; Balances of 1891 on December 31, 1892; Appropriations, including Transfers of 1892; Requisitions of First Nine Months of 1892; Requisitions, Fourth Quarter of 1892; Balances on December 31, 1892; and the Titles and Conditions of the Trust and Special Accounts.

TITLES OF APPROPRIATIONS.	BALANCES OF 1891 ON OCTOBER 1, 1892.	REQUISITIONS AND TRANSFERS OF 1891, IN FOURTH QUARTER, 1892.	BALANCES OF 1891, ON DECEMBER 31, 1892.	APPROPRIATIONS, INCLUDING TRANSFERS OF 1892.	REQUISITIONS, FIRST NINE MONTHS, 1892.	REQUISITIONS, FOURTH QUARTER, 1892.	TOTAL REQUISITIONS, 1892.	BALANCES ON DECEMBER 31, 1892.
Aqueduct—Repairs, Maintenance and Strengthening—								
Care, Maintenance and Repairs.....				\$215,000 00	\$136,057 89	\$63,745 67	\$199,803 56	\$15,196 44
Care, Maintenance and Repairs, including repairs to Old Aqueduct.....	\$517 92	\$517 92						
Concreting and Facing with Masonry the Old Central Park Reservoir.....	70,000 00		\$70,000 00					
Parapet Wall and Railing around the Old Central Park Reservoir.....				4,000 00	3,331 98	667 78	3,999 76	24
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	1,107 55	1,107 55		27,820 00	20,827 80	7,033 23	27,841 03	8 97
Boring Examinations for Grading and Sewer Contracts.....	3 50	3 50		5,000 00	4,510 75	488 50	4,999 25	75
Boulevards, Roads and Avenues, Maintenance of.....				90,000 00	68,429 54	20,312 38	88,741 92	1,258 08
General Account, including Ramp for Approach to McComb's Dam Bridge.....	67 84	67 84						
For Resurfacing Seventh Avenue.....	360 07	360 07						
For Resurfacing Sixth or Lenox Avenue.....				40,000 00		7,864 50	7,864 50	32,135 50
Boulevards, Roads and Avenues, Maintenance of—Salaries.....	04	04		2,500 00	1,874 97	624 92	2,499 96	04
Bronx River Works—Maintenance and Repairs.....	42 28	42 28		25,000 00	16,461 93	6,390 76	22,852 69	2,147 31
Bronx River Works—Maintenance and Repairs—Salaries.....				2,400 00	1,041 38	400 07	1,441 38	938 62
Contingencies—Department of Public Works.....	63 20	63 20		4,000 00	2,373 54	1,039 90	3,413 44	586 56
Flagging Sidewalks and Fencing Vacant Lots, etc.....	221 42	221 42		2,000 00	459 50	989 47	1,448 97	551 03
For New Fire Hydrants.....	26,527 48	26,527 48		5,000 00	3,138 30	370 00	3,508 30	1,491 70
Free Floating Baths—Care and Maintenance.....	57 00	57 00		18,000 00	12,250 69	3,296 92	15,547 61	2,452 39
Free Floating Baths—Care and Maintenance—Salaries.....	7 50	7 50		30,000 00	21,249 50	4,574 50	28,824 00	1,176 00
Lamps and Gas and Electric Lighting.....	300 20	300 20		804,900 00	526,461 25	204,504 09	730,965 34	73,934 66
Lamps and Gas and Electric Lighting—Salaries.....	10 95	10 95		6,500 00	4,743 13	1,624 95	6,368 08	131 92
Laying Croton Pipes.....	28,920 49	14,879 60	14,100 89	231,290 00	132,032 63	59,913 20	191,945 83	39,344 17
Laying Croton Pipes—Salaries.....	2,768 35	2,768 35		18,710 00	13,606 48	4,701 50	18,307 98	402 02
Public Buildings—Construction and Repairs.....	592 16		592 16	116,500 00	52,152 98	30,258 94	82,411 92	34,088 08
Public Drinking-hydrants.....	96	96		2,000 00	1,369 01	344 64	1,763 65	236 35
Public Drinking-hydrants—Salaries.....	315 16	315 16		1,200 00	900 00	300 00	1,200 00	
Removing Obstructions in Streets and Avenues.....	9 79	9 79		42,000 00	29,957 65	8,838 85	38,796 50	3,203 50
Removing Obstructions in Streets and Avenues—Salaries.....				7,800 00	6,075 00	1,650 00	7,725 00	75 00
Repairing and Renewal of Pipes, Stop cocks, etc.....	17 89	17 89		215,000 00	143,354 17	59,165 54	202,519 71	12,480 29
Repairs and Renewal of Pavements and Regrading.....	873 25	320 00	553 25	350,000 00	189,580 22	114,482 81	304,063 03	45,936 97
Repairs and Renewal of Pavements and Regrading—Salaries.....	726 50	726 50		17,000 00	11,878 00	3,575 98	15,453 98	1,546 02
Repaving Streets and Avenues.....	156,773 82	70,546 00	86,227 82	348,800 00	202,206 06	51,490 43	253,696 49	95,103 51
Repaving Streets and Avenues—Salaries.....	664 25	654 25		13,000 00	9,130 00	3,562 00	12,692 00	308 00
Roads, Streets and Avenues Unpaved—Maintenance, etc.....	73 92	73 92		30,000 00	12,719 90	15,229 14	27,949 04	2,050 96
Salaries—Department of Public Works.....	2,889 13	2,889 13		95,000 00	70,383 51	24,253 90	94,637 41	162 59
Salaries—Engineer, Clerks, Inspectors, etc.....	1,125 63	1,125 68		58,000 00	42,014 06	13,585 39	55,599 45	2,400 55
Salaries—Engineers and Inspectors—Repaving, Chapter 346, Laws 1889.....				10,000 00	9,903 95		9,909 95	90 05
Sewers—Repairing and Cleaning.....	776 00		776 00	115,000 00	85,082 50	26,038 45	111,120 95	3,879 05
Sewers—Repairing and Cleaning—Salaries.....	96 08	96 08		10,000 00	7,359 94	2,461 98	9,821 92	168 08
Sewerage System—Salaries.....	453 83	453 83		8,400 00	6,300 00	2,053 34	8,353 34	46 66
Street Improvements—For Surveying, Monumenting, etc.....	555 50	555 50		3,000 00	1,829 00	577 50	2,405 50	593 50
Supplies for and Cleaning Public Offices, etc.....	757 94	582 87	175 07	139,250 00	77,814 55	36,202 23	114,016 78	25,233 22
Supplies for and Cleaning Public Offices—Salaries.....	398 41	398 41		18,920 00	13,518 66	4,603 00	18,121 66	798 34
Supplying Water to Shipping and for Building Purposes—Salaries.....	95	95		10,000 00	6,622 50	2,346 50	8,969 00	1,031 00
Surveys, Maps, etc., for Street Openings, etc.—Salaries.....	08	08		7,100 00	5,324 94	1,774 98	7,099 92	08
Water Supply for the Twenty-fourth Ward.....	238 61	238 61		5,000 00	2,810 10	1,500 68	4,310 78	689 22
Water Supply for the Twenty-fourth Ward—Salaries.....				1,200 00	900 00	300 00	1,200 00	
Wells and Pumps—Repairing and Cleaning.....	162 30	162 30		250 00	13 55		13 55	236 45
For Advertising for all Departments, etc.—(Special).....				49 10	43 70	5 40	49 10	
Totals.....	\$298,538 00	\$126,112 81	\$172,425 19	\$3,156,619 10	\$1,961,291 21	\$793,194 02	\$2,754,485 23	\$402,133 87

NOTE.—Requisitions drawn Fourth Quarter, 1892, on Liability of 1890—Aqueduct—Repairs, Maintenance, etc., \$12,870; Repaving Streets and Avenues, \$160.84; Retaining-walls in East Fifty-first street, etc., \$2,008.77; Repaving—Chapter 346, Laws 1889, of 1889, \$2,703.33; of 1890, \$104,025.82; of 1891, \$70,430.74; under chapter 35, Laws of 1892, \$394,768.16.

TITLES OF TRUST ACCOUNTS.	BALANCES FROM 1891, RETURNS TO ARREARS AND RECEIPTS OF FIRST NINE MONTHS, 1892.	RECEIPTS, FOURTH QUARTER, 1892.	TOTAL BALANCES OF 1891 AND RECEIPTS FOR 1892.	REQUISITIONS, FIRST NINE MONTHS, 1892.	REQUISITIONS, FOURTH QUARTER, 1892.	TOTAL REQUISITIONS, 1892.	BALANCES, DECEMBER 31, 1892.
Croton Water Fund.....				\$152,734 90	\$221,464 96	\$374,199 86	
Street Improvement Fund.....				784,125 20	337,212 47	1,121,337 67	
Restoring and Repaving—Special Fund—Department of Public Works.....	\$59,937 13	\$14,342 50	\$74,279 63	30,228 37	15,147 86	54,376 23	\$19,903 40
Water Meter Fund, No. 2.....	31,863 55	2,271 23	34,134 78	15,268 49	3,719 81	18,988 30	15,146 48
Criminal Court-house Fund.....				857,780 59	119,684 48	977,465 07	
Fund for Viaduct, from St. Nicholas place, etc.....				467,012 56	38,547 47	505,560 03	
Public Building, Twelfth Ward, Construction of.....				129,193 26	7,110 00	136,303 26	
Bridge across Harlem River at Third Avenue.....					1,651 50	1,654 50	
Bridge across Harlem Ship Canal, Kingsbridge Road.....					100 00	100 00	

Statement of General Bookkeeper, D. P. W., showing all Revenues of the City received through the Department during the First Nine Months of 1892; during the Fourth Quarter, 1892; and the Total for the Year.

SOURCE OF REVENUE.	FIRST NINE MONTHS, 1892.	FOURTH QUARTER, 1892.	TOTAL.
Water rents.....	\$2,407,549 79	\$603,079 07	\$3,004,628 86
Water penalties.....	6,237 40	846 40	7,083 80
Pipe tapping.....	9,815 00	3,316 50	13,131 50
Sewer permits.....	21,049 30	5,178 76	26,228 06
Vault permits.....	88,519 85	17,942 87	106,462 72
Redemption of street obstructions.....	1,658 55	301 25	1,959 80
Use of road rollers.....	280 01	27 00	307 01
Sales at auction.....	2,251 36	452 25	2,703 61
Work and material furnished citizens.....	6,820 54	833 26	7,653 80
Totals.....	\$2,538,181 80	\$631,977 36	\$3,170,159 16
Return of Water rents, etc., in Arrears—			
Regular Croton water rents.....		\$152,749 07	
Water by meter measurement.....		288,930 62	
			\$441,679 69
Meters and meter setting.....			6,518 83
			\$448,198 52

C. T. McCLENACHAN, General Bookkeeper, D. P. W.

Document "B."

A Detailed Statement of Expenditures for which Requisitions were drawn on the Comptroller by the Commissioner of Public Works during the Quarter ending December 31, 1892.

Aqueduct—Repairs, Maintenance and Strengthening, 1892—	
Blacksmithing.....	\$173 02
Brick, sand, etc.....	701 50
Coal.....	10,127 46
Cement.....	720 50
Cut stone.....	667 78
Filter.....	650 00
Flagging around Forty-second Street Reservoir.....	800 25
Hardware supplies.....	669 28
Horse-hire.....	469 50
Lumber.....	643 02
Oil.....	756 80
Paint.....	138 75
Pay-rolls.....	42,334 95
Plumbing.....	140 63
Repairs to engines and pumps.....	1,911 51
Repairs to roof of Keeper's house, Central Park.....	168 00
Repairs to Halfway House, Yonkers.....	125 00
Sundry supplies, etc.....	559 91
Stable (purchased at Croton Dam).....	200 00
Taxes.....	367 99
Telephone cable.....	51 50
Traveling expenses.....	78 72
Water for Sing Sing Prison.....	1,957 38
Total.....	\$64,413 45
Aqueduct—Repairs, Maintenance and Strengthening, 1891—	
Plumbing.....	\$186 55
Aqueduct—Repairs, Maintenance and Strengthening, 1890—	
Improvement of Old Reservoir in Central Park.....	\$12,870 00
Boring Examinations for Grading and Sewer Contracts, 1892—	
Pay-rolls.....	\$488 50
Boulevards, Roads and Avenues, Maintenance of, 1892—	
Broken stone, gravel and screenings.....	\$5,636 97
Coal.....	10 00
Pay-rolls.....	14,421 41
Resurfacing, Sixth or Lenox avenue, between One Hundred and Tenth and One Hundred and Forty-fifth streets.....	7,108 50
Rent of yard.....	1,000 00
Total.....	\$28,176 88
Bronx River Works—Maintenance and Repairs, 1892—	
Blacksmithing.....	\$19 45
Pay-rolls.....	6,009 31
Portland cement.....	125 00
Taxes.....	237 00
Total.....	\$6,390 76
Contingencies—Department of Public Works, 1892—	
Horse hire.....	\$270 00
Miscellaneous incidental expenses.....	300 00
Postage stamps.....	428 00
Steel tapes.....	24 30
Traveling expenses.....	17 60
Total.....	\$1,039 90
Flagging Sidewalks and Fencing Vacant Lots in front of City Property, 1892—	
Flagging across Gansevoort Market.....	\$816 47
Flagging across Washington Market.....	75 00
Pay rolls.....	98 00
Total.....	\$989 47
For New Fire-hydrants, 1892—	
Placing hydrants.....	\$370 00
For Advertising for all Departments, 1892—	
Advertising.....	\$5 40
Free Floating Baths—Care and Maintenance, 1892—	
Pay-rolls.....	\$273 00
Plumbing.....	220 28

Free Floating Baths—Care and Maintenance, 1892—

Recovering anchors.....	\$140 00
Sundry supplies.....	142 00
Towing baths.....	645 00
Traveling expenses.....	87 14
Wharfage.....	1,789 50
Total.....	\$3,296 92

Lamps and Gas and Electric Lighting, 1892—

Boulevard lamps.....	\$2,604 25
Fire-alarm signal lamps.....	82 50
Gas examinations.....	459 00
Horse-hire.....	518 00
Lighting public offices.....	11,840 95
Lighting streets.....	182,690 00
Lettering globes.....	90 00
Lamp-irons.....	167 00
Lamp-posts.....	181 62
Pay-rolls.....	860 50
Rent of photometrical rooms.....	240 00
Ruby door-glass.....	87 50
Repairing lamps.....	392 03
Repairing street signs.....	75 00
Street lamps.....	2,956 50
Street signs.....	1,157 38
Sundry supplies.....	101 86
Total.....	\$204,504 09

Laying Croton Pipes, 1892—

Cast-iron water-pipe.....	\$13,750 03
Changing taps.....	36 00
Horse-hire.....	270 00
Laying water-pipes.....	37,305 62
Pay-rolls.....	3,996 49
Stop-cock boxes and covers.....	442 50
Stop-cocks.....	3,895 55
Traveling expenses.....	217 01
Total.....	\$59,913 20

Laying Croton Pipes, 1891—

Laying water-pipes.....	\$14,879 60
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Public Buildings—Construction and Repairs, 1892—

Armory, Seventh Regiment.....	\$284 82
“ Ninth Regiment.....	183 62
“ Twelfth Regiment.....	636 50
“ Twenty-second Regiment.....	351 30
“ Sixty-ninth Regiment.....	137 26
“ Seventy-first Regiment.....	259 53
“ Second Battery.....	93 00
“ Troop “A”.....	8 00
Brown-stone Building.....	816 77
Bureau of Repairs and Supplies.....	458 48
City Hall.....	854 74
Court, First District Civil.....	257 92
“ Second “.....	525 10
“ Third “.....	18 95
“ Fifth “.....	118 93
“ Seventh “.....	114 90
“ Eighth “.....	29 00
“ Tenth “.....	15 09
Court, First District Police.....	80 15
“ Second “.....	45 37
“ Third “.....	236 04
“ Fourth “.....	329 01
“ Fifth “.....	64 03
“ Sixth “.....	8 06
Court-house, County.....	12,537 01
Dog Pound.....	90 12
Ludlow Street Jail.....	77 75
Market, Catharine.....	113 06
“ Centre.....	870 02
“ Clinton.....	2,339 80
“ Essex.....	323 26
“ Fulton.....	322 07
“ Jefferson.....	187 41
“ Tompkins.....	157 17
“ Washington.....	363 38
“ West Washington.....	753 00
Pay-rolls.....	3,837 25
No. 49 Beekman street.....	437 50
No. 27 Chambers street.....	4 21
No. 31 Chambers street.....	695 72
No. 49 Chambers street.....	9 85
No. 220 Fourth avenue.....	82 86
Rivington Street Yard.....	38 00
Stewart Building.....	301 88
Staatz Zeitung Building.....	402 23
Tombs.....	388 81
Total.....	\$30,258 94

Public Drinking-hydrants, 1892—

Drinking-hydrants.....	\$105 51
Repairing hydrants.....	289 13
Total.....	\$394 64

Removing Obstructions in Streets and Avenues, 1892—

Horse-hire.....	\$270 00
Pay-rolls.....	1,437 00
Removing obstructions.....	1,648 80
Removing poles and wire.....	4,749 50
Removing trees.....	507 00
Traveling expenses.....	166 55
Total.....	\$8,838 85

Repairing and Renewal of Pipes, Stop-cocks, etc., 1892—

Cast-iron water pipes.....	\$728 67
Changing taps.....	104 85
Cement.....	49 00
Erecting fence.....	470 00
Hardware supplies.....	165 20
Horse-hire.....	270 00
Hydrants.....	2,048 27
Laying water-mains.....	2,353 30
Lead.....	461 50
Lumber.....	60 20
Pay-rolls.....	47,532 60
Packing-boxes.....	120 50
Repairing hydrants.....	1,004 00
“ pavement.....	186 46
“ tapping machine.....	83 74
Stop-cocks.....	2,398 63

Repairing and Renewal of Pipes, Stop-cocks, etc., 1892—

Stop-cock boxes.....	\$342 00
Setting water-meters.....	263 81
Stoves.....	160 00
Sundry supplies.....	37 54
Telephone service.....	169 00
Traveling expenses.....	61 67
Whitewood plugs.....	94 60
Total.....	\$59,165 54

Repairs and Renewal of Pavements and Regrading, 1892—

Boilers.....	\$640 00
Cutting granite blocks.....	2,250 00
Gravel.....	294 00
Horse-hire.....	845 00
Paving cement.....	801 12
Pay-rolls.....	101,725 96
Rent of lot.....	62 50
Relaying pavement.....	3,173 84
Repairing tools.....	759 75
Repairing tar-kettles.....	51 25
Sand.....	3,132 59
Sundry supplies.....	231 60
Traveling expenses.....	245 20
Wood.....	270 00
Total.....	\$114,482 81

Repairs and Renewal of Pavements and Regrading, 1891—

Pitch-kettles.....	\$320 00
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Repaving (Chap. 35, Laws of 1892), 1892—

Barclay street, from Greenwich to West street.....	\$2,279 90
Beaver street, from Whitehall to Pearl street.....	10,088 32
Broadway, from Thirty-second to Thirty-fifth street.....	28,523 35
Broome street, from Bowery to Lewis street.....	10,660 33
Chrystie street, from Division to Grand street.....	28,488 93
Dey street, from Greenwich to West street.....	5,399 10
Division street, from Catharine to Pitt street.....	22,057 41
Fourth avenue, from Third to Thirty-second street.....	47,396 30
Forty-second street, from Third to Eighth avenue.....	54,591 56
Fulton street, from Broadway to Pearl street.....	16,109 45
Liberty street, from Nassau street to 210 feet west.....	18,221 47
Murray street, from Greenwich to West street.....	1,924 72
Rivington street, from Bowery to Cannon street.....	3,242 31
Second avenue, from Houston to Twenty-second street.....	87,593 89
Tenth street, from Second avenue to Avenue A.....	27,449 55
Vesey street, from Greenwich to West street.....	7,785 84
Warren street, from Greenwich to West street.....	699 59
Horse-hire.....	270 00
Pay-rolls.....	12,940 49
Traveling expenses.....	45 65
Total.....	\$394,768 16

Repaving (Chap. 346, Laws of 1889), 1891—

Third avenue, from Twenty-third to Fifty-ninth street.....	\$51,516 27
West street, from Battery place to Gansevoort street.....	18,914 47
Total.....	\$70,430 74

Repaving (Chap. 346, Laws of 1889), 1890—

Broadway and Union Square, West, from Bowling Green to Thirty-second street.....	\$95,456 15
Eighth avenue, from Thirteenth to Fifty-ninth street.....	8,569 67
Total.....	\$104,025 82

Repaving (Chap. 346, Laws of 1889), 1889—

Forty-sixth and Forty-seventh streets, from Madison to Sixth avenues.....	\$364 02
Lexington avenue, from Twenty-second to Fifty-ninth street.....	2,320 85
Thirty-eighth street, from Park to Madison avenue.....	18 52
Total.....	\$2,703 39

Repaving Streets and Avenues, 1892—

Eldridge street, from Division to Houston street.....	\$1,766 01
Houston street, from Bowery to Eldridge street.....	27,694 76
Lipsenard street, from Broadway to West Broadway.....	7,577 62
Ninth street, from Avenue D to East river.....	2,753 70
Third street, from Broadway to Sixth avenue.....	11,218 59
Analyzing asphalt.....	379 75
Testing sand, cement, etc.....	100 00
Total.....	\$51,490 43

Repaving Streets and Avenues, 1891—

Bowery, from Chatham Square to Sixth street.....	\$26,599 30
Third avenue, from Sixth to Twenty-third street.....	43,946 70
Total.....	\$70,546 00

Repaving Streets and Avenues, 1890—

Goerck street, from Grand to Third street.....	\$160 84
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Retaining-walls in East Forty-second and East Fifty-first streets, 1890—

Building retaining-wall.....	\$1,968 77
Painting wall and railing.....	40 00
Total.....	\$2,008 77

Roads, Streets and Avenues, Unpaved, etc., 1892—

Hardware supplies.....	\$221 77
Horse-hire.....	270 00
Pay-rolls.....	14,607 34
Sundry supplies.....	130 03
Total.....	\$15,229 14

Sewers—Repairing and Cleaning, 1892—

Basin head.....	\$50 00
Cement.....	88 50
Cleaning sewer.....	528 72
Hardware supplies.....	62 45
Hood trap.....	125 00
Horse-hire.....	540 00
Pay-rolls.....	23,498 25
Repairing sewer.....	500 00
Sundry supplies.....	208 73
Traveling expenses.....	436 80
Total.....	\$26,038 45

Street Improvements—For Surveying, Monumenting, 1892—

Pay-rolls.....	\$577 50
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Supplies for and Cleaning Public Offices, 1892—

Armory, Twelfth Regiment.....	\$9 00
" Sixty-ninth ".....	15 47
" Seventy-first ".....	21 50
Bureau of Repairs and Supplies.....	10,015 62
Brown-stone Building.....	121 55
City Hall.....	128 13
Court, Second District Civil.....	9 00
" Fourth ".....	7 50
" Sixth ".....	25 40
" Seventh ".....	134 03
" Eighth ".....	16 50
" Ninth ".....	81 00
" Tenth ".....	9 00
" Eleventh ".....	107 14
" Third District Police.....	30 00
" Fourth ".....	160 48
" Fifth ".....	43 00
" City.....	263 98
" Common Pleas.....	800 22
" General Sessions.....	47 00
" Supreme.....	168 13
" Superior.....	171 60
" Surrogate.....	379 62
Court-house, County.....	230 78
Market, Essex.....	9 00
" Jefferson.....	18 00
Office, Board of Assessors.....	33 70
" " Police Justices.....	68 25
" " Civil Service.....	15 00
" Commissioner of Accounts.....	24 35
" Counsel to the Corporation.....	460 28
" Corporation Attorney.....	110 94
" Department of Finance.....	348 16
" Department of Public Works.....	275 85
" Department of Taxes and Assessments.....	64 33
" District Attorney.....	76 00
" Sheriff.....	250 00
" Pay-rolls.....	21,452 12
Total.....	\$36,202 23

Supplies for and Cleaning Public Offices, 1890—

Bureau of Repairs and Supplies.....	\$419 03
Court, Second District Police.....	163 84
Total.....	\$582 87

Water Supply for the Twenty-fourth Ward—

Supply of water.....	\$1,500 68
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RECAPITULATION OF APPROPRIATIONS.

Aqueduct—Repairs, Maintenance and Strengthening, 1892.....	\$64,413 45
Aqueduct—Repairs, Maintenance and Strengthening, 1891.....	186 55
Aqueduct—Repairs, Maintenance and Strengthening, 1890.....	12,870 00
Aqueduct—Repairs, Maintenance and Strengthening—Salaries, 1892.....	7,033 23
Boring Examinations for Grading and Sewer Contracts, 1892.....	488 50
Boulevards, Roads and Avenues, 1892.....	28,176 88
Boulevards, Roads and Avenues—Salaries, 1892.....	624 99
Bronx River Works—Maintenance and Repairs, 1892.....	6,390 76
Bronx River Works—Maintenance and Repairs—Salaries, 1892.....	400 00
Contingencies, 1892.....	1,039 90
Flagging Sidewalks and Fencing Vacant Lots, 1892.....	989 47
For New Fire-hydrants, 1892.....	370 00
For Advertising for all Departments, 1892.....	5 40
Free Floating Baths, 1892.....	3,296 92
Free Floating Baths—Salaries, 1892.....	4,574 50
Lamps and Gas and Electric Lighting, 1892.....	204,504 09
Lamps and Gas and Electric Lighting—Salaries, 1892.....	1,624 95
Laying Croton-pipes, 1892.....	59,913 20
Laying Croton-pipes, 1891.....	14,879 60
Laying Croton-pipes—Salaries, 1892.....	4,701 50
Public Buildings—Construction and Repairs, 1892.....	30,258 04
Public Drinking Hydrants, 1892.....	394 64
Public Drinking Hydrants—Salaries, 1892.....	300 00
Removing Obstructions in Streets and Avenues, 1892.....	8,838 85
Removing Obstructions in Streets and Avenues—Salaries, 1892.....	1,650 00
Repairing and Renewal of Pipes, Stop-cocks, etc., 1892.....	59,165 54
Repairs and Renewal of Pavements and Regrading, 1891.....	320 00
Repairs and Renewal of Pavements and Regrading, 1892.....	114,482 81
Repairs and Renewal of Pavements and Regrading—Salaries, 1892.....	3,575 98
Repaving—(Chapter 35, Laws of 1892), 1892.....	394,768 16
Repaving—(Chapter 346, Laws of 1889), 1891.....	70,430 74
Repaving—(Chapter 346, Laws of 1889), 1890.....	104,025 82
Repaving—(Chapter 346, Laws of 1889), 1889.....	2,703 39
Repaving Streets and Avenues, 1892.....	51,490 43
Repaving Streets and Avenues, 1891.....	70,546 00
Repaving Streets and Avenues—Salaries, 1890.....	160 84
Repaving Streets and Avenues—Salaries, 1892.....	3,562 00
Retaining-wall in East Fifty-first and East Forty-second Streets, 1890.....	2,008 77
Roads, Streets and Avenues Unpaved, 1892.....	15,229 14
Salaries—Department of Public Works, 1892.....	24,253 90
Salaries of Engineer, Clerk, Inspectors, etc., 1892.....	13,585 39
Sewers—Repairing and Cleaning, 1892.....	26,038 45
Sewers—Repairing and Cleaning—Salaries, 1892.....	2,461 98
Sewerage System—Salaries, 1892.....	2,053 34
Street Improvements—For Surveying, Monumenting, etc., 1892.....	577 50
Supplies for and Cleaning Public Offices, 1892.....	36,202 23
Supplies for and Cleaning Public Offices—1890.....	582 87
Supplies for and Cleaning Public Offices—Salaries, 1892.....	4,603 00
Supplying Water to Shipping and for Building Purposes—Salaries, 1892.....	2,346 50
Surveys, Maps, etc., for Street Openings—Salaries, 1892.....	1,774 98
Water Supply for the Twenty-fourth Ward, 1892.....	1,500 68
Water Supply for the Twenty-fourth Ward—Salaries, 1892.....	300 00
Total.....	\$1,466,676 76

TRUST ACCOUNTS.

Bridge over Harlem River at Third Avenue—	
Borings.....	\$960 00
Pay-rolls.....	530 00
Surveying instruments.....	164 50
Total.....	1,654 50
Bridge over Harlem Ship Canal—	
Pay-rolls.....	\$100 00
Croton Water Fund—	
Clerical services.....	\$375 00
Cement.....	293 01
Hardware supplies.....	216 46
Horse-hire.....	1,047 50
Land.....	145,673 32
Lime.....	336 50
Lumber.....	252 66
Pay-rolls.....	18,573 72

Croton Water Fund—	
Plumbing.....	\$205 00
Professional services.....	14,351 65
Rent of room.....	400 00
Reservoir, near Amawalk.....	30,786 30
Reservoir, Byram river.....	5,894 67
Searches.....	1,592 05
Sundry supplies.....	392 30
Traveling expenses.....	1,074 82

Total.....\$221,464 96

Criminal Court-house Fund—	
Carpenter work.....	\$22,056 00
Heating and ventilation.....	12,135 00
Iron work.....	47,181 00
Mason work.....	31,875 00
Plumbing, gas-fitting and drainage.....	1,500 00
Professional services.....	2,838 98
Pay-rolls.....	2,098 50

Total.....\$119,684 48

Fund for Viaduct from St. Nicholas Place, etc.—	
Architect's fees.....	\$1,439 42
Pay-rolls.....	1,122 45
Work on contract.....	35,985 60

Total.....\$38,547 47

Public Buildings, Twelfth Ward, Construction of—	
Pay-roll.....	\$360 00
Work on contract.....	6,750 00

Total.....\$7,110 00

Restoring and Repaving—Special Fund—	
Pay-rolls.....	\$8,527 37
Pitch Kettle.....	320 00
Repairing pavement.....	1,113 49
Restoring pavement.....	5,187 00

Total.....\$15,147 86

Street Improvement Fund—	
Curbing and flagging.....	\$11,723 03
Fencing.....	509 20
Paving and crosswalks.....	123,398 44
Pay-rolls.....	24,239 22
Regulating, grading, etc.....	60,104 79
Sewers.....	120,111 14
Surveying.....	5,737 99

Total.....\$345,823 81

Water Meter Fund, No. 2—	
Setting meters.....	\$1,724 80
Water meters.....	1,995 00

Total.....\$3,719 81

RECAPITULATION OF FUNDS.

Croton Water Fund.....	\$221,464 96
Criminal Court-house Fund.....	119,684 48
Fund for Viaduct from St. Nicholas Place, etc.....	38,547 47
Public Buildings, Twelfth Ward, Construction of.....	7,110 00
Restoring and Repaving—Special Fund.....	15,147 86
Street Improvement Fund.....	345,823 81
Water Meter Fund, No. 2.....	3,719 81
Bridge across Harlem river at Third avenue.....	1,654 50
Bridge across Harlem Ship Canal.....	100 00

Total.....\$753,252 89

Document "C."

STATEMENT OF CONTRACTS.

Contracts Entered Into during the Quarter ending December 31, 1892.

NATURE AND LOCATION OF WORK.	CONTRACTOR.	ESTIMATED COST.
<i>Sewer and Receiving-basin Contracts.</i>		
Sewer in Ninetieth street, between Boulevard and Amsterdam avenue.....	Patrick Casey.....	\$2,851 00
Sewer in Ninety-first street, between Boulevard and Amsterdam avenue.....	John Slattery.....	2,687 50
Sewer in Ninety-ninth street, between Third and Park avenues.....	Lawrence Rock.....	8,857 30
Sewer in One Hundred and Ninth street, between Riverside avenue and Boulevard.....	Patrick Casey.....	3,666 00
Sewer in One Hundred and Eighteenth street, between Fifth and Madison avenues.....	Del Genovese & Towle.....	5,525 75
Sewer in One Hundred and Twentieth street, between Amsterdam avenue and Boulevard.....	Thomas Murray.....	7,161 63
Sewer in Twelfth and Thirteenth avenues, between Twenty-seventh and Thirtieth streets, and in Twenty-seventh, Twenty-eighth and Twenty-ninth streets, between Eleventh and Thirteenth avenues, etc.....	Patrick Casey.....	30,999 50
Sewer in Kingsbridge road, between Naegle avenue and One Hundred and Seventy-fifth street, etc.....	".....	61,244 50
Sewer in Kingsbridge road, between Dyckman street and Naegle avenue.....	Terence A. Smith.....	45,983 00
Sewer in Dyckman street, between Hudson river and Kingsbridge road.....	".....	41,076 00
Sewer in Wooster street, east side, between West Fourth street and Washington place, and in Washington place.....	William F. Cunningham.....	2,551 00
Sewer in Amsterdam avenue, west side, between Eighty-ninth and Ninety-second streets.....	George Connolly.....	5,848 00
Sewer in Ninety-third street, between Boulevard and Amsterdam avenue.....	E. S. Van Aiken.....	2,537 50
Sewer in One Hundred and Seventh street, between Boulevard and Amsterdam avenue.....	McLaughlin & McGrath.....	2,710 70
Sewer in One Hundred and Sixty-sixth street, between Amsterdam and Audubon avenues.....	".....	3,115 00
Sewer in Ninety-eighth street, between West End avenue and Boulevard.....	John H. White.....	2,008 30
Sewer in One Hundred and Forty-eighth street, between Avenue St. Nicholas and Amsterdam avenue.....	Thomas Murray.....	4,008 43
Receiving-basin on southwest corner of One Hundred and Twenty-seventh street and Boulevard.....	John Kenny.....	190 00
Receiving-basin on west side of Amsterdam avenue, north of One Hundred and Seventy-eighth street.....	".....	230 00
Receiving-basins southeast corner Ninety-fourth street and south-east and northeast corners Ninety-fifth street and First avenue.....	".....	714 81
Receiving-basins northwest corner One Hundred and Sixty-ninth street and Audubon avenue.....	Patrick Larney.....	261 00

\$234,226 92

NATURE AND LOCATION OF WORK.	CONTRACTOR.	ESTIMATED COST.
<i>Regulating, Grading, Curbing and Flagging Contracts.</i>		
Regulating, grading, etc., One Hundred and Thirtieth street, between Amsterdam and Convent avenues.....	John J. Hopper.....	\$2,220 00
Regulating, grading, etc., Ninetieth street, from Avenue A to East river.....	James Slattery.....	4,362 50
Regulating, grading, etc., Ninety-first street, from Avenue A to East river.....	".....	1,115 42
Flagging, etc., Fortieth street, north side, between Fifth avenue and west end of Reservoir.....	Thomas J. Dunn.....	802 00
Flagging, etc., Tenth avenue, west side, between Thirtieth and Thirty-first streets.....	".....	642 20
Flagging, etc., Thirty-seventh street, from Tenth to Eleventh avenue.....	James Slattery.....	3,205 40
Flagging, etc., Eighty-third street, north side, from Amsterdam avenue to Boulevard.....	".....	822 50
Flagging, etc., One Hundred and Thirty-second street, from Broadway to Amsterdam avenue.....	Denis McGrath.....	1,178 30
Flagging, etc., Twenty-ninth street, north side, from Ninth to Tenth avenue.....	Jos. J. Haiduven.....	1,293 24
Flagging, etc., Sixty-third street, from Central Park, West, to Boulevard.....	Denis McGrath.....	1,802 25
Flagging, etc., around new Court-house, One Hundred and Twenty-first street and Sylvan place.....	Thomas J. Dunn.....	2,050 00
Flagging, etc., Fifth avenue, between Fortieth and Forty-second streets, and south side of Forty-second street, between Fifth avenue and west end of Reservoir.....	Jos. J. Haiduven.....	3,720 00

\$23,213 81

<i>Paving and Repaving Contracts.</i>		
Paving One Hundred and Sixty-first street, from Amsterdam avenue to Boulevard.....	Matthew Baird.....	\$7,264 00
Paving Amsterdam avenue, from One Hundred and Fifty-fifth street to Fort George avenue.....	".....	260,146 47
Paving Eighty-eighth street, from Avenue A to Avenue B.....	James Pollock.....	9,071 40
Paving One Hundred and Thirteenth street, from Fifth to Lenox avenue.....	James Baird.....	8,093 70
Paving One Hundred and Seventeenth street, from Fifth to Lenox avenue.....	".....	8,096 25
Paving Albany street, from Greenwich to West street (land grant).....	".....	1,693 00
Paving Albany street, from Greenwich to West street.....	".....	3,975 00
Paving Twenty-seventh street, from Eleventh to Twelfth avenue (land grant).....	Michael Fitzgerald.....	10,122 60
Paving Carlisle street, from Greenwich to West street (land grant).....	James Baird.....	1,418 30
Paving Carlisle street, from Greenwich to Washington street.....	".....	1,840 50
Paving Fulton street, from Greenwich to West street.....	".....	6,262 50
Paving Twenty-eighth street, from Tenth to Eleventh avenue (land grant).....	Michael Fitzgerald.....	6,750 17
Paving Twenty-eighth street, from Tenth to Eleventh avenue.....	".....	3,100 00
Paving Thirteenth avenue, from Eighteenth to Twenty-third street (land grant).....	".....	32,312 90
Paving Vesey street, from Greenwich to West street.....	Thomas Gearty.....	8,196 30
Paving Cortlandt street, from Greenwich to West street (land grant).....	".....	1,123 37
Paving Cortlandt street, from Greenwich to Washington street.....	".....	8,858 50
Paving One Hundred and Eighteenth street, from Seventh to Eighth avenue.....	Sicilian Asphalt Paving Co.....	6,827 16
Paving One Hundred and Twenty-second street, from Eighth to Manhattan avenue.....	".....	2,581 38
Paving One Hundred and First street, from Boulevard to Riverside Drive.....	F. Thilemann, Jr.....	7,299 85
Paving One Hundred and Forty-fourth street, from Seventh to Eighth avenue.....	William P. Baird.....	7,085 69
Paving Fifth avenue, from Thirtieth to Thirty-second street; Forty-sixth to Forty-seventh street, and Fifty-first to Fifty-third street.....	F. Thilemann, Jr.....	8,585 00
Paving Thames street, from Broadway to Greenwich street, and Mill Lane, from South William to Stone street.....	Barber Asphalt Paving Co.....	3,579 65
Paving Ninth street, from Avenue D to East river.....	John G. Smith.....	3,119 50
Paving Thirteenth street, from Washington street to Thirteenth avenue (land grant).....	".....	11,898 90
Paving Thirteenth street, from Washington street to Tenth avenue.....	".....	876 05
Paving Twenty-seventh street, from Tenth to Eleventh avenue (land grant).....	".....	7,159 69
Paving Twenty-seventh street, from Tenth to Eleventh avenue.....	".....	2,451 25
Paving Thirty-fourth street, from Eleventh avenue to Hudson river (land grant).....	".....	12,634 35
Paving Thirty-fourth street, from Eleventh avenue to Hudson river.....	".....	1,566 40
Paving Bethune street, from Greenwich to West street (land grant).....	".....	4,539 21
Paving Bethune street, from Greenwich to Washington street.....	".....	3,059 50
Paving Perry street, from Washington to West street (land grant).....	".....	1,256 44
Paving Perry street, from Washington to West street.....	".....	2,547 40
Paving Forty-eighth street, from Eleventh to Twelfth avenue (land grant).....	F. Thilemann, Jr.....	367 06
Paving Forty-eighth street, from Eleventh to Twelfth avenue.....	".....	9,442 00
Taking up and relaying pavement in Rector street, from Broadway to Church street; Warren street, from Broadway to College place; Murray street, from Broadway to College place, and Dey street, from Broadway to Church street.....	James Quinn.....	3,936 00
Taking up and relaying pavement in Spruce street, from Nassau to William street; Maiden Lane, from Broadway to William street; Nassau street, from Beekman to Fulton street; Ann street, from Broadway to Nassau street, and Roosevelt street, from New Chambers to Cherry street.....	".....	3,390 60

\$482,528 04

<i>Laying Water-main Contracts.</i>		
Relaying water-mains in Southern Boulevard, Hamilton place, and in One Hundredth, One Hundred and Forty-eighth, One Hundred and Fifty-third, Kelly, Topping and Chisholm streets.....	Martin Lipps.....	\$4,065 00

<i>Fencing Contracts.</i>		
Fencing vacant lots on south side of Seventy-seventh street, from Columbus to Amsterdam avenue.....	Patrick Larney.....	\$51 00

<i>Miscellaneous Contracts.</i>		
Gas and electric fixtures in the New Harlem Court-house.....	Mitchell-Vance Co.....	\$1,560 87
Alterations to temporary armory of Seventy-first Regiment.....	Mathias Theriault.....	4,295 00

\$5,855 87

RECAPITULATION.

21 Sewer and Receiving Contracts.....	\$234,226 92
12 Regulating, Grading, Curbing and Flagging Contracts.....	23,213 81
38 Paving and Repaving Contracts.....	482,528 04
1 Laying Water-main Contract.....	4,065 00
1 Fencing Contract.....	51 00
2 Miscellaneous Contracts.....	5,855 87
75 Contracts.....	\$749,940 64

Contracts Completed.

NATURE OF WORK.	LOCATION OF WORK.	AMOUNT.
<i>Sewer and Receiving-basin Contracts.</i>		
Sewer.....	In Park avenue, east side, between Ninety-fifth and Ninety-sixth streets, etc.....	\$4,041 20
".....	In One Hundred and Forty-eighth street, between Boulevard and Amsterdam avenue.....	6,600 00

NATURE OF WORK.	LOCATION OF WORK.	AMOUNT.	NATURE OF WORK.	LOCATION OF WORK.	AMOUNT.
Sewer	In Eighty-eighth street, between Avenue A and summit east.	\$9,339 55	Paving	Vesey street, from Greenwich to West street.	\$8,132 02
"	In Eighteenth street, between North river and Tenth avenue.	17,226 00	"	Liberty street, from Nassau street to 210 feet west; Fifth avenue, from Fourth street to Waverley place, and Twentieth and Twenty-first streets, from Third to Fourth avenue.	25,030 66
"	In One Hundred and Forty-seventh street, between Hudson river and Boulevard.	5,247 61	"	One Hundred and Twenty-second street, from Eighth to Manhattan avenue.	2,500 32
"	In One Hundred and Eighth street, between Manhattan avenue and Central Park, West.	1,268 00	"	Forty-second street, from Third to Eighth avenue.	73,337 18
"	In One Hundred and Thirty-ninth street, between Hamilton place and Amsterdam avenue.	3,611 00	"	Broadway, from Union Square to Thirty-second street.	251,837 47
"	In One Hundred and Forty-ninth street, between Hamilton place and Amsterdam avenue.	4,532 34	"	Ninth street, from Avenue D to East river.	2,912 16
"	In South street, between Market Slip and Montgomery street.	36,284 00	"	Thomas street, from Broadway to Greenwich, and Mill lane, from South Wilham to Stone street.	3,532 30
"	In South street, between Broad and Wall streets, etc.	27,561 50	"	Across Thirtieth street, west side of Tenth avenue.	98 04
"	In One Hundred and Eighth street, between Boulevard and Amsterdam avenue.	3,038 71	Laying crosswalks.	Across St. Nicholas avenue, north side of One Hundred and Twenty-third street and north and south sides of One Hundred and Twenty-second, One Hundred and Twenty-fourth, One Hundred and Twenty-sixth and One Hundred and Twenty-seventh streets.	1,009 88
"	In One Hundred and Forty-fourth street, between Boulevard and Amsterdam avenue.	4,327 50	"	Across Kingsbridge road, north and south sides of One Hundred and Seventy-fifth street, Fort Washington Depot and road, etc.	1,076 92
"	In One Hundred and Ninth street, between Manhattan avenue and Central Park, West.	1,262 00	"	Across Columbus avenue, south side of One Hundred and Twenty-fourth street, and across One Hundred and Twenty-fourth street, east side of Columbus avenue.	358 19
"	In Eighteenth street, between East river and Avenue A, etc.	27,459 00	"	Across Tenth avenue, south side of Thirtieth street.	95 16
"	In West Eleventh street, between North river and West street, etc.	15,800 00			\$928,776 51
"	In Sixty-eighth street, between Avenue A and East river.	4,796 25			
"	In Second avenue, between Seventy-first and Seventy-second streets, etc.	6,727 55			
"	In Ninety-fifth street, between First and Third avenues, and in Second avenue, between Ninety-fifth and Ninety-sixth streets, etc.	21,077 66			
"	In First avenue, between Forty-second and Forty-fifth streets.	5,463 50	Laying water-mains.	In Fourth, Madison, Bathgate, Twelfth, Thirteenth, Kirkside, Hull, Jerome, Locust, Walnut, Beckman, Bannbridge and Creston avenues, Twenty-seventh, Twenty-eighth, Twenty-ninth, Eighty-eighth, One Hundred and Seventeenth, One Hundred and Forty-first, One Hundred and Sixtieth, Union and Woodruff streets and Clark place, German place, Beach Terrace and Oak Terrace.	\$10,464 52
"	In Twenty-fourth street, between East river and First avenue, etc.	13,684 00	"	In Manhattan and One Hundred and Tenth streets and in St. Nicholas and Fifth avenues.	96,639 55
"	In Columbus avenue, between One Hundred and Fourth and One Hundred and Fifth streets.	2,684 00	"	In Lexington, Vanderbilt, Amsterdam, Kingsbridge and Terrace View avenues, Sixty-fourth, Ninety-sixth, One Hundred and Forty-fourth, One Hundred and Fifty-fifth, One Hundred and Fifty-sixth and Inwood streets and Kingsbridge road.	3,353 38
Receiving-basins	Northwest corner of One Hundred and Twenty-third street, and northwest, northeast and southeast corners of One Hundred and Twenty-fourth street and Seventh avenue.	800 55	Relaying water-mains.	In Wever, Washington, Morris and Railroad avenues and One Hundred and Thirty-ninth, One Hundred and Forty-sixth, One Hundred and Fifty-second, One Hundred and Sixty-third, One Hundred and Sixty-ninth and One Hundred and Seventieth streets.	2,477 15
"	Northwest corner of One Hundred and Twenty-third street and Lenox avenue.	205 13			\$112,984 60
"	Northeast corner of Ninety-seventh street and West End avenue.	228 10			
"	Northwest corner of Eighty-first street and Lexington avenue.	456 60			
Receiving-basin.	Amsterdam avenue, west side, north of One Hundred and Seventy-eighth street.	210 00			
"	Southwest corner One Hundred and Twenty-seventh street and Boulevard.	170 00			
		\$217,302 26			
	Regulating, Grading, Curbing, Flagging, etc., Contracts.				
Regulating, grading, etc.	One Hundred and Forty-eighth street, from Amsterdam to St. Nicholas avenue.	\$1,967 65	Fencing vacant lots	On north side of Eighty-ninth street, between West End avenue and Riverside Drive.	\$57 19
"	One Hundred and Forty-seventh street, from Boulevard to 80 feet west.	3,986 80	"	On north side of One Hundred and Fifteenth street, between Fifth and Lenox avenues.	96 75
"	One Hundred and Forty-ninth street, from Boulevard west to Twelfth avenue.	14,821 74	"	On block bounded by Ninety-second and Ninety-third streets, First avenue and Avenue A.	264 48
"	One Hundred and Forty-first street, from Seventh avenue to Harlem river.	8,800 04	"	On west side of Madison avenue, between One Hundred and Fourth and One Hundred and Fifth streets.	50 03
"	One Hundred and Eighty-third street, from Amsterdam avenue to Kingsbridge road.	24,420 30	"	On south side of Seventy-seventh street, between Amsterdam and Columbus avenues.	44 25
Flagging, etc.	One Hundred and Tenth street, from First to Second avenue.	834 61			\$512 70
"	Thirty-first, Thirty-second and Thirty-third streets, from First avenue to East river.	2,701 21			
"	Seventy-fifth street, from Second to Third avenue.	609 07			
"	One Hundred and Fourth street, south side, from Madison to Fifth avenue.	418 82			
"	In front of Nos. 86 and 88 Vandam street.	118 62			
"	One Hundred and Seventy-fifth street, between Kingsbridge road and Eleventh avenue.	172 37			
"	In front of Nos. 328 and 330 West Fortieth street.	98 86			
"	Thirty-fifth street, north side, between Eleventh avenue and North river.	1,020 27			
"	One Hundred and Third street, north side, from First avenue to 500 feet west.	457 45			
"	Hancock place, One Hundred and Twenty-fifth street, St. Nicholas and Columbus avenues.	569 58			
"	Columbus avenue, from Sixty-fifth to Seventieth street.	807 97			
"	Eighth avenue, from One Hundred and Forty-eighth to One Hundred and Fifty-fourth street.	3,185 70			
"	Fortieth street, north side, between Fifth avenue and west end of Reservoir.	800 25			
"	Tenth avenue, west side, from Thirtieth to Thirty-first street.	579 10			
"	Eighty-third street, north side, from Amsterdam avenue to Boulevard.	311 63			
		\$67,582 04			
	Paving and Relaying Contracts.				
Paving.	Elm street, from Grand to Broome street.	\$2,090 93			
"	Third street, from Broadway to Sixth avenue.	24,278 83			
"	Beaver street, from Whitehall to Pearl street, and Courtlandt, Liberty and Church streets.	29,771 03			
"	One Hundred and Twenty-first street, from Avenue A to Harlem river.	2,422 63			
"	Division street, from Catharine to Pitt street, and Cherry street, from Roosevelt to Catharine street.	55,339 58			
"	Amsterdam avenue, from One Hundred and Thirtieth to One Hundred and Fortieth street.	35,749 10			
"	One Hundred and Forty-second street, from Eighth to Bradhurst avenue.	2,677 51			
"	Chrystie street, from Division to Grand street, and Forsyth, Attorney and Willett streets.	71,230 47			
"	Houston street, from Bowery to Eldridge street and from Ludlow to Lewis street.	54,345 60			
"	One Hundred and Forty-third street, from Eighth to Bradhurst avenue.	2,436 51			
"	One Hundred and Sixteenth street, from Avenue A to Harlem river.	5,883 57			
"	One Hundred and Forty-third street, between Boulevard and Amsterdam avenue.	6,737 10			
"	One Hundred and Fifteenth street, between Avenue A and Harlem river.	4,036 70			
"	One Hundred and Eighteenth street, between Seventh and Eighth avenues.	6,784 24			
"	Tenth street, from Second avenue to Avenue A; Thirty-seventh street, from First to Third avenue, and Thirty-eighth street, from Park to Lexington avenue.	39,213 64			
"	Ninth street, between Avenue D and East river.	5,418 71			
"	Warren street, from Greenwich to West street.	734 39			
"	Broome street, from Bowery to Lewis street.	49,214 04			
"	Second avenue, from Houston to Twenty-second street, and Twenty-second street, from Second to Third avenue.	125,134 12			
"	Murray street, from Greenwich to West street.	2,018 34			
"	Barclay street, from Greenwich to West street.	2,392 48			
"	Broadway, from Thirty-second to Thirty-fifth street, and Fourteenth street, from Third to Fourth avenue.	29,944 55			

SUMMARY OF EXPENDITURES FOR YEAR 1892.

Aqueduct—Repairs, Maintenance and Strengthening.....	\$214,078 77
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	27,861 03
Aqueduct—Repairs, Maintenance and Strengthening—Excavating, etc.....	44,637 20
Aqueduct—Repairs, Maintenance and Strengthening—Building New Gate-house.....	7,557 18
Aqueduct—Repairs, Maintenance and Strengthening—Parapet-wall.....	3,999 76
Boulevards, Roads, etc.—Approach to McComb's Dam Bridge.....	550 00
Bronx River Works—Maintenance and Repairs.....	23,632 20
Bronx River Works—Salaries.....	1,441 38
Bridge over Harlem River at Third Avenue.....	1,654 50
Bridge over Harlem Ship Canal.....	100 00
Croton Water Fund.....	374,204 28
Contingencies—Department of Public Works.....	14 00
Fund for Viaduct.....	321,600 78
For New Fire-hydrants.....	10,561 95
Laying Croton Pipes.....	261,611 75
Laying Croton Pipes—Salaries.....	18,164 98
Repairing and Renewal of Pipes, Stop-cocks, etc.....	58,644 62
Salaries—Engineers.....	15,033 47
Water Meter Fund, No. 2.....	19,327 65
Water Supply for Twenty-fourth Ward.....	4,612 06
Total.....	\$1,409,287 56

Contracts Made, Completed and Unfinished in 1892.

WORK.	CONTRACTOR.	DATE OF CONTRACT.	ESTIMATED COST.	DATE OF FINAL ESTIMATE.	AMOUNT OF FINAL ESTIMATE.	AMOUNT PAID IN 1892.
Building reservoir on Byram river.....	John McQuade.....	1889. Jan. 7	\$209,155 00	.....	.....	\$7,249 49
Building reservoir on Muscoot river.....	".....	July 25	540,620 00	.....	.....	109,149 75
Improvement of One Hundred and Fifty-fifth street.....	H. Steward.....	1890. July 14	514,423 00	.....	.....	302,623 35
Removing gate-house on Tenth avenue.....	William Mansfield.....	Nov. 10	12,283 00	June 29	\$9,979 05	7,557 18
Furnishing and laying mains from Shaft 25 to High Bridge	Terence A. Smith.....	1891. Feb. 13	46,028 00	.....	.....	22,053 10
Improvement of Old Reservoir, Central Park.....	Robert Hanna.....	July 27	67,950 00	.....	.....	.....
Furnishing cast-iron water-pipe	John Fox.....	Aug. 26	15,282 00	Jan. 30	17,667 02	6,493 15
Improvement of Old Reservoir, excavation.....	Pietro Indelli.....	Oct. 3	56,000 00	.....	.....	40,235 20
Furnishing cast-iron water-pipe	Warren Foundry and Machine Co.....	Nov. 28	5,750 00	Mar. 18	5,491 45	5,491 45
Laying water-mains in Bristow street, etc.....	John Cornwell, Jr.....	Dec. 28	4,627 91	May 5	4,917 23	4,671 37
Furnishing coal.....	William D. Bruns.....	1892. Feb. 1	26,720 00	Dec. 28	26,947 40	26,947 40
Furnishing tapping-cocks and boxes.....	John Fox.....	" 1	2,365 00	Apr. 5	2,365 00	2,365 00
Furnishing and laying mains in Manhattan street, etc.....	John Cornwell, Jr.....	" 1	82,979 50	Nov. 25	96,629 55	91,855 07
Furnishing stop-cocks, etc.....	Kennedy Valve Manufacturing Co.....	" 5	8,075 00	Oct. 14	8,075 00	8,075 00
Furnishing cast-iron water-pipe	Warren Foundry and Machine Co.....	Mar. 2	48,184 00	.....	.....	34,495 80
Laying mains in Fourth avenue, etc.....	John Cornwell, Jr.....	" 4	11,735 20	Oct. 4	10,464 52	9,941 30
Furnishing cut stone.....	W. J. Ford.....	Apr. 16	4,325 00	Sept. 29	3,999 76	3,999 76
Furnishing stop-cocks, etc.....	Kennedy Valve Manufacturing Co.....	" 8	8,562 50	Dec. 1	8,562 50	8,562 50
Laying water-mains in Sixth avenue.....	Walter J. Ford.....	May 28	12,221 00	.....	.....	6,660 44
Laying mains in Lexington avenue.....	Martin Lipps.....	July 21	3,780 00	Dec. 13	3,353 38	3,185 71
Furnishing and laying mains in One Hundred and Third street.....	".....	" 21	31,347 00	.....	.....	16,656 75
Relaying mains in Webster avenue.....	".....	Sept. 12	2,505 00	Oct. 24	2,477 15	2,353 30
Furnishing coping stone.....	Walter J. Ford.....	" 21	3,525 00	.....	.....	.....
Laying and relaying flagging on Fortieth street.....	Thomas J. Dunn.....	Oct. 17	802 00	Dec. 15	800 25	800 25
Relaying main in Southern Boulevard.....	Martin Lipps.....	Dec. 19	4,065 00	.....	.....	.....

STORAGE RESERVOIRS.

The dry weather continued until November 10, since which date the river has furnished a full supply to the Aqueduct.

Storage Drawn during the Quarter.

	Gallons.
Boyd's Corners Reservoir.....	680,000,000
Middle Branch Reservoir.....	1,090,000,000
East Branch Reservoir.....	2,050,000,000
Bog Brook Reservoir.....	340,000,000
Total during the Quarter.....	4,160,000,000

Storage Drawn during the Year.

	Gallons.
Boyd's Corners Reservoir.....	1,580,000,000
Middle Branch Reservoir.....	2,590,000,000
East Branch Reservoir.....	5,550,000,000
Bog Brook Reservoir.....	340,000,000
Kirk Lake.....	400,000,000
Barrett Pond.....	100,000,000
Total storage drawn in 1892.....	10,560,000,000

Rain-fall—Inches.

	OCTOBER.	NOVEMBER.	DECEMBER.	TOTAL FOR QUARTER.	TOTAL FOR YEAR.
Boyd's Corners Reservoir.....	0.92	7.35	1.15	9.92	45.57
South East Reservoir.....	0.94	6.93	1.06	8.93	44.34
Kensico Reservoir.....	0.55	5.87	1.10	7.52	35.14
Croton Dam.....	0.78	6.46	1.16	8.40	40.52
Central Park Reservoir.....	0.61	6.90	1.34	8.85	36.58

Work on Reservoir "A" has been steadily prosecuted during the year; the contractor is still very far behind on embankment.

The Commission to appraise the lands for Reservoir "A" have made their report, and it has been confirmed by the Supreme Court, and vouchers are now being made to pay the owners their several awards.

The work of removing nuisances was continued, and on November 1 all of the actual nuisances near the streams were removed, and three extra men, under the Engineer, are employed to remove all nuisances, clean vaults, etc., as required. Some law should be enacted by the Legislature requiring villages to enact and carry out rules and regulations as to vaults, drains, wells, etc., so as to protect their inhabitants and incidentally the users of waters passing through same.

Surveys, searches, maps, etc., are being made on the East Branch of the Croton river and on the Bronx river of lands, etc., necessary, within 250 feet of the reservoirs and streams, to stop the pollution of same, under the rules and regulations of the State Board of Health.

BRONX AND BYRAM RIVERS SUPPLY.

The Commission appointed to appraise damages on the Bronx river, below Williamsbridge, are taking testimony. The regular force has been employed in repairing conduit, roads and fences,

excavating, etc., at Rye Ponds, cleaning Kensico Reservoir and macadamizing road around Williamsbridge Reservoir. The supply of water has been steady during the year through the conduit.

During the quarter, owing to the dry weather, only 7,000,000 gallons per day have been supplied.

Owing to the drought during the winter 1891-1892, neither of the reservoirs on this supply were filled, and as the rain-fall during the year has been small and about 10 inches below the average, a full supply could not be furnished the Twenty-third and Twenty-fourth Wards during the quarter.

Storage Drawn during the Quarter.

	Gallons.
Kensico Reservoir.....	340,000,000
Rye Ponds Reservoir.....	90,000,000
Total for quarter.....	430,000,000

Storage Drawn during the Year.

	Gallons.
Kensico Reservoir.....	720,000,000
Rye Ponds Reservoir.....	600,000,000
Total drawn during the year.....	1,320,000,000

The contractor for tunnel, etc., to carry the waters of the Byram river to the Kensico Reservoir has carried on the work very slowly. The tunnel is commenced at both ends, but should be carried on night and day.

Lands Acquired and Damages Paid in 1892.

VOUCHER NO.	PARCEL NO.	NAME OF OWNER.	FOR WHAT PAID.	AMOUNT PAID.	REMARKS.
1303	14	Joseph Barlow.....	Land and damages.....	\$18,191 25	Reservoir "A."
1304	17	E. W. Bedell.....	".....	6,225 00	"
1305	18	James Parent and others.....	".....	13,500 00	"
1306	19	William Thacker and others.....	".....	13,200 00	"
1307	21	Sarah Green.....	".....	15,000 00	"
1308	22	Joseph Perry and others.....	".....	18,500 00	"
1309	23	J. P. Halstead.....	".....	10,500 00	"
1310	24	Munson E. Frost.....	".....	19,575 00	"
1311	25	J. B. Lent.....	".....	8,000 00	"
1312	26	H. G. Barrett.....	".....	1,250 00	"
1396	20	M. C. Green.....	".....	4,455 30	"
1397	20	A. Green.....	".....	234 84	"
1398	20	Ella Green.....	".....	623 82	"
1399	20	County Treasurer of Westchester Co.,	".....	2,264 79	"
1432	16	Enos Lee.....	".....	9,096 92	"
1480	16	M. S. Brown, assignee.....	".....	894 61	"
1481	16	County Treasurer of Westchester Co.,	".....	4,161 79	"

NEW AQUEDUCT.

During the year surveys for lands required by the Aqueduct Commissioners at Reservoir "D" and Cornell's have been carried on.

Maps and descriptions required by the Counsel to the Corporation of lands at Reservoirs "D," "M" and Cornell's have been made and furnished, and final plan sheets of land required at the upper end of Reservoir "D" have been furnished the Aqueduct Commissioners.

Plans, specifications, etc., for new dam at Cornell's, fencing, etc., have been examined and transmitted.

Quantity of Water Received through the New Aqueduct.

	Gallons.
January.....	4,060,000,000
February.....	4,060,000,000
March.....	4,155,000,000
April.....	4,143,000,000
May.....	4,385,000,000
June.....	3,976,000,000
July.....	3,579,000,000
August.....	3,045,000,000
September.....	2,570,000,000
October.....	4,495,000,000
November.....	3,900,000,000
December.....	2,925,000,000

The supply through same has been interrupted for the connecting work of the Aqueduct Commission, from August 29 to September 4, September 12 to September 17, and December 5 to December 8.

The New Aqueduct and appurtenances have worked satisfactorily; the necessary repairs and changes in the screens at Croton Dam and roof of gate-house at One Hundred and Thirty-fifth street will be made by the Aqueduct Commission.

Storage Reservoir "M" is progressing in a satisfactory manner, and, if weather permits, will be ready to fill with water in 1894.

Storage Reservoir "D" is being carried on slowly, and it will be 1896 before same can be completed.

The East Branch Reservoir is completed, and has been in use for two years.

The Bog Brook Reservoir is completed, except one of the gate-houses and repairs to valve in tunnel; this reservoir was filled this year.

Preliminary work has been commenced on the Cornell Dam.

AQUEDUCT REPAIRS, MAINTENANCE AND STRENGTHENING.

Work Done during the Quarter ending December 31, 1892.

DIVISIONS.	Earth Excavated, Cubic Yards.	Stone Quarried, Cubic Yards.	Dry Stone Masonry, Cubic Yards.	Fencing and Grading, Cubic Yards.	Brick Masonry, Cubic Feet.	Concrete Masonry, Cubic Yards.	Pointing Masonry, Square Feet.	Fence Built, Linear Feet.	Fence Repaired, Linear Feet.	Fence Painted, Linear Feet.
First.....	.....	.....	18	.....	.....	.....	.....	.....	.....	.....
Second.....	.....	.....	15	.....	810	.....	.....	250	.....	.....
Third.....	.....	85	72	.....	713	12	.....	800	.....	.....
Fourth.....	650	.....	.....	650	131	.....	90	65	1,300	.....
Fifth.....	.....	.....	300	155	500	.....	200	600	400	300
Sixth.....	.....	575	42	700	3,200	.....	27	117	518	.....
Seventh.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6,200
Eighth.....	.....	6,200	* 768	.....	.....	.....	.....	.....	.....	300
Totals.....	650	6,860	1,215	1,505	5,354	12	317	1,832	2,218	6,800

* Laid in cement.

The regular work on the several divisions has been continued as usual, such as care of surface of Aqueduct, the dam, lake, gate-houses, machinery and grounds, and patrolling Aqueduct property.

The more particular work has been as follows:

First Division—The work on this division has been cleaning out the entire length of Aqueduct while the water was shut off, cleaning around shores of lake, cleaning culverts and ditches, building bank-wall on west end of highway bridge below dam.

Second Division—The work on this division has been building dry stone wall on Potter's bank, east side of line; cut out and removed from side walls and invert at file works arch brick and cement and rebuilt the same, using 810 cubic feet of brick and Portland cement; the entire inside of Aqueduct has been thoroughly cleaned out; building new fence on upper end of line known as Bailey's bank; cleaning culverts, ditches, etc.

Third Division—The work on this division has been cutting out and rebuilding 713 cubic feet of brick and Portland cement of side-wall and invert of Aqueduct; 12 cubic yards of concrete masonry put in bottom of Aqueduct; 1,050 square feet of cement from one to two inches cut out and removed from Aqueduct; built retaining-wall on Lombard bank; built stone masonry on Putnam bank; built new fence on High bank repairs to barn—this with the general maintenance.

Fourth Division—The work on this division has been cutting out and rebuilding 131 cubic feet of tunnel on Aqueduct north of first bank; cutting out and removing old cement in north tunnel; pointing masonry; removing earth; filling and grading; building and repairing fences; cleaning out culverts, ditches and crosswalks, etc.

Fifth Division—The work on this division has been cutting out and rebuilding 505 cubic feet of Aqueduct; building stone-wall in glen; building and repairing fence; pointing ventilators; hauling, filling and grading; building new fence gates; cleaning crosswalks, ditches, culverts, etc.; repairs to half-way house.

Sixth Division—The work on this division has been cutting out and rebuilding 3,200 cubic feet of Aqueduct; built retaining-wall north of gate-house; built chimney on Keeper's house; building and repairing fences; quarrying stone; pointing masonry; filling and grading; cleaning surface of Aqueduct, culverts, ditches, crosswalks, etc.

Seventh Division—The work on this division has been as follows: The reservoir has been kept clean of scum, leaves, etc.; the walks and driveways around the same have been kept clean and in a good condition; the borders have been trimmed and the railing around the same is now being painted; the tank in the tower is being cleaned of rust and painted; the tower is kept in good order and fire is kept in same in cold weather to prevent freezing of pipes; the chambers have been packed with leaves and the stop-cocks been wrapped with straw to protect same; all the screens in the gate-houses are kept ready for use; the screen in the east gate-house has been removed and a new copper one put in its place; after the frames were repaired, the iron railing on the east front of banks facing the Harlem river, also leading down steps from the front of the reservoir banks and along the line of Aqueduct, and the railing on High Bridge and all its approaches, the iron doors of bridge and the lamp posts on same, and picket fence in front of the Keeper's house and odd jobs in and around Engineer's building, all have been painted; the wire and wooden fencing along the Aqueduct down to One Hundred and Fifty-sixth street have been repaired; the ditches, culverts, crosswalks and all the approaches to the bridge have been kept clean and in a presentable condition; the approaches to the engine-house and the coal dock have been kept clean; help has been furnished Engineers, when required, hoisting coal; the bank on the southeast corner of the bridge on west side has been graded and ready for sodding in the spring; snow is cleaned from the steps, walks and Tenth avenue after each storm; the entire surroundings have been kept in good order.

Eighth Division—The work on this division has been cleaning and repairs of Central Park and Forty-second street Reservoirs, gate-houses, chambers and outside mains; cleaning, repairs and maintenance of high-service works, Ninth and Tenth avenues gate-houses and grounds; painted picket fence on Old Reservoir, odd jobs of painting at high-service works and Keeper's house; built in cement slope wall on Old Reservoir on north division, eight feet down from top; gathering leaves around reservoirs, patrolling reservoirs and pipe lines; the improvement in the Old Reservoir in Central Park is still progressing; two contracts for relaying flagging around the Forty-second street Reservoir has been entered into, and one of them for relaying flagging on Fortieth street has been completed.

Work done During the Year 1892.

DIVISION.	Earth Excavated, Cubic Yards.	Stone Quarries, Cubic Yards.	Dry Stone Masonry, Cubic Yards.	Cut Stone Set, Linear Feet.	Brick Masonry, Cubic Feet.	Concrete Masonry, Cubic Yards.	Pointing Masonry, Square Feet.	Flagging, Square Feet.	Curbing Set, Linear Feet.	Filling and Grading, Cubic Yards.	Paving, Square Yards.	Sewer Laid, Linear Feet.	Sodding, Square Yards.	Fence Built, Linear Feet.	Fence Repaired, Linear Feet.	Fence Painted, Linear Feet.	Fence Gates Built.	Fence Posts Set.
First.....	.....	495	.....	.....	.....	300	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Second....	102	.....	101	.....	932	.....	300	22	22	95	.....	.....	4,140	.....	705	.....	.....	.....
Third.....	220	588	468	.....	713	42	.....	.....	.....	.....	.....	.....	1,399	50	1,485	.....	.....	.....
Fourth....	1,272	.....	174	.....	131	.....	90	.....	.....	650	80	.....	1,676	5,100	6,000	.....	.....	.....
Fifth.....	.....	.....	308	.....	505	5	200	16	.....	818	42	273	3,400	1,300	6,000	.....	.....	.....
Sixth.....	75	575	34	.....	3,200	.....	27	.....	.....	1,002	31	104	1,543	2,613	300	5	127	.....
Seventh....	.....	.....	2	.....	.....	.....	.....	.....	.....	320	.....	.....	3,180	.....	1,220	.....	.....	.....
Eighth....	1,450	31,075	*768	580	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,900	.....	.....	.....
Total ..	3,119	32,235	2,365	580	5,181	47	917	*38	22	2,885	31	122	377	15,338	9,263	20,790	11	127

* Laid in cement.

The general character of the work has been maintenance and strengthening, and the more particular work has been remodeling brick manhole for connection with prison water supply and putting in two Nash meters in place of one Crown meter; an extension kitchen has been added to Keeper's house on the Seventh Division. The work of removing the old gate-house on Tenth avenue, at One Hundred and Thirty-fourth and One Hundred and Forty-second streets, is now complete, and the water is controlled by the new gate-house at One Hundred and Thirty-fifth street and Tenth avenue; cut stone parapet wall has been placed on part of the old reservoir wall; the water in Old Aqueduct has been shut off from September 30 to November 21, and the prison was supplied from the water works of the Village of Sing Sing in the meantime; during the time that aqueduct was shut off a considerable amount of repairs was done, all of which has proved very satisfactory.

First Division—The work at this division has been building dry-wall along highway west of dam; building wall in city lot below dam, on east side of river; cleaning out the entire length of Aqueduct while water was shut off; cleaning islands and shores of lakes; cleaning surface of Aqueduct, culverts, drains, etc.; disinfecting privies and, in some cases, removing those that were too near running streams and grading in front of breast-wall.

Second Division—The work on this division has been building stone fences on Potter's bank, Moore's bank and in school-house lot; remodeling brick manhole for connection with prison water supply and putting in two Nash meters in place of one Crown meter; flagging laid, curb set; building, repairing and painting fences; the Aqueduct has all been cleaned out and the side walls and invert at file works arch has been cut out and rebuilt with brick and Portland cement; cleaning surface of Aqueduct, culverts, drains, ditches and crosswalks.

Third Division—The work on this division has been building retaining-wall on Clark's bank, with all the excavation necessary for same; masonry wall built on Putnam's bank, the same being a drain to connect brook; quarrying stone building; repairing and painting fences; repairing barn; cutting out and rebuilding side walls and invert with brick and Portland cement; concrete masonry put in bottom of Aqueduct and 1,050 cubic feet of cement from one to two inches thick cut out and removed; cleaning surface of Aqueduct, drains, ditches, culverts and crosswalks.

Fourth Division—The work on this division has been building stone wall near Elm street, Dobb's Ferry, also retaining-wall built near Methodist Church; laid 80 feet 12-inch sewer near Hasbrouck's; cutting out and rebuilding 131 cubic feet of bottom and top of Aqueduct tunnel north of first bank and in Range's bank; cut out and removed old cement from north tunnel; pointing masonry, hauling, filling and grading; building and repairing and painting fences; cleaning up line, cutting grass and general maintenance.

Fifth Division—The work on this division has been cutting-out and building 505 cubic feet of tunnel in Aqueduct, building dry walls, hauling, filling and grading, repairs to half-way house, on New Aqueduct; pointing masonry, building, repairing and painting fences, flagging, sodding and paving, laying sewer pipe and building receiving-basin, seeding banks, cutting grass, cleaning up line of Aqueduct and keeping culverts, drains and crosswalks clean.

Sixth Division—The work on this division has been building dry walls, quarrying, hauling, filling and grading, building, repairing and painting fences and fence gates, setting gate posts, cutting out and rebuilding 3,200 cubic feet of Aqueduct, pointing masonry, building chimney on Keeper's house, the same having blown down; cleaning up surface of Aqueduct, cutting grass, cleaning culverts, drains and crosswalks; spreading manure, and general maintenance.

Seventh Division—The work on this division has been grading the walk on Aqueduct from One Hundred and Fifty-eighth street to One Hundred and Sixty-fifth street with an average depth of 10 inches, using 245 cubic yards of dirt; the dry stone wall on the east side of the Aqueduct has been rebuilt; a wire fence has been placed on the three exposed viaducts south of the steps leading to reservoir; a new extension kitchen has been added to Keeper's house; the tank in tower is being cleaned of rust and painted; a new copper screen has been placed in east gate-house and the frame repaired; the bank on the southeast corner of High Bridge on west side has been graded, and is ready for seeding in the spring; building, repairing and painting fences and iron railings; painting in and around Engineer's building, pumping station and Keeper's house; cutting grass, cleaning steps, walks and culverts, and keeping in a presentable condition all the approaches to High Bridge; cleaning the steps, bridges, walks, etc., in front of reservoir on Tenth avenue of snow after each storm; spreading screenings, hoisting coal, supplying help to Engineers when required; cleaning reservoir of scum, leaves, etc.; trimming borders; fire is kept in tower and pipes wrapped with straw to keep from freezing; the screws in gate-houses are kept greased and ready for use; the entire division has a constant attention and looks well.

Eighth Division—The work on this division has been cleaning and repairs of Central Park and Forty-second street reservoirs, gate-houses, chambers, etc.; cleaning, repairs and maintenance of high-service works, Ninth and Tenth avenue gate-houses and grounds; spreading manure around reservoir and grounds at Ninety-second, Ninety-third and One Hundred and Thirtieth street gate-houses; repairing and making new bagging around the pumps at high-service works; painting floor, gearing, gates, and iron works in chambers at One Hundred and Thirty-fifth street gate-house; the work of removing the old gate-houses on Tenth avenue is now complete, and the water is running through the new gate-house at One Hundred and Thirty-fifth street; replacing with new beams and putting down new floor in engine-house at Ninety-eighth street; set cut stone on old reservoir wall; built slope wall on old reservoir, north division, 8 feet down from top; the improvement of the old reservoir is still progressing, painting fences and odd jobs in engine-houses and in and around Keeper's house, doing odd jobs of carpenter's work, cutting grass, cleaning up, doing mason work, patrolling pipe lines and reservoirs, and general maintenance.

LAYING CROTON PIPES.

For Quarter ending December 31, 1892.

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

Manhattan street, between Ninth and St. Nicholas avenues.
St. Nicholas avenue, between Manhattan and One Hundred and Tenth streets.
One Hundred and Tenth street, between St. Nicholas and Fifth avenues.
Fifth avenue, between One Hundredth and One Hundred and Tenth streets.
Lexington avenue, between One Hundred and Twenty-fifth street and Harlem river.
Vanderbilt avenue, between One Hundred and Eightieth street and 500 feet north.
Amsterdam avenue (east side), between One Hundred and Twenty-first and One Hundred and Twenty-third streets.
Kingsbridge avenue, between Kingsbridge road and South Terrace View avenue.
Terrace View avenue, between Kingsbridge avenue and Kingsbridge road.
Kingsbridge road, between Terrace View avenue and United States Ship Canal.
Sixty-fourth street, between Eleventh avenue and Railroad.
Ninety-sixth street, between east side of Riverside Drive and Hudson river.
One Hundred and Forty-fourth street, between Amsterdam avenue and Boulevard.
One Hundred and Fifty-fifth street, between Elton and Third avenues.
One Hundred and Fifty-sixth street, between Elton and Third avenues.
Inwood street, between Kingsbridge road and Hudson river.
* One Hundred and Sixty-ninth street, between Amsterdam and Eleventh avenues.
Three contracts for laying pipe and one contract for furnishing stop-cocks, hydrants, etc., completed.

Amount of Pipe Laid, Stop-cocks Set and Hydrants Placed in 1892.

PIPES.			STOP-COCKS.			HYDRANTS.		
Diameter.	Linear Feet Laid during Quarter ending December 31, 1892.	Linear Feet Laid during the Year 1892.	Diameter.	Set during Quarter ending December 31, 1892.	Set during the Year 1892.	Pattern.	Placed during Quarter ending December 31, 1892.	Placed during the Year 1892.
48-inch ...	1,535	9,035	48-inch ...	2	2	Nos. 1 and 2....	6	11
36-inch ...	673	1,378	36-inch ...	3	3	"A" Hydrants	29	159
20-inch ...	133	133	20-inch ...	1	1	Double nozzle.	18	134
12-inch ...	2,322	15,739	12-inch ...	9	27	Totals....	53	304
6-inch ...	10,399	53,698	6-inch ...	50	157			
4-inch ...	96	96	4-inch ...	...	1			
Total lin. } feet.. }	15,163	80,079	Totals...	65	191			

Summary, 1892.

Diameter.	PIPES.			STOP-COCKS.			HYDRANTS.			
	Pipe Laid to Dec. 31, 1891.	Pipe Laid from Dec. 31, 1891, to Dec. 31, 1892.	Total Pipe Laid to Dec. 31, 1892.	Set to Dec. 31, 1891.	Set from Dec. 31, 1891, to Dec. 31, 1892.	Total set to Dec. 31, 1892.	Pattern.	Placed to Dec. 31, 1891.	Placed from Dec. 31, 1891, to Dec. 31, 1892.	Total placed to Dec. 31, 1892.
48-inch ...	75,736	9,035	84,771	17	2	19	Nos. 1, 2, and 3...	3,617	11	*3,628
36-inch ...	113,804	1,378	115,182	44	3	47	Victor...	139	....	139
30-inch ...	41,773	.....	41,773	29	....	29	"A".....	3,208	159	†3,349
24-inch ...	11,542	.....	11,542	13	....	13	"B".....	1,788	....	1,788
20-inch ...	199,902	133	200,035	189	1	190	Double Nozzle.	....	134	134
16-inch ...	17,130	.....	17,130	22	....	22	Totals..	8,752	304	9,056
12-inch ...	889,040	15,739	904,779	1,642	27	1,669	* Less 7 "No. 1" hydrants replaced by new. † Less 18 "A" hydrants replaced by new.			
10-inch ...	6,629	.....	6,629	15	....	15				
6-inch ...	2,230,816	53,698	*2,274,514	5,030	157	*5,179				
4-inch ...	32,936	96	†32,937	128	1	129				
Total lin. feet..	3,619,308	80,079	3,688,149	7,129	191	7,312				
Miles..	685.48	15.17	698.51	* Less 8 6-inch stop-cocks discontinued.						

* Less 9,573 linear feet 6-inch pipe discontinued.

† Less 1,645 linear feet 4-inch pipe discontinued.

STREETS AND AVENUES IN WHICH WATER-MAINS HAVE BEEN LAID DURING 1892.

Forty-eight-inch Pipe.

Manhattan street, between Ninth and St. Nicholas avenues.
St. Nicholas avenue, between Manhattan and One Hundred and Tenth streets.
One Hundred and Tenth street, between St. Nicholas and Fifth avenues.
Fifth avenue, between One Hundred and Tenth and One Hundred and Third streets.
One Hundred and Third street, between Fifth and Madison avenues.

Thirty-six-inch Pipe.

Fifth avenue, between One Hundred and Third and One Hundredth streets.
From Shaft No. 25, New Aqueduct, 600 feet southerly.

Twelve-inch Pipe.

One Hundred and Sixty-first street, between Third and Railroad avenues.
 Twenty-eighth street, between Eleventh and Thirteenth avenues.
 Twelfth avenue, between Twenty-third and Twenty-eighth streets.
 Avenue B, between Eighty-sixth and Eighty-ninth streets.
 Lexington avenue, between One Hundred and Twenty-seventh and One Hundred and Thirty-first streets.
 Fourth avenue, east side, between Ninety-fifth and Ninety-seventh streets.
 One Hundred and Sixty-first street, between Railroad and Gerard avenues.
 Washington avenue, between Third avenue and One Hundred and Sixty-first street.
 Webster avenue, between One Hundred and Seventy-seventh and One Hundred and Eightieth streets.

Six-inch Pipe.

Bristow street, between Jennings and Stebbins avenues.
 One Hundred and Eighty-fourth street, between Sedgwick and Aqueduct avenues.
 One Hundred and Sixtieth street, between Elton avenue and 200 feet west.
 Tinton avenue, between One Hundred and Sixty-first and One Hundred and Sixty-third streets.
 Seventy-fifth street, between West End avenue and Riverside Drive.
 Ninety-first street, between Ninth and Tenth avenues.
 One Hundred and Forty-second street, between Boulevard and Twelfth avenue.
 One Hundred and First street, between Second avenue and East river.
 One Hundred and Thirty-eighth street, between Seventh and Eighth avenues.
 One Hundred and Thirty-ninth street, between Seventh and Eighth avenues.
 Seventy-second street, between Avenue A and East river.
 Twenty-seventh street, between Eleventh and Thirteenth avenues.
 Twenty-ninth street, between Eleventh and Thirteenth avenues.
 Locust avenue, between One Hundred and Thirty-seventh and One Hundred and Thirty-eighth streets.
 Walnut avenue, between One Hundred and Thirty-seventh and One Hundred and Thirty-eighth streets.
 One Hundred and Forty-first street, between St. Ann's and Beekman avenues.
 Beekman avenue, between One Hundred and Forty-first street and Beach Terrace.
 Oak Terrace, between Beekman and Crimmins avenue.
 Beach Terrace, between Beekman and Crimmins avenue.
 Bainbridge avenue, between Rosa street and Southern Boulevard.
 Hull avenue, between Scott and Railroad avenues.
 Creston avenue, between Donnybrook and Travers streets.
 Bathgate avenue, between One Hundred and Eighty-eighth street and Third avenue.
 Kirkside avenue, between Kingsbridge road and Donnybrook street.
 Jerome avenue, between Gerard avenue and Clarke place.
 Clarke place, between Jerome and Sheridan avenues.
 Woodruff street, between Southern Boulevard and Prospect avenue.
 Madison avenue, between Kingsbridge road and Columbine avenue.
 Union street, between Lind and Bremer avenues.
 One Hundred and Seventeenth street, between Madison and Fifth avenues.
 German place, between Westchester avenue and Carr place.
 One Hundred and Thirty-sixth street, between Third and Rider avenues.
 One Hundred and Thirty-seventh street, between Third and Rider avenues.
 Eighty-first street, between Tenth avenue and Boulevard.
 One Hundred and Seventy-fourth street, between Third and Bathgate avenues.
 Manhattan avenue, between One Hundred and Third and One Hundred and Fourth streets.
 One Hundred and Sixty-seventh street, between Third and Washington avenues.
 Eighty-eighth street, between end of old main and Avenue B.
 Seventy-third street, between Avenue A and Exterior street.
 Sixty-fourth street, between Eleventh avenue and Hudson River Railroad.
 Ninety-sixth street, east side, between Riverside avenue and Hudson river.
 Amsterdam avenue, both sides, between One Hundred and Twenty-third and One Hundred and Twenty-fifth streets.
 One Hundred and Sixty-ninth street, between Webster and Railroad avenues.
 One Hundred and Fifty-sixth street, between St. Ann's avenue and German place.
 Kingsbridge avenue, between Kingsbridge road and South Terrace View avenue.
 Kingsbridge road, between Terrace View avenue and United States Ship Canal.
 Terrace View avenue, between Kingsbridge avenue and Kingsbridge road.
 Railroad avenue, between One Hundred and Eightieth street and a point 550 feet north.
 Inwood street, between Kingsbridge road and 840 feet west.
 Amsterdam avenue, east side, between One Hundred and Twenty-first and One Hundred and Twenty-third streets.
 One Hundred and Forty-third street, between Boulevard and Hamilton avenue.
 One Hundred and Eighty-first street, between Eleventh avenue and Kingsbridge road.
 One Hundred and Fifty-fifth street, between Third and Elton avenues.
 One Hundred and Fifty-sixth street, between Third and Elton avenues.
 One Hundred and Thirty-ninth street, between Willis and Brook avenues.
 One Hundred and Sixtieth street, between Third and Elton avenues.
 Morris avenue, between One Hundred and Fifty-third and One Hundred and Fifty-sixth streets.
 Railroad avenue, between One Hundred and Fifty-sixth and One Hundred and Fifty-seventh streets.
 Forty-fifth street, between First avenue and East river.
 One Hundred and Sixty-third street, between Third and Brook avenues.
 One Hundred and Seventieth street, between Third and Washington avenues.
 One Hundred and Fifty-second street, between Morris and Railroad avenues.
 One Hundred and Forty-ninth street, between Morris and Gerard avenues.
 One Hundred and Forty-sixth street, between Morris and Railroad avenues.
 One Hundred and Sixty-ninth street, between Boston road and Union avenue.
 Walton avenue, between One Hundred and Forty-ninth and One Hundred and Fiftieth streets.
 Ward's Island, between new 12-inch main and boiler-house.
 One Hundred and Thirty-ninth street, between Brook and St. Ann's avenues.
 Edenwood avenue, between St. James street and Kingsbridge road.
 One Hundred and Sixty-ninth street, between Amsterdam and Eleventh avenues.
 One Hundred and Forty-fourth street, between Tenth avenue and Boulevard.
 Thirteenth avenue, between Bank and Horatio streets.
 Thirteenth avenue, between Bloomfield and Thirteenth streets.

"A" HYDRANTS PLACED DURING YEAR 1892.

Northwest corner of Tinton avenue and One Hundred and Sixty-first street.
 West side of Tinton avenue, between One Hundred and Sixty-first and One Hundred and Sixty-third streets.
 Southwest corner of Tinton avenue and One Hundred and Sixty-third street.
 North side of Seventy-fifth street, between Riverside Drive and Eleventh avenue.
 Northeast corner of Ninety-first street and Tenth avenue.
 South side of Ninety-first street, between Ninth and Tenth avenues.
 Northwest corner of One Hundred and Forty-second street and Boulevard.
 North side of One Hundred and Forty-second street, near Hudson River Railroad.
 Northeast corner of One Hundred and First street and Second avenue.
 Northwest corner of One Hundred and First street and First avenue.
 Northeast corner of One Hundred and First street and First avenue.
 North side of One Hundred and First street, near East river.
 Northeast corner of One Hundred and Thirty-eighth street and Eighth avenue.
 North side of One Hundred and Thirty-eighth street, between Seventh and Eighth avenues.
 Northwest corner of One Hundred and Thirty-eighth street and Seventh avenue.
 Northeast corner of One Hundred and Thirty-ninth street and Eighth avenue.
 North side of One Hundred and Thirty-ninth street, between Seventh and Eighth avenues.
 Northwest corner of One Hundred and Thirty-ninth street and Seventh avenue.
 Northeast corner of Seventy-second street and Avenue A.
 North side of Seventy-second street, between Avenue A and East river.
 South side of Seventy-second street, near East river.
 Northwest corner of One Hundred and Sixty-first street and Third avenue.
 Northwest corner of One Hundred and Sixty-first street and Brook avenue.
 Northwest corner of One Hundred and Sixty-first street and Elton avenue.
 North side of One Hundred and Sixty-first street, between Melrose and Courtlandt avenues.
 Northwest corner of One Hundred and Sixty-first street and Courtlandt avenue.
 Southeast corner of Locust avenue and One Hundred and Thirty-eighth street.
 Northeast corner of Locust avenue and One Hundred and Thirty-seventh street.
 Southwest corner of Walnut avenue and One Hundred and Thirty-eighth street.
 Northwest corner of Walnut avenue and One Hundred and Thirty-seventh street.
 Northeast corner of One Hundred and Forty-first street and St. Ann's avenue.
 Northwest corner of One Hundred and Forty-first street and Crimmins avenue.
 North side of One Hundred and Forty-first street, between Crimmins and Beekman avenues.

West side of Beekman avenue, between One Hundred and Forty-first street and Oak Terrace.
 West side of Beekman avenue, between Oak and Beach Terrace.
 Northeast corner of Oak Terrace and Crimmins avenue.
 Northeast corner of Beach Terrace and Crimmins avenue.
 West side of Bainbridge avenue, between Rosa and Travers streets.
 Northwest corner of Travers street and Bainbridge avenue.
 West side of Bainbridge avenue, between Travers street and Southern Boulevard.
 Southwest corner of Hull and Scott avenues.
 West side of Hull avenue, near railroad.
 West side of Creston avenue, between Donnybrook and Travers streets.
 Southwest corner of Creston avenue and Travers street.
 Northwest corner of Bathgate and Third avenues.
 Southwest corner of Bathgate avenue and One Hundred and Eighty-seventh street.
 Southwest corner of Bathgate avenue and One Hundred and Eighty-eighth street.
 Northwest corner of Kirkside avenue and Kingsbridge road.
 Southwest corner of Kirkside avenue and Wellesly street.
 Northeast corner of Clarke place and Jerome avenue.
 North side of Clarke place, between Jerome and Sheridan avenues.
 Northwest corner of Clarke place and Sheridan avenue.
 Northwest corner of Woodruff street and Southern Boulevard.
 North side of Woodruff street, between Prospect avenue and Southern Boulevard.
 Northwest corner of Madison avenue and Kingsbridge road.
 Southwest corner of Madison and Columbine avenues.
 Northwest corner of Union and Wolf streets.
 Northwest corner of Union street and Bremer avenue.
 East side of German place, between Westchester avenue and Rae street.
 Northeast corner of Rae street and German place.
 East side of German place, between Rae and Carr streets.
 Northeast corner of Carr street and German place.
 South side of One Hundred and Thirty-sixth street, between Third and Rider avenues.
 South side of One Hundred and Thirty-seventh street, between Third and Rider avenues.
 Southwest corner of Eighty-first street and Amsterdam avenue.
 Northeast corner of One Hundred and Seventy-fourth street and Bathgate avenue.
 West side of Manhattan avenue, between One Hundred and Third and One Hundred and Fourth streets.
 Northwest corner of Eighty-eighth street and Avenue B.
 West side of Avenue B, between Eighty-sixth and Eighty-seventh streets.
 East side of Avenue B, opposite Eighty-eighth street.
 West side of Avenue B, between Eighty-eighth and Eighty-ninth streets.
 West side of Lexington avenue, between One Hundred and Twenty-seventh and One Hundred and Twenty-eighth streets.
 Southeast corner of Lexington avenue and One Hundred and Twenty-eighth street.
 West side of Lexington avenue, between One Hundred and Twenty-eighth and One Hundred and Twenty-ninth streets.
 Southeast corner of Lexington avenue and One Hundred and Twenty-ninth street.
 West side of Lexington avenue, between One Hundred and Twenty-ninth and One Hundred and Thirtieth streets.
 West side of Lexington avenue, between One Hundred and Thirtieth and One Hundred and Thirty-first streets.
 Northeast corner of Seventy-third street and Avenue A.
 Northwest corner of Seventy-third and Exterior street.
 Northwest corner of Sixty-fourth street and Eleventh avenue.
 North side of Sixty-fourth street, near Hudson River Railroad.
 Northeast corner of Amsterdam avenue and One Hundred and Twenty-third street.
 Northwest corner of Amsterdam avenue and One Hundred and Twenty-third street.
 Northeast corner of Amsterdam avenue and One Hundred and Twenty-fourth street.
 North side of One Hundred and Sixty-ninth street, between Webster and Railroad avenues.
 Northeast corner of One Hundred and Fifty-sixth street and German place.
 East side of Kingsbridge avenue, between Van Corlear place and Terrace View avenue.
 Southwest corner of Kingsbridge avenue and Van Corlear place.
 Northwest corner of Kingsbridge avenue and Wicker place.
 Southwest corner of Kingsbridge avenue and Terrace View avenue.
 Southwest corner of Kingsbridge road and Terrace View avenue.
 Northeast corner of Kingsbridge road and Hyatt street.
 Northeast corner of Railroad avenue and One Hundred and Eightieth street.
 East side of Railroad avenue, between One Hundred and Eightieth street and 360 feet north.
 Northeast corner of Amsterdam avenue and One Hundred and Twenty-second street.
 Northeast corner of One Hundred and Forty-third street and Boulevard.
 Northwest corner of One Hundred and Forty-third street and Hamilton avenue.
 Northeast corner of One Hundred and Fifty-fifth street and Elton avenue.
 Northeast corner of One Hundred and Fifty-sixth street and Elton avenue.
 North side of One Hundred and Thirty-ninth street, between Willis and Brook avenues.
 North side of One Hundred and Sixtieth street, between Third and Washington avenues.
 Southeast corner of Railroad avenue and One Hundred and Sixty-first street.
 Northeast corner of One Hundred and Sixty-first street and Grant avenue.
 North side of One Hundred and Sixty-first street, between Grant and Sherman avenues.
 Northeast corner of One Hundred and Sixty-first street and Sheridan avenue.
 Northeast corner of One Hundred and Sixty-first street and Mott avenue.
 Northeast corner of One Hundred and Sixty-first street and Walton avenue.
 Northeast corner of One Hundred and Sixty-first street and Girard avenue.
 Northeast corner of One Hundred and Fifty-fifth street and Morris avenue.
 East side of Morris avenue, between One Hundred and Fifty-fifth and One Hundred and Fifty-sixth streets.
 Northeast corner of Railroad avenue and One Hundred and Fifty-sixth street.
 North side of Forty-fifth street, near East river.
 Northwest corner of One Hundred and Sixty-third street and Washington avenue.
 Northeast corner of One Hundred and Sixty-third street and Washington avenue.
 North side of One Hundred and Sixty-third street, between Third and Washington avenues.
 Northwest corner of One Hundred and Seventieth street and Third avenue.
 Northeast corner of One Hundred and Seventieth street and Washington avenue.
 Northwest corner of One Hundred and Fifty-second street and Morris avenue.
 Northeast corner of One Hundred and Fifty-second street and Railroad avenue.
 Northeast corner of One Hundred and Forty-ninth street and Gerard avenue.
 North side of One Hundred and Forty-ninth street, between Walton and Mott avenues.
 Northeast corner of One Hundred and Forty-ninth street and Mott avenue.
 Northeast corner of One Hundred and Forty-ninth street and Railroad avenue.
 North side of One Hundred and Forty-ninth street, between Railroad and Morris avenues.
 Northwest corner of One Hundred and Forty-ninth street and Morris avenue.
 Northeast corner of One Hundred and Forty-ninth street and Morris avenue.
 West side of Washington avenue, between Third avenue and One Hundred and Sixtieth street.
 North side of One Hundred and Forty-sixth street, between Morris and Railroad avenues.
 Northeast corner of One Hundred and Forty-sixth street and Railroad avenue.
 Northwest corner of One Hundred and Sixty-ninth street and Union avenue.
 North side of One Hundred and Sixty-ninth street, between Union and Boston avenues.
 East side of Webster avenue, between One Hundred and Seventy-seventh and One Hundred and Seventy-eighth streets.
 Southeast corner of Webster avenue and One Hundred and Seventy-eighth street.
 East side of Webster avenue, between One Hundred and Seventy-eighth and One Hundred and Seventy-ninth streets.
 East side of Webster avenue, between One Hundred and Seventy-ninth and One Hundred and Eightieth streets.
 Northwest corner of Walton avenue and One Hundred and Forty-ninth street.
 On Ward's Island, near boiler-house.
 Northeast corner of One Hundred and Thirty-ninth street and Brook avenue.
 Northwest corner of One Hundred and Thirty-ninth street and St. Ann's avenue.
 Northwest corner of Edenwood avenue and St. James street.
 West side of Edenwood avenue, between St. James street and Kingsbridge road.
 Southwest corner of Edenwood avenue and Kingsbridge road.
 North side of One Hundred and Sixty-ninth street, between Eleventh and Audubon avenue.
 Northeast corner of One Hundred and Sixty-ninth street and Audubon avenue.
 Northwest corner of One Hundred and Sixty-ninth street and Amsterdam avenue.
 Northwest corner of One Hundred and Eighty-first street and Eleventh avenue.
 North side of One Hundred and Eighty-first street, between Eleventh avenue and Kingsbridge road.
 Southwest corner of One Hundred and Forty-fourth street and Amsterdam avenue.
 North side of One Hundred and Forty-fourth street, between Amsterdam avenue and Boulevard.
 Northeast corner of One Hundred and Forty-fourth street and Boulevard.
 Northwest corner of Seventy-ninth street and Third avenue.
 Northwest corner of Bristow street and Stebbins avenue.
 North side of One Hundred and Eighty-fourth street, between Loring and Andrews avenues.
 Northwest corner of One Hundred and Sixtieth street and Elton avenue.

NO. "1" HYDRANTS SET DURING YEAR 1892.

Northwest corner of Ninety-sixth street and Riverside Drive	1
North side of Ninety-sixth street, between Riverside Drive and Hudson river	2
High Bridge, near Shaft No. 25, New Aqueduct	1
North side of Fifty-second street, between Eleventh and Twelfth avenues	1
North side of One Hundred and Fifty-fifth street, between Eighth and Bradhurst avenues	1
North side of One Hundred and Fifty-fifth street, between Eighth avenue and Harlem river	1
Northeast corner of Water street and Catharine Slip	1
Southwest corner of Water street and Pike Slip	1
Southwest corner of Boston avenue and One Hundred and Sixty-fourth street	1

REPAIRING AND RENEWAL OF PIPES, STOP-COCKS, ETC.

A gang of men have been employed relaying mains, changing taps, etc., along West, South and connecting streets, where mains are corroded by salt water, and in the Twenty-third and Twenty-fourth Wards, where the grades of the streets have been changed, as follows:

Sixty-fifth street, between Eleventh avenue and Hudson River Railroad.
Thirty-seventh street and Twelfth avenue.
Twenty-eighth street and Eleventh avenue.
Thirty-sixth street and Twelfth avenue.
Thirtieth street and Twelfth avenue.
Twenty-ninth street and Eleventh avenue.
One Hundred and Thirtieth street and Twelfth avenue.
Eleventh avenue, between Thirtieth and Thirty-third streets.
Tenth avenue, between Twenty-ninth and Thirty-first streets.
Twenty-fifth street, between Eleventh and Thirteenth avenues.
First avenue, between Twenty-seventh and Twenty-eighth streets.
One Hundred and Fifty-fifth street, between Bradhurst avenue and Exterior street.
One Hundred and Fifty-sixth street and Tenth avenue.
One Hundred and Seventieth street, between Fulton and Franklin avenues.
Avenue A, between Twenty-fourth and Twenty-fifth streets.
Fulton street, between Water and South streets.
James Slip, between Cherry and South streets.
Catharine Slip, between Cherry and South streets.
Rutgers Slip, between Cherry and South streets.
Water street, between James and Rutgers Slips.
Battery Park, between Battery place and Castle Garden.
Thirteenth avenue, between Bank and West Twelfth streets.
Bethune street, between West street and Thirteenth avenue.
Jane street, between West street and Thirteenth avenue.
Washington avenue and One Hundred and Sixty-first street.

During the quarter one contract for relaying mains and one contract for furnishing stop-cocks, hydrants, etc., have been completed. One contract for relaying mains has been entered into.

NEW FIRE-HYDRANTS.

Double nozzle Hydrants Set during Year 1892.

West side of Lincoln avenue, between One Hundred and Thirty-fourth street and Southern Boulevard	1
North side of One Hundred and Thirty-fourth street, between Willis and Alexander avenues	1
North side of One Hundred and Thirty-fifth street, between Willis and Alexander avenues	1
Southwest corner of One Hundred and Thirty-seventh street and Third avenue	1
Southwest corner of Rider avenue and One Hundred and Forty-fourth street	1
Southeast corner of Jerome avenue and One Hundred and Sixty-first street	1
West side of Jerome avenue, opposite One Hundred and Sixty-fifth street	1
Northeast corner of One Hundred and Forty-seventh street and Third avenue	1
Northwest corner of One Hundred and Thirty-ninth street and Brook avenue	1
Southeast corner of Brown place and One Hundred and Thirty-eighth street	1
East side of Lincoln avenue, between One Hundred and Thirty-fourth and One Hundred and Thirty-fifth streets	1
North side of One Hundred and Thirty-fifth street, between Lincoln and Alexander avenues	1
South side of One Hundred and Thirty-fourth street, between Lincoln and Alexander avenues	1
Northwest corner of One Hundred and Forty-third street and Third avenue	1
Northwest corner of One Hundred and Forty-first street and Alexander avenue	1
Northwest corner of One Hundred and Forty-ninth street and Brook avenue	1
Northeast corner of One Hundred and Sixty-third street and Third avenue	1
Northwest corner of One Hundred and Sixtieth street and Courtlandt avenue	1
West side of Brook avenue, between One Hundred and Sixty-second and One Hundred and Sixty-third streets	1
South side of Southern Boulevard, between Alexander and Willis avenues	1
Southwest corner of Twenty-seventh street and Eleventh avenue	1
North side of Twenty-seventh street, between Eleventh and Thirteenth avenues	1
South side of Twenty-seventh street, between Eleventh and Thirteenth avenues	1
Northeast corner of Twenty-seventh street and Thirteenth avenues	1
South side of Twenty-eighth street, between Eleventh and Thirteenth avenues	2
North side of Twenty-eighth street, between Eleventh and Thirteenth avenues	1
Northeast corner of Twenty-eighth street and Thirteenth avenue	1
Northwest corner of One Hundred and Forty-second street and Willis avenue	1
Northeast corner of One Hundred and Fortieth street and Willis avenue	1
Northeast corner of Southern Boulevard and Willis avenue	1
Northwest corner of One Hundred and Thirty-sixth street and Willis avenue	1
Northwest corner of One Hundred and Thirty-eighth street and Powers avenue	1
Northwest corner of One Hundred and Thirty-eighth street and Beekman avenue	1
Northwest corner of One Hundred and Thirty-eighth street and Crimmins avenue	1
Northeast corner of One Hundred and Forty-ninth street and Courtlandt avenue	1
Northeast corner of One Hundred and Thirty-seventh street and Willis avenue	1
Northeast corner of Sixteenth street and Thirteenth avenue	1
East side of Thirteenth avenue, between Sixteenth and Seventeenth streets	1
East side of Thirteenth avenue, between Seventeenth and Eighteenth streets	1
South side of Eighteenth street, between Eleventh and Thirteenth avenues	1
Southwest corner of Nineteenth street and Thirteenth avenue	1
East side of Thirteenth avenue, between Nineteenth and Twentieth streets	1
Southeast corner of Twenty-first street and Thirteenth avenue	1
Southwest corner of Twenty-second street and Thirteenth avenue	1
Northeast corner of Twenty-second street and Thirteenth avenue	1
Southeast corner of Twenty-third street and Thirteenth avenue	1
Northwest corner of Twenty-fifth street and Thirteenth avenue	1
West side of Thirteenth avenue, between Twenty-fifth and Twenty-sixth streets	1
Southeast corner of Twenty-sixth street and Thirteenth avenue	1
West side of Thirteenth avenue, between Twenty-sixth and Twenty-seventh streets	1
West side of Thirteenth avenue, foot of Twenty-eighth street	1
Northeast corner of Thirtieth street and Twelfth avenue	1
West side of Twelfth avenue, between Thirtieth and Thirty-first streets	1
Southwest corner of Thirty-third street and Twelfth avenue	1
West side of Twelfth avenue, between Thirty-fourth and Thirty-fifth streets	1
Northwest corner of Thirty-fifth street and Twelfth avenue	1
West side of Twelfth avenue, opposite Thirty-sixth street	1
Southeast corner of Thirty-seventh street and Twelfth avenue	1
North side of Twenty-ninth street, between Eleventh and Thirteenth avenues	2
South side of Twenty-ninth street, between Eleventh and Thirteenth avenues	2
Northwest corner of Twenty-eighth street and Ninth avenue	1
South side of Twenty-eighth street, between Ninth and Tenth avenues	1
North side of Twenty-eighth street, between Ninth and Tenth avenues	1
South side of Twenty-ninth street, between Ninth and Tenth avenues	1
North side of Twenty-ninth street, between Ninth and Tenth avenues	1
Southwest corner of Fifteenth street and Tenth avenue	1
Southeast corner of Fifteenth street and Eleventh avenue	1
South side of Bank street, between West street and Thirteenth avenue	1
Northeast corner of Bank and West streets	1
South side of Bank street, between Hudson and Greenwich streets	1
North side of West Twelfth street, between West street and Thirteenth avenue	1
South side of Gansevoort street, between West street and Thirteenth avenue	1
South side of Gansevoort street, between West and Washington streets	1
North side of One Hundred and Thirty-seventh street, between Willis and Alexander avenues	1
Northwest corner of One Hundred and Forty-ninth street and Melrose avenue	1
Northeast corner of Rose street and Third avenue	1
Northwest corner of One Hundred and Fifty-fifth street and Third avenue	1
Northwest corner of One Hundred and Fifty-sixth street and Third avenue	1
Northwest corner of One Hundred and Fifty-seventh street and Third avenue	1

Northeast corner of One Hundred and Sixty-first street and Cauldwell avenue	1
Northwest corner of One Hundred and Thirty-six street and Third avenue	1
Southwest corner of One Hundred and Fifty-sixth street and Brook avenue	1
Northeast corner of One Hundred and Fifty-sixth street and St. Ann's avenue	1
Northeast corner of John street and St. Ann's avenue	1
Northeast corner of One Hundred and Sixty-first street and Courtlandt avenue	1
East side of St. Nicholas avenue, between One Hundred and Thirtieth and One Hundred and Thirty-first streets	1
East side of St. Nicholas avenue, between One Hundred and Thirty-second and One Hundred and Thirty-third streets	1
West side of Eighth avenue, between One Hundred and Fiftieth and One Hundred and Fifty-first streets	1
West side of Eighth avenue, between One Hundred and Fifty-second and One Hundred and Fifty-third streets	1
Northeast corner of Twenty-second street and First avenue	1
Southeast corner of Twenty-third street and First avenue	1
Northwest corner of Twenty-fourth street and First avenue	1
Northeast corner of Twenty-fourth street and First avenue	1
Northwest corner of Twenty-fifth street and First avenue	1
Northeast corner of Twenty-sixth street and First avenue	1
Northwest corner of Twenty-sixth street and First avenue	1
Northeast corner of One Hundred and Sixty-seventh street and Washington avenue	1
Southwest corner of Twenty-seventh street and First avenue	1
Northwest corner of Twenty-eighth street and First avenue	1
Northwest corner of Twenty-ninth street and First avenue	1
Northwest corner of Thirtieth street and First avenue	1
Northwest corner of Thirty-first street and First avenue	1
Northwest corner of Thirty-second street and First avenue	1
Northwest corner of Thirty-third street and First avenue	1
Northwest corner of Thirty-fourth street and First avenue	1
Northwest corner of Thirty-fifth street and First avenue	1
West side of First avenue, between Thirty-sixth and Thirty-seventh streets	1
West side of First avenue, between Thirty-seventh and Thirty-eighth streets	1
West side of First avenue, between Thirty-ninth and Fortieth streets	1
West side of First avenue, between Fortieth and Forty-first streets	1
West side of First avenue, between Forty-first and Forty-second streets	1
Southeast corner of Thirty-eighth street and First avenue	1
Southeast corner of Thirty-ninth street and First avenue	1
Northeast corner of Thirty-seventh street and First avenue	1
North side of Forty-second street, between First avenue and East river	1
Northwest corner of St. Nicholas avenue and One Hundred and Nineteenth street	1
Northwest corner of Fifth avenue and One Hundred and Third street	1
Northwest corner of Fifth avenue and One Hundredth street	1
Northeast corner of Thirteenth avenue and Bank street	1
East side Thirteenth avenue, between Bank and Bethune streets	1
Southeast corner of Thirteenth avenue and Bethune street	1
Northeast corner of Thirteenth avenue and Bethune street	1
East side of Thirteenth avenue, between West Twelfth and Jane streets	1
Northeast corner of Jane street and Thirteenth avenue	1
East side Thirteenth avenue, between Jane and Horatio streets	1
Northeast corner of Horatio street and Thirteenth avenue	1
Northeast corner of Little West Twelfth street and Thirteenth avenue	1
East side of Thirteenth avenue, between Little West Twelfth and Thirteenth streets	1
North side of Twenty-fifth street, between Eleventh and Thirteenth avenues	1
South side of Twenty-fifth street, between Eleventh and Thirteenth avenues	1
North side of Fifty-second street, between Eleventh and Twelfth avenues	1

Total

New double nozzle fire-hydrants placed as called for by the Fire Department.

IMPROVEMENT OF ONE HUNDRED AND FIFTY-FIFTH STREET.

The iron work of the viaduct has been completed to the plaza which will connect the viaduct, McComb's Dam Bridge and McComb's Dam road. The masonry retaining-wall at west end has been completed, except the granite steps and coping.

Owing to burning of the temporary steps, etc., at the west end of structure, the viaduct is now being used by pedestrians. From the west end of viaduct to the east side of Eighth avenue, the bituminous concrete over the iron-work has been laid and covered with a coating of asphalt one-half inch thick, so as to make it water-tight as a bottom for the asphalt and stone surface paving. The stone paving of roadway is now underway, and if weather will permit, will be extended to the east side of Eighth avenue.

The work at the east end is awaiting the completion of the south abutment of the McComb's Dam Bridge, now being erected by the Park Department, and with which the viaduct connects.

HIGH SERVICE

The pumping machinery is now fully in use, and there is no provision for future increased use of water, so that as new buildings are constructed, the pressure will be reduced and the necessity of shutting off high-service supply from all streets, avenues, etc., below 65 feet above mean high tide will have to be enforced. Chapter 38, Laws of 1892, enacted by the Legislature on February 19, 1892, authorized this Department to construct high-service works, when authorized by the Board of Estimate and Apportionment. On March 29, 1892, an application was made to the Board of Estimate and Apportionment to appropriate \$200,000 to carry on same during the year. The Board then called for detail estimates and plans for the whole work; these were furnished on June 8, 1892, and were laid over by the Board. Nothing further has been done, awaiting an appropriation for same.

About 1,500 houses are now being constructed in this district—and this district is rapidly being built up—and the use of water increasing at the rate of 1,000,000 gallons per day each year.

TAPS.

Number of taps put in during the quarter	710
Number of taps put in during the year	2,887

METERS.

Meters placed during the quarter	476
Meters placed during the year	2,777
Number of meters now in use	27,041

WASTE AND USE OF WATER.

Having a full supply of water in the Croton water-shed, pressures have been slightly increased throughout Manhattan Island, and any further increase depends upon laying of large mains from the New Aqueduct to the lower part of the city and the erection of additional pumping works.

Total average daily supply of water delivered during the year 163,000,000 gallons. The necessity of care and attention to stopping the waste of water by inspection and meters is still imperative in order to equalize the pressures of water especially during the day-time, as the area of the taps supplying the houses, etc., is larger than the area of the distributing mains.

Yours, respectfully,

G. W. BIRDSALL, Chief Engineer, Croton Aqueduct.

Document "E."

REPORT OF THE WATER PURVEYOR.

DEPARTMENT OF PUBLIC WORKS,
WATER PURVEYOR'S OFFICE, No. 31 CHAMBERS STREET, ROOM 1,
NEW YORK, December 31, 1892.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

SIR—I respectfully submit the following report of the transactions of this Bureau for the quarter ending December 31, 1892, accompanied with a summary of the principal work of the Bureau during the year:

REPORT FOR THE QUARTER ENDING DECEMBER 31, 1892.

RECEIPTS.

For permits to construct vaults.....	\$18,326 85
For labor and materials	933 29
Total	\$19,260 14

EXPENDITURES.

Repairs and Renewal of Pavements and Regrading, 1891.....	\$320 00
Repairs and Renewal of Pavements and Regrading, 1892.....	114,928 99
Repairs and Renewal of Pavements and Regrading—Salaries.....	3,575 98
Repaving Streets and Avenues, 1890.....	160 84
Repaving Streets and Avenues, 1891.....	72,841 22
Repaving Streets and Avenues, 1892.....	42,146 80
Repaving Streets and Avenues—Salaries.....	3,562 50
Repairing and Renewal of Pipes, Stop-cocks, etc.....	29,553 47
Public Drinking-hydrants	394 64
Public Drinking-hydrants—Salaries.....	300 00
Repaving, chapter 346, Laws of 1889, 1889.....	2,733 39
Repaving, chapter 346, Laws of 1889, 1890.....	104,025 82
Repaving, chapter 346, Laws of 1889, 1891.....	75,415 74
Repaving, chapter 35, Laws of 1892.....	391,225 76
Street Improvement Fund	127,815 12
Restoring and Repaving—Special Fund—Department of Public Works.....	15,483 84
Boulevards, Roads and Avenues, Maintenance of—For Resurfacing Sixth (or Lenox) Avenue	7,815 50
Contingencies—Department of Public Works	14 00
Total	\$992,283 61

PERMITS ISSUED.

66 for the construction of vaults.
50 for repairing vaults.
95 for the erection of guy posts.
110 to build fires on the pavements for roofing purposes, etc.
34 to repair pavements at the expense of property-owners.
Under resolution of the Board of Aldermen, September 27, 1892, to J. F. Mooney, to lay a crosswalk across West Fifty-first street in front of No. 452, at his own expense.
Under resolution of the Board of Aldermen, November 28, 1892, to Joseph A. Hoefaling, to lay a temporary crosswalk across Amsterdam avenue on the south side of One Hundred and Sixty-fifth street, at his own expense.
To the Sicilian Asphalt Paving Company to lay an asphalt pavement in West End avenue, from One Hundred and Fourth to One Hundred and Fifth street, at the expense of property-owners in that vicinity.

REPAIRS AND RENEWAL OF PAVEMENTS AND REGRADING.

The force employed in making repairs to street pavements was as follows:
In October..... 267 mechanics, 286 laborers, 89 horses and carts, 4 teams.
In November..... 283 " 324 " 97 " 4 "
In December..... 282 " 320 " 98 " 4 "
134,405 square yards of pavement were taken up and relaid by this force.
521 square yards of asphalt pavement were repaired by the different asphalt paving companies at places where such pavement had been damaged by bon-fires or otherwise, for which these companies could not be held responsible, making the total number of square yards of pavement repaired under this appropriation 134,926.

REPAIRING AND RENEWAL OF PIPES, STOP-COCKS, ETC.

The average force employed during the quarter was as follows:
In October..... 36 mechanics, 95 laborers, 16 horses and carts.
In November..... 37 " 93 " 15 "
In December..... 36 " 92 " 16 "
The following is a portion of the work done by this force:
137 old fire-hydrants were taken out and new ones put in place.
1,326 fire-hydrants were repaired.
845 defects in Croton water-mains and pipes, stop-cocks, etc., were repaired.
674 square yards of pavement were repaired.

PUBLIC DRINKING-HYDRANTS.

17 public drinking-hydrants were repaired and 2 new ones were put in, one at One Hundred and Forty-sixth street and Brook avenue, the other in front of No. 1312 Second avenue.

CONSTRUCTION OF NEW PAVEMENTS.

The following contracts were completed:

REPAVING STREETS AND AVENUES.

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Houston street.....	Bowery to Eldridge street and from Ludlow to Lewis street	15,144.7	3,825.6
Third avenue.....	Sixth to Twenty-third street.....	20,261.0	2,550.3
Total.....		35,405.7	6,375.9

Length in miles, 1.19.

With Asphalt.

Thames street.....	Broadway to Greenwich street.....	800.0	500.0
Mill lane	South William to Stone street.....	120.0	78.0
Total.....		920.0	578.0

Length in miles, 0.10.

REPAVING (CHAPTER 346, LAWS 1892).

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
West street.....	Battery place to Gansevoort street.....	15,544.4	3,115.0
Broadway and Union Square, West	Bowling Green to Thirty-second street	62,200.0	15,840.0
Total.....		77,744.4	18,955.0
Less the quantities accounted for in 1891.....		59,555.0	12,704.0
Total.....		18,189.4	6,251.0

Length in miles, 1.18.

REPAVING—(CHAPTER 35, LAWS OF 1892).

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Barclay street.....	Greenwich to West street.....	571.2	417.0
Murray street	"	477.4	433.0
Warren street	"	174.0	90.0
Broadway	Thirty-second to Thirty-fifth street.....	4,827.3	868.7
Fourteenth street.....	Third to Fourth avenue.....	3,498.5	789.3
Forty-second street.....	Third to Eighth avenue.....	21,811.2	4,587.6
Fulton street.....	Broadway to Pearl street.....	5,085.6	1,712.2
Duane street.....	Washington to West street.....	1,250.1	320.5
Reade street.....	Centre to Elm street	1,132.6	275.4
Canal street.....	Washington to Greenwich street.....	2,002.2	231.2
Vesey street.....	Greenwich to West street.....	1,900.5	438.7
Dey street.....	"	2,005.5	210.0
Total		44,735.1	10,373.6

Length in miles, 1.96.

With Asphalt.

Tenth street.....	Second avenue to Avenue A.....	4,372.7	1,332.5
Thirty-seventh street.....	First to Third avenue.....	4,363.7	1,317.6
Thirty-eighth street.....	Park to Lexington avenue.....	1,411.9	428.0
Liberty street.....	Nassau street to 210 feet west.....	427.0	210.0
Fifth avenue.....	Fourth street to Waverley place	3,570.4	507.6
Twentieth street.....	Third to Fourth avenue (where not already paved)	1,482.6	464.2
Twenty-first street.....	" " "	1,491.6	463.9
Second avenue.....	Houston to Twenty-second street.....	28,070.1	5,653.6
Twenty-second street.....	Second to Third avenue.....	2,073.1	627.1
Broome street	Bowery to Lewis street.....	12,703.1	4,398.1
Chrystie street.....	Division to Grand street.....	4,262.7	1,541.5
Forsyth street.....	"	3,931.7	1,470.0
Attorney street.....	Broome to Houston street.....	4,699.0	1,729.2
Willet street.....	"	4,882.8	1,728.8
Total.....		77,742.4	21,882.1

Length in miles, 4.14.

REPAVING UNDER CHAPTER 449, LAWS OF 1889 (STREETS LYING WITHIN THE LIMITS OF GRANTS OF LAND UNDER WATER).

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Barclay street.....	Greenwich to West street.....	1,142.0	456.0
Murray street.....	" "	1,293.6	519.1
Warren street.....	" "	1,800.6	513.5
Dey street.....	" "	728.0	235.0
West street.....	Battery place to Gansevoort street.....	55,173.8	10,084.9
Total		60,178.0	17,808.5
Less quantities given for West street in 1891.....		17,500.0	5,628.0
Total		42,678.0	6,180.5

Length in miles, 1.17.

NEW PAVEMENTS UNDER ASSESSMENT.

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
One Hundred and Fifteenth street.....	Avenue A to Harlem river.....	1,689.7	504.0
One Hundred and Forty-third street.....	Amsterdam avenue to Boulevard.....	2,726.0	807.0
"	Eighth to Bradhurst avenue.....	1,011.0	303.9
One Hundred and Forty-second street.....	" "	1,111.0	333.0
One Hundred and Sixteenth street.....	Avenue A to Harlem river.....	2,547.0	573.0
One Hundred and Thirteenth street.....	Fifth to Lenox avenue.....	3,114.0	960.0
Ninety-eighth street.....	First to Second avenue.....	2,222.0	690.0
Ninety-sixth street.....	Lexington to Fourth avenue.....	2,787.0	443.0
Total.....		17,207.7	4,613.9

Length in miles, 0.87.

With Asphalt.

One Hundred and Twenty-second street.....	Eighth to Manhattan avenue.....	912.6	275.1
One Hundred and Eighteenth street.....	Seventh to Eighth avenue.....	2,476.0	747.0
Total.....		3,388.6	1,022.1

Length in miles, 0.19.

SUMMARY OF THE BUSINESS OF THE BUREAU FOR THE YEAR 1892.

RECEIPTS.

The following shows the amount of money received, all of which has been deposited in the City treasury to the credit of the Sinking Fund:

For the construction of vaults.....	\$106,846 70
For labor and materials.....	7,653 83
Total.....	\$114,500 53

EXPENDITURES.

Vouchers in payment for work done, materials furnished, salaries and wages of officers and employees have been drawn and charged to the following funds and appropriations, viz.:

Repairs and Renewal of Pavements and Regrading, 1890	\$2,830 85
Repairs and Renewal of Pavements and Regrading, 1891	18,458 16
Repairs and Renewal of Pavements and Regrading, 1892	304,709 85
Repairs and Renewal of Pavements and Regrading—Salaries, 1891	128 00
Repairs and Renewal of Pavements and Regrading—Salaries, 1892	15,453 98
Repaving Streets and Avenues, 1890	2,267 14
Repaving Streets and Avenues, 1891	110,169 11
Repaving Streets and Avenues, 1892	253,696 49
Repaving Streets and Avenues—Salaries, 1891	70 00
Repaving Streets and Avenues—Salaries, 1892	12,692 50
Repaving, chapter 346, Laws of 1889, 1889	3,300 33
Repaving, chapter 346, Laws of 1889, 1890	105,480 26
Repaving, chapter 346, Laws of 1889, 1891	220,573 11
Repaving, chapter 35, Laws of 1892	567,130 93
Repairing and Renewal of Pipes, Stop-cocks, etc., 1891	1,234 75
Repairing and Renewal of Pipes, Stop-cocks, etc., 1892	113,576 58
Public Drinking Hydrants	1,763 65
Public Drinking Hydrants—Salaries	1,200 00
Street Improvement Fund	372,920 11
Restoring and Repaving—Special Fund—Department of Public Works	53,677 00
Salaries of Engineers, etc., on Repaving, under chapter 346, Laws of 1889	9,999 95
Boulevards, Roads and Avenues, Maintenance of—For Resurfacing Sixth (or Lenox) Avenue	7,864 50
Contingencies—Department of Public Works, 1891	51 95
Contingencies—Department of Public Works, 1892	60 15
Wells and Pumps—Repairing and Cleaning	13 55
Total	\$2,179,232 90

PERMITS ISSUED.

289 for the construction of vaults.
 236 for repairs to vaults.
 263 for setting guy-posts.
 775 for building fires on the pavements for roofing purposes, etc.
 90 for repairs to pavements at property-owners' expense.

Under resolutions of the Board of Aldermen:
 To Dittenheimer & Seaman, to lay a crosswalk across Centre street, opposite No. 116.
 To Pennsylvania Railroad Company, to pave the sidewalk and gutter on the north side of Thirty-seventh street, commencing 100 feet west of Eleventh avenue, thence to the pier line of North river, with granite-blocks.
 To Patrick Collins, to lay a crosswalk across Murray street, in front of No. 9.
 To David H. King, Jr., to pave with asphalt One Hundred and Thirty-eighth and One Hundred and Thirty-ninth streets, from Seventh to Eighth avenue.
 To the North American Pyro-Granite Company, to pave with pyro-granite-blocks Ninth avenue, from Thirteenth to Fourteenth street.
 To E. S. Stokes, to lay a crosswalk across Beaver street, opposite No. 7.
 To Frederick Kuhlberg, to lay a crosswalk across St. Nicholas avenue, opposite No. 231.
 To J. F. Mooney, to lay a crosswalk across West Fifty-first street, opposite No. 452.
 To Joseph Hoefaling, to lay a temporary crosswalk across Amsterdam avenue, south side of One Hundred and Sixty-fifth street.
 Work in all the above cases to be done at the expense of the applicant.

REPAIRS AND RENEWAL OF PAVEMENTS AND REGRADING.

The force employed in making repairs to street pavements under the above appropriation averaged as follows for the year:

178 mechanics, 202 laborers, 60 horses and carts and 3 teams.	
The work performed by this force consisted in taking up and relaying 357,965 square yards of pavement, 860 crosswalks and 5,100 bad places in the street pavements were repaired. Besides the above 1,047 square yards of asphalt pavement were repaired where damaged by bon-fires, etc., by the various asphalt companies, and 2,065 square yards of granite-block pavement were laid under contracts, making the total number of square yards of pavement relaid during the year 361,077.	
Square yards pavement repaired	357,965
Bad places repaired	5,100
Crosswalks repaired	860

The following list shows the location of the places repaired by the street repair force:

Streets Relaid.

Second street, from Avenue A to Avenue B.
 Tenth street, between Third and Fourth avenues, east one-half.
 Eighteenth street, between Broadway and Fifth avenue.
 Twenty-ninth street, between Sixth and Seventh avenues.
 Thirty-second street, between Fourth and Madison avenues.
 Forty-fourth street, between Fifth and Sixth avenues.
 Fiftieth street, between First and Second avenues.
 Fifty-first street, between Eighth and Ninth avenues.
 Fifty-first street, between Broadway and Eighth avenue.
 Fifty-second street, between Second and Third avenues.
 Fifty-fourth street, between Third and Lexington avenues.
 Fifty-fourth street, between First avenue and Avenue A.
 Fifty-seventh street, between First avenue and Avenue A.
 Fifty-eighth street, between Lexington and Park avenues.
 Thirty-ninth street, between Eighth and Ninth avenues.
 Thirty-ninth street, between Seventh and Eighth avenues.
 Fifty-ninth street, between Madison and Fifth avenues, south side.
 Fifty-ninth street, between Madison and Park avenues, south side.
 Sixty-second street, between Columbus and Amsterdam avenues.
 Sixty-third street, between Third and Lexington avenues.
 Sixty-third street, between First and Second avenues.
 Sixty-sixth street, between Madison and Fifth avenue, south side.
 Seventy-third street, between Third and Lexington avenue.
 Seventy-fifth street, between Columbus and Amsterdam avenues.
 Seventy-sixth street, between Riverside Drive and West End avenues.
 Seventy-seventh street, between Fifth and Madison avenues.
 Seventy-seventh street, between Columbus and Amsterdam avenues, half block.
 Eighty-second street, between Columbus and Amsterdam avenues.
 Ninety-second street, between First avenue and Avenue A.
 Ninety-third street, between Central Park, West, and Columbus avenue.
 Ninety-fourth street, between Lexington and Park avenues.
 One Hundred and Twenty-second street, between First and Pleasant avenues.
 One Hundred and Twenty-ninth street, between Seventh and Lenox avenues.
 One Hundred and Thirty-second street, between Fifth and Lenox avenues.
 One Hundred and Thirty-second street, between Seventh and Lenox avenues.
 Waverly place, between Green and Mercer streets.
 Beekman street, between Nassau and William streets, south side.
 Beekman street, between William and Gold streets, north side.

Avenues Relaid.

Park avenue, between Fifty-eighth and Fifty-ninth streets, east side.
 Park avenue, between Fifty-ninth and Sixtieth streets, west and east sides.
 Park avenue, between Sixty-second and Sixty-third streets.
 Park avenue, between Sixty-third and Sixty-fourth streets.
 Park avenue, between Sixty-fourth and Sixty-fifth streets.
 Park avenue, between Sixty-fifth and Sixty-sixth streets.
 Park avenue, between Sixty-seventh and Sixty-eighth streets, west side.
 Park avenue, between Seventieth and Seventy-first streets, east and west sides.
 Park avenue, between Seventy-first and Seventy-second streets, west side.
 Park avenue, between Seventy-third and Seventy-fourth streets.
 Park avenue, between Seventy-fourth and Seventy-fifth streets.
 Park avenue, between Seventy-fifth and Seventy-sixth streets.
 Madison avenue, between Sixty-seventh and Sixty-eighth streets, east and west sides.
 Madison avenue, between Sixty-ninth and Seventieth streets.
 Madison avenue, between Seventy-sixth and Seventy-seventh streets, west side.

Madison avenue, between Seventy-ninth and Eightieth streets, east side.
 Madison avenue, between Eighty-first and Eighty-second streets.
 Madison avenue, between Eighty-fourth and Eighty-fifth streets.
 Madison avenue, between Ninetieth and Ninety-first streets.
 First avenue, between First and Second streets.
 First avenue, between Second and Third streets.
 First avenue, between Sixth and Seventh streets.
 First avenue, between Fifth and Sixth streets, west side.
 First avenue, between Eighth and Ninth streets, east side.
 First avenue, between Ninth and Tenth avenues, east side.
 First avenue, between Fourteenth and Fifteenth streets.
 First avenue, between Twelfth and Thirteenth streets, west side.
 First avenue, between Thirteenth and Fourteenth streets, west side.
 First avenue, between Twenty-eighth and Twenty-ninth streets, west side.
 First avenue, between Thirtieth and Thirty-first streets.
 First avenue, between Eighty-sixth and Eighty-seventh streets.
 Second avenue, between Thirty-fourth and Thirty-fifth streets, east and west sides.
 Second avenue, between Thirty-eighth and Thirty-ninth streets, east side.
 Second avenue, between Forty-second and Forty-third streets.
 Second avenue, between Sixty-second and Sixty-third streets, west side.
 Second avenue, between Sixty-fifth and Sixty-sixth streets, east side.
 Avenue A, between Ninety-first and Ninety-second streets, west side.
 Central Park, West, from Seventy-seventh to Eighty-first streets, west side.
 Central Park, West, from Eighty-third to Eighty-fourth streets, west side.
 Columbus avenue, between Seventy-fourth and Seventy-fifth streets.
 Amsterdam avenue, between Seventy-seventh and Seventy-eighth streets, east side.
 Amsterdam avenue, between Eighty-fourth and Eighty-fifth streets.
 Amsterdam avenue, between Eighty-fifth and Eighty-sixth streets.
 Amsterdam avenue, between Ninety-first and Ninety-second streets, east side.
 West End avenue, between Eighty-fourth and Eighty-fifth streets.
 West End avenue, between Eighty-fifth and Eighty-sixth streets.
 Sixth avenue, between Twenty-third and Twenty-fourth streets, east side.
 Sixth avenue, between Twenty-eighth and Twenty-ninth streets, east and west sides.
 Sixth avenue, between Thirty-ninth and Fortieth streets.
 Sixth avenue, between Thirty-fourth and Thirty-fifth streets, east side.
 Eighth avenue, between One Hundred and Eleventh and One Hundred and Twelfth streets, east side.
 Eighth avenue, between One Hundred and Fourteenth and One Hundred and Fifteenth streets, east side.
 Eighth avenue, between One Hundred and Fifty-fourth and One Hundred and Fifty-fifth streets, west side.
 Tenth avenue, between Twenty-fourth and Twenty-fifth streets, west side.
 Tenth avenue, between Twenty-fifth and Twenty-sixth streets, west side.
 Tenth avenue, between Twenty-sixth and Twenty-seventh streets, west side.

Intersections Relaid.

First avenue and Thirteenth street.
 First avenue and Fifteenth street.
 First avenue and Thirty-first street.
 First avenue and Eighty-sixth street.
 First avenue and Eighty-seventh street.
 First avenue and Ninety-first street.
 Second avenue and Twenty-seventh street.
 Second avenue and Twenty-ninth street.
 Second avenue and Sixty-third street.
 Second avenue and One Hundred and Twenty-fourth street, east and west.
 Avenue A and Fifty-fifth street.
 Fourteenth street and East river.
 Avenue B and Seventeenth street.
 Sixth avenue and Twenty-eighth street, west side.
 Sixth avenue and Thirty-fourth street, east side.
 Sixth avenue and Fortieth street.
 Sixth avenue and Forty-fourth street.
 Sixth avenue and Fiftieth street.
 Sixth avenue and Fifty-first street.
 Seventh avenue and Twenty-second street.
 Seventh avenue and Twenty-ninth street.
 Ninth avenue and Twenty-ninth street.
 Ninth avenue and Thirtieth street.
 Ninth avenue and Fiftieth street.
 Thirteenth avenue and Twenty-first street.
 Central Park, West, and Eighty-eighth street, west side.
 Central Park, West, and One Hundred and First street, west side.
 Central Park, West, and One Hundred and Third street, west side.
 Columbus avenue and Seventieth street, west side.
 Lenox avenue and One Hundred and Twentieth street, east and west sides.
 Manhattan avenue and One Hundred and Seventeenth street.
 Madison avenue and Seventieth street.
 Madison avenue and Sixty-ninth street.
 Madison avenue and Eightieth street, east side.
 Madison avenue and Eighty-second street, east and west sides.
 Madison avenue and Eighty-third street, east and west sides.
 Madison avenue and One Hundred and Sixth street, east and west sides.
 Park avenue and Sixty-eighth street.
 Park avenue and Seventieth street.
 Park avenue and Seventy-first street.
 Park avenue and Seventy-second street.
 Park avenue and Seventy-third street.
 Park avenue and Seventy-fourth street.
 Park avenue and Seventy-fifth street.
 West and Gansevoort streets.
 Church and Cortlandt streets.
 Broadway and Fifty-sixth street.
 Prince and Thompson streets.
 Maiden Lane and William street.

Streets Repaired.

Fourth street, from Broadway to South Fifth avenue.
 Fourth street, between Avenue B and Avenue C.
 Second street, between Avenue B and Avenue C.
 Sixth street, between Avenue A and First avenue.
 Seventh street, between Avenue C and Avenue D.
 Eighth street, between Broadway and Astor place.
 Ninth street, between Fifth and Sixth avenues.
 Tenth street, between University place and Fifth avenue.
 Eleventh street, between Avenue B and Avenue C.
 Twelfth street, between Fifth and Sixth avenues.
 Thirteenth street, between Second and Third avenues.
 Thirteenth street, between Third and Fourth avenues.
 Fourteenth street, between First and Second avenues.
 Fourteenth street, between Fifth avenue and University place.
 Fourteenth street, between Seventh and Eighth avenues.
 Sixteenth street, between Third avenue and Irving place.
 Sixteenth street, between Fourth avenue and Irving place.
 Seventeenth street, between Broadway and Fifth avenue.
 Seventeenth street, between Fourth avenue and Irving place.
 Seventeenth street, between Second and Third avenues.
 Seventeenth street, between Avenue A and Avenue B.
 Seventeenth street, between Sixth and Seventh avenues.
 Seventeenth street, between Ninth and Tenth avenues.
 Eighteenth street, between Seventh and Eighth avenues.
 Nineteenth street, between Sixth and Seventh avenues.
 Twentieth street, between First and Second avenues.
 Twenty-first street, between First and Second avenues.
 Twenty-first street, between Second and Third avenues.
 Twenty-first street, between Broadway and Fifth avenue.
 Twenty-first street, between Seventh and Eighth avenues.
 Twenty-first street, between Eighth and Ninth avenues.
 Twenty-second street, between First and Second avenues.
 Twenty-second street, between Broadway and Fourth avenue.
 Twenty-second street, between Fifth and Sixth avenues.

Twenty-second street, between Seventh and Eighth avenues.
 Twenty-second street, between Eighth and Ninth avenues.
 Twenty-second street, between Ninth and Tenth avenues.
 Twenty-second street, between Tenth and Eleventh avenues.
 Twenty-fourth street, from Third to Madison avenue.
 Twenty-fourth street, between Broadway and Sixth avenues.
 Twenty-fourth street, between Seventh and Eighth avenues.
 Twenty-seventh street, between Madison and Fifth avenues.
 Twenty-seventh street, between Broadway and Sixth avenue.
 Twenty-seventh street, between Sixth and Seventh avenues.
 Twenty-seventh street, between Seventh and Eighth avenues.
 Twenty-seventh street, between Tenth and Eleventh avenues.
 Twenty-eighth street, between Second and Third avenues.
 Twenty-eighth street, between Broadway and Sixth avenue.
 Twenty-eighth street, between Fourth and Madison avenue.
 Twenty-eighth street, between Madison and Fifth avenues.
 Twenty-ninth street, between Broadway and Sixth avenue.
 Twenty-ninth street, between Sixth and Seventh avenues.
 Thirtieth street, between Lexington and Fourth avenues.
 Thirtieth street, between Fourth and Madison avenues.
 Thirtieth street, between Eleventh avenue and North river.
 Thirty-first street, between Fourth and Madison avenues.
 Thirty-third street, between Seventh and Eighth avenues.
 Thirty-third street, between Tenth and Eleventh avenues.
 Thirty-fourth street, between Fifth and Sixth avenues.
 Thirty-fourth street, between Ninth and Tenth avenues.
 Thirty-fifth street, between Second and Third avenues.
 Thirty-fifth street, between Lexington and Park avenues.
 Thirty-fifth street, between Broadway and Seventh avenue.
 Thirty-sixth street, between Seventh and Eighth avenues.
 Thirty-sixth street, between Eighth and Ninth avenues.
 Thirty-seventh street, between Ninth and Tenth avenues.
 Thirty-eighth street, between Lexington and Third avenues.
 Thirty-ninth street, between Park and Lexington avenues.
 Thirty-ninth street, between Eleventh avenue and North river.
 Fortieth street, between Eleventh avenue and North river.
 Forty-first street, between Broadway and Seventh avenue.
 Forty-first street, between Seventh and Eighth avenues.
 Forty-first street, between Eighth and Ninth avenues.
 Forty-first street, between Tenth and Eleventh avenues.
 Forty-third street, between Fifth and Sixth avenues.
 Forty-fifth street, between Madison and Vanderbilt avenues.
 Forty-sixth street, between First avenue and East river.
 Forty-seventh street, between First and Second avenues.
 Forty-seventh street, between Second and Third avenues.
 Forty-eighth street, between First and Second avenues.
 Forty-eighth street, between Lexington and Park avenues.
 Forty-eighth street, between Eleventh avenue and North river.
 Fiftieth street, between Broadway and Eighth avenue.
 Fifty-second street, between Lexington and Park avenues.
 Fifty-second street, between Tenth and Eleventh avenues.
 Fifty-third street, between Second and Third avenues.
 Fifty-third street, between Ninth and Tenth avenues.
 Fifty-fourth street, between First and Second avenues.
 Fifty-fourth street, between Broadway and Seventh avenue.
 Fifty-fifth street, between First avenue and Avenue A.
 Fifty-fifth street, between First and Second avenues.
 Fifty-fifth street, between Second and Third avenues.
 Fifty-sixth street, between Lexington and Third avenues.
 Fifty-sixth street, between Sixth and Seventh avenues.
 Fifty-seventh street, between Sixth and Seventh avenues.
 Fifty-seventh street, between Broadway and Eighth avenue.
 Fifty-seventh street, between Eighth and Ninth avenues.
 Fifty-eighth street, between Madison and Park avenues.
 Fifty-eighth street, between Sixth and Seventh avenues.
 Fifty-ninth street, between First avenue and Avenue A.
 Fifty-ninth street, between Fifth and Sixth avenues.
 Fifty-ninth street, between Sixth and Seventh avenues.
 Sixty-first street, between Columbus and Amsterdam avenues.
 Sixty-second street, between First and Second avenues.
 Sixty-second street, between Madison and Park avenues.
 Sixty-second street, between Eighth avenue and Boulevard.
 Sixty-third street, between First and Second avenues.
 Sixty-third street, between Fifth and Madison avenue.
 Sixty-fourth street, between Avenue A and First avenue.
 Sixty-fourth street, between First and Second avenues.
 Sixty-fifth street, between Columbus and Amsterdam avenue.
 Sixty-seventh street, between West End and Amsterdam avenues.
 Sixty-eighth street, between Boulevard and Amsterdam avenues.
 Sixty-ninth street, between Columbus and Amsterdam avenues.
 Seventieth street, between Central Park, West, and Columbus avenue.
 Seventieth street, between Amsterdam and West End avenues.
 Seventieth street, between West End avenue and Riverside Drive.
 Seventy-first street, between Third and Lexington avenues.
 Seventy-first street, between Park and Madison avenues.
 Seventy-second street, between Lexington and Park avenues.
 Seventy-second street, between Park and Madison avenues.
 Seventy-third street, between Central Park, West, and Columbus avenue.
 Seventy-third street, between Columbus and Amsterdam avenues.
 Seventy-fourth street, between Third and Lexington avenues.
 Seventy-fourth street, between Columbus and Amsterdam avenues.
 Seventy-fifth street, between Columbus and Amsterdam avenues.
 Seventy-fifth street, between Boulevard and Amsterdam avenue.
 Seventy-sixth street, between Second and Third avenues.
 Seventy-sixth street, between Park and Madison avenues.
 Seventy-sixth street, between Madison and Fifth avenues.
 Seventy-sixth street, between Central Park, West, and Columbus avenue.
 Seventy-sixth street, between Columbus and Amsterdam avenues.
 Seventy-sixth street, between Amsterdam avenue and Boulevard.
 Seventy-seventh street, between Amsterdam avenue and Boulevard.
 Seventy-seventh street, between Riverside Drive and West End avenue.
 Seventy-eighth street, between Columbus and Amsterdam avenues.
 Seventy-eighth street, between Amsterdam avenue and Boulevard.
 Seventy-ninth street, between Columbus and Amsterdam avenues.
 Eightieth street, between Fifth and Madison avenues.
 Eighty-first street, between Central Park, West, and Columbus avenue.
 Eighty-second street, between Central Park, West, and Columbus avenue.
 Eighty-third street, between Third and Lexington avenues.
 Eighty-third street, between Central Park, West, and Columbus avenue.
 Eighty-third street, between Riverside Drive and West End avenue.
 Eighty-fourth street, between Lexington and Park avenues.
 Eighty-fourth street, between Park and Madison avenues.
 Eighty-fourth street, between Madison and Fifth avenues.
 Eighty-fourth street, between West End avenue and Riverside Drive.
 Eighty-fourth street, between Columbus and Amsterdam avenues.
 Eighty-fifth street, between First avenue and Avenue A.
 Eighty-fifth street, between Avenue A and Avenue B.
 Eighty-fifth street, between Third and Lexington avenues.
 Eighty-sixth street, between Second and Third avenues.
 Eighty-sixth street, from Lexington to Fifth avenue.
 Eighty-seventh street, between Columbus and Amsterdam avenues.
 Eighty-ninth street, between Fifth and Madison avenues.
 Eighty-ninth street, between Madison and Park avenues.
 Eighty-ninth street, between West End avenue and Riverside Drive.
 Ninetieth street, between Lexington and Park avenues.
 Ninetieth street, between Central Park, West, and Columbus avenue.
 Ninetieth street, between West End avenue and Boulevard.
 Ninety-first street, between First avenue and Avenue A.
 Ninety-first street, between Madison and Park avenues.
 Ninety-first street, between Fifth and Madison avenues.
 Ninety-second street, between First and Second avenues.

Ninety-second street, between Second and Third avenues.
 Ninety-second street, between Third and Lexington avenues.
 Ninety-second street, between Park and Madison avenues.
 Ninety-second street, between Lexington and Park avenues.
 Ninety-second street, between Central Park, West, and Columbus avenue.
 Ninety-second street, between Columbus and Amsterdam avenues.
 Ninety-third street, between Fifth and Madison avenues.
 Ninety-third street, between Madison and Park avenues.
 Ninety-fourth street, between Fifth and Madison avenues.
 Ninety-fourth street, between Madison and Park avenues.
 Ninety-fourth street, between Columbus and Amsterdam avenues.
 Ninety-seventh street, between First and Second avenues.
 Ninety-seventh street, between Second and Third avenues.
 One Hundred and Second street, between Park and Madison avenues.
 One Hundred and Third street, between First avenue and East river.
 One Hundred and Fourth street, between Columbus and Amsterdam avenues.
 One Hundred and Fourth street, between Amsterdam avenue and Boulevard.
 One Hundred and Fourth street, between Boulevard and West End avenue.
 One Hundred and Fourth street, between West End avenue and Riverside Drive.
 One Hundred and Fifth street, between First avenue and East river.
 One Hundred and Fifth street, between Third and Lexington avenues.
 One Hundred and Fifth street, between Lexington and Park avenues.
 One Hundred and Fifth street, between Columbus and Manhattan avenues.
 One Hundred and Fifth street, between Manhattan and Eighth avenues.
 One Hundred and Sixth street, between Madison and Fifth avenues.
 One Hundred and Eighth street, between Madison and Fifth avenues.
 One Hundred and Eleventh street, between Second and Third avenues.
 One Hundred and Eleventh street, between Fifth and Madison avenues.
 One Hundred and Thirteenth street, between First and Pleasant avenues.
 One Hundred and Fifteenth street, between First and Second avenues.
 One Hundred and Fifteenth street, between Second and Third avenues.
 One Hundred and Fifteenth street, between Madison and Fifth avenues.
 One Hundred and Eighteenth street, between Pleasant avenue and East river.
 One Hundred and Nineteenth street, between Third and Lexington avenues.
 One Hundred and Nineteenth street, between Fifth and Lenox avenues.
 One Hundred and Twentieth street, between Third and Lexington avenues.
 One Hundred and Twenty-first street, between First and Pleasant avenues.
 One Hundred and Twenty-first street, between Third avenue and Sylvan place.
 One Hundred and Twenty-first street, between Sylvan place and Lexington avenue.
 One Hundred and Twenty-first street, between Lexington and Park avenues.
 One Hundred and Twenty-first street, between Seventh and Eighth avenues.
 One Hundred and Twenty-seventh street, between Lexington and Park avenues.
 One Hundred and Twenty-seventh street, between St. Nicholas and Eighth avenues.
 One Hundred and Twenty-ninth street, between Second and Third avenues.
 One Hundred and Twenty-ninth street, between Boulevard and Amsterdam avenue.
 One Hundred and Thirty-first street, between Boulevard and Amsterdam avenue.
 One Hundred and Thirty-eighth street, between Boulevard and Hudson river.
 One Hundred and Forty-fourth street, between Boulevard and Eighth avenue.
 One Hundred and Fifty-third street, between St. Nicholas and Amsterdam avenues.
 One Hundred and Fifty-fifth street, between Boulevard and Hudson river.
 Ann street, between Broadway and Nassau street.
 Broadway, between Forty-ninth and Fiftieth streets.
 Broadway, between Fiftieth and Fifty-first streets.
 Broadway, between Fifty-fourth and Fifty-fifth streets.
 Broadway alley, between Twenty-sixth and Twenty-seventh streets.
 Bond street, between Broadway and Lafayette place.
 Bond street, between Lafayette place and Bowery.
 Bleeker street, between Bowery and Elizabeth street.
 Bleeker street, between Elizabeth and Mott streets.
 Broome street, from Centre to Elizabeth streets.
 Battery place, between Broadway and Greenwich street.
 Chrystie street, between Grand and Broome streets.
 Chambers street, between College place and Church street.
 Centre Market place, between Broome and Grand streets.
 Christopher street, between West and Weehawken streets.
 Carmine street, between Bleeker and Minetta lane.
 Cedar street, between William and Pearl streets.
 Cedar street, between Nassau and William streets.
 Cedar street, between Broadway and Temple street.
 Charles lane, between West and Washington streets.
 Charles street, between Bleeker and Hudson streets.
 Charlton street, between West and Washington streets.
 Duane street, between Broadway and Church street.
 Division street, between Grand and Scammel streets.
 Duane street, between Elm street and Broadway.
 Elm street, between Howard and Grand streets.
 Exchange place, between Broad and New streets.
 Franklin street, between Hudson and Greenwich streets.
 Fulton street, between South and Front streets.
 Greenwich street, between Morton and Leroy streets.
 Greene street, between West Third and Bleeker streets.
 Grace avenue, between Lawton and West streets.
 Hudson street, between Duane and Thomas streets.
 James Slip, between South and Water streets.
 Laight street, between Varick and Hudson streets.
 Leonard street, between Elm street and Broadway.
 Leonard street, between Broadway and Church street.
 Lawton avenue, between Grace and Hewitt avenues.
 Mail street, between Broadway and Park Row.
 Mercer street, between Bleeker and West Third streets.
 Mercer street, between West Third and West Fourth streets.
 Mercer street, between Waverley and Clinton places.
 Macdougall street, between King and Charlton streets.
 Morris street, between Broadway and Trinity place.
 North Washington Square, between University place and Fifth avenue.
 Norfolk street, between Rivington and Stanton streets.
 Nassau street, between Fulton and Ann streets.
 North William street, between William street and Park Row.
 Orchard street, between Grand and Hester streets.
 Peck Slip, between Front and South streets.
 Roosevelt street, between Cherry street and New Bowery.
 Rutgers Slip, between Cherry and South streets.
 South street, between Beekman and Fulton streets.
 Spring street, between Broadway and Elm streets.
 University place, between Ninth and Tenth streets.
 University place, between Tenth and Eleventh streets.
 University place, between West Fourth street and Washington place.
 University place, between Washington and Waverley places.
 University place, between Waverley and Clinton places.
 Vandam street, between Macdougall and Varick streets.
 Wall street, between Pearl and Water streets.
 Wall street, between Water and Front streets.
 Wall street, between New and Broad streets.
 Warren street, between Church street and College place.
 Worth street, between Broadway and Church street.
 Worth street, between Elm street and Broadway.
 Worth street, between Baxter street and Park Row.
 Weehawken street, between Christopher and West Tenth streets.
 West Broadway, between Leonard and Worth streets.
 William street, between Beekman and Spruce streets.
 Walker street, between Centre and Canal streets.
 Theatre alley, between Ann and Beekman streets.

Avenues Repaired.

First avenue, between First and Second streets.
 First avenue, between Sixteenth and Seventeenth streets.
 First avenue, between Seventeenth and Eighteenth streets.
 First avenue, between Twentieth and Twenty-first streets.
 First avenue, between Twenty-third and Twenty-fourth streets.
 First avenue, between Twenty-fourth and Twenty-fifth streets.
 First avenue, between Twenty-fifth and Twenty-sixth streets.

First avenue, between Forty-fourth and Forty-fifth streets.
First avenue, between Sixty-third and Sixty-fourth streets.
First avenue, between Sixty-fourth and Sixty-fifth streets.
First avenue, between Sixty-sixth and Sixty-seventh streets.
First avenue, between Seventy-third and Seventy-fourth streets.
First avenue, between Seventy-sixth and Seventy-seventh streets.
First avenue, between One Hundred and First and One Hundred and Second streets.
First avenue, between One Hundred and Second and One Hundred and Third streets.
Second avenue, between Twenty-fourth and Twenty-fifth streets.
Second avenue, between Twenty-seventh and Twenty-eighth streets.
Second avenue, between Seventy-ninth and Eightieth streets.
Second avenue, between One Hundred and Second and One Hundred and Third streets.
Fourth avenue, from Fourteenth to Seventeenth street.
Avenue D, between Thirteenth and Fourteenth streets.
South Fifth avenue, between Canal and Grand streets.
Lexington avenue, between Seventy-first and Seventy-second streets.
Lexington avenue, between Seventy-sixth and Seventy-seventh streets.
Lexington avenue, between One Hundred and Twentieth and One Hundred and Twenty-first streets.
Lexington avenue, between One Hundred and Twenty-third and One Hundred and Twenty-fourth streets.
Park avenue, between Fortieth and Forty-first streets.
Park avenue, between Forty-first and Forty-second streets.
Park avenue, between Fifty-third and Fifty-fourth streets.
Park avenue, between Fifty-sixth and Fifty-seventh streets.
Park avenue, between Fifty-ninth and Sixtieth streets, east side.
Park avenue, between Sixty-seventh and Sixty-eighth streets, east side.
Park avenue, between Sixty-eighth and Sixty-ninth streets, east side.
Park avenue, between Ninety-second and Ninety-third streets, west side.
Park avenue, between Ninety-third and Ninety-fourth streets, west side.
Park avenue, between One Hundred and Nineteenth and One Hundred and Twentieth streets, west side.
Park avenue, between One Hundred and Twentieth and One Hundred and Twenty-first streets, west side.
Park avenue, between One Hundred and Twenty-first and One Hundred and Twenty-second streets, west side.
Depew avenue, between Forty-second and Forty-third streets.
Greenwich avenue, between Thirteenth street and Eighth avenue.
Madison avenue, between One Hundred and Fifteenth and One Hundred and Sixteenth streets.
Fifth avenue, between Tenth and Eleventh streets.
Fifth avenue, between Fourteenth and Fifteenth streets.
Fifth avenue, between Twentieth and Twenty-first streets.
Fifth avenue, between Twenty-sixth and Twenty-seventh streets.
Fifth avenue, between Twenty-eighth and Twenty-ninth streets.
Fifth avenue, between Twenty-ninth and Thirtieth streets.
Fifth avenue, between Thirty-second and Thirty-third streets.
Seventh avenue, between Fortieth and Forty-first streets.
Seventh avenue, between Fifty-sixth and Fifty-seventh streets, west side.
Ninth avenue, between Forty-third and Forty-fourth streets.
Ninth avenue, between Forty-fourth and Forty-fifth streets.
Ninth avenue, between Forty-sixth and Forty-seventh streets.
Ninth avenue, between Forty-eighth and Forty-ninth streets.
Ninth avenue, between Fifty-first and Fifty-second streets.
Ninth avenue, between Fifty-fifth and Fifty-sixth streets.
Tenth avenue, between Thirty-fourth and Thirty-fifth streets.
Eighth avenue, between One Hundred and Seventeenth and One Hundred and Eighteenth streets.
Central Park, West, between Sixty-first and Sixty-second streets.
Central Park, West, between Sixty-second and Sixty-third streets.
Central Park, West, between Sixty-third and Sixty-fourth streets.
Central Park, West, between Sixty-seventh and Sixty-eighth streets.
Amsterdam avenue, between Sixty-sixth and Sixty-seventh streets.
Amsterdam avenue, between Sixty-eighth and Sixty-ninth streets.
Amsterdam avenue, between Seventieth and Seventy-first streets.
Amsterdam avenue, between Seventy-third and Seventy-fourth streets.
Columbus avenue, between Seventy-first and Seventy-second streets.
Columbus avenue, between Seventy-fifth and Seventy-sixth streets.
Columbus avenue, between Seventy-sixth and Seventy-seventh streets.
Columbus avenue, between Eighty-first and Eighty-second streets.
Columbus avenue, between Eighty-second and Eighty-third streets.
Columbus avenue, between Eighty-third and Eighty-fourth streets.
Columbus avenue, between Ninety-second and Ninety-third streets.
Columbus avenue, between Ninety-third and Ninety-fourth streets.
Columbus avenue, between One Hundredth and One Hundred and First streets.
Columbus avenue, between One Hundred and First and One Hundred and Second streets.
Columbus avenue, between One Hundred and Second and One Hundred and Third streets.
Columbus avenue, between One Hundred and Sixth and One Hundred and Seventh streets.
West End avenue, between Sixty-fourth and Sixty-fifth streets.
West End avenue, between Seventy-sixth and Seventy-seventh streets.
West End avenue, between Eighty-third and Eighty-fourth streets.
West End avenue, between Eighty-seventh and Eighty-eighth streets.
West End avenue, between Eighty-eighth and Eighty-ninth streets.

REPAIRING AND RENEWAL OF PIPES, STOP-COCKS, ETC.

The principal work performed by the force working under the above appropriation was as follows:

- 703 old fire-hydrants were taken out and new ones put in place.
- 2,779 defects in Croton mains, pipes, stop-cocks, etc., were repaired.
- 3,440 fire-hydrants were repaired.
- 3,068 square yards of pavement were repaired.

PUBLIC DRINKING-HYDRANTS.

115 public drinking-hydrants were repaired.
10 new public drinking-hydrants were put in at the following locations:
Northwest corner Delancey and Goerck streets.
In front of No. 56 Ninth avenue.
Southeast corner Sixth avenue and Fourth street.
Corner Grand and East streets.
Corner Broadway and Vesey street.
Corner Broadway and Canal street.
In front of No. 230 West Sixty-eighth street.
One Hundred and Forty-sixth street and Brook avenue.
In front of No. 1312 Second avenue.
Corner One Hundred and Twenty-second street and Boulevard.

REPAVING STREETS AND AVENUES.

With Asphalt.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Fifty-fifth street	Madison to Sixth avenue	4,657.40	1,419.00
Fifth avenue	Circle at One Hundred and Tenth street to One Hundred and Twentieth street	11,631.40	2,527.90
One Hundred and Twentieth street	Fifth to Lenox avenue	3,392.00	1,005.40
One Hundred and Twenty-third street	Mount Morris to Lenox avenue	1,482.50	448.20
Ludlow street	Division to Houston street	8,557.10	3,065.40
Fifth street	Avenue B to Avenue C	2,303.40	698.70
Eldridge street	Division to Houston street	9,340.60	3,413.60
Houston street	Eldridge to Ludlow street	2,113.80	721.00
Fifth avenue	At intersection of Eighth avenue	293.00	65.90

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Thames street	Broadway to Greenwich street	800.00	500.00
Mill lane	South William to Stone street	120.00	78.00
Total		44,691.20	13,943.10

Length in miles, 2.63.

With Granite Blocks.

Eighth avenue	Hudson to Thirteenth street	6,138.50	1,037.70
Lispenard street	Broadway to West Broadway	2,484.70	915.20
Park place	Broadway to Greenwich street	5,104.80	1,103.00
Third street	Broadway to Sixth avenue	6,561.30	2,115.20
Third avenue	Twenty-third to Fifty-ninth street	44,144.40	9,470.00
Houston street	Bowery to Eldridge and Ludlow to Lewis street	15,144.70	3,825.60
Third avenue	Sixth to Twenty-third street	20,261.00	2,550.30
Ninth street	Avenue D to East river	850.00	245.60
Total		100,789.40	21,282.00

Length in miles, 4.03.

REPAVING (CHAPTER 35, LAWS OF 1892).

With Asphalt.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
One Hundred and Twenty-third street	Seventh to Lenox avenue	2,634.50	805.00
Rivington street	Bowery to Cannon street	12,002.50	4,208.40
Division street	Catharine to Pitt street	11,843.40	3,811.30
Cherry street	Roosevelt to Catharine street	1,813.70	820.00
Spring street	Hudson to Clarke street	2,856.50	787.80
Dominick street	"	2,840.80	783.00
Second street	Bowery to Avenue A	5,860.50	1,771.30
Tenth street	Second avenue to Avenue A	4,372.70	1,322.50
Thirty-seventh street	First to Third avenue	4,363.70	1,317.60
Thirty-eighth street	Park to Lexington avenue	1,411.90	428.00
Liberty street	Nassau street to 210 feet west	427.00	210.00
Fifth avenue	Fourth street to Waverley place	3,570.40	567.60
Twentieth street	Third to Fourth avenue	1,422.60	464.20
Twenty-first street	"	1,491.60	463.90
Second avenue	Houston to Twenty-second street	28,070.10	5,663.60
Twenty-second street	Second to Third avenue	2,073.10	627.10
Broome street	Bowery to Lewis street	12,703.10	4,398.10
Chrystie street	Division to Grand street	4,262.70	1,541.50
Forsyth street	"	3,931.70	1,410.00
Attorney street	Broome to Houston street	4,699.00	1,729.20
Willett street	"	4,832.80	1,728.80
Total		117,594.30	34,868.90

Length in miles, 6.60.

With Granite Blocks.

Beaver street	Whitehall to Pearl street	4,231.7	1,393.0
Cortlandt street	Broadway to Greenwich street	2,084.8	696.0
Liberty street	"	1,932.5	630.0
Church street	Vesey to Fulton street	371.5	186.0
Barclay street	Greenwich to West street	571.2	417.0
Murray street	"	477.4	431.0
Warren street	"	174.0	90.0
Broadway	Thirty-second to Thirty-fifth street	4,827.3	868.7
Fourteenth street	Third to Fourth avenue	3,498.5	789.3
Forty-second street	Third to Eighth avenue	21,811.2	4,587.6
Fulton street	Broadway to Pearl street	5,085.6	1,712.2
Duane street	Washington to West street	1,250.1	320.5
Reade street	Centre to Elm street	1,132.6	275.4
Canal street	Washington to Greenwich street	2,032.2	231.2
Vesey street	Greenwich to West street	1,900.5	438.7
Dey street	"	2,005.5	210.0
Total		53,356.6	13,278.6

Length in miles, 2.51.

REPAVING (CHAPTER 346, LAWS OF 1889).

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
West street	Battery place to Gansevoort street	15,544.4	3,115.0
Broadway and Union Square, West	Bowling Green to Thirty-second street	62,200.0	15,810.0
Total		77,744.4	18,955.0
Less the quantities given in 1891		59,555.0	12,704.0
Total		18,189.4	6,251.0

Length in miles, 1.18.

REPAVING UNDER CHAPTER 449, LAWS OF 1889 (STREET LYING WITHIN THE LIMITS OF GRANTS OF LAND UNDER WATER).

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Ninth street.....	Avenue D to East river.....	1,488.60	455.20
Barclay street.....	Greenwich to West street.....	1,142.00	456.00
Murray street.....	".....	1,293.60	519.10
Warren street.....	".....	1,840.60	513.50
Dey street.....	".....	728.00	235.00
West street.....	Battery place to Gansevoort street.....	55,173.80	10,084.90
Total.....		61,666.60	12,263.70
Less quantities given for West street in 1891.....		17,500.00	5,628.00
Total.....		44,166.60	6,635.70

Length in miles, 1.27.

STREET IMPROVEMENT FUND.

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Fifty-eighth street.....	Eleventh avenue to a line about 360 feet west.....	1,238.0	380.0
One Hundred and Fourth street.....	First avenue to East river.....	2,970.0	833.0
One Hundred and First street.....	First to Second avenue.....	2,232.0	666.0
Ninety-eighth street.....	".....	2,207.0	666.5
One Hundred and Third street.....	First avenue to East river.....	2,244.0	664.0
One Hundred and Nineteenth street.....	Seventh to Lenox avenue.....	2,715.0	814.6
One Hundred and Twenty-second street.....	Avenue A to Harlem river.....	787.0	245.0
Ninety-eighth street.....	Amsterdam avenue to Boulevard.....	1,181.0	385.00
One Hundred and Eighteenth street.....	Madison to Park avenue.....	1,365.0	410.6
One Hundred and Seventeenth street.....	Madison to Fifth avenue.....	1,485.0	445.0
Bradhurst avenue.....	One Hundred and Forty-second to One Hundred and Forty-fifth street.....	3,115.0	725.3
Edgecombe avenue.....	One Hundred and Forty-first to One Hundred and Forty-fifth street.....	4,853.0	1,000.0
Ninety-first street.....	First to Second avenue.....	2,223.3	667.0
One Hundred and Thirty-first street.....	Twelfth avenue to Boulevard.....	2,701.6	810.7
One Hundred and First street.....	Third to Lexington avenue.....	1,503.9	452.0
One Hundred and Thirty-third street.....	Broadway to Amsterdam avenue.....	2,008.0	605.5
One Hundred and Twenty-first street.....	Avenue A to Harlem river.....	1,039.2	316.7
Amsterdam avenue.....	One Hundred and Thirtieth to One Hundred and Fortieth street.....	14,973.1	2,635.0
One Hundred and Fifteenth street.....	Avenue A to Harlem river.....	1,687.7	504.0
One Hundred and Forty-third street.....	Amsterdam avenue to Boulevard.....	2,726.0	807.0
".....	Eighth to Bradhurst avenue.....	1,011.0	303.9
One Hundred and Forty-second street.....	".....	1,111.0	333.0
One Hundred and Sixteenth street.....	Avenue A to Harlem river.....	2,547.0	573.0
One Hundred and Thirteenth street.....	Fifth to Lenox avenue.....	3,114.0	960.0
Ninety-eighth street.....	First to Second avenue.....	2,222.0	690.0
Ninety-sixth street.....	Lexington to Fourth avenue.....	2,787.0	443.0
Total.....		68,048.8	17,356.8

Length in miles, 3.30.

With Asphalt.

One Hundred and Fourteenth street.....	Manhattan to Columbus avenue.....	228.0	76.2
One Hundred and Twenty-second street.....	".....	1,220.0	375.0
Edgecombe avenue.....	One Hundred and Thirty-eighth to One Hundred and Forty-first street.....	3,452.0	800.0
One Hundred and Seventeenth street.....	Eighth to Columbus avenue.....	2,524.0	700.8
One Hundred and Twenty-second street.....	Eighth to Manhattan avenue.....	912.6	276.1
One Hundred and Eighteenth street.....	Seventh to Eighth avenue.....	2,476.0	747.0
*One Hundred and Thirty-eighth street.....	".....	2,688.0	795.0
*One Hundred and Thirty-ninth street.....	".....	2,698.0	800.0
*West End avenue.....	One Hundred and Fourth to One Hundred and Fifth street.....	983.6	215.0
Total.....		17,182.2	4,785.1

Length in miles, 0.90.

* Pavement laid at expense of property-owners.

RECAPITULATION.

Areas and lengths of different kinds of pavements constructed.

With Granite Blocks.

	SQUARE YARDS.	LINEAL FEET.
Repaving streets and avenues.....	100,789.4	21,282.0
Repaving, chapter 35, Laws of 1892.....	53,356.6	13,278.6
Repaving, chapter 346, Laws of 1889.....	18,189.4	6,251.0
Chapter 449, Laws of 1889.....	44,166.6	6,635.7
Street Improvement.....	68,048.8	17,356.8
Total.....	284,550.8	64,804.1

With Asphalt.

	SQUARE YARDS.	LINEAL FEET.
Repaving streets and avenues.....	44,691.2	13,943.2
Repaving, chapter 35, Laws of 1892.....	117,594.3	34,858.9
Street Improvement Fund.....	17,182.2	4,785.1
Total.....	179,467.7	53,597.2
Total of granite and asphalt.....	464,018.5	118,401.3

Length in miles, 22.41.

STREET OPENINGS.

Miles of gas-mains laid.....	23.25
Miles of subway and other electrical appliances laid.....	70.43
Feet of salt-water mains laid.....	2,512.00
Feet of double car-tracks laid.....	8,152.00
Feet of single car-tracks laid.....	4,665.00
Openings made to repair connections and make new ones for gas, steam, water, electric lights and subways.....	16,616.00
Bad places in the pavement repaired by Corporation.....	2,300.00

The following table shows the area and mileage of the different kinds of pavement in this city below the Harlem river, December 31, 1892:

KIND OF PAVEMENT.	SQUARE YARDS.	MILES.
Specification granite.....	3,037,511.67	140.02
Square granite.....	653,106.00	25.24
Specification trap.....	1,210,344.83	65.23
Belgian.....	2,073,539.77	82.78
Cobble.....	25,016.54	0.87
Asphalt.....	764,353.26	37.96
Macadam.....	792,529.30	21.44
Total.....	8,566,431.37	373.54

Respectfully,

WM. H. BURKE, Water Purveyor.

Document "F."

REPORT OF CONSULTING ENGINEER ON PAVEMENTS.

DEPARTMENT OF PUBLIC WORKS,
OFFICE OF THE CONSULTING ENGINEER ON PAVEMENTS,
No. 31 CHAMBERS STREET,
NEW YORK, December 14, 1892.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

DEAR SIR—I would respectfully submit a statement of the extent of work done in connection with new pavements during the past year.

Length of new pavements laid:

Granite pavement.....	16.16 miles.
Asphalt ".....	10.23 "
Macadam ".....	.63 "
Total.....	25.00 miles.

Making the total length of pavement of all kinds south of the Harlem river:

Stone pavement.....	314.24 miles.
Asphalt ".....	37.86 "
Macadam ".....	21.41 "
Total.....	373.54 miles.

The following statement shows the length of new pavements of all kinds laid during the past five years:

In 1888.....	16.54 miles.
In 1889.....	10.87 "
In 1890.....	33.68 "
In 1891.....	27.42 "
In 1892.....	25.00 "

The amount laid in 1892 includes 2.50 miles, laid on contracts not fully completed.

The labor strikes of the granite quarrymen and block makers and also the pavers employed on the several contracts greatly interfered with the laying of pavements. For several weeks the work was almost stopped in consequence. On resuming the work very rapid progress was made and several important works finished, but towards the close of the season difficulty was experienced in procuring all the stone blocks necessary to finish the season's work.

The delay in the construction of the Third Avenue Cable Railroad has greatly retarded the laying of the new pavement in the Bowery and Park Row for their full length. The Bowery from Sixth street south to Broome, has been finished. Owing to the lateness of the season the pavement of Park Row was not commenced. A large portion of the asphalt pavements laid were in the tenement districts. They have been greatly appreciated by the poor tenants, adding much to their comfort and aiding in keeping these neighborhoods freer from contagion and sickness. They are easily kept clean and during the summer were frequently flushed with Croton water, the washing doing no injury to the sewers.

The flushing after sweeping of all the asphalt pavement could be done without in any way obstructing the sewers for the reason that this street dirt is principally the droppings from houses which is soluble or readily carried off by the sewage.

During the past four years, I have carefully observed the traffic on the several asphalt pavements with the view of determining if there was any difference in the slipperiness in the two kinds in use, one composed of Trinidad asphalt and sand, the other the imported natural rock asphalt.

My examination was not confined to thoroughfares subject to business travel, but to all other streets subject only to light travel. It was particularly noticed that horses slipped and fell more frequently on pavements of the natural rock asphalt than on pavement of the Trinidad asphalt.

While making this examination as to the slipperiness I carefully noted the comparative wear of the two kinds of Trinidad asphalt in use. One pavement is composed of asphalt from the Pitch Lake, Island of Trinidad, the other composed of asphalt from the "overflow" deposits on the Island of Trinidad.

The difference in the durability and wear of the two kinds is very marked.

The pavements made from the "overflow" asphalt, especially those subjected to business travel, require constant and expensive repairs, while pavements laid with the Pitch Lake asphalt require much fewer repairs and are generally in better order and more durable.

I am satisfied that it will be for the City's interest to discontinue the use of the imported natural rock asphalt in pavements and also to discontinue the use of the "overflow" asphalt from the Island of Trinidad, and to use only asphalt taken directly from the Pitch Lake.

The failures of pavements laid with the "overflow" asphalt have determined several large cities in this country to use only the asphalt from the Pitch Lake and so specify in their specifications for asphalt pavements.

Surveys have been completed for the pavements it is proposed to lay during the year 1893.

A large portion of the appropriations it is proposed to use in improving the old pavements in the tenement districts by laying asphalt pavements. Streets most in need of sanitary improvement have been selected.

The accompanying map shows the streets recommended to lay with new pavement. It also shows the new pavements laid during the past four years.

Very respectfully,

STEVENSON TOWLE, Consulting Engineer.

Document "G."

REPORT OF ENGINEER IN CHARGE OF SEWERS.

DEPARTMENT OF PUBLIC WORKS,
OFFICE OF ENGINEER IN CHARGE OF SEWERS,
No. 31 CHAMBERS STREET, ROOM 9,
NEW YORK, December 15, 1892.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

DEAR SIR—In compliance with your instructions I hand you herewith my report of the transactions of the office of the Engineer in Charge of Sewers for the quarter ending December 31, 1892. 13,871 linear feet of new sewers and 15 receiving-basins connected therewith have been built, making the present total length of the sewerage of the city 2,372,684 linear feet (449³⁷/₁₀₀ miles), with 5,376 receiving-basins, which number includes 4 built under special contract as hereafter stated. In the schedule accompanying this report you will find a detailed statement showing the status of the several contracts under charge of this office.

16 sewer and 4 basin contracts have been completed, viz.:

Sewer in Eighty-eighth street, between Avenue A and summit east.
Sewer in One Hundred and Eighth street, between Manhattan avenue and Central Park, West.
Sewer in One Hundred and Thirty-ninth street, between Hamilton place and Amsterdam avenue.
Sewer in One Hundred and Forty-seventh street, between Hudson river and Boulevard.
Sewer in One Hundred and Forty-eighth street, between Boulevard and Amsterdam avenue, etc.
Sewer in One Hundred and Forty-ninth street, between Boulevard and Amsterdam avenue, etc.
Sewer in South street, between Market Slip and Montgomery street, etc.
Sewer in South street, between Broad and Wall streets, etc.
Sewer in One Hundred and Eighth street, between Boulevard and Amsterdam avenue.
Sewer in One Hundred and Ninth street, between Manhattan avenue and Central Park, West.
Sewer in One Hundred and Forty-fourth street, between Boulevard and Amsterdam avenue.
Sewer in One Hundredth street, between Third and Park avenues.
Sewer in First avenue, between Forty-second and Forty-third streets.
Sewer in Second avenue, between Seventy-first and Seventy-second streets, etc.
Alteration and improvement to sewers in Eighteenth street, between North river and Tenth avenue, etc.
Alteration and improvement to sewers in Ninety-fifth street, between First and Third avenues, etc.

Receiving-basin, northeast corner Ninety-seventh street and West End avenue.

Receiving-basin, northwest corner Eighty-first street and Lexington avenue.

Receiving-basin, west side of Amsterdam avenue, 369 feet north of One Hundred and Seventy-eighth street.

Alteration and improvement to receiving-basin, southwest corner One Hundred and Twenty-seventh street and Boulevard.

There are now in progress 33 contracts for new sewers and 1 basin contract.

1,922 receiving-basins and 32,022 linear feet of sewer have been cleaned.

Yours, respectfully,

HORACE LOOMIS, Engineer in Charge of Sewers.

REPORT OF THE TRANSACTIONS OF THE OFFICE OF THE ENGINEER IN CHARGE OF SEWERS FOR THE QUARTER ENDING DECEMBER 31, 1892.

Credit to General Fund—

Amount received for 178 permits for sewer connections..... \$4,578 61

Engineers' Fees—

Amount of Engineers' fees assessed on property benefited and charged to Street Improvement Fund..... \$7,513 61

Sewers—Repairing and Cleaning—

Balance on hand September 30, 1892..... \$29,917 49
Vouchers transmitted to the Commissioner of Public Works—
Pay-roll of Laborers, etc..... \$25,024 50
Cleaning..... 528 72
Repairing..... 500 00
Material and sundries..... 1,278 23
Outstanding liabilities (estimated)..... 2,550 00
Balance, December 31, 1892..... 36 04
29,917 49

Sewers—Repairing and Cleaning—Salaries—

Balance on hand, September 30, 1892..... \$2,630 06
Vouchers transmitted to the Commissioner of Public Works—
Pay-roll of Inspectors, etc..... \$2,565 98
Balance, December 31, 1892..... 64 08
2,630 06

Sewerage System—Salaries—

Balance on hand, September 30, 1892..... \$2,100 00
Vouchers transmitted to the Commissioner of Public Works—
Pay-roll of Engineer, etc..... \$2,053 34
Balance, December 31, 1892..... 46 66
2,100 00

Boring Examinations for Grading, etc.—

Balance on hand, September 30, 1892..... \$2,489 25
Vouchers transmitted to the Commissioner of Public Works—
Pay-roll of Axemen, etc..... \$488 50
Drawn by Superintendent of Street Improvements..... 2,000 00
Balance, December 31, 1892..... 75
2,489 25

Restoring and Repaving—Special Fund—

Amount received for permits for street openings..... \$10,340 00

Street Improvement Fund—

Vouchers transmitted to the Commissioner of Public Works—
Pay-roll of Engineers, etc..... \$5,299 98
Pay-roll of Inspectors, etc..... 14,650 99
On contracts..... 123,659 82
\$143,610 79

Work done by Mechanics and Laborers—

334 receiving-basins relieved.
1,922 receiving-basins and culverts cleaned.
21,675 linear feet of sewer cleaned.
6,400 linear feet of sewer relieved.

Work done by Mechanics and Laborers—

35,965 linear feet of sewer examined.
156 linear feet of brick sewer repaired.
6 linear feet of new pipe sewer laid.
24 linear feet of new pipe culvert laid.
6 linear feet of brick culvert rebuilt.
3 linear feet of spur pipe laid.
11 linear feet of new curb set.
25 receiving-basins repaired.
9 manholes repaired.
91 manhole heads reset.
10 basin heads reset.
3 new basin heads and covers put on.
46 new manhole heads and covers put on.
117 new manhole covers put on.
20 new basin covers put on.
844 cubic feet of brickwork built.
90 square feet of flagging relaid.
351 square yards of pavement relaid.
2,368 cubic feet of earth excavated and refilled.
51 cart-loads of earth filling.
5,956 cart-loads of dirt removed.

Statement Showing the Amount of Work Done on Uncompleted Contracts for the Quarter ending December 31, 1892.

DATE.	NATURE AND LOCATION OF WORK.	ESTIMATED COST.	ESTIMATED AMOUNT OF WORK DONE.	DAYS.			REMARKS.
				Allowed.	Consumed.	Remaining.	
1892. Apr. 23	Alteration and improvement to sewer in Jane and West Twelfth streets, between Thirteenth avenue and Washington street, and in Bethune street, between Thirteenth avenue and West street; and new sewer in Thirteenth avenue, between B. Thune and Horatio streets, with outlet through Pier at West Twelfth street, North river.....	\$32,890 00	\$26,497 00	300	170	130	
" 23	Sewers in West Eleventh street, between North river and West street, with outlet through Pier at West Eleventh street, North river, and sewer in Thirteenth avenue, between West Eleventh and Bethune streets, and connection with sewer in Bank street....	16,142 00	15,784 50	200	100	100	Completed, but not accepted.
" 25	Alteration and improvement to sewer in Gansevoort and Horatio streets, between Thirteenth avenue and West street, and in Thirteenth avenue, between Gansevoort and Bloomfield streets; new sewer in Thirteenth avenue, between Gansevoort and Horatio streets, with outlet through Pier at Gansevoort street, North river.....	23,986 00	24,000 00	250	125	125	
" 25	Alteration and improvement to sewers in Little West Twelfth street and Thirteenth avenue, and in Bloomfield street, between Thirteenth avenue and West street; new sewer in Thirteenth avenue, between Little West Twelfth and Bloomfield streets, and outlet through Pier at foot of Little West Twelfth street, North river.....	10,921 00	10,881 00	125	108	17	Completed, but not accepted.
May 2	Alteration and improvement to sewer in Twenty-fourth street, between East river and First avenue; new sewer in Avenue A, between Twenty-fourth and Twenty-fifth streets; and alteration and improvement to sewer in Twenty-fifth street, between Avenue A and First avenue.....	13,745 00	13,444 50	100	99	1	Completed, but not accepted.
June 21	Sewer in Twelfth avenue, between Fiftieth and Fifty-second streets, connecting with outlet under Pier at Fiftieth street, North river, and connection in Fiftieth and Fifty-first streets.....	10,237 00	5,368 00	125	80	45	
Aug. 22	Sewer in Thirteenth avenue, east side, between Twentieth and Twenty-third streets, and alteration and improvement to sewer in Twenty-first and Twenty-second streets, between Eleventh and Thirteenth avenues.....	13,972 50	8,700 00	190	112	78	
Sept. 10	Alteration and improvements to sewer in Third street, between East river and Goerck street, connecting with sewer built by the Department of Docks.....	5,475 00	1,240 00	50	40	10	
Oct. 26	Sewer in Twelfth and Thirteenth avenues, between Twenty-seventh and Thirtieth streets, and in Twenty-seventh, Twenty-eighth and Twenty-ninth streets, between Eleventh and Thirteenth avenues, and alteration and improvements to sewer in Thirtieth street, between Eleventh avenue and North river, connecting with sewer to be built by the Department of Docks at Pier, new, No. 60.....	30,999 50	1,800 00	300	40	260	
1891. Apr. 24	Sewer in Edgecombe avenue, between One Hundred and Forty-fifth and One Hundred and Fifty-fifth streets.....	2,551 00	1,300 00	50	30	20	
1892. Mar. 29	Sewer in Park avenue, west side, between Ninety-fifth and Ninety-ninth streets, and in Ninety-eighth and Ninety-ninth streets, between Park and Madison avenues.....	13,373 00	6,700 00	300	180	120	
May 17	Sewer in Ninety-eighth street, between Third and Park avenues.....	7,822 50	2,900 00	200	136	64	
" 18	Sewer in Sixty-eighth street, between Avenue A and East river.....	4,785 00	4,665 00	130	140	...	Practically complete.
Oct. 4	Sewer in Ninety-ninth street, between Third and Park avenues.....	8,857 30	400 00	150	40	110	
" 17	Sewer in One Hundred and Eighteenth street, between Fifth and Madison avenues.....	5,525 75	400 00	120	45	75	
1891. Dec. 24	Sewer in One Hundred and Sixty-second street, between Amsterdam avenue and Jumel Terrace, and in Jumel Terrace, between One Hundred and Sixtieth and One Hundred and Sixty-second streets.....	10,237 66	11,064 64	230	220	10	
1892. Apr. 14	Sewer in One Hundred and Eighty-first street, between Amsterdam and Eleventh avenues, with curves in Audubon and Eleventh avenues....	10,382 50	10,100 00	250	190	60	
July 22	Sewer in One Hundred and Forty-seventh street, between Boulevard and Amsterdam avenue.....	6,656 60	4,464 00	180	105	75	
" 25	Sewer in One Hundred and Thirty-eighth street, between Hamilton place and Amsterdam avenue.....	4,805 22	2,976 20	125	100	25	

DATE.	NATURE AND LOCATION OF WORK.	ESTIMATED COST.	ESTIMATED AMOUNT OF WORK DONE.	DAYS.			REMARKS.
				Allowed.	Consumed.	Remaining.	
1892.							
Aug. 6	Sewer in Amsterdam avenue, west side, between One Hundred and Seventy-third street and a point about 316.5 feet north of One Hundred and Seventy-eighth street, and sewers in north and south sides of One Hundred and Seventy-fifth street, between Amsterdam and Wadsworth avenues.....	\$40,659 00	\$2,390 00	900	110	790	
" 19	Sewer in Columbus avenue, west side, between One Hundred and Eighth and One Hundred and Tenth streets, and in One Hundred and Eighth street, between Columbus and Amsterdam avenues.....	12,758 00	3,480 00	350	90	260	
" 30	Sewer in One Hundred and Sixth street, between West End and Riverside avenues.....	4,967 00	3,414 00	100	80	20	
" 30	Sewer in One Hundred and Seventh street, between Riverside avenue and Boulevard.....	5,002 04	3,436 80	100	79	21	
" 30	Sewer in One Hundred and Ninth street, between Manhattan and Columbus avenues.....	3,730 00	2,672 50	80	70	10	
Sept. 7	Sewer in One Hundred and Seventh street, between Manhattan and Amsterdam avenues.....	5,889 25	2,911 75	135	70	65	
Oct. 14	Sewer in Ninety-first street, between Boulevard and Amsterdam avenue.....	2,687 50	1,592 50	60	50	10	
" 26	Sewer in Ninetieth street, between Boulevard and Amsterdam avenue.....	2,851 00	1,125 00	60	40	20	
" 26	Sewer in Kingsbridge road, east side, between Naegle avenue and One Hundred and Seventy-fifth street, with curves in One Hundred and Seventy-fifth, One Hundred and Eighty-first and One Hundred and Eighty-third streets.....	61,244 50	.....	900	25	875	
" 26	Sewer in One Hundred and Ninth street, between Riverside avenue and Boulevard.....	3,666 00	715 00	70	40	30	
Nov. 4	Sewer in One Hundred and Twentieth street, between Amsterdam avenue and Boulevard.....	7,161 63	240 00	175	25	150	
" 4	Sewer in One Hundred and Sixty-sixth street, between Amsterdam and Audubon avenues, with curves in Audubon avenue.....	3,115 00	300 00	70	25	45	
" 14	Sewer in One Hundred and Seventh street, between Boulevard and Amsterdam avenues.....	2,710 70	480 00	70	30	40	
" 7	Sewer in Kingsbridge road, between Dyckman street and Naegle avenue.....	45,983 00	.....	600	25	575	
" 17	Sewer in Ninety-third street, between Boulevard and Amsterdam avenue.....	2,537 50	670 00	70	25	45	
Dec. 7	Basins on southeast corner of Ninety-fourth street and First avenue, and northeast and southeast corners of Ninety-fifth street and First avenue.....	715 00	.....	12	.....	.....	Just commenced.
Aug. 19	Sewer in Columbus avenue, between One Hundred and Fourth and One Hundred and Fifth streets.....	2,448 00	2,984 00	50	50	.....	Completed, but not accepted.
Dec. 6	Sewer in Amsterdam avenue, west side, between Eighty-ninth and Ninety-third streets.....	5,848 00	.....	125	.....	.....	Just commenced.
1891.							
Aug. 3	Alteration and improvement to sewer in Eighteenth street, between East river and Avenue A, connecting with outlet sewer to be built by the Department of Docks; new sewer in Avenue A, between Sixteenth and Eighteenth streets, and connections with sewers in Avenue B at Eighteenth street and in Seventeenth street at Avenue C.....	27,547 50	27,459 00	170	171	.....
Nov. 10	Sewer in First avenue, between Forty-second and Forty-third streets, connecting with present sewer in Forty-third street, east of First avenue.....	5,037 00	5,103 50	140	158	.....	Allowance for overtime not settled.
Dec. 2	Alteration and improvement to sewer in Ninety-fifth street, between First and Third avenues; in Second avenue, east and west sides, between Ninety-fifth and Ninety-sixth streets, and curve in Second avenue south of Ninety-fifth street.....	22,025 00	21,107 00	200	193	.....
Dec. 16	Sewer in One Hundredth street, between Third and Park avenues, connecting with present sewer in Third avenue, west side, north of One Hundredth street.....	4,154 00	2,937 65	100	186	.....	Allowance for overtime not settled.
Feb. 9	Alteration and improvement to sewers in Second avenue, between Seventy-first and Seventy-second streets, and in Seventy-first street, between Second and Third avenues.....	6,066 00	5,927 55	100	140	.....	Allowance for overtime not settled.

NEW YORK, December 15, 1892.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

DEAR SIR—Agreeable to your instructions, I present the following as my report of the operations of this office during the past year:

There have been built—

Brick sewer.....	20,777 feet.
Pipe sewer.....	9,638 "
Wooden barrel sewer.....	490 "
Culvert.....	1,612 "
Total.....	32,517 feet, or 6 $\frac{17}{100}$ miles.

The cost of these works was \$385,768 $\frac{06}{100}$.

There are now in course of construction—

Brick sewer.....	32,979 feet.
Pipe sewer.....	8,721 "
Barrel sewer.....	579 "
Culvert.....	1,902 "
Total.....	44,181 feet.

The estimated cost of which is \$482,811 $\frac{06}{100}$.

First in the order of their importance to the welfare of the City are the marginal and outfall sewers along the water-front.

A description of them will be allotted a separate place in this report further on. Several years have been consumed in making these improvements, and the sanitary condition of the city has been greatly benefited thereby.

Various changes have been made in the old sewer system, largely consisting of adopting those which flowed direct to the surrounding rivers to the new system of intercepting sewers. Of these alterations and improvements there have been finished during the year 4,863 feet, or $\frac{82}{100}$ miles, which, added to the entirely new work done, makes a total of 6 $\frac{17}{100}$ miles of sewers finished during the year.

The system is now 2,372,684 feet in length, equal to 449 $\frac{37}{100}$ miles, and connected therewith are 5,376 receiving basins. Comparing these figures with those of last year we find that the amount actually completed is somewhat less than last year, being 31,447 feet against 33,803 feet; but the work now in progress is nearly double that going on a year ago, viz., 44,181 feet against 24,045 feet.

Much of the work done during the present year has been undertaken in anticipation of the laying of new pavement or repavement of streets and avenues, it being of first importance that

excavation of every character should be made previous to pavement, so that it will be subject to no disturbance thereafter.

From a tabular statement appended to this report you will find every particular of construction, cost, etc., relating to the work of the past year.

The following is a list of the more important works:

Alteration and improvement to sewer in Thirty-fourth street, between Eleventh and Twelfth avenues, and new sewer in Twelfth avenue, between Thirty-fourth and Thirty-fifth streets.

Alteration and improvement to sewer in Avenue St. Nicholas, west side, between One Hundred and Forty-eighth and One Hundred and Forty-ninth streets; sewer in One Hundred and Forty-ninth street, between Avenue St. Nicholas and Amsterdam avenue; and in Amsterdam avenue, east side, between One Hundred and Forty-ninth and One Hundred and Fiftieth streets.

Sewer in One Hundred and Forty-eighth street, between Boulevard and Amsterdam avenue; and in Amsterdam avenue, west side, between One Hundred and Forty-eighth and One Hundred and Forty-ninth streets.

Sewer in One Hundred and Forty-ninth street, between Boulevard and Amsterdam avenue.

Sewer in One Hundred and Seventieth street, between Tenth avenue and Kingsbridge road; and in Kingsbridge road, east side, between One Hundred and Seventieth and One Hundred and Seventy-third streets.

Sewer in One Hundred and Eighth street, between Boulevard and Amsterdam avenue.

Sewer in One Hundred and Forty-fourth street, between Boulevard and Amsterdam avenue.

Alteration and improvement to sewer in Ninety-fifth street, between First and Third avenues, and in Second avenue, east and west sides, between Ninety-fifth and Ninety-sixth streets, and curve in Second avenue, south of Ninety-fifth street.

Sewer in Second avenue, between Seventy-first and Seventy-second streets, and in Seventy-first street, between Second and Third avenues.

Sewers in One Hundred and Sixteenth street, between Amsterdam avenue and Morningside avenue, West.

Sewer in Amsterdam (Tenth) avenue, west side, between One Hundred and Thirty-third street and a point 50 feet south of centre line of One Hundred and Thirty-sixth street.

Sewer in Seventy-second street, extending about 615 feet east of Avenue A.

Sewer in Boulevard, west side, and West End avenue, between One Hundred and Fifth and One Hundred and Eighth streets, with curves into One Hundred and Fifth, One Hundred and Sixth and One Hundred and Seventh streets.

Sewer in One Hundred and Twenty-second street, between Boulevard and Claremont avenue, and in Claremont avenue, between One Hundred and Nineteenth and One Hundred and Twenty-second streets.

In the matter of outlet sewer for District No. 25, through One Hundred and Sixty-seventh street, etc., to Harlem river, I am pleased to be able to report that proceedings for obtaining title to the land required for the same are now in such a shape that I confidently expect they will be concluded within a few weeks, and that we can then proceed to build the sewer.

Of these before-mentioned important works completed this year, the alteration and improvement of sewer in Ninety-fifth street, between First and Third avenues, with branches north and south in Second avenue, is worthy of notice. Like many of the sewers built some fifteen or twenty years ago across the salt marsh, east of Second avenue, in this section of the city, this sewer had undergone a process of gradual settlement from date of building until the present, to such an extent that it was continually full of mud and water and had ceased to operate effectively. This work, with the outfall built last year with which it connects, has so relieved the One Hundred and Tenth street outlet sewer that former complaints from overcharged lateral sewers have been avoided.

The outlet to the East One Hundred and Twenty-fifth street sewer has also been improved by continuing the same through the new bulkhead-wall at that point. Other important works worth mentioning are One Hundred and Twenty-second street, between Boulevard and Claremont avenue, and in Claremont avenue, between One Hundred and Nineteenth and One Hundred and Twenty-second streets.

Boulevard (west side) and West End avenue, between One Hundred and Fifth and One Hundred and Eighth streets, etc.

One Hundred and Seventieth street, between Tenth avenue and Kingsbridge road, etc. Amsterdam avenue, east and west sides, between One Hundred and Thirty-second and One Hundred and Forty-first streets.

All of which drained important districts and materially advanced public improvements.

The appropriation for repairs for the past year was so small that only two small contracts were entered into chargeable to this fund, viz.: Repairs to outlet sewer at Pier 8, North river, and repairs to sewer in One Hundred and Forty-fifth street, north side, between Eighth and Edgecombe avenues.

Both became necessary from actual collapse of those sewers. The work of general removal of dilapidated sewer and laying tile bottom in many of the old style circular sewers has been suspended for the same reason.

In Sewerage District No. 26, which was laid out last year, the main outfall sewer has been put under contract, extending from One Hundred and Seventy-third street and Kingsbridge road, northerly along this avenue to Dyckman street, thence westerly to the Hudson river.

This is the largest work that has been undertaken in many years, comprising 9,823 feet of sewer, and estimated to cost \$148,303. When completed it will open up a very large territory to improvement. It was let in three contracts, viz.: Dyckman street, between Hudson river and Kingsbridge road, etc.; Kingsbridge road, between Dyckman street and Naegle avenue; Kingsbridge road, between Naegle avenue and One Hundred and Seventy-third street.

Work on the two latter has commenced. The grading of Dyckman street, now in progress, has not yet advanced far enough to allow the sewer contractor to carry on his work without clashing with the other contractor, and for that reason this job has not yet been ordered to begin.

There are now 8.36 miles of sewer under contract, the details for which will be found in the tabulated statement transmitted in connection with this report.

Besides the sewer in Dyckman street and Kingsbridge road, I might mention the following as of special importance:

Edgecombe avenue, between One Hundred and Forty-fifth and One Hundred and Fifty-fifth streets.

Park avenue, west side, between Ninety-fifth and Ninety-ninth streets, and in Ninety-eighth and Ninety-ninth streets, between Park and Madison avenues.

One Hundred and Eighty-first street, between Amsterdam and Eleventh avenues, with curves in Audubon and Eleventh avenues.

Amsterdam avenue, west side, between One Hundred and Seventy-third street and a point 316.5 feet north of One Hundred and Seventy-eighth street, and sewers on north and south sides of One Hundred and Seventy-fifth street, between Amsterdam and Wadsworth avenues, with curves into Eleventh avenue.

Columbus avenue, west side, between One Hundred and Eighth and One Hundred and Tenth streets, and in One Hundred and Eighth street, between Columbus and Amsterdam avenues.

MARGINAL AND OUTFALL SEWERS.

Upon the Hudson river there are now no outfall sewers discharging at the bulkhead line from the Battery to Twenty-seventh street. All have been collected and extended through barrel or box sewers to the end of the piers some 500 feet beyond; those under contract between West Eleventh and Little West Twelfth streets being practically completed.

Twelfth avenue, between the following streets, has not yet been filled in, but as soon as this is done, intercepting sewers with their proper outlets will be constructed, viz.:

Thirtieth to Thirty-fourth streets will be brought into the outlet to be built by the Department of Docks at Thirtieth street, between Thirty-seventh and Thirty-ninth streets, will be brought into the outlet at Thirty-sixth street, between Fortieth and Forty-second streets; the outlet has not yet been determined; and also between Forty-second street and the present outlet sewer at Fifty-sixth street.

Work is in progress on marginal and outfall sewers in Twelfth avenue, between Twenty-seventh and Thirtieth streets and in Twelfth avenue, between Fiftieth and Fifty-second streets.

These are the only available points on the river where intercepting sewers can be built at present, for the reason that Twelfth avenue has not yet been regulated and graded, and in many places the title to the land has not yet been obtained.

Between Fortieth and Fifty-sixth streets it would be highly beneficial, in a sanitary point of view, if the various sewers coming down to the river could be provided for, as has been done in other cases.

This improvement, however, will have to wait on the opening and grading of Twelfth avenue, and the advancement of the bulkhead-wall and piers by the Department of Docks. North of Fifty-sixth street there are 11 outfall sewers at long intervals, viz.: at Sixty-sixth, Seventy-second, Eightieth, Ninety-first, Ninety-sixth, One Hundred and Eighth, One Hundred and Fifteenth, One Hundred and Thirtieth, One Hundred and Forty-second, One Hundred and Forty-seventh and One Hundred and Fifty-seventh streets.

They do not go beyond the bulkhead-line for the reason just stated.

They have not yet become a nuisance, but will be extended as soon as piers are built. The number of outlets between Fifty-sixth street and the north end of the island will necessarily be increased in time, but not immediately.

Summing up the foregoing, it is safe to say that the waters of the North river along the bulkhead-line are no longer contaminated by sewage deposits which endanger the public health.

On the East river side of the city the water-front has been protected from the Battery to Montgomery street, with the exception of the space between Wall and Fulton streets. A contract for an intercepting sewer on South street, between these points, is now advertised for letting, and will be built as soon as may be, thus completing the system to the point named.

Here and there along the East river docks and piers have been built, and for the improvement of the sewerage system barrel outlets have been built to the end thereof by the Department of Docks. To utilize these, as many sewers as practicable have been connected therewith at the following places, viz., at Rivington, Third, Eleventh, Eighteenth, Twenty-fourth and Twenty-eighth streets.

The eastern side of the city is in a different situation from the western, for the reason that there is no continuous marginal street like West street, Thirteenth and Twelfth avenues along the water-front.

It will be necessary to extend many outlets for single sewers, and in some cases a few can be grouped together in the same outlet.

But the plans for marginal streets and dock improvements on the East river are still undetermined, and for that reason definite plans for sewage disposal cannot now be made.

The main sources of pollution and consequent danger to public health in this portion of the city have, however, been removed.

The following is a list of intercepting and outlet sewers, described in the foregoing, now in progress:

North River.

West Eleventh street, between North river and West street, with outlet through pier at West Eleventh street, North river, and sewer in Thirteenth avenue, between West Eleventh and Bethune streets; and connection with sewer in Bank street.

Alteration and improvement to sewers in Jane and West Twelfth streets, between Thirteenth avenue and Washington street, and in Bethune street, between Thirteenth avenue and West street, and new sewer in Thirteenth avenue, between Bethune and Horatio streets, with outlet through pier at West Twelfth street, North river.

Alteration and improvement to sewers in Gansevoort and Horatio streets, between Thirteenth avenue and West street, and in Thirteenth avenue, between Gansevoort and Bloomfield streets; new sewer in Thirteenth avenue, between Gansevoort and Horatio streets, with outlet through pier at Gansevoort street, North river.

Alteration and improvement to sewers at Little West Twelfth street and Thirteenth avenue, and in Bloomfield street, between Thirteenth avenue and West street; new sewer in Thirteenth avenue, between Little West Twelfth and Bloomfield streets, and outlet through pier at foot of Little West Twelfth street, North river.

Thirteenth avenue, east side, between Twentieth and Twenty-third streets, and alteration and improvement to sewers in Twenty-first and Twenty-second streets, between Eleventh and Thirteenth avenues.

Twelfth and Thirteenth avenues, between Twenty-seventh and Thirtieth streets, and in Twenty-seventh, Twenty-eighth and Twenty-ninth streets, between Eleventh and Thirteenth avenues, and alteration and improvement to sewer in Thirtieth street, between Eleventh avenue and North river, connecting with sewer to be built by Department of Docks at Pier, new 60.

Twelfth avenue, between Fiftieth and Fifty-second streets, connecting with outlet sewer under pier at Fiftieth street, North river, and connections with existing sewers in Fifty-first and Fifty-second streets.

Total, 11,753 feet.

East River.

Alteration and improvement to sewer in Third street, between East river and Goreck street, connecting with sewer built by Department of Docks.

Alteration and improvement to sewer in Twenty-fourth street, between East river and First avenue; new sewer in Avenue A, between Twenty-fourth and Twenty-fifth streets, and alteration and improvement to sewer in Twenty-fifth street, between Avenue A and First avenue.

Total, 1,350 feet.

LIST OF SEWERS COMPLETED DURING THE YEAR.

North River.

Alteration and improvement to sewer in Eighteenth street, between North river and Tenth avenue, connecting with outlet sewer built by Department of Docks.

Twentieth street, North river, making connection with twin barrel sewers built by Department of Docks.

Alteration and improvement to sewer in Thirty-fourth street, between Eleventh and Twelfth avenues, and new sewer in Twelfth avenue, between Thirty-fourth and Thirty-fifth streets.

Extension of sewer in Fifty-sixth street, between Hudson river and Eleventh avenue, connecting with outlet built by Department of Docks.

Total, 2,324 feet.

East River.

South street, between Broad and Wall streets, with outlet through Pier new 6, East river, and connection with old sewer and overflow at Old Slip.

South street, between Market Slip and Montgomery street, connecting with outlet built by Department of Docks through Pier, new, 36, East river, with curve in Clinton street, and alteration and improvement to existing sewers in Pike and Rutgers Slips.

Alteration and improvement to sewer in Eighteenth street, between East river and Avenue A, connecting with outlet sewer to be built by Department of Docks; new sewer in Avenue C, between Sixteenth and Eighteenth streets, and connections with existing sewers in Avenue B, at Eighteenth street, and in Seventeenth street, at Avenue C.

Ninety-first street, between Harlem river and Avenue A.

One Hundred and Fifteenth street, between Harlem river and Pleasant avenue.

One Hundred and Sixteenth street, between Harlem river and Pleasant avenue.

One Hundred and Twenty-first street, between Harlem river and Pleasant avenue.

One Hundred and Twenty-fifth street, between present sewer and bulkhead wall at One Hundred and Twenty-fifth street and Harlem river.

Total, 7,980 feet.

The points of discharge of sewers at Second, Third and Fourth avenues, into Harlem river are badly located, considering the character of the stream into which they empty and the great amount of travel over the bridges near by. At low water these outlets are offensive.

I am of the opinion that as soon as practicable one large intercepting sewer should be constructed, taking in all those and discharging below Second avenue where the Harlem river broadens out into the East river and Long Island Sound.

The system which has its outlet at One Hundred and Forty-seventh street and Harlem river could also be vastly improved by abandoning the route from Eighth avenue and One Hundred and Forty-fifth street to One Hundred and Forty-seventh street and thence to the river, and continuing by a straight line through One Hundred and Forty-fifth street, from Eighth avenue to the river. As One Hundred and Forty-fifth street between these points has no sewer at present I am of the opinion that this work should be undertaken at an early date.

Plans have recently been approved by this Department for the changes and alterations made necessary by the construction of the proposed rapid transit railway under Broadway, and other avenues, to the northern boundary of the city. Under these plans some very radical changes have been designed, including a double system of sewers the whole length of Broadway. A deep system passing under the railway tunnel when the flow is across Broadway and other streets and a division of large areas of drainage from present outlets to others.

It is estimated that these works will cost not less than \$500,000, which will be borne by the company constructing the road.

It cannot be maintained that in all cases these changes will be an improvement on the present system, but the fact remains that a rapid transit system is likely to be constructed under ground, and all public works interfering with it must be provided for elsewhere. It has been our intention not to allow the sewer system to be sacrificed, since it is rightfully considered as only second in importance to the water supply.

As a matter of considerable importance as relating to the subject of assessment for sewer construction, I beg leave to call your attention to chapter 554, Laws of 1892, wherein a re-opening of the case of assessment for double sewers in Tenth avenue, between Kingsbridge road and One Hundred and Seventy-third street, is provided for. According to this act the city is perfectly helpless. It is debarred from defending the policy of double sewers, either by showing its necessity or its advantages to property-holders. It must simply repay the difference between the cost of one sewer and two sewers, all of which has been legally assessed and collected.

Forty suits have already been commenced under it, and it looks as if the business of vacating assessments was likely to be revived. This law should be repealed, or, failing in that, it should be so amended as to allow proof of benefit as well as damage.

During the past year the sewer system has been cleaned by the same methods as heretofore employed. The contracts for cleaning brick sewers have been continued at the prices per linear foot that had been previously paid.

In this way contractors cleaned 77,764 feet of brick sewer at an average cost of 14.4 cents per foot, making a total cost of \$11,186.18. The amount spent in 1891 for this purpose was \$17,360.88. One reason for a smaller amount of work this year than last is that the sewers, having received a thorough overhauling during the past few years, were more nearly self-cleaning and would operate much longer before gouging.

But the principal reason was a short appropriation, being \$10,000 less than the previous year. We were enabled to employ but one party of examiners in noting the condition of sewers and reporting when cleaning or repairs were necessary in place of two last year.

This party covered 678,322 feet, or about 130 miles of sewer.

Sewer cleaning under contract was practically stopped in the month of August, for the reason that the funds then remaining were needed for other purposes.

The city had been greatly alarmed by the threatened introduction of cholera, and it was deemed necessary to add to our laboring force a sufficient number to at all times keep the corner catch-basins free from dirt and in good running order.

As sewer cleaning has been practically stopped for four months there must be necessarily large accumulations of dirt, which must be removed as soon as the new appropriation is available.

Should this be no longer than for the present year we shall be seriously embarrassed. It has been confidently predicted by high sanitary authority that cholera will reappear in the Port of New York and possibly in the city itself during the coming summer. Should the city officers be called upon to again employ extraordinary means to save the city from an epidemic, a clean and efficient sewer system is of the first importance.

Instead of a reduction there should be an increase of force, and an increased amount should be spent on cleaning.

Before it is too late I trust funds to meet any emergency may be provided.

All pipe sewers have been cleaned by flushing by the laboring forces of the Department. They removed dirt from 89,953 feet, at a cost of \$10,780, equal to about 12 cents per foot. Altogether the cleaning amounted to 167,717 feet, and the average cost was 13¹/₁₀ cents per foot.

The appropriation was expended as follows:

Appropriation, 1892.....	\$115,000 00
Pay-roll of Laborers, etc.....	\$91,925 24
Materials, etc.....	6,846 31
Work done under orders.....	11,869 01
Work done under contract.....	1,773 40
Liabilities outstanding.....	2,550 00
	<u>114,963 96</u>

Balance.....\$36 04

The laboring force is now classified as follows:

Laborers.....	56
Bricklayers.....	5
Horses and carts.....	27
Horses and wagons.....	6
Skilled Laborers.....	2
Foremen.....	18
Assistant Foremen.....	2
Timekeeper.....	1
	<u>117</u>

Total.....117

A statement in detail of the various items of work performed by these men will be found elsewhere in this report.

The localities where their services are required are scattered all over the city, and while we have only one main office where reports are received and orders given, much time is lost in going to and from work. Many complaints which reach us turn out to be unfounded or belong to other departments or bureau; so that the cost of work done by our own laborers and mechanics often-times exceeds what it would under other circumstances.

A reference to the complaint book will show, however, that the general repair of the system has been vastly improved. We find that complaints have fallen off about 36 per cent, that is to say that while in 1891 we received 2,034 complaints from all causes, in 1892 only 1,283 were received. A majority of these complaints are of catch basins filled and overflowing. These could be materially reduced by the rebuilding of many of them and the substitution of iron hoods for the old time trap-stone.

In the matter of the suppression of the steam nuisance, I will state that during the spring and summer, according to appearances, it was held well in check, but as soon as the outside temperature fell during the fall it was plain that there is much yet to do in that direction.

I am still of the opinion expressed in my last report, that the enginemen who have charge of steam-boilers are largely responsible for this violation of law, and if their licenses were dependent upon their observance of it, we should see a great improvement.

The following is a statement of the number of permits to connect buildings with the public sewers, and to repair or relay old house connections; also the amount of money received for connecting with sewers and drains and for repaving over sewer connections, and over trenches of gas companies, subways, etc.:

Permits for new sewer connections.....	890
Permits for repairing old connections.....	1,094
Number of buildings in the above.....	<u>3,023</u>

Amount received for sewer connections.....\$25,446 72

Amount received for repaving over connections, etc.....45,256 25

Total.....\$70,702 97

The force of draughtsmen employed in this office have furnished 30 filed plans of sewerage districts and parts of districts, 84 contract plans, 68 assessment lists, containing 364 sheets of maps, showing 19,235 separate pieces of property, besides 95 Inspector's books, containing working drawing for use of Inspectors in charge of construction of sewers.

This is a greater amount of work reported than in any previous year. Many of the old maps and plans are in a very dilapidated condition, and I hope during the coming year to accomplish much in the way of their restoration.

The report of the Inspector of Cement is as follows:

Number of specimens tested for Water Purveyor.....	1,690
Number of specimens tested for Engineer in Charge of Sewers.....	587
Number of specimens tested for Bureau of Repairs and Supplies.....	4
	<u>2,281</u>

Total.....2,281

Of these, 72 specimens were rejected as not up to the standard.

There were 455 more specimens tested this year than last, showing a large increase in the amount of work done.

The party engaged in boring for rock made examination of 16,867 linear feet for sewer construction.

This appropriation was exhausted during the month of November and the members of the party discharged. They should be re-employed as soon as funds are available to prepare for work to be put under contract in the spring.

For the past two years a party has been employed in testing by instrumental observation the recorded levels upon our general plans of sewer and getting other information of much value to builders and others interested in property. This survey has progressed as far north as the neighborhood of Seventy-second street and has nearly reached a point where the work is comparatively new and the figures reliable. This work will be finished as far as necessary in a few months and the services of the men engaged in it will be no longer required.

I am under obligations to the Assistant Engineers, Clerks, Inspectors and other employees of this office for faithful services and prompt attention to duty during the year.

Respectfully submitted,

HORACE LOOMIS, Engineer in Charge of Sewers.

DURING THE YEAR THE FOLLOWING REPAIRS HAVE BEEN MADE ON SEWERS.

One Hundred and Forty-fifth street, between Eighth and Edgecombe avenues.

Twentieth street, at outlet, North river.

Rector street, at outlet, North river.

The following basins have been repaired, the old heads being replaced by new granite ones, and where the basins were found untrapped the new iron traps were put in:

Southeast corner Dey and Washington streets.

Northwest corner Scammel street and East Broadway.

Northeast corner Clinton street and East Broadway.

Southeast corner Canal and Elizabeth streets.

Southeast and northeast corners Canal and Mott streets.

Southeast corner Grand and Clinton streets.

Northwest and northeast corners Ludlow and Stanton streets.

Southwest corner Delancey and Clinton streets.

Southwest corner Attorney and Stanton streets.

Southwest corner Essex and Grand streets.

Northwest corner One Hundred and Third street and Central Park, West.

Permits have been issued during the year for the following:

Extension of 12-inch pipe sewer in Eighty-seventh street, between Avenue A and Avenue B.

Drain in Rutgers Slip for drainage of new park.

12-inch pipe sewer in Battery Park.

New manhole in West street at Clarkson street.

WORK DONE BY LABORERS, MECHANICS, ETC., FOR THE YEAR ENDING DECEMBER 31, 1892.

1,222 receiving-basins relieved.
6,620 receiving-basins and culverts cleaned.
89,953 lineal feet of sewer cleaned.
9,503 lineal feet of sewer relieved.
678,332 lineal feet of sewer examined.
13 lineal feet of box sewer built.
88 lineal feet of brick sewer rebuilt.
460 lineal feet of brick sewer repaired.
58 lineal feet of brick culvert repaired.
231 lineal feet of new pipe culvert laid.
42 lineal feet of new pipe sewer laid.
39 lineal feet of new spur-pipe laid.
87 lineal feet of new curb set.
4 lineal feet of curb reset.
2 new bulkheads built.

26 steam-pipes plugged.
310 manhole heads reset.
28 basin heads reset.
5 new manholes built.
27 manholes repaired.
149 basins repaired.
130 new manhole heads and covers put on.
23 new basin heads and covers put on.
104 new basin covers put on.
265 new manhole covers put on.
2,065 cubic feet of brickwork built.
663 square feet of flagging relaid.
1,318 square yards of pavement relaid.
10,138 cubic feet of earth excavated and refilled.
162 cart-loads of earth filling.
21,631 cart-loads of dirt removed.

Contracts Completed during the Year 1892.

LOCATION OF WORK.	BRICK SEWERS.										4' 6" x 3' 8" WOODEN BARREL.	PIPE SEWERS.			Culverts.	Basins.	Rock.	TOTAL COST.
	6' x 8'	4' x 6'	4' cir.	4' x 3'	4' x 2' 8"	3' 6" x 2' 4"	3' 6" x 2'	3' x 2'	Over-flow.	3' cir.		18"	15"	12"				
Alteration and improvement to sewer in Eighteenth street, between North river and Tenth avenue, connecting with outlet built by Department of Docks.	625½	.....	90	30	.....	.....	.....	20	.....	.....	.....	.....	.....	64	1	.....	\$19,638 44
Alteration and improvement to sewer in Thirty-fourth street, between Eleventh and Twelfth avenues, and new sewer in Twelfth avenue, between Thirty-fourth and Thirty-fifth streets.	815	.....	.....	.....	.....	.....	.....	.....	.....	36	.....	.....	9,470 06
Extension of sewer in Fifty-sixth street, between Hudson river and Eleventh avenue, connecting with outlet built by Department of Docks.	730	.....	.....	.....	.....	.....	.....	.....	.....	8,500 70
South street, between Broad and Wall streets, with outlet through Pier, new 6, East river, and connection with old sewer and overflow at Old Slip.	840½	.....	738½	.....	.....	.....	10	.....	490	.....	.....	.....	172	6	.....	30,031 09
South street, between Market Slip and Montgomery street, connecting with outlet built by Department of Docks through Pier, new 36, East river, with curve in Clinton street, and alteration and improvement to existing sewers in Pike and Rutgers Slips.	1,097½	.....	1,219½	.....	242	.....	.....	.....	.....	.....	.....	.....	129	4 rep'd	.....	40,201 62
Alteration and improvement to sewer in Eighteenth street, between East river and Avenue A, connecting with outlet sewer to be built by Department of Docks. New sewer in Avenue C, between Sixteenth and Eighteenth streets, and connections with existing sewers in Avenue B at Eighteenth street and in Seventeenth street at Avenue C.	1,056	.....	.....	.....	466	.....	.....	20	.....	.....	.....	21	.....	.....	86	7	.....	30,591 96
Sixty-fifth street, between property of New York Central and Hudson River Railroad and West End avenue.	16" iron, 26 151	.....	6	1	420	3,196 73
Alteration and improvement to sewer in Avenue St. Nicholas, west side, between One Hundred and Forty-eighth and One Hundred and Forty-ninth streets. Sewer in One Hundred and Forty-ninth street, between Avenue St. Nicholas and Amsterdam avenue, east side, between One Hundred and Forty-ninth and One Hundred and Fiftieth streets.	237	887	.....	.....	.....	.....	.....	.....	.....	9	.....	175	8,306 59
One Hundred and Twenty-fifth street, between present sewer and bulkhead-wall at One Hundred and Twenty-fifth street and Harlem river.	253	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3,139 61
Park avenue, east side, between One Hundred and Fifteenth and One Hundred and Sixteenth streets.	202½	6	.....	.....	981 95
One Hundred and Sixteenth street, between Amsterdam avenue and Morningside avenue, West.	200	.....	.....	.....	.....	.....	791	.....	23	.....	2,641	14,069 02
Amsterdam (Tenth) avenue, west side, between One Hundred and Thirty-third street and a point 50 feet south of centre line of One Hundred and Thirty-sixth street.	822	.....	.....	.....	.....	.....	.....	.....	36	2	3,059	18,490 84
Lexington avenue, between Seventy-first and Seventy-second streets.	140	.....	.....	.....	387½	2,496 28
One Hundred and Fifteenth street, between Riverside avenue and Boulevard, with curves into Boulevard.	35	.....	623	.....	.....	.....	.....	.....	.....	.....	.....	45	2	.....	4,704 39
One Hundred and Twenty-first street, between Harlem river and Pleasant avenue.	351½	.....	.....	.....	.....	2,151 41
One Hundred and Eighty-fifth street, between Amsterdam and Audubon avenues.	36	.....	.....	.....	.....	.....	.....	345	.....	.....	313	.....	3,918 90
One Hundred and Fifteenth street, between Harlem river and Pleasant avenue.	382½	.....	.....	.....	.....	1,678 80
One Hundred and Sixth street, north side, between Central Park, West, and Manhattan avenue.	36	.....	.....	.....	.....	.....	320	.....	.....	.....	531	4,541 24
Seventy-second street, extending about 615 feet east of Avenue A.	670½	.....	.....	.....	.....	.....	.....	22	1	2,115	14,316 82
One Hundred and Sixteenth street, between Harlem river and Pleasant avenue.	531½	.....	.....	.....	.....	2,960 31
First avenue, between Eighty-ninth and Ninetieth street.	201½	.....	.....	.....	.....	.....	.....	.....	.....	529	3,736 88
First avenue, between Forty-third and Forty-fourth streets.	196	.....	.....	.....	781½	4,540 08
One Hundred and First street, between Third and Park avenues.	342	.....	.....	.....	736½	4,820 71
Thirty-third street, between Lexington and Fourth avenues.	442½	.....	.....	.....	.....	.....	.....	.....	.....	55	3,431 94
One Hundred and Seventeenth street, between Fifth and Madison avenues, with alteration and improvement to curve at Fifth avenue.	400	.....	.....	.....	.....	.....	.....	9½	1	985½	6,634 33
Avenue B, west side, between Eighty-eighth and Eighty-ninth streets, and in Eighty-eighth street, between Avenue B and summit west.	306½	.....	.....	.....	.....	243½	.....	20½	1	333	4,178 40
Ninety-first street, between Harlem river and Avenue A.	188½	.....	.....	.....	.....	1,256 08
Boulevard, west side, and West End avenue, between One Hundred and Fifth and One Hundred and Eighth streets, with curves into One Hundred and Fifth, One Hundred and Sixth and One Hundred and Seventh streets.	996	.....	.....	.....	.....	.....	.....	.....	96	5	3,497	20,714 99
One Hundred and Twenty-second street, between Boulevard and Claremont avenue, and in Claremont avenue, between One Hundred and Nineteenth and One Hundred and Twenty-second streets.	1,062	.....	.....	.....	.....	.....	.....	.....	.....	48	2	2,041	13,595 24
Park avenue, east side, between Ninety-fifth and Ninety-sixth streets, connecting with present sewer in Park avenue, east side, north of Ninety-sixth street.	302½	.....	.....	.....	783½	4,945 20
One Hundred and Forty-eighth street, between Boulevard and Amsterdam avenue, and in Amsterdam avenue, west side, between One Hundred and Forty-eighth and One Hundred and Forty-ninth streets.	97½	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	575	7,894 30
Eighty-eighth street, between Avenue A and summit east.	374½	.....	.....	.....	307½	3,033 75
One Hundred and Eighth street, between Manhattan avenue and Central Park, West.	263	.....	18	1	.....	1,545 12
One Hundred and Forty-seventh street, between Hudson river and Boulevard.	410 303 16" iron, 303	.....	.....	.....	22	5,923 81
One Hundred and Thirty-ninth street, between Hamilton place and Amsterdam avenue.	40	.....	.....	.....	.....	.....	338	.....	.....	.....	689	4,295 38
One Hundred and Forty-ninth street, between Boulevard and Amsterdam avenue.	978	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5,372 31
One Hundred and Seventieth street, between Tenth avenue and Kingsbridge road, and in Kingsbridge road, east side, between One Hundred and Seventieth and One Hundred and Seventy-third streets.	958	.....	.....	.....	.....	.....	748	.....	80	4	3,488	21,026 33
One Hundred and Eighth street, between Boulevard and Amsterdam avenue.	684	.....	.....	.....	201	3,699 23
One Hundred and Forty-fourth street, between Boulevard and Amsterdam avenue.	30	.....	.....	.....	.....	.....	.....	674	.....	.....	.....	350	5,126 47
One Hundred and Ninth street, between Manhattan avenue and Central Park, West.	263	.....	15	1	.....	1,475 05
Alteration and improvement to sewer in Ninety-fifth street, between First and Third avenues, and in Second avenue, east and west sides, between Ninety-fifth and Ninety-sixth streets, and curve in Second avenue, south of Ninety-fifth street.	677½	.....	.....	65½	751½	.....	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	21,107 00
Sewer in First avenue, between Forty-second and Forty-third streets, connecting with present sewer in Forty-third street, east of First avenue.	141	.....	.....	.....	.....	.....	.....	173½	.....	.....	.....	1,250	5,103 50
Sewer in One Hundred street, between Third and Park avenues, connecting with present sewer in Third avenue, west side, north of One Hundred street.	101	.....	.....	.....	.....	327	.....	25	1	883½	2,937 65
Sewer in Second avenue, between Seventy-first and Seventy-second streets, and in Seventy-first street, between Second and Third avenues.	347½	.....	.....	.....	.....	.....	.....	546	.....	69	2	274½	5,927 55
Totals	1,056	625½	2,615½	125	2,772½	5,999½	4,181	2,142½	30	730	490	21	9,414½	202½	1,045	38	27,423½	\$385,768 06

Contracts Now in Progress.

LOCATION OF WORK.	SEWER.		Culvert, Linear Feet.	Receiving, basins.	Rock, Cubic Yards.	ESTIMATED COST.
	Size.	Linear Feet.				
West Eleventh street, between North river and West street, with outlet through pier at West Eleventh street, North river, and new sewer in Thirteenth avenue, between West Eleventh and Bethune streets, and connection with sewer in Bank street.	4' Cir. 4' x 2' 8" 3' 6" x 2' 4"	476 1/2 766 1/2 43	30	2		\$16,142 00
Alteration and improvement to sewers in Jane and West Twelfth streets, between Thirteenth avenue and Washington street, and in Bethune street, between Thirteenth avenue and West street, and new sewer in Thirteenth avenue, between Bethune and Horatio streets, with outlet through pier at West Twelfth street, North river.	4' Cir. 4' x 2' 8" 3' 6" x 2' 4" 2' 10" x 2' 6"	1,241 750 121 93	175	9		30,890 00
Alterations and improvement to sewers in Gansevoort and Horatio streets, between Thirteenth avenue and West street, and in Thirteenth avenue, between Gansevoort and Bloomfield streets; new sewer in Thirteenth avenue, between Gansevoort and Horatio streets, with outlet through pier at Gansevoort street, North river.	4' Cir. 4' x 2' 8" 4' 6" x 3' 8" 3' 6" x 2' 4" 15" Pipe. 12" Pipe.	111 1,200 146 400 25 190	200			23,986 00
Alteration and improvement to sewer at Little West Twelfth street and Thirteenth avenue, and in Bloomfield street, between Thirteenth avenue and West street; new sewer in Thirteenth avenue, between Little West Twelfth and Bloomfield streets, with outlet through pier at foot of Little West Twelfth street, North river.	4' Cir. 4' x 2' 8" 3' 6" x 2' 4"	86 170 713	90			10,921 00
Thirteenth avenue, east side, between Twentieth and Twenty-third streets, and alteration and improvement to sewers in Twenty-first and Twenty-second streets, between Eleventh and Thirteenth avenues.	4' x 2' 8" 3' 6" x 2' 4"	520 863	170	5		13,972 50
Twelfth and Thirteenth avenues, between Twenty-seventh and Thirtieth streets, and in Twenty-seventh, Twenty-eighth and Twenty-ninth streets, between Eleventh and Thirteenth avenues, and alteration and improvement to sewer in Thirtieth street, between Eleventh avenue and North river, connecting with sewer to be built by Department of Docks at Pier, new 60.	4' Cir. 4' x 3' 4' x 2' 8" 3' 6" x 2' 4"	706 253 210 1,955	100	7		30,999 50
Twelfth avenue, between Fifth and Fifty-second streets, connecting with outlet sewer under pier at Fifth street, North river, and connection with existing sewers in Fifty-first and Fifty-second streets.	3' 3" Cir. 4' x 2' 8" 3' Cir.	256 662 42	70	2		10,237 00
Alteration and improvement to sewer in Third street, between East river and Goerck street.	5' Cir.	350	25			5,475 00
Alteration and improvement to sewer in Twenty-fourth street, between East river and First avenue; new sewer in Avenue A, between Twenty-fourth and Twenty-fifth streets, and alteration and improvement to sewer in Twenty-fifth street, between Avenue A and First avenue.	4' Cir.	1,000	50	3		13,745 00
Wooster street, east side, between West Fourth street and Washington place, and in Washington place, between Wooster and Greene streets.	3' 6" x 2' 4" 15" Pipe.	200 148				2,551 00
Edgecombe avenue, between One Hundred and Forty-fifth and One Hundred and Fifty-fifth streets.	3' 6" x 2'	2,627	80	4	7,000	41,315 00
Park avenue, west side, between Ninety-fifth and Ninety-ninth streets, and in Ninety-eighth and Ninety-ninth streets, between Park and Madison avenues.	2' x 2' 15" Pipe.	880 925	30	2	1,800	13,373 00
Ninety-eighth street, between Third and Park avenues.	3' x 2'	865			1,150	7,822 50
Sixty-eighth street, between Avenue A and East river.	15" Pipe.	530			800	4,785 00
Ninety-ninth street, between Third and Park avenues.	15" Pipe.	806	15	1	1,500	8,857 30
Madison avenues.	3' x 2'	405	12		1,050	5,525 75
One Hundred and Sixty-second street, between Jumel Terrace and Amsterdam avenue, and in Jumel Terrace, between One Hundred and Sixtieth and One Hundred and Sixty-second streets.	3' 6" x 2' 15" Pipe.	468 200	40	2	2,000	10,237 66
One Hundred and Eighty-first street, between Amsterdam and Eleventh avenues, with curves in Audubon and Eleventh avenues.	3' 6" x 2' 4"	1,170	45	2	1,500	10,382 50
Amsterdam avenue, west side, between One Hundred and Seventy-third street and a point 316.5 feet north of One Hundred and Seventy-eighth street, and sewers on north and south sides of One Hundred and Seventy-fifth street, between Amsterdam and Wadsworth avenues, with curves into Eleventh avenue.	4' x 2' 8" 3' 6" x 2' 4" 15" Pipe.	1,100 1,076 885	100	7	6,350	40,659 00
Columbus avenue, west side, between One Hundred and Eighth and One Hundred and Tenth streets, and in One Hundred and Eighth street, between Columbus and Amsterdam avenues.	3' 6" x 2' 4" 15" Pipe.	572 605	30	2	2,500	12,758 00
One Hundred and Sixth street, between West End and Riverside avenues.	15" Pipe.	356			950	4,967 00
One Hundred and Seventh street, between Riverside avenue and Boulevard.	3' 6" x 2' 15" Pipe.	261 307			925	5,002 05
One Hundred and Ninth street, between Manhattan and Columbus avenues.	15" Pipe.	340	30	2	550	3,730 00
One Hundred and Seventh street, between Manhattan and Amsterdam avenues.	3' 6" x 2' 4" 15" Pipe.	513 630	30	2	350	5,889 25
Ninety-first street, between Boulevard and Amsterdam avenue.	3' 6" x 2' 4" 15" Pipe.	271 198			450	2,687 50
Ninety-third street, between Boulevard and Amsterdam avenue.	3' 6" x 2' 4" 15" Pipe.	261 198			510	2,851 00
Kingsbridge road, east side, between Naegle avenue and One Hundred and Seventy-fifth street, with curves in One Hundred and Seventy-fifth, One Hundred and Eighty-first, One Hundred and Eighty-third and One Hundred and Eighty-fifth streets.	6' Cir. 4' x 2' 8" 3' 6" x 2' 4"	107 132 3,534 1,682	200	14	9,000	61,244 50
One Hundred and Ninth street, between Riverside avenue and Boulevard.	3' 6" x 2' 15" Pipe.	29 240			670	3,666 00
One Hundred and Twentieth street, between Amsterdam avenue and Boulevard.	3' 6" x 2' 4" 15" Pipe.	56 714			1,320	7,161 63
One Hundred and Sixty-sixth street, between Amsterdam and Audubon avenues, with curves in Audubon avenue.	3' 6" x 2' 4"	500	50	2	50	3,115 00
One Hundred and Seventy-third street, between Boulevard and Amsterdam avenue.	3' 6" x 2' 4" 15" Pipe.	23 574			100	2,710 70
One Hundred and Forty-seventh street, between Boulevard and Amsterdam avenue.	3' 6" x 2' 4"	678			1,200	6,656 60
One Hundred and Thirty-eighth street, between Hamilton place and Amsterdam avenue.	3' 6" x 2' 15" Pipe.	58 430			900	4,805 22
Kingsbridge road, between Dyckman street and Naegle avenue.	6' Cir.	2,513	250	6	2,000	45,983 00
Ninety-third street, between Boulevard and Amsterdam avenue.	3' 6" x 2' 4" 15" Pipe.	27 198			500	2,537 50
Columbus avenue, between One Hundred and Fourth and One Hundred and Fifth streets.	15" Pipe.	162			450	2,448 00
Receiving-basins on southeast corner of Ninety-fourth street and northeast and southeast corners of Ninety-fifth street and First avenue.			80	3		722 00
Total.....		42,279	1,902	77	45,575	\$482,811 66

Contracts Let, but Work not Commenced.

Amsterdam avenue, west side, between Eighty-ninth and Ninety-third streets.	15" Pipe.	680			1,275	
Outlet in Dyckman street, between Hudson river and Kingsbridge road, with curve in F street.	3' 6" x 2' 4" 3' 6" x 2' 4"	1,780 66	240	7	6,300	
Total.....		2,535	240	7	7,575	

RECAPITULATION.

NATURE OF WORK.	NEW.	ALTERATION AND IMPROVEMENT.
Linear feet, 6' x 8' brick sewer.....		1,056
" 4' x 6' brick sewer.....		625 1/2
" 4' circular brick sewer.....	1,938	677 1/2

NATURE OF WORK.

NATURE OF WORK.	NEW.	ALTERATION AND IMPROVEMENT.
Linear feet, 4' x 3' brick sewer.....	35	90
" 4' x 2' 8" brick sewer.....	2,111	561 1/2
" 3' 6" x 2' 4" brick sewer.....	1,805 1/2	4,195 1/2
" 3' 6" x 2' brick sewer.....	3,294	887
" 3' x 2' brick sewer.....	2,130 1/2	20
" 3' circular brick sewer.....	730	
" overflow.....	10	20
" wooden barrel sewer.....	490	
Total.....	12,534 1/2	8,133 1/2
Linear feet of 18" pipe sewer.....		21
" 15" pipe sewer.....	8,378 1/2	
" 12" pipe sewer.....	2,22 1/2	
" 16 iron pipe.....	436	
Total.....	9,617 1/2	21

Repairs to Sewers.

LOCATION OF WORK.	4' x 3'	NEW ARCH.	4' x 2' 8"	15" PIPE.	TILES LAID.	CUBIC YARDS BRICK WORK.	CUL- VERT.	TOTAL COST.
Second street, between Houston street and Avenue C.....	295	149			432	3 1/2		\$3,715 60
Rivington street, between Goerck and Columbia streets.....	409		6	3			24	4,983 42
One Hundred and Forty-fifth street, north side, between Eighth and Edgecombe avenues.....			128					1,798 40
Total.....	707	149	134	3	432	3 1/2	24	\$10,497 42

Basins.

LOCATION.	BASINS.	CULVERT.	ROCK.	TOTAL COST.
Alteration and improvement to receiving-basin on northwest corner of Fourteenth street and Avenue C.....	1	35		\$200 00
Alteration and improvement to receiving-basin on northeast corner of Fourteenth street and Avenue C.....	1	27		192 00
Receiving basin, southeast corner of One Hundred and Fifty-third street and Eighth avenue.....	1	32 1/2		248 75
Receiving-basin, northeast corner of One Hundred and Forty-third street and Eighth avenue.....	1	19		204 00
Receiving-basin, northwest corner of One Hundred and Forty-first street and Edgecombe avenue.....	1	24		238 00
Receiving-basin, west side of Edgecombe avenue, opposite One Hundred and Forty-second street.....	1	30		250 00
Receiving-basin, northwest corner of Twenty-seventh street and Eleventh avenue.....	1	36		257 00
Receiving-basin, southwest corner of One Hundred and Seventeenth street, on the southwest and southeast corners of One Hundred and Eighteenth street and Fifth avenue.....	3	26		781 00
Receiving-basins, southwest and southeast corners of One Hundred and Fourteenth street, and southeast corner of One Hundred and Sixteenth street and Fifth avenue.....	3	20 1/2		566 33
Receiving-basins, southwest corners of One Hundred and Eleventh, One Hundred and Twelfth, and One Hundred and Thirteenth streets and Fifth avenue.....	3	32 3/4		590 50
Receiving-basin, southwest corner of One Hundred and Tenth street and Madison avenue.....	1	12 1/2		187 50
Receiving-basin, northeast corner of Duane and Caroline streets.....	1	25		183 25
Receiving-basin on southwest corner of Ryder's alley and Fulton street and southwest corner of Dutch and Fulton streets.....	2	38		389 50
Receiving-basins, southeast corner of One Hundred and Eleventh, One Hundred and Twelfth and One Hundred and Thirteenth streets and Fifth avenue.....	3	23 3/4		571 66
Alteration and improvement to basin, southeast corner of Baxter and Walker streets.....	1	20		182 00
Receiving-basin, southwest corner of park in Broadway, between Thirty-second and Thirty-third streets.....	1	24		216 00
Receiving-basins, northwest corners of One Hundred and Twenty-third street, northwest, northeast, and southeast corners of One Hundred and Twenty-fourth street and Seventh avenue.....	4	56 1/2		800 56
Receiving-basin, northwest corner of One Hundred and Twenty-third street and Lenox avenue.....	1	13		205 13
Receiving-basin, northeast corner of Ninety-seventh street and West End avenue.....	1	27		228 10
Receiving-basin, northwest corner of One Hundred and Twenty-first street and Lexington avenue.....	1	27	56 1/2	456 60
Alteration and improvement to basin, southwest corner of One Hundred and Twenty-seventh street and Boulevard.....	1	9		170 00
Receiving-basin, west side of Amsterdam avenue, 369.75 feet north of One Hundred and Seventy-eighth street.....	1	9		210 00
Total.....	34	567	56 1/2	7,327 88

Document "H."

REPORT OF THE SUPERINTENDENT OF STREET IMPROVEMENTS.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF STREET IMPROVEMENTS, ROOM 5, NO. 31 CHAMBERS STREET,
NEW YORK, December 31, 1892.

Hon. THOS. F. GILROY, Commissioner of Public Works:

SIR—In accordance with your instructions, I have the honor to submit herewith my report of the operations of the Bureau of Street Improvements for the quarter ending December 31, 1892, also my yearly report showing all the expenditures of this Bureau for the year ending December 31, 1892, together with a statement of the amount of work done, and also balances of the appropriations.

On the commencement of the year 19 contracts were in existence; 88 contracts were entered into during the year 1892, and 103 contracts were completed at a cost of \$251,903.99, for which assessment lists have been transmitted to the Chief Clerk.

The most important of these completed contracts are as follows, viz.:

REGULATING, GRADING, ETC.

Avenue B, from Eighty-sixth street to Harlem river.
Convent avenue, from One Hundred and Twenty-seventh to One Hundred and Thirty-fifth street.
Amsterdam avenue, from One Hundred and Ninety-fourth street to Fort George avenue.
F street, from Dyckman street to Bolton road.
One Hundred and First street, from First avenue to East river.
One Hundred and Sixth street, from Boulevard to Riverside Drive.
One Hundred and Eighteenth street, from Morningside to Amsterdam avenue.
One Hundred and Twenty-seventh street, from St. Nicholas avenue to Lawrence street.

One Hundred and Twenty-seventh street, from Boulevard to Manhattan street.
 One Hundred and Thirty-second street, from Boulevard to Twelfth avenue.
 One Hundred and Thirty-eighth street, from Fifth to Lenox avenue.
 One Hundred and Forty-first street, from Seventh avenue to Harlem river.
 One Hundred and Forty-seventh street, from Boulevard to 500 feet west.
 One Hundred and Forty-eighth street, from Amsterdam to St. Nicholas avenue.
 One Hundred and Forty-ninth street, from Boulevard to Twelfth avenue.
 One Hundred and Sixty-fifth street, from Eleventh avenue to Boulevard.
 One Hundred and Sixty-ninth street, from Amsterdam to Eleventh avenue.
 One Hundred and Eighty-third street, from Amsterdam avenue to Kingsbridge road.
 The following are the most important unfinished contracts:
 Regulating, grading, etc., Boulevard, from One Hundred and Fifth-sixth to Inwood street.
 This is a large contract, 10,988 yards of earth excavation, 25,347 yards rock excavation, 12,761 yards filling and 50,750 yards retaining wall are the amounts of work estimated to be done on this contract before its completion. This work is progressing very satisfactory and will be completed in the spring of 1894.
 Regulating, grading, etc., Claremont avenue, from One Hundred and Twenty-second to One Hundred and Twenty-seventh street.
 So far 9,000 yards of earth excavation and 10,200 yards of rock excavation have been done on this contract. This work will be finished next spring.
 Regulating, grading, etc., Dyckman street, from Hudson river to Exterior street.
 This is quite a large work and is at present in active progress; this work consists mainly of rock excavation and earth filling to furnish, and it is probable it will take more than a year to complete it.
 Regulating, grading, etc., McComb's Dam road, from One Hundred and Forty-ninth to One Hundred and Fifty-fifth street.
 The rock cutting on this road has been nearly completed, but there is still a large amount of filling to furnish. This work will be finished in about six months.
 Regulating, grading, etc., Ninetieth street, from Avenue A to East river.
 Regulating, grading, etc., Ninety-first street, from Avenue A to East river.
 These works were commenced November, 1892, since which time they have made fair progress; it will probably take the present year to complete them.
 Regulating, grading, etc., One Hundred and Twenty-third street, from Tenth avenue to Boulevard.
 The rock excavation on this street is so nearly completed that it is expected to be ready for curbing and flagging with the advent of the spring season.
 Regulating, grading, etc., One Hundred and Twenty-fourth street, from Boulevard to Amsterdam avenue.
 This is a heavy rock cut, and has made rapid progress since its commencement. This work will be completed about July 1, 1893.
 Regulating, grading, etc., One Hundred and Forty-fourth street, from Boulevard to Twelfth avenue.
 This contract requires deep filling, and will, in all probability, take the bulk of next summer season to finish it.
 Regulating, grading, etc., One Hundred and Forty-fifth street, from Boulevard to Twelfth avenue.
 This contract is largely over low land, and since its commencement on April 5, 1892, has made good progress and will probably be finished within this year.
 Regulating, grading, etc., One Hundred and Forty-eighth street, from Boulevard to Twelfth avenue.
 This is a large filling contract, 23,000 yards of filling has been furnished. This work will be completed about May of next year.
 Regulating, grading, etc., One Hundred and Sixtieth street, from Eleventh avenue to Kingsbridge road.
 Regulating, grading, etc., One Hundred and Sixty-second street, from Eleventh avenue to Kingsbridge road.
 These contracts are nearly completed, the only work to be done is the curb and flagging.
 Regulating, grading, etc., One Hundred and Thirtieth street, from Tenth to Convent avenue.
 Re-regulating, grading, etc., One Hundred and Thirty-third street, from Boulevard to Twelfth avenue.
 The contracts for these works have just been signed, and they will be ordered to proceed with same at once.

APPROPRIATIONS.

Street Improvements—for Surveying, Monumenting, etc.
 The amount appropriated for this purpose was \$3,000, of which sum \$2,511.50 has been expended, leaving a balance of \$488.50.
 Flagging sidewalks and fencing vacant lots in front of City property.
 The appropriation for this purpose was \$2,000, the amount expended is \$1,434.97, leaving a balance of \$565.03, which will be used for additional flagging around Gansevoort Market.
 The bulk of this money was used for the railing around the S. S. Cox monument at Astor place, and flagging sidewalks on Washington street side of Gansevoort Market; also on Vesey street side of Washington Market.
 In regard to defective sidewalks in accordance with the provisions of section 321, chapter 410, Laws of 1882, as amended by chapter 569, Laws of 1887. I beg to state that all complaints received at this Bureau have been promptly examined, and, where necessary, ordinances and certificates have been transmitted to the Common Council. There are a large number of these ordinances now before that body on which no action has been taken by them and nothing can therefore be done by this Department, as follows:
 Sent to Common Council..... 132
 Passed by same..... 46
 Still in Board..... 86

Respectfully submitted,
 W. M. DEAN, Superintendent, Street Improvements.

STATEMENT OF AMOUNT OF WORK DONE DURING THE QUARTER ENDING DECEMBER 31, 1892.

Earth excavated.....	cubic yards.	13,404
Rocks excavated.....	"	20,781
Filling furnished.....	"	67,598
Curbstones set.....	linear feet.	10,805
Curbstones reset.....	"	2,653
Flagging laid.....	square feet.	95,961
Flagging relaid.....	"	15,599
Fence.....	linear feet.	790
Retaining-wall.....	cubic yards.	3,137
Bridge-stone.....	square feet.	150
Pavement.....	square yards.	3
Masonry.....	cubic yards.	848
Coping.....	"	131 ⁶
Old and new steps.....	"	51
Iron railing.....	feet.	121 ¹
Receiving-basin.....	"	1
Culvert.....	feet.	75

AMOUNT OF VOUCHERS DRAWN.

Street Improvement Fund.....	\$79,026 88
Street Improvements—for Surveying, Monumenting, etc.....	637 50
Flagging sidewalks and fencing vacant lots in front of City property.....	975 47
Retaining-walls in East Fifty-first and East Forty-second streets.....	2,008 77
Contingencies—Department of Public Works.....	287 55

APPROPRIATIONS.

Street Improvements—for Surveying, Monumenting, etc.....	\$3,000 00
Amount of vouchers drawn during first quarter.....	\$585 00
Amount of vouchers drawn during second quarter.....	637 00
Amount of vouchers drawn during third quarter.....	652 00
Amount of vouchers drawn during fourth quarter.....	637 50
	2,511 50
Balance (estimated).....	\$488 50
Flagging Sidewalks and Fencing Vacant Lots in front of City Property.....	\$2,000 00
Amount of vouchers drawn during first quarter.....	\$17 50
Amount of vouchers drawn during second quarter.....	442 00
Amount of vouchers drawn during third quarter.....	
Amount of vouchers drawn during fourth quarter.....	975 47
	1,434 97
Balance estimated.....	\$565 03

Contingencies—Department of Public Works—

Amount of vouchers drawn during first quarter.....	\$286 00
Amount of vouchers drawn during second quarter.....	287 55
Amount of vouchers drawn during third quarter.....	288 15
Amount of vouchers drawn during fourth quarter.....	287 55
	\$1,149 25

Flagging Sidewalks and Fencing Vacant Lots in front of City Property—Appropriation, 1891—

Amount of vouchers drawn.....	\$5,063 84
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Street Improvements for Surveying, etc.—Appropriation, 1890—

Amount of vouchers drawn.....	\$20 00
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Boring Examinations for Sewer and Grading Contracts—

Amount of vouchers drawn.....	\$2,000 00
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Retaining-walls in East Fifty-first and East Fifty-second Streets—

Amount of vouchers drawn.....	\$2,008 77
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WORKS COMPLETED DURING THE QUARTER.

Retaining-wall in East Fifty-first street and East river.....	\$8,587 57
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Regulating, Grading, Curbing, Flagging, etc.—

One Hundred and Forty-ninth street, from Boulevard to Twelfth avenue.....	\$15,661 18
One Hundred and Eighty-third street, from Amsterdam avenue to Kingsbridge road.....	26,556 25
One Hundred and Forty-first street, from Seventh avenue to Harlem river.....	10,250 54
One Hundred and Twenty-seventh street, from Boulevard to Manhattan street.....	1,683 60
Convent avenue, from One Hundred and Twenty-seventh to One Hundred and Thirty-fifth street.....	8,020 43
One Hundred and Forty-seventh street, from Boulevard to 500 feet west.....	4,506 38
	66,678 38

Curbing, Flagging, etc.—

Nos. 328 and 330 West Fortieth street.....	\$106 09
North side Thirty-fifth street, from Eleventh avenue to Hudson river.....	2,081 27
North side One Hundred and Third street, from First avenue to 500 feet west.....	491 70
Hancock place, from One Hundred and Twenty-fifth street, etc.....	613 83
Columbus avenue, from Sixty-fifth to Seventieth street.....	886 97
Eighth avenue, from One Hundred and Forty-eighth to One Hundred and Fifty-fourth street.....	3,512 11
North side Eighty-third street, from Amsterdam avenue to Boulevard.....	380 60
Thirty-seventh street, from Tenth to Eleventh avenue.....	2,500 00
Twenty-ninth street, from Ninth to Tenth avenue.....	1,368 24
One Hundred and Thirty-second street, from Broadway to Amsterdam avenue.....	1,228 30
West side Tenth avenue, from Thirtieth to Thirty-first street.....	608 26
	13,777 37

Fencing Vacant Lots—

Ninety-second and Ninety-third streets, from First avenue to Avenue A.....	\$333 18
West side Madison avenue, from One Hundred and Fourth to One Hundred and Fifth street.....	60 33
South side Seventy-seventh street, east of Amsterdam avenue.....	67 02
	460 53

Total.....	\$89,503 85
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RECAPITULATION.

1 Contract for Retaining-wall.....	\$8,587 57
6 Contracts for Regulating, Grading, etc.....	66,678 38
11 Contracts for Flagging, Curbing, etc.....	13,777 37
3 Contracts for Fencing Vacant Lots.....	460 53
21 Contracts.....	
Total.....	\$89,503 85

Annual Statement.

NATURE OF WORK.	JANUARY 1 TO MARCH 31.	APRIL 1 TO JUNE 30.	JULY 1 TO SEPTEMBER 30.	OCTOBER 1 TO DECEMBER 31.	TOTALS.
Earth excavated, cubic yards.....	1,400	5,532	21,599	13,404	41,935
Rock excavated, cubic yards.....	15,870	24,957	19,635	20,781	81,243
Filling furnished, cubic yards.....	7,600	38,973	80,832	67,598	195,003
Curb set, lineal feet.....	1,207	8,327	22,765	10,805	43,104
Curb reset, lineal feet.....	1,152	5,046	3,584	2,653	14,435
Flagging laid, square feet.....	28,445	125,891	152,737	95,961	403,034
Flagging relaid, square feet.....	6,659	26,460	47,431	15,599	96,149
Retaining-wall, cubic yards.....			4,137	3,137	7,174
Culvert, lineal feet.....		155	76	75	306
Fence, lineal feet.....		1,296	942	790	3,028
Bridge stone, square feet.....				150	150
Pavement, square yards.....				3	3
Masonry, cubic yards.....				848	848
Coping, cubic yards.....				131 ⁶	131 ⁶
Old and new steps.....				51	51
Iron railing, feet.....				121 ¹	121 ¹
Receiving-basin.....				1	1

Work Done in Front of City Property.

Curb set, lineal feet.....	1,017			306	1,323
Curb reset, lineal feet.....	233			296	529
Flagging laid, square feet.....	13,864			1,485	15,349
Flagging relaid, square feet.....	1,077			796	1,873
Bridge stone laid, square feet.....	160				160
Fence, lineal feet.....	338				338

Amount of Vouchers Drawn During the Year 1892.

ON ACCOUNT OF.	JANUARY 1 TO MARCH 30.	APRIL 1 TO JUNE 30.	JULY 1 TO SEPTEMBER 30.	OCTOBER 1 TO DECEMBER 31.	TOTAL.
Street Improvement Fund.....	\$29,086 92	\$86,170 59	\$104,998 47	\$79,026 88	\$312,544 22
Street Improvement for Surveying, Monu- menting, etc., 1890.....	585 00	637 00	652 00	637 50	2,511 50
Street Improvement for Surveying, Monu- menting, etc., 1890.....			20 00		20 00
Flagging Sidewalks and Fencing in Front of City Property.....	37 50	442 00		975 47	1,434 97
Flagging Sidewalks and Fencing in Front of City Property, 1891.....	4,173 84	890 00			5,063 84
Boring Examinations for Sewer and Grad- ing Contracts.....		2,000 00			2,000 00
Retaining-walls in East Fifty-first street and East Forty-second street.....	156 00		124 00	2,008 77	2,288 77
Contingencies of Department of Public Works	286 00	287 55	288 15	287 55	1,149 25

Works Completed During the Year 1892.

Retaining-wall— Fifty-first street, east of Beekman place.....	\$8,587 57
Regulating, grading, curbing and flagging— One Hundred and Eighteenth street, from Morningside to Amster- dam avenue.....	\$11,105 46
F street, from Dyckman street to Bolton road.....	8,657 71
Amsterdam avenue, from One Hundred and Ninety-fourth street to Fort George avenue.....	1,621 93
One Hundred and First street, from First avenue to East river.....	1,936 26
One Hundred and Thirty-eighth street, from Fifth to Lenox avenue.....	5,675 75
One Hundred and Sixth street, from Boulevard to Riverside Drive. Avenue B, from Eighty-sixth street to Harlem river.....	21,397 74
Manhattan street, from Twelfth avenue to Hudson river.....	4,740 43
One Hundred and Twenty-seventh street, from St. Nicholas avenue to Lawrence street.....	404 25
One Hundred and Thirty-second street, from Boulevard to Twelfth avenue.....	4,158 91
One Hundred and Sixty-fifth street, from Eleventh avenue to Boulevard.....	5,024 21
One Hundred and Sixty-ninth street, from Amsterdam to Eleventh avenue.....	26,953 26
One Hundred and Forty-eighth street, from Amsterdam to St. Nicholas avenue.....	4,849 58
One Hundred and Forty-ninth street, from Boulevard to Twelfth avenue.....	2,396 50
One Hundred and Eighty-third street, from Amsterdam avenue to Kingsbridge road.....	15,661 18
One Hundred and Forty-first street, from Seventh avenue to Har- lem river.....	26,556 25
One Hundred and Twenty-seventh street, from Boulevard to Man- hattan street.....	10,250 54
One Hundred and Forty-seventh street, from Boulevard to five hundred feet west.....	1,683 60
Convent avenue, from One Hundred and Twenty-seventh to One Hundred and Thirty-fifth street.....	4,506 38
	8,020 43
Flagging, curbing, etc.— East side Tenth avenue, from Twenty-ninth to Thirtieth street....	165,606 37
Nos. 4 and 6 Christopher street.....	\$2,181 24
Nineteenth street, from Avenue A to First avenue.....	155 02
No. 419 Pearl street.....	1,250 47
Delancey street, from Mangin to East street.....	58 84
East side of Columbus avenue, from Ninety-third to Ninety-fourth street.....	2,932 32
Twenty-sixth and Twenty-seventh streets, west of Third avenue....	147 89
South side Eighty-ninth street, from Second to Third avenue.....	90 05
North side Hester street, from Suffolk to Clinton street.....	173 60
Northeast corner Fifth avenue and Eighty-fifth street, etc.....	445 61
North side One Hundred and Second street, from Columbus to Amsterdam avenue.....	343 01
Madison avenue, from One Hundred and Thirty-first to One Hun- dred and Thirty-second street.....	490 00
South side One Hundred and Thirty-second street, from Lenox to Seventh avenue.....	636 47
North side Seventy-eighth street, from Second to Third avenue....	371 16
Thirty-seventh street, from Eighth to Ninth avenue.....	956 23
One Hundred and Thirty-third street, from Lenox to Seventh ave. Northwest corner Mount Morris avenue and One Hundred and Twentieth street.....	115 23
Fifth avenue, from One Hundred and Fourteenth to One Hundred and Fifteenth street.....	459 03
East side Avenue A, from Seventy-third to Seventy-fourth street, etc. Manhattan and St. Nicholas avenues, One Hundred and Twenty- second and One Hundred and Twenty-third streets.....	474 06
Forty-eighth street, from Tenth to Eleventh avenue.....	979 55
Nos. 100 and 110 to 116 West Fifty-seventh street.....	4,615 79
East side Madison avenue, from Ninety-third to One Hundredth st. Madison avenue, from One Hundred and Sixteenth to One Hun- dred and Twentieth street.....	1,006 69
Eight avenue, from One Hundred and Thirty-seventh to One Hundred and Thirty-eighth street.....	280 00
	163 57
	2,082 86
	2,195 67
	299 85

Flagging, curbing, etc.—

North side One Hundred and Fifteenth street, from Third to Lex- ington avenue.....	\$393 24
Sixty-fourth street, from Central Park, West, to Boulevard, etc....	1,271 03
Northwest corner One Hundred and Fifth street and First avenue..	507 56
One Hundred and Sixteenth street, from Madison to Eighth avenue	8,965 02
South side Seventy-fifth street, from Second to Third avenue.....	652 47
Thirty-first, Thirty-second and Thirty-third street, from First ave- nue to East river.....	2,904 14
One Hundred and Tenth street, from First to Second avenue.....	919 31
Nos. 86 and 88 Vandam street.....	129 37
North side One Hundred and Seventy-fifth street, from Kingsbridge road to Eleventh avenue.....	221 73
South side One Hundred and Fourth st., from Madison to Fifth ave.	466 82
West side Seventh avenue, from One Hundred and Thirtieth to One Hundred and Thirty-first street.....	253 95
West side St. Nicholas avenue, from One Hundred and Seventeenth to One Hundred and Nineteenth street.....	926 85
North side One Hundred and Forty-first street, from Edgecombe to St. Nicholas avenue.....	219 72
North side Thirty-fourth street, from Eighth to Ninth avenue.....	1,458 65
South side One Hundred and Forty-first street, from Eighth to Edgecombe avenue.....	207 45
Sixty-fifth street, from Central Park, West, to Columbus avenue..	292 28
One Hundred and Fifteenth street, from Lenox to Fifth avenue....	660 19
One Hundred and Fifteenth street, from Lenox to St. Nicholas ave.	697 03
Ninety-ninth street, from Second to Third avenue.....	823 92
Eighth avenue, from One Hundred and Thirty-third to One Hun- dred and Thirty-fourth street.....	496 74
Madison avenue, from south of One Hundred and Seventh street....	193 33
West side Eighth avenue, from One Hundred and Eleventh to One Hundred and Twelfth street.....	550 26
Southwest corner One Hundred and Seventeenth street and Second avenue.....	495 27
Thirty-fourth street, from Tenth avenue to North river.....	5,863 47
South side One Hundred and Forty-first street, from St. Nicholas to Convent avenue.....	200 22
Eighty-eighth street, from Central Park, West, to Riverside Drive.	4,969 69
Seventy-eighth street, from Amsterdam avenue to Boulevard.....	348 76
Nos. 341 to 345 East One Hundred and Fifth street.....	140 00
East side Tenth avenue, from Thirtieth to Thirty-first street.....	429 66
West side Seventh avenue, from Thirty-sixth to Thirty-seventh street.	1,385 00
West side First avenue, from One Hundred and Fifth to One Hun- dred and Sixth street.....	469 90
Nos. 328 and 330 West Fortieth street.....	106 09
North side Thirty-fifth street, from Eleventh avenue to Hudson river.	2,081 27
North side One Hundred and Third street, from First avenue to 500 feet west.....	491 70
Hancock place, from One Hundred and Twenty-fifth street, etc....	613 83
Columbus avenue, from Sixty-fifth to Seventieth street.....	886 97
Eighth avenue, from One Hundred and Forty-eighth to One Hun- dred and Fifty-fourth street.....	3,512 11
North side Eighty-third street, from Amsterdam avenue to Boulevaad	380 60
Thirty-seventh street, from Tenth to Eleventh avenue.....	2,500 00
Twentieth street, from Ninth to Tenth avenue.....	1,368 24
One Hundred and Thirty-second street, from Broadway to Amster- dam avenue.....	1,228 30
West side Tenth avenue, from Thirtieth to Thirty-first street.....	608 26
	\$74,285 41
Curbing and Flagging— East side Park avenue, from Ninety-sixth to One Hundred and Second street....	1,687 86
Fencing Vacant Lots— East side Park avenue, from Ninety-fifth to Ninety-sixth street....	\$124 18
East side Park avenue, from Ninety-sixth to Ninety-seventh street..	68 36
Ninety-fifth and Ninety-sixth streets, from Lexington to Park avenue	108 01
East side Park avenue, from One Hundred and First and One Hundred and Second streets.....	16 75
Nos. 108 to 140 West One Hundred and Third street.....	47 19
Ninety-seventh street, from Lexington to Park avenue.....	274 26
Nos. 204 and 206 East Ninety-fifth street.....	32 23
South side One Hundred and Forty-fifth street, from St. Nicholas to Edgecombe avenue.....	58 69
Avenue A and First avenue, Ninetieth to Ninety-first street.....	273 16
Hancock place, St. Nicholas and Columbus avenue.....	80 21
North side One Hundred and Fifteenth st., from Fifth to Lenox ave.	117 25
North side Eighty-ninth street, from West End avenue to Riverside drive.....	75 96
Ninety-second and Ninety-third streets, First avenue to Avenue A..	333 18
West side Madison avenue, One Hundred and Fourth to One Hundred and Fifth streets.....	60 33
South side Seventy-seventh street, east of Amsterdam avenue.....	67 02
	1,736 78
Total.....	\$251,903 99
RECAPITULATION.	
1 Contract for retaining-wall.....	\$8,587 57
19 Contracts for regulating, grading, etc.....	165,606 37
67 Contracts for curbing and flagging, etc.....	74,285 41
1 Contract for curbing and flagging.....	1,687 86
15 Contracts for fencing vacant lots.....	1,736 78
103 Contracts.....	Total.....
	\$251,903 99

Statement Showing Works under Contract in Bureau of Street Improvements on the 31st day of December, 1892.

LOCATION OF WORK.	CONTRACTOR.	SURVEYOR.	INSPECTOR.	CONTRACT TIME.	ESTIMATED COST.	AMOUNT EARNED.	AMOUNT RETAINED.	AMOUNT PAID.	REMARKS.
Regulating, Grading, Curbing and Flagging.									
Boulevard, One Hundred and Fifty-sixth to Inwood street.....	R. McLaughlin....	R. L. Waters.....	Leander Buck.....	600 days.	\$244,372 49	\$32,542 00	\$9,762 60	\$22,779 40	
Claremont avenue, One Hundred and Twenty-second to One Hundred and Twenty-seventh street.....	Benj. J. Carr, Jr....	Thomas Slator....	David Simmons....	200 "	17,368 88	18,120 00	5,436 00	12,684 00	
Dyckman street, Hudson river to Exterior street.....	William E. Dean....	R. L. Waters.....	R. V. Davis.....	450 "	128,125 67	42,955 00	12,836 50	30,068 50	
McComb's Dam road, One Hundred and Forty-ninth to One Hundred and Fifty-fifth street.....	Thomas J. Riley....	L. F. Olney.....	James Kearney....	250 "	26,571 80	9,830 00	2,949 00	6,881 00	
Ninety-first street, Avenue A to East river.....	James Slattery....	J. A. Briggs.....	W. J. V. Hart.....	30 "	4,362 60				
Ninety-first streets, Avenue A to East river.....	James Slattery....	W. H. Bostwick..	James L. Brown....	20 "	1,115 42				
One Hundred and Twenty-third street, Tenth avenue to Boulevard.....	M. Fortunato.....	F. E. Towle.....	Bernard Martin....	200 "	10,815 00	10,439 40	3,131 82	7,307 58	
One Hundred and Twenty-fourth street, Boulevard to Amsterdam avenue..	William J. Reilly..	F. E. Towle.....	Sylvester Bennett..	300 "	13,351 34	6,570 00	1,971 00	4,599 00	
One Hundred and Thirtieth street, Boulevard to Amsterdam avenue.....	John J. Hopper....	F. E. Towle.....		150 "	2,220 00				Work not yet commenced.
One Hundred and Thirty-third street, Boulevard to Twelfth avenue.....									Work not yet commenced.
One Hundred and Forty-fourth street, Boulevard to Twelfth avenue.....	John J. Hopper....	George A. Wheeler	Denis O'Connor..	125 days.	7,396 00	1,696 50	508 95	1,187 55	
One Hundred and Forty-fifth street, Boulevard to Twelfth avenue.....	John J. Hopper....	Fred. Reinert....	James H. Lowery..	150 "	7,589 96	4,590 00	1,377 00	3,213 00	
One Hundred and Forty-eighth street, Boulevard to Twelfth avenue.....	Matthew Baird....	F. E. Towle.....	F. G. Fay.....	200 "	13,883 30	8,050 00	2,415 00	5,635 00	
One Hundred and Sixtieth street, Eleventh avenue to Kingsbridge road....	James Flanagan....	J. A. Briggs.....	Theo. Pratt.....	75 "	7,185 50	4,224 00	1,267 20	2,956 80	
One Hundred and Sixty-second street, Eleventh avenue to Kingsbridge road.....	James Leeson.....	F. E. Towle.....	John Lawrence....	100 "	11,413 40	9,685 00	2,905 50	6,779 50	
				Total..	\$495,771 36	\$148,701 90	\$44,610 57	\$104,091 33	

Document "I."
REPORT OF THE SUPERINTENDENT OF STREETS.DEPARTMENT OF PUBLIC WORKS,
BUREAU OF STREETS AND ROADS, No. 31 CHAMBERS STREET, ROOM 12,
NEW YORK, December 15, 1892.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

SIR—In compliance with your directions, I herewith submit a report of the work done by this Bureau during the quarter ending December 31, 1892, and also a summary of the work done during the year, 1892.

Respectfully submitted,

JOHN J. RYAN, Superintendent of Streets.

The following work was done on "Boulevards, Roads and Avenues," during the quarter ending December 31, 1892:

Macadam roadway repaired and resurfaced	7,270 square yards.
Macadam roadway cleaned	129 miles.
Gutters cleaned	306 "
Gutters paved	27 square yards.
Telford laid	31 "
Flagging relaid	80 square feet.
Bridgestone laid	176 "
Curb reset	220 lineal feet.
Gravel spread	293 truck-loads.
Sand spread	55 "
Loam spread	10 "
Gravel piled	222 "
Stone hauled and broken	286 "
Earth, stone, stone screenings and gravel hauled	926 "

In making the above-mentioned repairs there were used of—

Broken stone	999 "
Stone screenings	54 "
Gravel	544 "
Gravel screenings	14 "
Telford	31 "
Paving blocks	17 "
Sand	55 "
Loam	10 "
Earth	407 "
New Bridgestone	176 square feet.
4,552 truck-loads of surplus were removed.	

The following is a summary of the work done during the year ending December 31, 1892:

Macadam roadway repaired and resurfaced	82,054 square yards.
Macadam roadway cleaned	365 miles.
Gutters cleaned	1,285 "
Gutters paved	37 square yards.
Telford laid	89 "
Flagging relaid	80 square feet.
Bridgestone laid	176 "
Curb reset	310 lineal feet.
Gravel spread	314 truck-loads.
Sand spread	55 "
Loam spread	10 "
Gravel piled	222 "
Stone hauled and broken	538 "
Earth, stone, stone screenings and gravel hauled	1,233 "
Stone drain built	60 lineal feet.
Gutters repaired	222 square yards.
Parkway of Western Boulevard graded, mould and bone dust spread and seed sown on	37,698 "
Gravel roadway repaired and resurfaced	7,119 "
Roadway covered with gravel screenings	124,922 "

In making the above-mentioned repairs there were used of—

Broken stone	3,349 truck-loads.
Stone screenings	970 "
Gravel	2,967 "
Gravel screenings	3,522 "
Telford	39 "
Sand	384 "
Earth	757 "
Loam	57 "
Paving blocks	19 "
Mould	593 "
Bone dust	2,024 pounds.
Grass seed	108 bushels.
Bridgestone	176 square feet.
16,138 truck-loads of surplus were removed.	

The crossings were cleaned, snow removed from sidewalks and crossings, and the various streets and avenues regularly and thoroughly sprinkled.

The following work was done on unpaved streets during the quarter ending December 31, 1892:

Roadway regulated and graded and gutters opened	1 mile.
Roadway and gutters cleaned	1 "
Roadway macadamized	4,098 square yards.
Telford laid	3,163 "
Stone broken	148 truck loads.
Flagging relaid	100 square feet.
Gutters cleaned	3 1/2 miles.
Stone hauled	396 truck-loads.
Earth hauled	302 "
Stone used	346 "
Earth used	348 "
Washouts filled	18 "
244 truck-loads of surplus were removed.	

The following is a summary of the work done on unpaved streets during the year ending December 31, 1892:

Roadway regulated and graded and gutters opened	15 miles.
Roadway and gutters cleaned	2 1/2 "
Roadway macadamized	5,648 square yards.
Telford laid	3,163 "
Stone broken	238 truck-loads.
Flagging relaid	176 square feet.
Gutters cleaned	29 miles.
Stone hauled	606 truck-loads.
Earth hauled	689 "
Stone used	608 "
Earth used	2,127 "
Mould used	117 "
Washouts filled	24 "
1,679 truck-loads of surplus were removed.	

The following is a statement of the various appropriations under charge of the Bureau of Streets and Roads:

Boulevards, Roads and Avenues, Maintenance of—General Account, etc.	\$90,000 00
Amount transmitted during the first quarter ending March 31, 1892	11,520 31
Balance, April 1, 1892	\$78,479 69
Amount transmitted during the second quarter ending June 30, 1892	28,843 12
Balance, July 1, 1892	\$49,636 57
Amount transmitted during the third quarter ending September 30, 1892	28,017 11
Balance October 1, 1892	\$21,619 46

Amount transmitted during the fourth quarter ending December 31, 1892, is as follows:

Pay-roll, Laborers, etc., week ending Oct. 1, 1892	\$1,866 25
" " " 8, "	1,791 43
" " " 15, "	1,764 06
" " " 22, "	1,128 49
" " " 29, "	1,193 62
" " Nov. 5, "	1,021 81
" " " 12, "	837 25
" " " 19, "	959 75
" " " 26, "	1,028 25
" " Dec. 3, "	556 25
" " " 10, "	522 00
" " " 17, "	534 00
" " " 24, "	545 25
" " " 31, "	520 50
Gravel and screenings	3,443 90
Coal	33 00
Rent of yard	1,000 00
Stone and screenings	2,193 07
Rubber hose	217 39
Lumber	278 95
Paints	165 06
Hardware	18 00

Balance, December 31, 1892.....\$1 18

Roads, Streets and Avenues Unpaved—Maintenance of, and Sprinkling.....\$30,000 00
Amount transmitted during the first quarter ending March 31, 1892.....1,872 62

Balance, April 1, 1892.....\$28,127 38

Amount transmitted during the second quarter ending June 30, 1892.....3,391 27

Balance, July 1, 1892.....\$24,736 11

Amount transmitted during the fourth quarter ending September 30, 1892.....7,456 01

Balance October 1, 1892.....\$17,280 10

Amount transmitted during the fourth quarter ending December 31, 1892, is as follows:

Pay-roll, Laborers, etc., week ending Oct. 1, 1892	\$533 69
" " " 8, "	515 99
" " " 15, "	500 62
" " " 22, "	1,397 93
" " " 29, "	1,452 43
" " Nov. 5, "	1,374 93
" " " 12, "	1,109 06
" " " 19, "	1,255 12
" " " 26, "	1,297 43
" " Dec. 3, "	1,363 80
" " " 10, "	1,277 93
" " " 17, "	1,318 60
" " " 24, "	1,325 50
" " " 31, "	1,275 25
Lumber	18 60
Rubber hose	78 13
Horse and wagon	270 00
Paints	440 30
Hardware	353 56
Coal	46 00
Iron and steel	74 93

Balance, December 31, 1892.....\$0 30

Boulevards, Roads and Avenues, Maintenance of—Salaries, 1892.....\$2,500 00
Amount transmitted during the first quarter ending March 31, 1892.....624 99

Balance, April 1, 1892.....\$1,875 01

Amount transmitted during the second quarter ending June 30, 1892.....624 99

Balance, July 1, 1892.....\$1,250 02

Amount transmitted during the third quarter ending September 30, 1892.....624 99

Balance, October 1, 1892.....\$625 03

Amount transmitted during the fourth quarter ending December 31, 1892.....624 99

Balance December 31, 1892.....\$0 04

Final Contract, Crosswalks—Street Improvement Fund—Moneys retained on New Crosswalks.....\$2,338 78

The following amount has been drawn against Restoring and Repaving—Special Fund.....\$419 37

The following is the amount received during the quarter ending December 15, 1892, for use of road roller and sprinklers, and deposited to the credit of the General Fund.....\$27 00

Document "K."
REPORT OF THE SUPERINTENDENT OF LAMPS AND GAS.DEPARTMENT OF PUBLIC WORKS—BUREAU OF LAMPS AND GAS,
ROOM 11, No. 31 CHAMBERS STREET,
NEW YORK, December 20, 1892.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

SIR—In compliance with the directions contained in your circular letter of the 7th instant, I herein submit a report of the transactions of the Bureau of Lamps and Gas for the quarter ending December 31, 1892, together with a summary for the year.

In Exhibit "A" will be found a statement showing the amounts on vouchers drawn for a supply of illuminating gas to the various public markets, court-rooms, offices, armories, etc., and for the fitting up, lighting and maintenance of the public lamps.

Exhibit "B" is a summary of the appropriation for "Lamps and Gas and Electric-lighting," and this shows an expenditure on vouchers drawn during the quarter of one hundred and ninety-six thousand seven hundred and ninety-seven dollars and twelve cents (\$196,797.12), with liabilities, for lighting the public lamps, etc., for the month of December, amounting to seventy-three thousand and eighty-six dollars and sixty-seven cents (\$73,086.67), which will make a total expenditure for the year of eight hundred and one thousand five hundred and seventy-eight dollars and fifty-six cents (\$801,578.56), leaving a surplus balance of three thousand three hundred and twenty-one dollars and forty-four cents (\$3,321.44).

Exhibit "C" is a summary of the appropriation for "Salaries—Lamps and Gas and Electric Lighting," and this shows an expenditure during the quarter of one thousand six hundred and twenty-four dollars and ninety-five cents (\$1,624.95), and for the year of six thousand three hundred and sixty-eight dollars and five cents (\$6,368.05), leaving a balance of one hundred and thirty-one dollars and ninety-five cents (\$131.95).

Exhibit "D" is a summary of the "Lamp Account," showing the number of new lamps lighted, old lamps relighted and lamps discontinued by each gas and electric-light company during the quarter and the year; three hundred and forty-nine new gas lamps and one hundred and twenty-seven new electric lamps having been lighted; fifty-six gas lamps relighted, five hundred and twenty-eight gas lamps and seventeen electric lamps discontinued during the quarter; and eight hundred and fifteen new gas lamps, eighteen new naphtha lamps, and two hundred and ninety-four new electric lamps have been lighted, two hundred and forty-six gas lamps and sixty-two electric lamps relighted, and sixteen hundred and twenty gas lamps, six naphtha lamps and twenty electric lamps discontinued during the year. The total number of public lamps to be lighted on December 31, 1892, will be twenty-seven thousand five hundred and twenty-four gas,

New gas-mains have been laid by the several gas-light companies during the year, as follows :

The total miles of gas-mains in the streets of this city on December 31, 1892, is—

The Northern Gas-light Company supplies gas to that part of the Twenty-fourth Ward formerly Town of West Farms, and lights all the public lamps therein. It manufactures coal-gas at its works, on the Bronx river, and its office is at No. 1845 Vanderbilt avenue. The capital is \$125,000 and the capacity of its works is 250,000 cubic feet per day.

Total=

Total	368
-------------	-----

Brush Electric Illuminating Company.....	299 lamps, at 40 cents per night.
	72 " 45 "
	17 " 50 "
Total.....	343
Thomson-Houston Electric-light Company.....	277 lamps, at 40 cents per night.
	45 " 50 "
Total.....	322
Mount Morris Electric-light Company.....	314 lamps, at 40 cents per night.
Harlem Lighting Company.....	194 lamps, at 40 cents per night.
	19 " 50 "
Total.....	213
Edison Electric Illuminating Company.....	*57 lamp-posts, at 50 cents each.
Manhattan Electric-light Company.....	52 lamps, at 40 cents per night.
	17 " 50 "
Total.....	69
North River Electric-light and Power Company, Twenty-third and Twenty-fourth Wards.....	633 lamps, at 47 cents per night.
* On Fifth avenue, two lamps on each lamp-post.	

The following statement will show the average amount of impurities found in the gases of such of the companies as have mains on the lines of our photometric stations, as determined by the analysis of Dr. E. G. Love, our Gas Examiner, in the laboratories of this Bureau.

OF WHAT GAS COMPANY.	SULPHUR. (Grains in 100 Cubic Feet).				AMMONIA. (Grains in 100 Cubic Feet).				SULPHURETTED HYDROGEN.
	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	
Consolidated Gas Co., Twenty-first Street Station.....	4.23	5.18	5.03	4.21	5.93	2.02	3.14	0.44	None.
Consolidated Gas Co., Fourteenth and Eighteenth Street Stations.....	15.27	8.17	10.16	9.23	1.30	6.63	5.04	0.75	"
Consolidated Gas Co., Forty-fourth Street Station.....	5.51	5.19	5.24	3.86	0.95	1.31	1.06	0.23	"
Consolidated Gas Co., Forty-second Street Station.....	13.91	19.53	16.80	10.61	6.91	11.03	8.38	3.66	"
Consolidated Gas Co., One Hundred and Eleventh Street Station.....	4.48	5.90	4.94	5.33	0.29	0.50	0.48	0.63	Trace.
New York Mutual Gas-light Co.....	6.37	4.21	5.25	6.63	0.50	0.34	0.40	Trace.	"
Equitable Gas-light Co.....	6.89	6.56	6.36	6.07	0.35	0.13	0.24	0.08	None.
Standard Gas-light Co.....	6.50	7.13	6.88	5.96	Trace.	Trace.	Trace.	Trace.	"

The following shows the specific gravity of the gases:

OF WHAT GAS COMPANY.	FIRST QUARTER.	SECOND QUARTER.	THIRD QUARTER.	FOURTH QUARTER.
Consolidated Gas Co., Twenty-first Street Station.....	.630	.576	.605	.627
Consolidated Gas Co., Fourteenth and Eighteenth Street Stations.....	.516	.502	.495	.512
Consolidated Gas Co., Forty-fourth Street Station.....	.675	.658	.655	.663
Consolidated Gas Co., Forty-second Street Station.....	.559	.498	.497	.534
Consolidated Gas Co., Ninety-ninth and One Hundred and Eleventh Street Stations.....	.588	.653	.610	.606
New York Mutual Gas-light Co.....	.746	.732	.715	.731
Equitable Gas-light Co.....	.708	.720	.682	.694
Standard Gas-light Co.....	.680	.690	.680	.684

The gases manufactured by the several companies are of the following kinds:
Consolidated Gas Company, Twenty-first Street Station, water-gas, "Tessie du Motay" process.
Consolidated Gas Company, Fourteenth and Eighteenth Street Stations, coal-gas.
Consolidated Gas Company, Forty-fourth Street Station, water-gas, "Tessie du Motay" process.
Consolidated Gas Company, Forty-second Street Station, coal-gas.
Consolidated Gas Company, Ninety-ninth Street Station, water-gas, "Tessie du Motay" process.
Consolidated Gas Company, One Hundred and Eleventh Street Station, coal-gas.
New York Mutual Gas-light Company, water-gas, "Wilkinson's" process.
Equitable Gas-light Company, water-gas, "Jerzmanowski" process.
Standard Gas-light Company, water-gas, "Flannery" process.
Central Gas-light Company, coal-gas.
Northern Gas-light Company, coal-gas.
Yonkers Gas-light Company, water-gas, "Saulsbury" process.

The following statement will show the average maximum and minimum pressure on the mains of each of the gas companies as connect with our photometric stations, as recorded on the pressure registers during the year, the average being made for the time during which the public lamps are required to be kept lighted:

OF WHAT GAS COMPANY.	AVERAGE MAXIMUM PRESSURE.				AVERAGE MINIMUM PRESSURE.			
	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.
Consolidated Gas Company, Twenty-first Street Station.....	Inches. 2.39	Inches. 2.19	Inches. 2.06	Inches. 2.33	Inches. 1.93	Inches. 2.04	Inches. 1.98	Inches. 2.06
Consolidated Gas Company, Fourteenth and Eighteenth Street Stations.....	3.61	3.33	2.40	3.22	1.52	1.59	1.52	1.55
Consolidated Gas Company, Forty-fourth Street Station.....	3.45	3.29	2.66	3.15	1.66	1.83	1.75	1.50
Consolidated Gas Company, Forty-second Street Station.....	1.78	1.80	2.07	1.91	.93	.89	1.07	1.06
Consolidated Gas Company, One Hundred and Eleventh Street Station.....	2.89	2.76	2.69	2.60	1.59	1.54	1.39	1.41
New York Mutual Gas-light Company.....	3.18	3.28	3.11	3.33	2.14	2.29	2.04	2.01
Equitable Gas-light Company.....	3.76	3.66	3.30	3.41	1.70	1.90	1.92	1.48
Standard Gas-light Company.....	1.78	1.93	1.98	2.52	1.72	1.83	1.79	1.83

In addition to the contracts with the several gas and electric-light companies for lighting and maintaining the public street lamps, and with the Consolidated and Equitable Gas-light Companies for supplying illuminating gas to the public buildings, all of which will expire on the 31st instant; contracts have been executed and completed during the year with M. J. Drummond for 1,000 cast-iron lamp-posts (average weight, 350 pounds each), at 01.10 cents per pound; with the E. P. Gleason Manufacturing Company, for 2,500 streets lamps, at 2.19 cents each; with the Bartlett Lamp Manufacturing Company, for 400 Boulevard lamps, at \$4.75 each, and 1,500 additional

globes, at \$1.80 each, and with Cavanagh and Thompson, for 10,000 glass street-signs, at 17.10 cents each.

The approaches to the footwalks on the New York City and Northern Railroad Bridge over the Harlem river, having been constructed by the Department of Public Parks, lamps were erected and lighted on the same on November 2.

In consequence of the destruction by fire of the platform and stairs leading from One Hundred and Fifty-fifth street and Bradhurst avenue to Edgecombe avenue, the Chief Engineer ordered the opening of the new One Hundred and Fifty-fifth Street Viaduct, which is now in course of construction, and that part of the Viaduct lying between Eighth avenue and Edgecombe avenue was lighted on November 29.

In October last, 51 ornamental iron lamp-posts were erected by the Edison Electric Illuminating Company in Fifth avenue, from Waverley place to Fifty-eighth street, each lamp-post containing two lamps lighted by the Edison or low-tension system; and the old and unsightly wooden lamp-posts and poles with over-head wires were removed by the Brush Electric Illuminating Company.

The Edison lamps, although presenting a very neat appearance, do not furnish the amount of light which was expected of them.

Yours, respectfully,

S. McCORMICK, Superintendent of Lamps and Gas.

EXHIBIT "A."

Statement Showing the Amounts on Vouchers Drawn for Gas to the various Public Markets, Offices, etc., and for Fitting-up, Repairing, Lighting, etc., the Public Lamps, for the First, Second, Third and Fourth Quarters of the Year 1892, with the Totals for the whole Year.

	FIRST QUARTER ENDING MARCH 31.	SECOND QUARTER ENDING JUNE 30.	THIRD QUARTER ENDING SEPT. 30.	FOURTH QUARTER ENDING DEC. 31.	TOTAL.
Washington Market.....	\$1,136 24	\$844 87	\$929 87	\$762 12	\$3,673 10
Catharine County Market.....	54 50	41 00	34 62	23 37	153 49
Catharine Meat Market.....	4 12	19 75	21 25	19 01	64 13
Fulton Meat Market.....	384 88	314 87	237 25	202 87	1,139 87
Fulton County Market.....	590 75	493 75	438 88	381 37	1,904 75
Essex Market.....	32 75	23 75	20 00	15 25	91 75
Centre Market.....	144 88	110 00	101 62	82 38	438 88
Clinton Market.....	292 88	227 87	200 88	170 62	892 25
Union Market.....	12 50	13 25	17 12	25 13	68 01
Tompkins Market.....	202 75	195 75	174 25	139 00	711 75
Jefferson Market.....	212 50	78 00	54 75	101 00	446 25
First District Police Court.....	389 49	358 25	269 50	190 50	1,216 74
Second District Police Court.....	139 50	84 00	36 75	64 25	344 50
Third District Police Court.....	75 50	53 25	40 13	48 00	216 88
Fourth District Police Court.....	140 75	109 00	73 50	75 75	399 00
Fifth District Police Court.....	90 63	11 37	1 76	26 25	130 01
First District Civil Court.....	21 24	3 12	37	5 13	29 86
Second District Civil Court.....	9 76	8 38	6 99	5 49	30 62
Fourth District Civil Court.....	19 25	14 25	4 75	8 75	47 00
Fifth District Civil Court.....	52 25	30 00	20 50	28 00	130 75
Sixth District Civil Court.....	13 50	7 00	6 00	8 25	34 75
Eighth District Civil Court.....	12 00	9 25	6 75	7 00	35 00
Ninth District Civil Court.....	12 25	87	1 13	3 01	17 26
Court of Special Sessions.....	87 50	54 62	42 37	39 50	223 99
Brown Stone (Court Room) Building.....	293 25	207 75	151 12	149 25	801 37
New Court-house.....	1,650 13	1,620 51	1,511 62	1,030 00	5,812 26
City Hall.....	537 50	482 99	470 38	340 87	1,831 74
Corporation Counsel's Office.....	53 12	24 75	12 75	21 13	111 75
Corporation Attorney.....	51 38	33 00	9 63	29 63	123 64
Public Administrator.....	17 00	8 50	3 00	4 74	33 24
Board of Assessors.....	9 62	7 87	5 86	6 75	30 10
Department of Public Works.....	407 99	302 13	246 63	222 76	1,179 51
Department of Taxes.....	6 88	1 75	1 00	3 25	12 88
City Record Book Bindery.....	6 25	6 25	3 50	3 62	19 62
Register's Office.....	146 38	93 75	72 63	66 50	379 26
County Jail.....	389 75	289 75	246 75	231 00	1,157 25
Pipe Yard, Rivington street.....	6 74	3 75	3 12	2 88	16 49
Pipe Yard, East Twenty-fourth street.....	12 88	10 38	9 00	7 75	40 01
Tool-shop, Mulberry street.....	2 26	4 25	5 26	3 50	15 27
Water Purveyor, West Thirtieth street.....	15 50	8 00	4 00	7 25	34 75
Water Purveyor, East Eighty-seventh street.....	7 25	5 13	5 75	5 75	23 88
Water Purveyor, East One Hundred and Twenty-fifth street.....	14 50	10 74	8 87	9 00	43 11
Water Purveyor, No. 3351 Third avenue.....	.....	21 60	4 00	.....	25 60
South Gate-house, Central Park.....	73 87	66 38	68 62	53 63	262 50
Engine-house, High Bridge.....	171 63	116 75	116 26	77 49	482 13
Engine-house, West Ninety-eighth street.....	240 38	283 24	310 25	178 50	1,012 37
Clock Tower, Third District Court.....	293 50	342 25	318 00	224 25	1,208 00
New York City Civil Service Board.....	15 50	4 13	1 26	3 25	24 14
Bureau of Streets and Roads, West One Hundred and Nineteenth street.....	9 00	4 50	3 75	4 37	21 62
Bureau of Incumbrances, East Sixteenth street.....	8 25	4 00	3 37	.....	15 62
Dog Pound, East One Hundred and Second street.....	5 25	4 50	5 50	.....	15 25
Photometer room, Grand street.....	20 62	9 63	2 00	.....	32 25
Photometer room, East Seventy-ninth street.....	14 00	15 51	50	.....	30 01
Chief Engineer of Croton Aqueduct, High Bridge.....	.....	16 96	3 68	.....	20 64
Commissioner of Street Improvements, Twenty-third and Twenty-fourth Wards.....	.....	136 64	32 64	.....	169 28
Seventh Regiment Armory.....	1,401 38	845 75	301 25	960 25	3,508 63
Eighth Regiment Armory.....	1,194 25	784 63	515 38	550 99	3,045 25
Ninth Regiment Armory.....	527 25	323 00	133 25	235 25	1,218 75
Twelfth Regiment Armory.....	706 00	463 00	316 75	431 50	1,917 25
Twenty-second Regiment Armory.....	1,577 37	886 75	321 62	680 25	3,465 99
Sixty-ninth Regiment Armory.....	213 25	217 25	115 75	136 50	682 75
Seventy-first Regiment Armory.....	222 75	247 87	113 75	249 38	893 75

	FIRST QUARTER ENDING MARCH 31.	SECOND QUARTER ENDING JUNE 30.	THIRD QUARTER ENDING SEPT. 30.	FOURTH QUARTER ENDING DEC. 31.	TOTAL.	Amount of vouchers drawn in third quarter	\$198,168 37
						Amount of vouchers drawn in fourth quarter	196,797 12
						Total amount of vouchers drawn to December 15, 1892	\$728,491 89
						Balance available	\$76,408 11
LIABILITIES.							
Troop "A" Armory	\$152 50	\$117 38	\$58 25	\$99 50	\$427 63	Electric-light companies, lighting electric lamps, month of December ..	\$19,684 05
First Battery Armory	178 75	112 50	82 50	96 50	470 25	Gas companies, lighting public lamps, month of December	42,301 25
Second Battery Armory	160 00	84 75	38 00	74 75	357 50	Pay-roll of Skilled Laborers	165 00
Public Bath, Battery		5 12	29 50	3 75	38 37	Wellington Manufacturing Company, repairing street lamps	292 80
Public Bath, Duane street, North river		1 50	22 00		23 50	Wellington Manufacturing Company, relettering metal street signs ..	296 00
Public Bath, Horatio street, North river		2 37	25 01		27 38	Rents of photometric stations	240 00
Public Bath, Market street, East river		2 38	27 63		30 01	Pay-roll of Lamp-lighters, month of December	100 00
Public Bath, Grand street, East river		1 50	9 12		10 62	Bartlett Lamp Manufacturing Company, Boulevard lamps	1,528 75
Public Bath, East Fifth street, East river		3 87	19 12	1 50	24 49	Bartlett Lamp Manufacturing Company, green globes	84 00
Public Bath, East Eighteenth street, East river ..		3 38	43 37		46 75	Composite Iron Works, Boulevard lamp-posts	141 90
Public Bath, Twenty-eighth street, East river ..		1 25	19 88		21 13	J. L. Mott Iron Works, cast-iron crossheads	216 00
Public Bath, Twenty-eighth street, North river ..			22 37		22 37	J. L. Mott Iron Works, lamp-post bases	150 55
Public Bath, Fiftieth street, North river		4 62	30 13	2 00	36 75	E. P. Gleason Manufacturing Company, new street-lamps	1,138 80
Public Bath, Fifty-first street, East river		3 63	26 00		29 63	E. P. Gleason Manufacturing Company, lettered ruby glass	93 75
Public Bath, Ninetieth street, East river			25 12	13	25 25	E. P. Gleason Manufacturing Company, fire-alarm lamps	82 50
Public Bath, One Hundred and Twelfth street, } East river		88	22 13	2 12	25 13	Cavanagh & Thompson, glass street signs	261 20
Public Bath, One Hundred and Thirty-eighth } street, East river			39 52		39 52	Consolidated Gas Company, gas to public buildings	3,873 50
Lighting public markets (pay-roll)	756 00	789 00	828 00	597 50	2,970 50	Equitable Gas-light Company, gas to public buildings	1,804 07
Cleaning photometer room (pay-roll)	15 00	15 00	15 00	10 00	55 00	Central Gas-light Company, gas to public offices	123 04
Gas examinations	443 50	467 00	467 00	306 00	1,683 50	Northern Gas-light Company, gas to public offices	18 56
Repairing gas holder, Madison Avenue Bridge ..			526 72		526 72	Standard Gas-light Company, gas to photometric station	5 88
Cartages	375 00	255 00	721 00	343 00	1,694 00	New York Mutual Gas-light Company, gas to photometric station ..	2 00
Rent of photometric room, Grand street	150 00	150 00	150 00		450 00	Birdsell's Express, cartage	182 00
Rent of photometric room, East Seventy-ninth } street	90 00	90 00	90 00		270 00	E. G. Love, gas examinations	157 00
New lamp-posts		5,041 37	2,082 96	13 80	7,138 13	S. McCormick, traveling expenses	73 75
New lamp-posts (wood)				39 72	39 72	Edison Electric Illuminating Company, incandescent lighting in City Hall	70 32
New street-lamps	170 50	913 80	2,141 50	1,856 40	5,082 20		73,086 67
New Boulevard lamps	618 75	324 00	1,053 00	1,075 50	3,071 25	Surplus balance	\$3,321 44
New crossheads		432 00			432 00		
New lamp irons	84 00	501 00		167 00	752 00		
New lamp brackets		10 00			10 00		
New street signs	75 00	159 66	747 22	605 92	1,587 80		
Lettering Boulevard globes		90 00	75 00	90 00	255 00		
Supplies for photometer stations	130 24	60 00		61 70	251 94		
Drawing materials		24 12		26 36	50 48		
Glass				87 50	87 50		
Repairing candelabra				65 00	65 00		
Repairing lamps, etc.	108 90	81 25		34 23	224 38		
Repairing metal street signs	174 75	75 00	114 00	75 00	438 75		
Repairing gas holder, Third avenue, Harlem } Bridge	290 00				290 00		
Gas governors	560 00	100 00			660 00		
Fitting up new lamps	76 00	1,124 00	1,006 00	1,156 00	3,362 00		
Fitting up new lamps, Twenty-third and } Twenty-fourth Wards	56 00	448 00	552 00	736 00	1,792 00		
Resetting and repairing lamp-posts	1,522 00	5,486 00	5,474 00	4,619 00	17,101 00		
Resetting and repairing lamp-posts, Twenty- } third and Twenty-fourth Wards	291 50	826 00	750 50	842 00	2,710 00		
Lighting public gas lamps	56,969 40	85,028 74	85,240 71	85,463 08	312,701 93		
Lighting public gas lamps, Twenty-third and } Twenty-fourth Wards	24,660 42	36,887 22	35,063 43	33,884 06	130,495 13		
Lighting public electric lamps	26,008 95	41,069 50	41,072 10	42,223 10	150,373 65		
Lighting public electric lamps, Twenty-third and } Twenty-fourth Wards	4,454 55	7,168 95	10,315 35	12,930 75	34,869 60		
Lighting public naphtha lamps	513 32	792 70	836 01	836 01	2,978 04		
Lighting incandescent lamps		130 11	77 78		207 89		
Total	\$133,620 03	\$199,906 37	\$198,168 37	\$196,797 12	\$728,491 89		

RECAPITULATION.

	FIRST QUARTER ENDING MARCH 31.	SECOND QUARTER ENDING JUNE 30.	THIRD QUARTER ENDING SEPT. 30.	FOURTH QUARTER ENDING DEC. 31.	TOTAL.
Gas to public offices, etc.	\$15,026 25	\$11,366 95	\$8,769 09	\$8,652 49	\$43,814 78
Supplies to public lamps, etc.	4,041 64	9,578 20	9,011 40	5,454 63	28,085 87
Fitting up new lamps	76 00	1,124 00	1,006 00	1,156 00	3,362 00
Fitting up new lamps, Twenty-third and } fourth Wards	56 00	448 00	552 00	736 00	1,792 00
Resetting and repairing lamp-posts	1,522 00	5,486 00	5,474 00	4,619 00	17,101 00
Resetting and repairing lamp-posts, Twenty- } third and Twenty-fourth Wards	291 50	826 00	750 50	842 00	2,710 00
Lighting public gas lamps	56,969 40	85,028 74	85,240 71	85,463 08	312,701 93
Lighting public gas lamps, Twenty-third and } Twenty-fourth Wards	24,660 42	36,887 22	35,063 43	33,884 06	130,495 13
Lighting public electric lamps	26,008 95	41,069 50	41,072 10	42,223 10	150,373 65
Lighting public electric lamps, Twenty-third } and Twenty-fourth Wards	4,454 55	7,168 95	10,315 35	12,930 75	34,869 60
Lighting public naphtha lamps	513 32	792 70	836 01	836 01	2,978 04
Lighting incandescent lamps		130 11	77 78		207 89
Total	\$133,620 03	\$199,906 37	\$198,168 37	\$196,797 12	\$728,491 89

EXHIBIT "B."

Summary of the Appropriation for "Lamps and Gas and Electric Lighting," for the Year 1892, Showing the Amounts of Vouchers Drawn during Each of the Four Quarters of the Year, with the Estimated Liabilities and the Estimated Surplus Balance.

Amount of the appropriation for "Lamps and Gas and Electric Lighting" for the year 1892	\$804,900 00
Amount of vouchers drawn in first quarter	\$133,620 03
Amount of vouchers drawn in second quarter	199,906 37

EXHIBIT "C."

Summary of the Appropriation for "Lamps and Gas and Electric Lighting—Salaries," for Year ending 1892, Showing the Amount of Vouchers Drawn during each of the Four Quarters of the Year, with the Estimated Surplus Balance.

Amount of appropriation for "Lamps and Gas and Electric Lighting" for the year 1892	\$6,500 00
Amount of vouchers drawn in first quarter	\$1,624 95
Amount of vouchers drawn in second quarter	1,493 23
Amount of vouchers drawn in third quarter	1,624 95
Amount of vouchers drawn in fourth quarter	1,083 30
Add December pay-roll	541 65
Total expenditure for the year	6,368 05
Balance	\$131 95

EXHIBIT "D."

Summary of the "Lamp Account," Showing the Number of New Lamps Lighted, Old Lamps Relighted and Lamps Discontinued by each Gas and Electric Light Company during the Quarter ending December 31, 1892.

CONSOLIDATED GAS COMPANY, BRANCH 1.			
Number of lamps lighted, September 30, 1892	2,963		
Number of new lamps lighted during the quarter	13		
Number of old lamps relighted during the quarter ..	5	2,981	
Less lamps discontinued during the quarter	3		
Number of lamps lighted December 31, 1892			2,978
CONSOLIDATED GAS COMPANY, BRANCH 2.			
Number of lamps lighted September 30, 1892	1,345		
Number of new lamps lighted during the quarter ..	1		
Number of old lamps relighted during the quarter ..	3	1,349	
Less lamps discontinued during the quarter	8		
Less lamps discontinued during the quarter on account of electric lights	12	20	
Number of lamps lighted December 31, 1892			1,329
CONSOLIDATED GAS COMPANY, BRANCH 3.			
Number of lamps lighted September 30, 1892	1,488		
Number of new lamps lighted during the quarter ..	0		
Number of old lamps relighted during the quarter ..	2	1,490	
Number of lamps discontinued during the quarter ..	0		
Number of lamps discontinued during the quarter on account of electric lights	37	37	
Number of lamps lighted December 31, 1892			1,453
CONSOLIDATED GAS COMPANY, BRANCH 4.			
Number of lamps lighted September 30, 1892	3,241		
Number of new lamps lighted during the quarter ..	55		
Number of old lamps relighted during the quarter ..	11	3,307	
Less lamps discontinued during the quarter	6		
Less lamps discontinued on account of electric lights	32	38	
Number of lamps lighted December 31, 1892			3,269
CONSOLIDATED GAS COMPANY, BRANCH 6.			
Number of lamps lighted September 30, 1892	5,201		
Number of new lamps lighted during the quarter ..	148		
Number of old lamps relighted during the quarter ..	5	5,354	
Number of lamps discontinued during the quarter ..		22	
Number of lamps lighted December 31, 1892			5,332
Total number of lamps lighted by Consolidated Gas Co.			14,361

EQUITABLE GAS-LIGHT COMPANY.				EAST RIVER ELECTRIC-LIGHT COMPANY.			
Number of lamps lighted September 30, 1892.....	4,495			Number of lamps lighted September 30, 1892.....	198		
Number of new lamps lighted during the quarter.....	0			Number of new lamps lighted during the quarter.....	16		
Number of old lamps relighted during the quarter.....	3	4,498		Number of old lamps relighted during the quarter.....	0	214	
Number of lamps discontinued during the quarter.....	2			Number of lamps discontinued during the quarter.....	1		
Number of lamps discontinued on account of electric lights.....	11	13		Number of lamps lighted December 31, 1892.....			213
Number of lamps lighted December 31, 1892.....			4,485				
STANDARD GAS-LIGHT COMPANY, MADISON SQUARE BRANCH.				MOUNT MORRIS ELECTRIC-LIGHT COMPANY.			
Number of lamps lighted September 30, 1892.....	1,274			Number of lamps lighted September 30, 1892.....	154		
Number of new lamps lighted during the quarter.....	1			Number of new lamps lighted during the quarter.....	0		
Number of old lamps relighted during the quarter.....	0	1,275		Number of old lamps relighted during the quarter.....	0	154	
Number of lamps discontinued during the quarter.....	1			Number of lamps discontinued during the quarter.....	0	0	
Number of lamps discontinued on account of electric lights.....	24	25		Number of lamps lighted December 31, 1892.....			154
Number of lamps lighted December 31, 1892.....		1,250					
STANDARD GAS-LIGHT COMPANY, HARLEM BRANCH.				HARLEM LIGHTING COMPANY.			
Number of lamps lighted September 30, 1892.....	1,493			Number of lamps lighted September 30, 1892.....	192		
Number of new lamps lighted during the quarter.....	3			Number of new lamps lighted during the quarter.....	0		
Number of old lamps relighted during the quarter.....	1	1,497		Number of old lamps relighted during the quarter.....	0	192	
Number of lamps discontinued during the quarter.....	0			Number of lamps discontinued during the quarter.....	0	0	
Number of lamps lighted December 31, 1892.....		1,497		Number of lamps lighted December 31, 1892.....			192
Total number of lamps of Standard Gas-light Co., December 31, 1892..			2,747				
NEW YORK MUTUAL GAS-LIGHT COMPANY.				NORTH RIVER ELECTRIC-LIGHT AND POWER COMPANY.			
Number of lamps lighted September 30, 1892.....	195			Number of lamps lighted September 30, 1892.....	306		
Number of new lamps lighted during the quarter.....	0			Number of new lamps lighted during the quarter.....	60		
Number of old lamps relighted during the quarter.....	0	195		Number of old lamps relighted during the quarter.....	0	366	
Number of lamps discontinued during the quarter.....	0			Number of lamps discontinued during the quarter.....	0	0	
Number of lamps discontinued on account of electric lights.....	66	66		Number of lamps lighted December 31, 1892.....			366
Number of lamps lighted December 31, 1892.....			129				
CENTRAL GAS-LIGHT COMPANY.				EDISON ELECTRIC ILLUMINATING COMPANY.			
Number of lamps lighted September 30, 1892.....	1,832			Number of lamps lighted September 30, 1892.....	0		
Number of new lamps lighted during the quarter.....	36			Number of new lamps lighted during the quarter.....	51		
Number of old lamps relighted during the quarter.....	16	1,884		Number of old lamps relighted during the quarter.....	0	51	
Number of lamps discontinued during the quarter.....	13			Number of lamps discontinued during the quarter.....	0	0	
Number of lamps discontinued on account of electric lights.....	148	161		Number of lamps lighted December 31, 1892.....			51
Number of lamps lighted December 31, 1892.....			1,733	Total number of electric lamps lighted December 31, 1892.....			1,535
NORTHERN GAS-LIGHT COMPANY.				RECAPITULATION FOR THE QUARTER.			
Number of lamps lighted September 30, 1892.....	2,474			Number of gas lamps lighted September 30, 1892.....	26,647		
Number of new lamps lighted during the quarter.....	92			Number of naphtha lamps lighted September 30, 1892.....	152		
Number of old lamps relighted during the quarter.....	10	2,576		Number of electric lamps lighted September 30, 1892.....	1,425		
Number of lamps discontinued during the quarter.....	1			Total number of lamps lighted September 30, 1892.....		28,224	
Number of lamps discontinued on account of electric lights.....	142	143		Number of new gas lamps lighted during the quarter.....	349		
Number of lamps lighted December 31, 1892.....			2,433	Number of new naphtha lamps lighted during the quarter.....	0		
YONKERS GAS-LIGHT COMPANY.				Number of new electric lamps lighted during the quarter.....	127	476	
Number of lamps lighted September 30, 1892.....	646			Number of old gas lamps relighted during the quarter.....	56		
Number of new lamps lighted during the quarter.....	0			Number of old naphtha lamps relighted during the quarter.....	0		
Number of old lamps relighted during the quarter.....	0	646		Number of old electric lamps relighted during the quarter.....	0	56	
Number of lamps discontinued during the quarter.....	0			Less gas lamps discontinued.....	56	28,756	
Number of lamps lighted December 31, 1892.....			646	Less gas lamps discontinued on account of electric lamps.....	472		
Total number of gas lamps lighted December 31, 1892.....			26,524	Less naphtha lamps discontinued.....	0		
NAPHTHA LAMPS.				Less electric lamps discontinued.....	17	545	
NEW YORK AND NEW JERSEY GLOBE GAS-LIGHT COMPANY.				Number of lamps lighted December 31, 1892.....			28,211
Number of lamps lighted September 30, 1892.....	152						
Number of new lamps lighted during the quarter.....	0			Summary of the "Lamp Account" for the Year 1892.			
Number of old lamps relighted during the quarter.....	0	152		CONSOLIDATED GAS COMPANY, BRANCH 1.			
Number of lamps discontinued during the quarter.....	0			Number of lamps lighted December 31, 1891.....	3,032		
Total number of naphtha lamps lighted December 31, 1892.....			152	Number of new lamps lighted during the year 1892.....	21		
ELECTRIC LAMPS.				Number of old lamps relighted during the year.....	15	3,068	
UNITED STATES ILLUMINATING COMPANY.				Less lamps discontinued during the year.....	10		
Number of lamps lighted September 30, 1892.....	311			Less lamps discontinued during the year on account of electric lights.....	55		
Number of new lamps lighted during the quarter.....	0			Less lamps transferred to Equitable Gas-light Co.....	25	90	
Number of old lamps relighted during the quarter.....	0	311		Number of lamps lighted December 31, 1892.....			2,978
Number of lamps discontinued during the quarter.....	0						
Number of lamps lighted December 31, 1892.....			311	CONSOLIDATED GAS COMPANY, BRANCH 2.			
THE BRUSH ELECTRIC ILLUMINATING COMPANY.				Number of lamps lighted December 31, 1891.....	1,618		
Number of lamps lighted September 30, 1892.....	264			Number of new lamps lighted during the year.....	19		
Number of new lamps lighted during the quarter.....	0			Number of old lamps relighted during the year.....	16	1,653	
Number of old lamps relighted during the quarter.....	0	264		Less lamps discontinued during the year.....	23		
Number of lamps discontinued during the quarter.....	16			Less lamps transferred to Equitable Gas-light Co.....	252		
Number of lamps lighted December 31, 1892.....			248	Less lamps discontinued on account of electric lamps.....	49	324	
				Number of lamps lighted December 31, 1892.....			1,329
				CONSOLIDATED GAS COMPANY, BRANCH 3.			
				Number of lamps lighted December 31, 1891.....	1,700		
				Number of new lamps lighted during the year 1892.....	31		
				Number of old lamps relighted during the year.....	7		
				Number of lamps transferred from the New York Mutual Gas-light Co.....	6	1,744	

Less lamps discontinued during the year.....	12			Less lamps discontinued during the year.....	18		
Less lamps discontinued on account of electric lights.....	37			Less lamps discontinued on account of electric lights.....	271	289	
Less lamps transferred to Equitable Gas-light Co.....	42						
Less lamps transferred to Standard Gas-light Co.....	200			Number of lamps lighted December 31, 1892.....			2,433
		291					
Number of lamps lighted December 31, 1892.....			1,453				
CONSOLIDATED GAS COMPANY, BRANCH 4.				YONKERS GAS-LIGHT COMPANY.			
Number of lamps lighted December 31, 1891.....	3,245			Number of lamps lighted December 31, 1891.....	618		
Number of new lamps lighted during the year 1892.....	85			Number of new lamps lighted during the year 1892.....	28		
Number of old lamps relighted during the year.....	32			Number of old lamps relighted during the year.....	0	646	
Less lamps discontinued during the year.....	30	3,362		Less lamps discontinued during the year.....	0		
Less lamps discontinued on account of electric lights.....	29			Number of lamps lighted December 31, 1892.....			646
Less lamps transferred to Equitable Gas-light Co.....	30			Total number of gas-lamps lighted December 31, 1892.....			26,524
Less lamps transferred to Standard Gas-light Co.....	5						
		94		NAPHTHA LAMPS.			
Number of lamps lighted December 31, 1892.....			3,269	NEW YORK AND NEW JERSEY GLOBE GAS-LIGHT COMPANY.			
CONSOLIDATED GAS COMPANY, BRANCH 6.				Number of lamps lighted December 31, 1891.....	140		
Number of lamps lighted December 31, 1891.....	5,096			Number of new lamps lighted during the year 1892.....	18		
Number of new lamps lighted during the year 1892.....	337			Number of old lamps relighted during the year.....	0	158	
Number of old lamps relighted during the year.....	47			Less lamps discontinued during the year.....	6		
Number of lamps transferred from the Standard Gas-light Co.....	1			Total number of lamps lighted December 31, 1892.....			152
Less lamps discontinued during the year.....	76	5,481					
Less lamps discontinued on account of electric lights.....	60			ELECTRIC LAMPS.			
Less lamps transferred to Standard Gas-light Co.....	13			UNITED STATES ILLUMINATING COMPANY.			
		149		Number of lamps lighted December 31, 1891.....	294		
Number of lamps lighted December 31, 1892.....			5,332	Number of new lamps lighted during the year 1892.....	4		
Total number of lamps lighted by Consolidated Gas Co. December 31, 1892.....			14,361	Number of old lamps relighted during the year.....	13	311	
EQUITABLE GAS-LIGHT COMPANY.				Less lamps discontinued during the year.....	0		
Number of lamps lighted December 31, 1891.....	4,224			Number of lamps lighted December 31, 1892.....			311
Number of new lamps lighted during the year 1892.....	22			BRUSH ELECTRIC ILLUMINATING COMPANY.			
Number of old lamps relighted during the year.....	18			Number of lamps lighted December 31, 1891.....	273		
Number of lamps transferred from Consolidated Gas Co.....	350			Number of new lamps lighted during the year 1892.....	0		
Number of lamps transferred from New York Mutual Gas-light Co.....	14			Number of old lamps relighted during the year.....	0	273	
Number of lamps transferred from Standard Gas-light Co.....	18			Less lamps discontinued during the year.....	16		
Less lamps discontinued during the year.....	12	4,646		Less lamps transferred to East River Electric-light Co.....	9		
Less lamps discontinued on account of electric lights.....	149					25	
		161		Number of lamps lighted December 31, 1892.....			248
Number of lamps lighted December 31, 1892.....			4,485	EAST RIVER ELECTRIC-LIGHT COMPANY.			
NEW YORK MUTUAL GAS-LIGHT COMPANY.				Number of lamps lighted December 31, 1891.....	136		
Number of lamps lighted December 31, 1891.....	205			Number of new lamps lighted during the year 1892.....	16		
Number of new lamps lighted during the year 1892.....	1			Number of old lamps relighted during the year.....	49		
Number of old lamps relighted during the year.....	17			Number of lamps transferred from Brush Electric Illuminating Co.....	9		
Less lamps discontinued during the year.....	4	223		Number of lamps transferred from Harlem Lighting Co.....	7		
Less lamps discontinued on account of electric lights.....	67					217	
Less lamps transferred to Consolidated Gas Co.....	6			Less lamps discontinued during the year.....	4		
Less lamps transferred to Equitable Gas-light Co.....	14			Number of lamps lighted December 31, 1892.....			213
Less lamps transferred to Standard Gas-light Co.....	3						
		94		MOUNT MORRIS ELECTRIC-LIGHT COMPANY.			
Number of lamps lighted December 31, 1892.....			129	Number of lamps lighted December 31, 1891.....	154		
STANDARD GAS-LIGHT COMPANY, MADISON SQUARE BRANCH.				Number of new lamps lighted during the year 1892.....	0		
Number of lamps lighted December 31, 1891.....	1,088			Number of old lamps relighted during the year.....	0	154	
Number of new lamps lighted during the year 1892.....	6			Less lamps discontinued during the year.....	0		
Number of old lamps relighted during the year.....	2			Number of lamps lighted December 31, 1892.....			154
Number of lamps transferred from New York Mutual Gas-light Co.....	3			HARLEM LIGHTING COMPANY.			
Number of lamps transferred from Consolidated Gas Co.....	205			Number of lamps lighted December 31, 1891.....	175		
Less lamps discontinued during the year.....	9	1,304		Number of new lamps lighted during the year 1892.....	24		
Less lamps discontinued on account of electric lights.....	27			Number of old lamps relighted during the year.....	0	199	
Less lamps transferred to Equitable Gas-light Co.....	18			Less lamps transferred to East River Electric-light Co.....	7		
		54		Number of lamps lighted December 31, 1892.....			192
		1,250		NORTH RIVER ELECTRIC-LIGHT AND POWER COMPANY.			
STANDARD GAS-LIGHT COMPANY, HARLEM BRANCH.				Number of lamps lighted December 31, 1891.....	167		
Number of lamps lighted December 31, 1891.....	1,497			Number of new lamps lighted during the year 1892.....	199		
Number of new lamps lighted during the year 1892.....	2			Number of old lamps relighted during the year.....	0	366	
Number of old lamps relighted during the year.....	12			Less lamps discontinued during the year.....	0		
Number of lamps transferred from Consolidated Gas Co.....	13			Number of lamps lighted December 31, 1892.....			366
Less lamps discontinued during the year.....	7	1,524		EDISON ELECTRIC ILLUMINATING COMPANY.			
Less lamps discontinued on account of electric lights.....	20			Number of lamps lighted December 31, 1891.....	0		
		27		Number of new lamps lighted during the year 1892.....	51		
Number of lamps lighted December 31, 1892.....			2,747	Number of old lamps relighted during the year.....	0	51	
CENTRAL GAS-LIGHT COMPANY.				Less lamps discontinued during the year.....	0		
Number of lamps lighted December 31, 1891.....	2,181			Number of lamps lighted December 31, 1892.....			51
Number of new lamps lighted during the year 1892.....	130			Total number of electric lamps lighted December 31, 1892.....			1,535
Number of old lamps relighted during the year.....	58						
Less lamps discontinued during the year.....	74	2,379		RECAPITULATION FOR THE YEAR.			
Less lamps discontinued on account of electric lights.....	582			Number of gas lamps lighted December 31, 1891.....	27,083		
		656		Number of naphtha lamps lighted December 31, 1891.....	140		
Number of lamps lighted December 31, 1892.....			1,723	Number of electric lamps lighted December 31, 1891.....	1,199	28,122	
NORTHERN GAS-LIGHT COMPANY.				Number of new gas lamps lighted during the year 1892.....	815		
Number of lamps lighted December 31, 1891.....	2,579			Number of new naphtha lamps lighted during the year 1892.....	18		
Number of new lamps lighted during the year 1892.....	131			Number of new electric lamps lighted during the year 1892.....	294		
Number of old lamps relighted during the year.....	12					1,127	
		2,722					

Number of gas lamps relighted during the year.....	246		Less gas lamps discontinued during the year.....	265	
Number of naphtha lamps relighted during the year.....	0		Less gas lamps discontinued during the year on account of electric lamps.....	1,354	
Number of electric lamps relighted during the year.....	62		Less naphtha lamps discontinued during the year.....	6	
		308	Less electric lamps discontinued during the year.....	20	1,646
		29,857	Total number of lamps lighted December 31, 1892.....		28,211

EXHIBIT "E."

Statement Giving the Illuminating Power in Candles of the Gas supplied to the City by the several Gas-light Companies during the Quarter ending December 31, 1892, as Shown by the Daily Observations at the Photometrical Rooms of the Department of Public Works.

FOR WHAT TIME.	CONSOLIDATED GAS CO., BRANCH 1.			CONSOLIDATED GAS CO., BRANCH 2.			CONSOLIDATED GAS CO., BRANCH 3.			CONSOLIDATED GAS CO., BRANCH 4.			CONSOLIDATED GAS CO., BRANCH 6.			N. Y. MUTUAL GAS-LIGHT CO.			EQUITABLE GAS-LIGHT CO.			STANDARD GAS-LIGHT CO.		
	ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.		
Week ending—	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
Oct. 8, 1892.....	21.78	23.78	22.76	20.82	22.46	21.80	26.70	27.64	27.22	19.56	20.86	20.37	23.74	26.06	24.99	29.07	31.06	29.85	28.66	29.60	29.09	22.14	24.88	24.05
" 15, ".....	22.58	25.36	23.48	21.12	21.90	21.42	26.34	28.42	27.13	21.57	23.60	22.48	23.80	26.02	24.80	29.69	32.24	31.13	28.76	30.46	29.63	24.81	27.40	25.72
" 22, ".....	23.08	25.00	23.87	20.82	23.70	21.86	27.50	28.24	27.90	21.17	23.16	22.51	24.04	26.26	25.33	30.16	31.04	30.62	28.90	29.66	29.18	23.20	25.04	24.78
" 29, ".....	23.05	24.21	23.51	19.54	22.42	20.96	25.24	27.44	26.88	20.62	22.24	21.62	23.00	24.07	23.44	30.00	32.40	31.34	26.34	29.62	28.59	23.29	24.38	21.06
Nov. 5, ".....	21.16	23.50	22.14	19.30	20.76	20.22	21.46	25.48	24.06	21.08	22.67	22.18	23.80	25.80	24.37	28.34	30.00	29.38	26.40	30.08	28.46	28.56	26.02	24.46
" 12, ".....	20.68	22.72	22.13	20.78	21.08	20.95	23.56	28.66	26.10	21.74	23.84	22.64	23.26	25.02	24.22	30.16	32.08	30.71	28.42	29.80	29.17	23.82	24.60	24.36
" 19, ".....	20.04	25.98	22.38	18.44	21.72	19.86	25.02	28.64	26.41	20.94	23.50	22.05	23.44	25.14	24.30	30.16	32.68	31.48	28.96	30.20	29.46	23.56	27.68	25.40
" 26, ".....	19.06	21.04	21.55	18.48	20.45	19.57	23.24	26.10	24.63	20.83	22.34	21.46	22.48	25.70	24.06	30.48	31.68	31.13	26.70	29.52	28.40	23.46	25.70	24.95
Dec. 3, ".....	17.90	21.62	20.40	18.34	19.50	19.20	23.40	26.89	24.75	20.46	22.58	21.62	23.11	24.52	23.87	29.02	31.74	30.58	26.00	27.92	27.32	22.78	25.96	24.99
" 10, ".....	19.48	23.24	21.72	18.54	21.35	19.90	24.28	25.82	26.17	22.31	23.62	22.93	23.14	24.64	24.15	30.28	31.93	30.91	26.37	29.80	28.36	23.22	25.98	24.39
For Quarter.....	20.88	23.94	22.39	19.60	21.53	20.57	24.67	27.43	26.12	21.02	22.85	21.98	23.38	25.32	24.35	29.73	31.68	30.71	27.55	29.66	28.76	23.38	25.86	24.71
Distance from gas-works.....	1.86 Miles.....			1.60 Miles.....			3.10 Miles.....			3.28 Miles.....			1.50 Miles.....			1.80 Miles.....			2.70 Miles.....			1.50 Miles.....		
Testing burner.....	Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....		

Average for the Year.

FOR WHAT TIME.	CONSOLIDATED GAS CO., BRANCH 1.			CONSOLIDATED GAS CO., BRANCH 2.			CONSOLIDATED GAS CO., BRANCH 3.			CONSOLIDATED GAS CO., BRANCH 4.			CONSOLIDATED GAS CO., BRANCH 6.			N. Y. MUTUAL GAS-LIGHT CO.			EQUITABLE GAS-LIGHT CO.			STANDARD GAS-LIGHT CO.		
	ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.		
Month of—	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
January, 1892.....	21.84	28.94	25.55	18.74	27.02	21.13	25.10	29.20	26.65	19.28	25.54	22.82	22.18	27.50	25.23	25.78	30.50	29.09	28.60	32.12	30.37	....	....	....
February, ".....	20.04	24.50	22.51	18.28	21.18	20.04	24.30	28.58	27.25	18.37	22.26	20.49	22.95	25.14	24.08	27.48	30.54	29.10	29.34	32.16	30.26	24.64	27.74	26.25
March, ".....	19.37	25.38	23.23	18.32	23.29	20.69	25.88	29.14	27.61	19.38	24.04	21.40	23.06	26.40	24.63	27.16	32.18	30.12	28.08	30.58	29.51	24.28	29.68	26.73
April, ".....	19.36	27.08	23.02	19.72	22.42	21.19	23.92	29.18	27.69	20.19	23.39	21.64	24.02	28.84	26.17	26.56	31.60	30.38	28.64	31.02	29.77	21.92	30.34	25.48
May, ".....	20.67	26.26	23.51	19.79	24.40	21.44	26.52	30.16	28.03	19.50	23.99	21.65	25.08	29.40	27.08	29.42	32.82	30.92	29.06	31.98	30.37	23.12	27.86	25.49
June, ".....	19.32	26.41	23.23	19.54	24.38	21.63	27.60	31.50	29.22	18.63	24.22	21.69	25.78	29.88	28.04	30.34	32.48	31.54	29.16	31.50	30.39	25.50	27.68	26.28
July, ".....	18.26	25.34	22.39	19.10	25.10	21.93	26.00	32.40	28.65	19.56	23.30	21.42	24.32	29.92	26.81	26.14	32.23	29.49	26.80	31.92	29.59	24.50	31.50	26.92
August, ".....	21.58	24.92	23.03	20.22	23.58	21.44	18.75	30.60	27.39	19.28	22.90	20.78	23.06	31.21	25.96	28.34	32.58	30.26	25.40	32.90	29.69	21.76	29.54	26.57
September, ".....	19.23	26.20	22.27	19.60	23.39	21.94	25.30	30.10	27.42	18.47	22.90	20.58	22.50	27.80	25.42	27.71	32.04	29.54	28.01	30.52	29.15	21.12	30.60	24.12
October, ".....	21.23	25.36	23.15	19.54	23.70	21.59	25.24	29.16	27.32	19.56	23.60	21.79	23.00	26.98	24.98	27.97	32.40	30.42	26.34	30.46	29.10	22.14	26.04	24.61
November, ".....	19.06	25.98	22.05	18.44	21.72	20.15	21.46	28.66	25.30	20.83	23.84	22.08	22.48	25.80	24.23	28.34	32.68	30.67	26.40	30.20	28.87	23.46	27.68	24.79
December, ".....	17.90	23.24	21.06	18.34	20.55	19.55	23.40	26.89	25.46	20.46	23.62	22.27	23.11	24.82	24.01	29.02	31.93	30.74	26.00	29.80	27.84	22.78	25.98	24.69
Totals for the Year.	19.82	25.80	22.91	19.13	23.39	21.06	24.45	29.63	27.33	19.43	23.65	21.55	23.46	27.80	25.55	27.85	31.99	30.18	27.65	31.28	29.57	23.02	28.55	25.63
Distance from gas-works.....	1.86 miles.....			1.60 miles.....			3.10 miles.....			3.28 miles.....			1.50 miles.....			1.80 miles.....			2.70 miles.....			1.50 miles.....		
Testing burner.....	Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 6.....			Bray's Slit Union No. 6.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....		
Gas.....	Water-gas (Tessie du Motay).....			Coal-gas, with water-gas.....			Water-gas (Tessie du Motay).....			Coal and Naphtha.....			Water-gas (Tessie du Motay).....			Water-gas.....			Water-gas (Jerzmanowski process).....			Flannery process.....		

EXHIBIT "F."

Time Table for Lighting and Extinguishing the Public Gas-lamps for the Year 1893.

MONTHS.	DATES.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.	MONTHS.	DATES.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.	MONTHS.	DATES.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.
January.....	1 to 7	H. M. 4.30	H. M. 6.35	April.....	2 to 8	H. M. 6.15	H. M. 4.50	July.....	2 to 8	H. M. 7.30	H. M. 3.15
".....	8 to 14	4.40	6.35	".....	9 to 15	6.25	4.40	".....	9 to 15	7.30	3.15
".....	15 to 21	4.50	6.30	".....	16 to 22	6.30	4.30	".....	16 to 22	7.20	3.15
".....	22 to 28	5.00	6.30	".....	23 to 29	6.40	4.20	".....	23 to 29	7.20	3.15
".....	29 to Feb. 4	5.05	6.20	".....	30	6.45	4.00	".....	30 to Aug. 5	7.10	3.30
February.....	5 to 11	5.10	6.15	May.....	1 to 6	6.45	4.00	August.....	6 to 12	7.10	3.45
".....	12 to 18	5.20	6.00	".....	7 to 13	6.55	3.40	".....	13 to 19	6.55	4.00
".....	19 to 25	5.30	6.00	".....	14 to 20	7.00	3.30	".....	20 to 26	6.45	4.10
".....	26 to 28	5.30	5.50	".....	21 to 27	7.10	3.15	".....	27 to Sept. 2	6.30	4.20
March.....	1 to 4	5.30	5.50	".....	28 to June 3	7.15	3.15	September.....	3 to 9	6.15	4.30
".....	5 to 11	5.40	5.40	June.....	4 to 10	7.25	3.15	".....	10 to 16	6.25	4.40
".....	12 to 18	5.50	5.25	".....	11 to 17	7.25	3.15	".....	17 to 23	5.55	4.50
".....	19 to 25	6.00	5.15	".....	18 to 24	7.30	3.15	".....	24 to 30	5.40	5.00
".....	26 to Apr. 1	6.10	5.00	".....	25 to July 1	7.30	3.15	October.....	1 to 7	H. M. 5.30	H. M. 5.00
								".....	8 to 14	5.20	5.10
								".....	15 to 21	5.10	5.20
								".....	22 to 28	5.00	5.30
								".....	29 to Nov. 4	4.45	5.25
								November.....	5 to 11	4.40	5.45
								".....	12 to 18	4.30	6.00

DEPARTMENT OF PUBLIC WORKS—BUREAU OF LAMPS AND GAS, }
NEW YORK, December 24, 1892. }

The above table will show the time for lighting and extinguishing the public lamps during the year 1893. All the lamps to be lighted within one hour from the time of beginning.
THOMAS F. GILROY, Commissioner of Public Works.
S. McCORMICK, Superintendent of Lamps and Gas.

INSTRUCTIONS TO LAMP-LIGHTERS.

- I.—The lamps must be lighted and extinguished strictly in accordance with the time specified in this time-table, and all the lamps must be lighted within one hour from the time of beginning.
 - II.—The lamps must be kept clean and in good condition; the top glass, sides and bottom glass must be thoroughly cleaned, both on the outside and inside of the lantern, three times in each week, and oftener if necessary, to keep them clean, and dust and dirt must be brushed from the frames, and the glass street signs must also be cleaned. Lighters must bear in mind that with clean glass a greater brilliancy is obtained from the flame. In the winter season the snow must be brushed from the lanterns after each snow-fall. Dirty and disordered lamps will be considered as evidence of a careless and incompetent Lamp-lighter.
 - III.—The glass street signs and house numbers must be kept in their proper positions. The sign bearing the name of any avenue or main street must face the roadway of such avenue or street. One of the signs bearing the name of a cross street must face the roadway of such street and the other sign must be placed on the opposite side of the lantern. Be careful to observe that the name does not face the inside of the lantern.
 - IV.—Advertising signs on the lamp-posts or lantern, or colored or ground glass in the lantern are a violation of a Corporation Ordinance and must not be permitted, except the red glass near the fire-alarm boxes, and these must be kept in place.
 - V.—If a Lighter, on extinguishing a lamp, should find a glass broken he must replace the same before lighting time of the same day. If he should find a glass broken while lighting, he must replace the same before lighting time of the following day, and the bottom glass must be kept in place as well as sides and tops. If he should find any portion of the tin work broken he must take the lantern to his Superintendent for repairs. Broken glass must not be deposited upon the street.
 - VI.—The burners must be kept in good condition to burn with a full, clear, steady flame and not with a single or forked jet. If a burner, when lighted, should not emit the proper flame, then the same must be immediately cleared from its obstruction; and if it will not burn properly another burner must be substituted.
 - VII.—If a Lighter, when lighting, finds that a lamp will not burn, he will leave such lamp and finish his route. He must then return to the unlighted lamps and endeavor to get them in burning order. If he cannot make the lamp burn he must report the same on the following morning to the Superintendent of the Gas Company.
 - VIII.—Lamp-lighters will not be permitted to climb the lamp-posts. The lamps must be lighted either by means of a torch or the use of a ladder.
 - IX.—In case a lamp-post should be found broken or taken down, or requiring repairs, or an excavation should be made near the same which would endanger its safety, he must report the same at once to the Superintendent of the Gas Company, stating the correct location of the post and what repairs are required. If the post has been taken down, he must report by whom and for what purpose, and date when done. No excuse will be accepted from any Lamp-lighter who fails to report lamp-posts taken down or broken.
 - X.—Lighters must not break the lamp-bottoms nor the street-sign slots. Lamps furnished with these slots should be placed on corner lamp-posts.
 - XI.—Ladders must not be left tied to the lamp-posts.
 - XII.—Boys must not be permitted to act as Lamp-lighters.
- S. McCORMICK,
Superintendent of Lamps and Gas.

CORPORATION ORDINANCES RELATING TO PUBLIC LAMPS.

- Sec. 68. Any person breaking, mutilating or obstructing any of the public lamps in the city of New York shall be liable to a penalty of five dollars for each offense.
- Sec. 69. Any person who shall break, misplace or carry away any of the glass street-signs now or hereafter to be placed in any of the public lamps, shall be liable to a penalty of three dollars for each offense.
- Sec. 70. No person, without permission of the Commissioner of Public Works, shall take up, remove or carry away any public lamp-post in the City of New York, under the penalty of ten dollars for each offense.
- Sec. 71. No person shall remove, or cause or permit to be removed, any public lamp-post now or hereafter to be placed in front of their premises, for the purpose of constructing a vault or otherwise, without the permission of the Superintendent of Lamps and Gas; and the owner or owners of such vault shall cause the lamp-posts so removed to be reset at their own expense immediately upon the completion of the vault, under the penalty of twenty-five dollars for each offense.
- Sec. 226. No person shall attach, place or paste, or cause to be attached, placed or pasted, any sign or advertisement, or other matter, upon any public lamp-post now erected in the City of New York, or that may hereafter be so erected, under the penalty named in the next section.
- Sec. 227. The violation of any of the provisions of the preceding section shall be punishable by a fine of not less than one dollar, or more than ten dollars.
- Sec. 412. It shall not be lawful to erect any telegraph-post within a distance of ten feet of any public street-lamp. Any person offending against any of the provisions of this section shall be deemed guilty of a misdemeanor, and on conviction thereof before any of the police magistrates or justices of this city, shall be punishable by a fine not exceeding ten dollars, or in default of the payment of such fine, by imprisonment not exceeding ten days.
- Sec. 1953 of the New York City Consolidation Act of 1882.—If any person shall wilfully break, take down or carry away any glass lamp hung or fixed in any of the streets of the City of New York, or extinguish the lights therein, or by aiding or abetting in the same, shall be subject to a fine of twenty-five dollars, and in default of payment of such fine the offender shall be committed to the penitentiary for the term of two months.

Document "L."

REPORT OF THE SUPERINTENDENT OF REPAIRS AND SUPPLIES.

CITY OF NEW YORK—DEPARTMENT OF PUBLIC WORKS,
BUREAU OF REPAIRS AND SUPPLIES,
SUPERINTENDENT'S OFFICE, No. 31 CHAMBERS STREET, ROOM 15,
NEW YORK, December 15, 1892.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

SIR—I have the honor to submit to you the following report of the transactions of this Bureau for the quarter ending December 31, 1892.

Among the principal items of work done by the Bureau I refer to the following:

NEW CRIMINAL COURT-HOUSE.

The exterior of this building is finished except some ornamental carving and the pointing and cleaning of the granite work. The terraced stoop of the grand entrance on Centre street, except the tiling of the platforms, is finished, and the stoops to all the entrances are in place.

The total number of rooms in the building is 201. Of this number the plastering work is finished complete and ready for the carpenter and cabinet work—

First story.....	17
First mezzanine story.....	8
Second story.....	25
Second mezzanine story.....	7
Third story.....	24
Fourth story.....	4

The above includes the Court of Oyer and Terminer, four General Sessions Court rooms and the rooms for Special and Police Courts. Besides this a large portion of the corridors with their heavily sunken and moulded panels, and the plastering of the groined arches fronting the interior of the arcade, and the richly ornamented, paneled and carved ceiling of the vestibule is finished.

The walls and ceilings of nearly all the rooms throughout the building are browned ready for their finishing coat, and the assurance has been given me that the plaster work throughout the entire building can and will be finished within thirty days from the time the court-house is heated sufficiently to protect the plaster work from damage by frost.

The hips of the roofs are tiled, excepting a running space of about 60 feet, and all these spaces will be covered in a short time.

The copper covering of the roof decks has been put in place, and the roof is now practically weather tight.

The windows and doorways of the building are entirely inclosed. A large proportion of the sashes are glazed and hung, and where the openings have not been furnished with permanent sashes, the openings have been inclosed and made weather tight.

All the interior iron partitions for the division of spaces into rooms are in place except some in the basement story.

The tiling for the corridors, floor of arcade, prison reception, and in the rooms to be occupied by the sanitary inspectors is progressing favorably. The floor of the arcade is finished with color-bordered panels and is complete; several of the corridors are also finished, and this work will be continued without intermission following its protection against frost by the heating apparatus now almost ready to be put into service.

The flooring of the rooms not otherwise ordered is to consist of two thicknesses of floor plank, secured to sleepers. The sleepers and first or under floors have been laid throughout the building, except in two rooms in the basement.

The firing and studding of the walls on three sides of the arcade are still incomplete.

All the stair strings and risers throughout the building are in place, from the first to the fourth story.

The work on the passenger elevators is progressing favorably, the iron fronts are in place and portions of the stand pipes are in position.

The gas, electric, plumbing and steam fitting, provided and described in specifications, is advanced as far as the condition of the building will permit. The 4 large steam boilers have been tested satisfactorily; they are now being fired. They are supplied with water and connected with the pumps and air fans, and they will be connected with the heated air service immediately to furnish heat for the lower portions of the building.

Active preparation is going on to get the 210 radiators throughout the building ready for service as soon as possible; when this work is completed all the various works will be vigorously continued without any risk of damage from frost.

The completion of the Criminal Court-house now depends almost entirely upon the vigor with which the carpenter's contract will be progressed. This work is of very considerable magnitude. It consists of the furnishing and putting up elaborate and heavy wainscots and window trimmings and heavy doors and their trimmings, the laying of finely finished floors, the construction of benches for the Judges and boxes for the jurors of the various Courts, and the finishing and fitting up the offices throughout the building. While this work will be largely facilitated by the arrangement recently made to heat the building during the winter, the carpenter should be pressed to take advantage of it and be obliged to employ a large force of workmen.

I also have the honor to report that no action has been taken of which I am aware to determine the character of the material to be used in the sidewalks around the building. This is necessarily an expensive work and of some magnitude.

I beg to suggest that some action be taken at an early day to settle the character or quality of the material to be used, and its probable cost, so that money may be apportioned, specifications prepared and contracts made for its execution, the work to begin on the opening of spring.

NEW HARLEM COURT-HOUSE.

The above building at this time is nearly ready for occupation. All its rooms, including the prison portion of it, are finished, with the exception of the District Court-room, Judge's platform and desk, and the floors of the court-rooms, and the wainscoting provided for the sidewalks. The Judge's bench and steps in the Police Court and the rail to inclose bar are not yet complete.

The front doors of the main entrance have been delivered and the outside doors for workshop, the doors for prison, reception-rooms and other large offices on Sylvan place have been delivered and will be placed immediately.

The steam boilers have been satisfactorily tested and steam has been gotten up in them and passed through the radiators throughout the building. The elevator is completed and ready for action, the water and gas supply is finished, and meters for the courts and offices and a separate gas meter for the prison have been ordered and are placed.

The contractors for gas and electric light fixtures assure me that their contract, which stipulates the completion of their work before December 20, will be carried out on time.

The settees for court-rooms, the carpets, window shades and furnishings for the courts and offices have been ordered and will be delivered immediately.

The new tower clock is under construction and will be placed in position as soon as finished.

The curbing and flagging of sidewalk is being advanced vigorously and will be finished in a few days.

Arrangements have been made to remove such portions of the furniture belonging to the City as soon as it can be dispensed with at the present courts.

The marble for water-closets is ready for delivery and can be set up in a few days. The condition of the building at the present time promises that it will be ready for occupation January 1, 1893.

The following requisitions for the fitting-up and furnishing this building have been made and orders for the supplies and materials given:

- No. 1. For a paneled ash partition and library case in Ninth District Civil Court.
- No. 2. For the window shades for the building.
- No. 3. Repairs to safe and moving the same.
- No. 4. For office clocks for both courts.
- No. 5. For tower clock.
- No. 6. For settees or benches for both courts.
- No. 7. For carpets and linoleum for both courts.
- No. 8. For cleaning and relaying old carpets.
- No. 9. For furniture for both courts.
- No. 10. For rubber door mats for both courts.
- No. 11. For range for Janitor's rooms.
- No. 12. For refrigerator for Janitor's rooms.
- No. 13. For shelving for fire-proof vaults.
- No. 14. For gas fixtures for entire building.
- No. 15. For painting elevator shaft.
- No. 16. For two cases pigeon holes, Ninth District Court.
- No. 17. For moving furniture.
- No. 18. For putting in wash-tubs.
- No. 19. For ash door and trim at Warden's room.
- No. 20. For two wooden mantels.
- No. 21. For coal.

NEW COUNTY COURT-HOUSE.

The heating and ventilation of the above building (under contract) has been reconstructed and the new system has been completed and is now in operation.

The heating is affected by drawing fresh air from the exterior of the building by means of powerful fans, operated by steam engines and forcing this fresh air into brick inclosures, provided with the latest and most effective steam radiators to heat it. There are 20 hot air chambers placed at points in the cellar to connect with air ducts leading to all the rooms in the building through which the hot air is passed. Each room thus connected is provided with a thermostat, which is a sensitive electric device, with power to open or close a valve and thus regulate the inflow of the heat or shut it off when the thermometer indicates the temperature required. The ventilation during the summer is affected by forcing cold air by means of the air fans through the passage provided for passing the hot air in the winter, the thermometer regulates the action of the thermostat and such volumes of fresh air are admitted as may be necessary to maintain a pure atmosphere without opening or closing windows or occasioning disagreeable and dangerous drafts.

The operation of the new system up to the present time has been successful, and under the terms of the contract the system must be maintained in good working order for the period of one year.

Surrogate's Court—A paneled partition in quartered oak was put up to inclose a room for the use of the Surrogate, a new three-light chandelier hung in the same; the hardwood partitions cleaned, rubbed and varnished; the railing in front of the bench altered and extended; a new radiator put in; linoleum and carpets laid on the bench and in the private room; a canopy put up over the bench in court-room; cocoa mats and desk rugs furnished, window shades hung and a wardrobe and rotary chair supplied; in the corridor adjoining the court-room a space 12 feet by 12 feet was partitioned off to inclose room for documents; it was fitted up with shelving and gas fixtures, and the work painted, grained and varnished.

Superior Court—A number of law books have been supplied for use of the Court, 4 rotary chairs, 2 tables, book shelves and bibles were furnished.

Court of Common Pleas—The ceiling in the Clerk's office was washed off, plastering repaired, ceiling calcimined and cornice tinted and walls touched up and painted, and the hardwood cleaned and varnished.

On the corridor adjoining Judge's room the ash partition has been extended and the space ceiled over to inclose a room for documents, and a document case put up, about 22 feet long and 9 feet high, inclosed with paneled doors and furnished with good locks. The work has been painted, grained and varnished.

A door with iron folding gate has been placed in the partition, inclosing the elevator, for the convenience of the Judges of the Court. New catches have been placed on the elevator doors. One large light of polished plate glass was put in the court-room, one in the Clerk's office, one in the Supreme Court and the windows in Surrogate's Court puttied up and sash repaired.

Linoleum has been laid in the assignment-room and in the Naturalization Bureau; a table supplied for Clerk's office and law books for the use of the Court.

The Sheriff's Office—The old closets and urinals in the toilet-room were taken out, the floor tiled, the walls repaired and painted, ceiling calcimined, and new and improved water-closets put

in, and the plumbing thoroughly overhauled; the furnace flue passing through the room was inclosed in fire-proofing, with an air space so arranged as to keep the room well ventilated.

A dado was painted and lined around the walls of the rotunda and the halls adjoining, and the outside doors of the building were cleaned and varnished.

A new galvanized-iron pipe, 3 feet by 2 feet by 15 feet, was put up on the boiler flue; all the ventilation pipes (about 65), on the roof, have been repaired; new pipe and Emmerson heads put on where needed; all securely fastened to the roof and put in complete order.

The Janitor's kitchen range has been repaired and relined and a new smoke-pipe put up for the same on the roof.

The tank-room in the cellar has been graded and flagged with North River blue stone, and the cellar has been thoroughly cleaned, walls and ceilings whitewashed, rubbish removed and the cellar put in complete order.

HALL OF RECORDS.

The roof has been repaired and painted, gutters on main roof relined, about 600 sheets of damaged tin removed and replaced with L. P. L. tin, the coping pointed up with Portland cement, and the roof made weather tight; two galvanized iron chimney-tops put on, and a zinc screen furnished for use of the office.

NO. 31 CHAMBERS STREET.

The boiler furnaces have been repaired and relined, and new jamb blocks and arch-brick put in, and the brick work pointed up.

The old blow-off pipes have been taken out and replaced with new 2½-inch pipe with stop-cocks and necessary connections.

New closets have been put up in the Bureau of Incumbrances, and a roll-top desk furnished for use of the Superintendent.

A roll-top desk and new speaking tube were furnished the Bureau of Water Register, and some rugs furnished for office of the Chief Clerk.

The elevator has been repaired, the car adjusted and new lifting ropes put in.

THE CITY HALL.

The City Court—A large chandelier was repaired and refinished and put up in Part IV., and law books and directories furnished for use of the Court.

Board of Aldermen—A cabinet containing thirty-two drawers, with name plates on each, has been put up in the anteroom; each drawer is supplied with a Yale lock. Protective ventilators have been put in the Clerk's office, and some law books supplied. All the window frames, guards and sashes, and the doors at the several entrances, have been cleaned off and painted, and the walls and ceiling of the vestibule on the north front have been painted and calcimined, and the wood work painted, grained and varnished.

The pictures of McComb, Brown, Bainbridge, Swift, Hull, Clay and Fillmore in room No. 20, Burnett and McClellan in room No. 19, McDonough in room No. 15, and Wright and Throop in the Governor's room, have been taken down to be cleaned, refinished, restored, relined and varnished, and the frames regilded. This work is now nearly completed, and the pictures will soon be rehung. This will about complete the repairs, and restoration of the City's pictures, which work was commenced last year, and proceeded with from time to time, as rapidly as the nature of the work would admit.

The pictures are now nearly all in excellent condition, and the very marked improvement they present fully justifies the labor and expense of their restoration.

The area walls on the northeast and northwest sides of the building were taken down and rebuilt and coped with new blue stone machine-dressed coping, and the flagging in the areas relaid.

The iron railings were taken down, fire cleaned, repaired and altered and are now being set in place.

BROWN-STONE BUILDING.

The wood and iron work on the exterior of the building, including window frames, sashes, vestibule doors, the two frame extensions, stoops and railing have been cleaned, the rust and scale scraped off, and the work painted.

The roof skylights have been reglazed and painted, and the wood work in Assistant District Attorney Wellman's room has been cleaned and varnished, and a new fire-screen furnished, and a new carpet laid.

A large rug has been furnished for use of Chief Clerk's office.

STEWART BUILDING.

The Finance Department—In the Bureau for the Collection of Taxes a 36-inch Wing disc fan, with electric motor combination, was put up in the basement and fitted with all necessary wiring and connections. One dozen high rotary chairs were furnished and new window shades hung on the Chambers street front of office.

Directories have been furnished to the Department of Taxes and Assessments.

New window shades have been hung in the office of the Commissioners of Appraisal.

In the office of the Commissioners of Accounts one dozen cane-seat chairs have been furnished and new shades hung on the office windows.

The Board of Assessors—A walnut map case, library step-ladder, 2 rotary chairs, one 5-foot oak desk, a Japanese screen, two desk rugs and a zinc screen have been furnished.

49 BEEKMAN STREET.

Office of Public Administrator—The walls and ceilings in the rear room, third floor, and the Janitor's kitchen, on the fourth floor, have been cleaned off, plastering repaired, ceilings calcimined and walls and trim painted; 3 pine closets and 3 record boxes were supplied.

A galvanized iron ventilating pipe put up to ventilate front office.

Protective ventilators put in office windows, linoleum laid in rear office, private room, Janitor's kitchen and the hallway on upper floor.

Two rotary arm-chairs furnished and a galvanized iron chimney-top, 25 feet high, with Emerson head, was put up.

In the Corporation Attorney's office about 100 feet of pine shelving have been put up and a new wire screen put on the front window.

STAATS ZEITUNG BUILDING.

Corporation Counsel's Office—A case of pigeon-holes and shelving were put in the document room. The iron wire railing in the Chief Clerk's office was repaired and altered.

The walls, ceiling and trim in Mr. Hollendorp's room were washed off, plastering repaired, ceiling calcimined and walls, wood work and trim painted.

The carpets in the several rooms were taken up, cleaned, relined and relaid. A leather-covered lounge, a rug and some cane-seat chairs furnished.

THE MARKETS.

Washington Market—Repairs have been made to the roof over stands Nos. 425, 427, 429, 431, 437, 304, 295, 260, 253 and 148, and to the gravel roof.

West Washington Market—The roof over stands No. 54 and 56 Bloomfield street has been repaired and painted. The leader repaired and sewer connections cleared at stands No. 48 Bloomfield street and No. 16 Loew avenue. New leaders were put up at Nos. 32 and 64 Hewitt avenue, Nos. 64 and 48 Thompson avenue, Nos. 64 and 68 Grace avenue, No. 10 Thirteenth avenue and No. 1 Gansevoort street. The iron shutters were thoroughly overhauled and forty-four of them repaired and painted.

Fulton Market—The flooring at stands Nos. 182, 142, 143, 123, 146 and 89, has been taken up and repaired, and the doors on Fulton and Front streets repaired and sash reglazed where needed. A new skylight, 6 feet by 6 feet, with galvanized-iron frame and glazed with heavy ribbed glass, was put up to light the southeast gangway.

Centre Market—The walls, ceilings and woodwork of the interior of the market were cleaned off, painted and calcimined; the glazing repaired, new sash cords put in where required; the flooring at stands Nos. 55 and 57 repaired and the roof over the centre section of the building repaired and gutters relined.

Tompkins Market—The flooring in gangway at Third avenue entrance was relaid, a new stoop built on Hall place side and the transom sash and storm doors and casings on Seventh street side were repaired and glazing repaired.

Essex Market—The interior of the market has been cleaned off, ceilings and walls painted and calcimined and brickwork pointed up.

Clinton Market—The flooring at stands Nos. 19, 21, 23 and 25 was repaired, new sleepers put in and floored over with 1¼-inch yellow pine flooring plank. The glazing was repaired where needed.

Clinton Market—The doors and windows on West street side were repaired, one new sash, 5 feet by 1 foot 8 inches, put in, the glazing repaired and skylight sash over stands Nos. 39, 41 and 70 were reglazed and put in good order; 34 new flat galvanized-iron skylight sashes, and one hipped sash with stationary louvres and base and glazed with ¼-inch ribbed glass, have been put up, and the flashings repaired and painted.

Jefferson Market—The stairs on Greenwich avenue side have been repaired, and new yellow pine steps put in. The roof over stand No. 82 has been repaired and painted. The gutters and trim work around skylights repaired, the sashes reglazed where needed, new tubes put in leader connections.

THE ARMORIES.

Troop "A"—A closet, 7 feet wide, 10 feet high and 2½ feet deep, with shelving, was built and a sabre-rack with spaces for 86 sabres and strips for coat hooks, put up.

The Second Battery Armory—Some repairs have been made to the flooring in several places, but the flooring is still in bad condition, and arrangements have been made to relay about 2,000 square feet of the floor with new planking and sleepers. This work will be proceeded with without delay.

Seventh Regiment Armory—The roof over the administration building has been repaired; the doors on Park avenue side have been cleaned, rubbed and varnished, and the storm doors on Lexington avenue have been painted inside and outside. Repairs have been made to the bulk-heads and targets in the rifle range and one new steel curved plate, 8 feet 7 inches by 4 feet by ¾-inch, put in one; the twenty-two windows in main drill-room have been hung with No. 1 giant sash-chain, and the fifty pocket windows with braided cotton sash cord; new glass globes were put in the fixtures where required.

Ninth Regiment Armory—The steam-pipes have been repaired and covered with asbestos hair-felt and canvas.

Twelfth Regiment Armory—In the rifle range a new frame-work and backing was put up to receive the steel ¾-inch plates, and the ranges reconstructed. Repairs have been made to all the roofs, new tin was put in where needed, and the work painted with metallic paint. Specifications were prepared for the painting of the main drill-room; the work has been given out and will be commenced in a few days.

Twenty-second Regiment Armory—Seven new galvanized-iron chimney-tops, with Emerson heads have been put up in the companies' rooms.

Sixty-ninth Regiment Armory—The boiler furnaces have been repaired and rebuilt, new jamb blocks and arch bricks put in, the walls pointed up, two sets of grate bars and bearing bars put in, and a new stove put in Armorer's room.

Seventy-first Regiment Armory—The two boiler furnaces have been relined, bridge-walls rebuilt, new jamb block and arch plates put in, and the invert arches rebuilt, the boiler flue cleaned out and new fire tools furnished for use of the engineer.

POLICE AND CIVIL COURTS.

City Prison Courts (Tombs)—Galvanized-iron chimney-tops were put up on the chimneys of the Special Sessions and Police Court rooms.

The roof of the Special Sessions repaired, about 600 sheets of damaged tin taken out and replaced with new L. P. L. tin, and the roof painted with metallic paint.

Second District Police Court—New shelving was put up in the examination room, and 3 galvanized-iron chimney-tops with Emerson heads, offsets and bases, were put up.

Third District Police Court—A case of shelving, 10½ feet long and 8 feet high, was put up in the examination room. A range with water back, and a 30-gallon boiler, with necessary fittings and connections, was put up in the janitor's kitchen. The furnace was cleaned and repaired, new castings put in where needed, and a galvanized chimney-top put up on the furnace flue; 3 new 10-foot benches were put in the Court room.

Fourth District Police Court—A case of shelving was put up in the examination room, and the old shelving altered. The walls and ceilings in the Clerk's and reporter's rooms have been painted and calcimined, plastering repaired and radiators rebronzed. The old water-closets on the third floor were taken out and replaced with 3 new Hygia closets, with all necessary connections; a rotary chair for Judge's bench, 1 rotary stool, a lounge, some cane-seated chairs, a mirror and table furnished and window shades hung.

First District Civil Court—Two partitions were taken down, two new closets put up and a plank partition built. The walls and ceilings in the Court room, Marshal's room; the hall and stairway were washed off, painted and calcimined; the grained work was touched up and varnished and the iron work, including the hand-rails and stairs, painted.

Second District Civil Court—The walls and ceilings in the Court room, Judges' and Clerks' rooms, Jury room, Marshal's room and stairway have been cleaned, painted and calcimined; the grained and hardwood work varnished. Alterations were made to railing in front of Judge's bench and a platform built for witness stand. All the carpets were taken up, cleaned and relaid.

Fourth District Civil Court—New carpet was laid in the Clerk's room and a directory furnished.

Fifth District Civil Court—The ceiling and walls in Janitor's room were papered, the wood-work and trim painted. The walls at hall entrance to Court room painted with a dado five feet high. All the benches and wainscoting in Court room were cleaned off and painted and the walls touched up. A self-feeder stove with fixtures was put up in Janitor's room.

Seventh District Civil Court—The boiler furnace was repaired and relined, bridge wall rebuilt and invert arch repaired, six armchairs, a wardrobe, some desk rugs furnished and law books supplied. In the Janitor's rooms linoleum was laid and some window shades hung.

Eighth District Civil Court—The iron railing under Clerk's desk has been inclosed and door leading to Clerk's room altered and a sash door put in.

Eleventh District Civil Court—A new carpet was laid in Clerk's office, some cane-seat office chairs and a jury wheel furnished.

THE COUNTY JAIL.

The walls and ceiling of the hallway leading to the sitting room were painted and calcimined, and woodwork and trim touched up and varnished, and the dado in prison painted.

DEPARTMENT OF BUILDINGS.

Gas-pipes and fittings have been put up to light the three floors occupied by the Department at Eighteenth street and Fourth avenue.

REPAIR SHOP, NO. 427 EAST EIGHTY-SEVENTH STREET.

One 8-inch galvanized-iron chimney-top 20 feet high, and one 12 feet high, with Emerson heads, were put on this building.

THE DOG POUND.

The roof has been repaired and painted.

SUMMARY.

Contracts and Specifications.

Contracts and specifications were made for the following materials and supplies during the year 1892:

- For 500,000 pounds of ice and 124 pieces for water-coolers.
- For moving Dog Pound to new location.
- For repairing pontoons in floating baths.
- For repairing and painting roofs of floating baths.
- For painting free floating baths.
- For coal for buildings, offices and armories, in care of this Bureau.
- For reconstructing heating apparatus in County Court-house.
- For altering two buildings in West Washington Market to render them fire-proof.
- For repairs to the steps and portico of the Tombs.
- For Janitors' and Cleaners' supplies.
- For alterations to railings and platforms in Supreme Court.
- For taking down and removing ruins of the Old Arsenal Building.
- For painting exterior of Washington Market; repairs to Clinton Market.
- For alterations and fitting up of Seventy-first Regiment Temporary Armory at One Hundred and Seventh street and Lexington avenue.
- For gas and electric fixtures in the New Harlem Court-house.
- For curbing and flagging sidewalks of Harlem Court-house.
- For rebuilding area walls of City Hall, coping same and flagging areas.
- For Janitor's and Amors' supplies for the several armories.

Chief among the works of the Bureau during the year were the following:

The alterations to two of the buildings of West Washington Market, with the view to render them fire-proof as far as possible. The work was completed satisfactorily, and these two buildings are comparatively safe from fire. As to the other eight buildings composing the market, I think that they should be treated in the same way so that the entire market would be in a great measure secure from the spread of fire.

Alterations were made to the Clinton Market. The old sheds were removed and new fronts put in with neat galvanized-iron cornices and sash doors on three sides of the market.

About 4,000 feet of the flooring was laid, and at present the market, both inside and outside, presents a neat, clean appearance, and the improvements are fully appreciated by all who are engaged in business there.

The old building on One Hundred and Seventh street and Lexington avenue, leased for a temporary armory for use of the Seventy-first Regiment, has engaged the attention of the Bureau to a great extent. A survey of the building showed that it required very considerable repairs to fit it for the required use. Partitions for company rooms and new lockers had to be built, new water-closets put up, the plumbing, steam and gas fitting overhauled and extended. Boiler furnaces relined, flooring and carpenter work repaired, and the interior of the building painted and calcimined. Contracts and specifications for this work were prepared and the work given out at public letting. It is now nearly completed.

Another work that occupied the attention of the Bureau was the fitting up of offices for the New Department of Buildings in the building on the southwest corner of Eighteenth street and Fourth avenue, and the removal of the books, papers and furniture from the Fire Department Headquarters to the new offices. New partitions were put up, carpets and linoleum laid, window shades hung and the several rooms furnished and made ready for the business of the Department. "Electric fans" and "Wing disc fans" were put up in the office of the Receiver of Taxes, Stewart Building, to aid in the ventilation of the room.

The elevators in the County Court-house, Brown Stone Building, and No. 31 Chambers street were insured in the Fidelity and Casualty Insurance Company, and are thoroughly inspected every month, and a certificate of their condition filed in this Bureau by the inspectors of the company.

The roof of the Twenty-second Regiment Armory required considerable repairs before it could be made weather tight, and the contractor's certificate had to be withheld for several months owing to that fact.

The boiler furnaces also gave out, and new grate-bars had to be supplied to replace those burnt out.

In the Twelfth Regiment Armory the rifle range was reconstructed and new steel plates put in back of the target and bulkheads rebuilt. An automatic pump was put in to clear the ash pits of boilers from spring water, they being below sewer grade; this works well. Considerable repairs have been made to the roofs of the building, and a contract for painting the interior of main drill-room has been made and the work will be proceeded with at once.

Specifications were prepared and a contract made to take down a damaged stone in the facade, replace it with a new stone, and to reset the steps at the main entrance to the Tombs. This work has been completed satisfactorily.

FREE FLOATING BATHS.

The baths, 15 in number, have been safely towed from their summer stations and securely moored in winter quarters, on a large tract of overflowed land adjoining Gowanus creek, South Brooklyn.

I am pleased to be able to report that while they were open for the use of the public they were frequented by an unusually large number of persons, male and female bathers, and that no accident of any kind occurred.

The number of bathers during the past season is reported as follows:

Males, 1892	3,234,394
Females, 1892	1,625,447
Total for 1892	4,859,841
Males, 1891	2,350,362
Females, 1891	1,081,967
Total for 1891	3,432,329

The baths were closed, on the recommendation of the Board of Health, two weeks earlier than usual, consequent upon the cholera scare, and I beg to call attention to their growing popularity with the public, by the largely increased number of persons who have availed themselves of their use during the past season. I deem it my duty to call attention to the bad condition of bath structures Nos. 3, 4, 5 and 6, the frames of these are badly worm-eaten, dozed and water-logged, and in this connection I would recommend that action be taken to replace them with new structures.

Additional rules have been enforced, obliging all persons, except children, to furnish themselves with bathing dresses. This rule has been uncomplainingly complied with, instead of having to be enforced.

Notices, printed in large letters, inform all person visiting the baths that they are free baths, and requesting information that may lead to the detection of persons demanding money for admission to them, or exacting fee for extra privileges on them.

The foremen whose duty it is to visit each and every bath daily, and to report to me whether the attendants are faithfully discharging their duties, and whether the baths are clean and safe, has been satisfactory, and the Police protection has been all that could be required. The baths before being put into service were thoroughly repaired. Pontoons taken out were repaired, payed and calked, dressing, reception and living rooms on all the baths cleaned and painted, and the exterior of Battery and Market street baths were painted, new hawsers and running lines furnished for the security of the baths while berthed amounting to 6,000 feet of best bolt rope, new signal lanterns with ruby glass, and a full supply of soap, brushes and other cleaner's supplies were furnished.

It will be observed by the foregoing report that the duties of this Bureau are various as they are numerous. They embrace masonry, carpentry, plastering, painting, plumbing, gas and steam and electric wire fitting, iron-work and other handicrafts, the construction, repairs and setting of steam-boilers, steam-engines and power fans, glazing and slate and metal roofing, iron-work, furnishing carpets, desks and other furniture for the public offices, putting up, repairing stoves, radiators and registers, supplying coal, ice and wood, repairing, cleaning and regulating the public and office clocks, furnishing engineers' and cleaners' supplies and toilet articles, window awnings and shades, and electric wiring. Besides this a supervision is kept over contractors, carpenters, janitors, engineers and firemen. Male and female cleaners and the preparation of specifications and requisitions, describing work and material required for repairs and supplies. The repair, refitting and supervision of the free floating baths is also an exacting work of the Bureau.

Very respectfully,

W. G. BERGEN, Superintendent.

Document "M."

REPORT OF THE SUPERINTENDENT OF INCUMBRANCES.

DEPARTMENT OF PUBLIC WORKS—BUREAU OF INCUMBRANCES,
No. 31 CHAMBERS STREET,
NEW YORK, December 15, 1892.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

DEAR SIR—I submit herewith the following report of the operations of this Bureau for the quarter ending December 31, 1892 (months of October, November and December), together with a condensed statement of the entire business transacted during the year 1892:

- 710 complaints of obstructions received and attended to.
- 423 seizures and removals of obstructions made.
- 1,094 building material permits issued.
- 160 miscellaneous permits issued.
- 3 permits issued to cut down shade trees.
- 10 notices served to repair defective vault covers.

Expense of seizing and removing 423 articles, including 143 loads of dirt, stone and rubbish, and throwing in dirt, stone, etc., on premises of various places; removing 89 dead and dangerous trees, stumps, etc.; also 106 telegraph poles, and about 122 miles of electric wire..... \$6,340 05

Total expenses for the quarter (estimated)..... \$10,443 95

Received from owners for the redemption of seized articles..... \$283 75

Received from public sale of unredeemed goods, November 3, 1892..... 452 25

..... \$736 00

All of which was duly paid over to the City Chamberlain.

Salary account—Appropriation..... \$7,800 00

Expended up to December 31, 1892 (estimated)..... 7,725 00

Balance..... \$75 00

Appropriation for the removal of obstructions and incumbrances..... \$42,000 00

Expended up to December 31, 1892 (estimated)..... 42,000 00

During the year 1892 the total number of complaints of obstructions received was..... 7,120

Removals to the Corporation Yards..... 2,928

Removals of loads of dirt, stone and refuse..... 1,142

Removals of dead and dangerous trees, etc.....	705
Removals of telegraph poles.....	731
Removals of miles of electric wire (about).....	1,194
Number of building material permits issued.....	6,436
Number of miscellaneous permits issued.....	1,054
Number of permits issued to cut down trees.....	9
Number of notices issued to repair defective vault covers.....	29

APPROPRIATIONS FOR THE YEAR 1892.

For removing obstructions in streets and avenues.....	\$42,000 00
For removing obstructions in streets and avenues—Salaries.....	7,800 00

Total..... \$49,800 00

Estimated summary of expenditures for the year, as follows:

Removals of redeemable obstructions.....	\$3,792 50
Removals of dirt, stone, etc.....	1,782 10
Removals of dead and dangerous trees, etc.....	2,470 00
Removals of telegraph poles.....	2,976 00
Removals of miles of electric wire.....	22,179 50
Transportation expenses.....	764 90
Expense of horse and wagon for Superintendent.....	1,080 00
Salaries—Inspectors, Keeper of Corporation Yard, Watchmen, Skilled Laborers and Foreman.....	14,680 00
	49,725 00

Balance..... \$75 00

Actual cost of removing obstructions and incumbrances.....	\$3,792 50
Actual cost of removing telegraph poles.....	2,976 00
Actual cost of removing electric wires.....	22,179 50

Total..... \$28,948 00

Received from owners of seized articles..... \$1,964 80

Received from sales of unredeemed articles..... \$2,630 71

Less auctioneer's fees, 10 per cent..... 263 07

..... 2,367 64

..... 4,332 44

Difference..... \$24,615 56

The work of this Bureau during the past year, while not showing an increase over that of last year, has progressed with favorable results, and many improvements may be noticed which has required our persistent and unceasing efforts to obtain. The number of complaints received this year is largely in excess of last year, but the removals which the complaints call for are considerably less, which I might say is due to the efforts of this Bureau in compelling the various owners of obstructions complained of to remove the same themselves, thus saving the City the expense of the work. By a judicious expenditure of the appropriation at our disposal for the removal of obstructions, we have been able to reduce the various amounts heretofore expended in years past for the removal of certain classes of obstructions and material incumbering our thoroughfares. The number of removals of dirt, stone and rubbish from streets is considerably less than last year, and notwithstanding the fact that violations of this character have materially decreased, the amount of money expended in removing this class of obstruction during the past twelve months is unnecessarily large, and the usual prompt action of the Department in removing dirt, stone and rubbish which is dumped on the streets by persons unknown creates no incentive to these persons to discontinue this unlawful practice. Strict vigilance on the part of the Police Department will in my opinion eventually place a quietus on this evil and save the community many annoyances which it causes and lessen the expense incurred by the City in its removal.

A decided improvement is also noticeable in the condition of streets temporarily occupied with building material for which permits have been issued by this Bureau, for the construction of new buildings, and the repair and alteration to others. Violations of the conditions of our permits have been manifestly less frequent than at any time previous. Those to whom permits are issued are now instructed regarding the importance of infinite conformity with all of the conditions of the same. Fewer permits are issued than heretofore and irresponsible persons applying at this office for them are invariably refused, and by strict adherence to this rule I find the condition of our streets improving in cleanliness. Persons using asphalt paved streets for this purpose are required to furnish bonds for the preservation of the pavement while work is in progress and I find the system to work very satisfactorily. No controversy to my knowledge has yet arisen relative to the repair of any pavement by builders or contractors, and in every instance where pavements have been used for building material they have been left in absolutely proper condition by persons using them.

The work of removing telegraph poles and electric wires has progressed very favorably, although the quantities removed during the present year are considerably less than the year previous, and orders from the Board of Electrical Control have steadily decreased. There are yet, however, a great many poles to be taken down and many miles of wire to be removed, which has been retarded of late owing to the slow progress made in subway construction.

A new Corporation Yard is to be procured for this Bureau to replace the one now occupied at the foot of East Sixteenth street, which has been turned over to the Health Department for the construction of a new Reception Hospital for contagious diseases. I am informed that work upon this building is about to be commenced, and it is therefore necessary that the selection of a yard be made immediately, otherwise we shall be forced to suspend a part of the business of this Bureau until a place is provided.

In conclusion I may add that while not claiming entire satisfactory results from our endeavors of the past year to remedy and prevent the existence of many evils in street obstructions, we have yet done all that was possible with the limited force at our disposal and consistent with the appropriation provided to affect such a creditable showing.

Very respectfully,

MICHAEL F. CUMMINGS, Superintendent of Incumbrances.

Document "N."

REPORT OF THE WATER REGISTER.

BUREAU OF WATER REGISTER, No. 31 CHAMBERS STREET,
NEW YORK, December 31, 1892.

Hon. THOMAS F. GILROY, Commissioner of Public Works:

SIR—I herewith transmit statement of moneys received for water rents, penalties and taps, for the quarter ending December 31, 1892:

	Principal.	Penalties.	Taps.
October.....	\$285,987 33	\$3,460 85	\$1,186 00
November.....	165,626 77	2,340 70	1,236 00
December.....	136,449 50	994 95	783 00
	\$588,063 66	\$6,796 50	\$3,205 00

Total amount..... \$598,065 16

Deposits to the credit of "Water Meter Fund No. 2"—

October.....	\$892 02
November.....	846 55
December.....	659 75

Total..... \$2,398 32

"Special Fund—Repairing Streets"—

October.....	\$1,675 00
November.....	1,937 50
December.....	1,218 50

Total..... \$4,831 00

I have the honor to also submit a statement of moneys received for the year ending December 31, 1892, and placed to the credit of their respective accounts with the City Chamberlain.

TOTAL RECEIPTS.		
Regular water rates and penalties	\$1,589,971 06	
Water by meter measurements	31,334 37	
Permits for water for building purposes	1,139,181 66	
Receipts for meter on docks	92,784 92	
509 permits for steamboats	38,381 70	
29 engines on wharfs	2,787 10	
Penalties for using hose	81,355 80	
Engine on wharf	9,192 14	
	15,641 62	
	1,252 50	
	596 00	
	75 00	
	93 42	
Total	\$3,002,647 35	
Water rates returned in arrears	\$152,749 07	
Water by meter measurement in arrears	288,930 62	
Total	\$441,679 69	
Pipe-tapping receipts	\$12,237 00	
December	783 00	
Total	\$13,020 00	
Restoring pavements	\$13,361 00	
December	1,218 50	
Total	\$14,579 50	
Receipts for Meter and Meter Setting during the Year 1892.		
Water Meter Fund No. 2	\$10,344 08	
December	659 75	
Amount returned to Bureau of Arrears	6,518 83	
Total	\$17,522 66	

- 1,285 permits issued for building purposes.
71 permits issued for building purposes, December.
2,801 permits issued for taps.
204 permits issued for taps, December.

The amount received during the year for restoring pavements, \$14,579.50, is reserved for repairing openings in streets made for the purpose of connecting water-pipes with buildings, etc. The Special Water Meter Fund No. 2, \$11,003.83, is reserved and set apart to reimburse the City for advances made for meters and meter settings.

The following list of charitable institutions includes all that have been declared exempt under chapter 696, Laws of 1887, and also those exempted during the present year, under chapter 492, Laws of 1890:

Charitable Institutions which have Applied for Exemption from Charges for Croton Water, under the Provisions of Chapter 696 of the Laws of 1887, and as Amended by Chapter 492, Laws of 1890, which the Counsel to the Corporation has Advised are Entitled to Exemption under the Act.

YEAR.	INSTITUTION.	RATED.	LOCATION.	AMOUNT.
1878	Association for the Relief of Aged and Indigent Females	Reg. rents	Tenth avenue and One Hundred and Fourth street	\$45 00
1889	Asylum of St. Vincent de Paul	Meter	No. 211 West Thirty-ninth street	309 70
1891	Association for Befriending Children and Young Girls	"	No. 132 Second avenue	12 50
1888	Baptist Home for Aged and Infirm Persons	"	Fourth avenue and East Sixty-eighth street	128 50
1838	Colored Orphan Asylum	"	One Hundred and Forty-third street and Northern Boulevard	639 20
1892	Die Deutsche Poliklinik	Reg. rents	No. 78 Seventh street	16 00
1890	Day Nursery and Babies' Shelter	"	No. 118 West Twenty-first street	20 00
1888	French Benevolent Society	"	No. 131 West Fourteenth street	27 00
1888	German Hospital Dispensary	Meter	Nos. 135 and 137 Second avenue	55 60
1888	German Hospital and Dispensary	"	Park avenue and Seventy-seventh street	724 70
1878	Hebrew Sheltering and Guardian Society	"	Northeast corner Eighty-seventh street and Avenue A	190 90
1888	Hebrew Sheltering and Guardian Society	"	West side Boulevard, One Hundred and Fiftieth and One Hundred and Fifty-first street	801 80
1888	Home for the Aged and Indigent Women	"	Southeast corner Tenth avenue and One Hundred and Fourth street	180 10
1888	Home for the Aged and Infirm Hebrews	"	Nos. 119 and 127 West One Hundred and Fifth street	282 30
1888	Hebrew Benevolent and Orphan Asylum Society	"	West side Tenth avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-eighth streets	2,441 30
1889	Home of Good Sheppard, St. Ann's Home	Reg. rents	Southeast corner Eighty-ninth street and Avenue A	38 80
1888	Hahnemann Hospital	Meter	East side Fourth avenue, between Sixty-seventh and Sixty-eighth streets	447 60
1890	Home for Old Men and Aged Couples	Reg. rents	Nos. 487 to 491 Hudson street	32 00
1889	Home for the Aged, Little Sisters of the Poor	Meter	Nos. 201 to 215 East Seventieth street	175 00
1889	Home for the Aged, Little Sisters of the Poor	"	North side West One Hundred and Sixth street, Ninth and Tenth avenues	175 10
1888	House of the Good Shepherd	"	Foot of East Ninetieth street	640 00
1888	"	"	Southeast corner Avenue A and Ninth street	327 80
1888	Lake and Watts Orphan Home	"	West One Hundred and Tenth street and Ninth avenue	96 30
1887	Manhattan Dispensary and Hospital	Reg. rents	One Hundred and Thirty-first street and Tenth avenue	32 00
1888	Manhattan Eye and Ear Hospital	Meter	No. 103 Park avenue	247 90
1888	Methodist Episcopal Church Home	"	Nos. 1584 to 1602 Tenth avenue	219 00
1839	Montifore Home for Chronic Invalids	"	Boulevard and West One Hundred and Thirty-eighth street	497 60
1888	Mount Sinai Hospital	"	East side Lexington avenue, Sixty-sixth and Sixty-seventh streets	1,091 60
1892	New York Institution for the Blind	"	East side Ninth avenue, between Thirty-third and Thirty-fourth streets	1,048 00
1888	New York Foundling Asylum	"	Third and Lexington avenues, Sixty-eighth and Sixty-ninth streets	1,220 80
"	"	"	Spuytgen Duyvil	128 40
1888	New York Asylum for Lying-in Women	Reg. rents	No. 139 Second avenue	12 00
1883	New York Cancer Hospital	Meter	Southwest corner One Hundred and Sixth street and Eighth avenue	269 10
"	"	"	No. 165 Chambers street, Nos. 7 to 21 West Fifteenth street	2,801 40
1888	New York Hospital and Bloomingdale Asylum	"	No. 8 West Sixteenth street; also Boulevard, One Hundred and Seventeenth and One Hundred and Eighteenth streets	1,402 20
1888	New York Homoeopathic Hospital	Reg. rents	West side avenue A, Sixty-third and Sixty-fourth streets	50 00
1888	New York Ophthalmic Hospital	Meter	No. 201 East Twenty-third street	122 50

YEAR.	INSTITUTION.	RATED.	LOCATION.	AMOUNT.
1890	New York Post Graduate	Reg. rents	No. 226 East Twentieth street	\$52 00
1888	New York Society for the Relief of Ruptured and Crippled	Meter	No. 135 East Forty-second street	454 50
1889	New York Infirmary for Women and Children	Reg. rents	Nos. 4 and 5 Livingston place	39 00
1889	New York Mothers' Home for the Sisters of Misericorde	"	No. 531 East Eighty-sixth street	21 00
1888	Nursery and Child's Hospital	Meter	No. 571 Lexington avenue	577 70
1891	New York Juvenile Asylum	"	East side Eleventh avenue, between One Hundred and Seventy-sixth and One Hundred and Seventy-eighth streets	1,662 20
1890	New York Eye and Ear Infirmary	"	No. 218 Second avenue	70 00
1888	Protestant Episcopal Orphan Home and Asylum	"	East Forty-ninth street, Lexington and Fourth avenues	241 90
1888	Presbyterian Hospital	"	Park avenue and East Seventieth street	756 70
1890	Peabody Home for Aged and Indigent Women	Reg. rents	Boston road and Clover street	.....
1888	Roman Catholic Orphan Asylum	"	East side Fifth avenue, Fifty-first and Fifty-second streets; south side East Fifty-second street, Fifth and Madison and Madison and Fourth avenues	1,709 00
1888	Roosevelt Hospital	Meter	South side West Fifty-ninth street, Ninth and Tenth avenues	1,040 90
1887	Sisters of the Order of St. Dominick	Reg. rents	Nos. 237 to 243 Second avenue	40 00
1888	Skin and Cancer Hospital	Meter	No. 243 East Thirty-fourth street, Fordham Heights	120 00
1886	Sloan Maternity Hospital	"	Fifty-ninth street and Tenth avenue	144 90
1888	St. Elizabeth Hospital	"	No. 225 West Thirty-first street	32 60
1888	St. Francis Hospital	"	No. 609 Fifth street	450 30
1888	St. Joseph's Hospital	Reg. rents	No. 328 East One Hundred and Ninth street	15 00
1888	St. Luke's Hospital	Meter	No. 17 West Fifty-fourth street	760 10
1888	St. Vincent's Hospital	"	Nos. 152 to 162 West Eleventh street and Nos. 160 to 174 West Twelfth street, Also Nos. 17 and 19 Seventh avenue	308 20 110 00
1888	St. James' Home	Reg. rents	No. 26 James street and No. 22 Oliver street	34 00
1888	St. Phillip's Parish Home	"	No. 127 West Thirtieth street	10 00
1888	St. Joseph's Home for the Aged	"	No. 211 West Fifteenth street	200 00
1883	St. Joseph's Orphan Asylum	"	North side Eighty-ninth street, First avenue and Avenue A	9 00
1888	St. Mary's Free Hospital for Children Society for the Relief of Half Orphans and Destitute Children	Meter	Nos. 405 and 407 West Thirty-fourth street	138 10
1890	St. Mary's Lodging-house	Reg. rents	Nos. 59 to 67 Tenth street	227 50
1891	St. Joseph's Industrial Home	"	No. 143 West Fourteenth street	33 00
"	"	"	No. 65 East Eighty-first street	240 00
"	Sheltering Arms	Reg. rents	South side One Hundred and Twenty-ninth street, between Amsterdam avenue and Broadway	34 40
"	"	"	West side Amsterdam avenue, between Lawrence street and Broadway	116 00
"	"	"	North side Lawrence street, between Amsterdam avenue and Broadway	21 85
1891	St. Joseph's Institute for the Improved Instruction of Deaf Mutes	"	Lorillard place, between One Hundred and Eighty-eighth and One Hundred and Eighty-ninth streets	24 00
1885	St. Stephen's Home, not exempt since 1887	Meter	Nos. 145 and 147 East Twenty-eighth street	300 40
1888	Trinity Corporation	"	No. 50 Varick street	86 40
1888	The Orphan Asylum of the City of New York	"	West Seventy-third street, between Eleventh avenue and Riverside Drive	435 60
1888	The Laura Franklin Free Hospital	"	Nos. 15 and 17 East One Hundred and Eleventh street	115 60
1890	The Home for the Aged of the Church of the Holy Communion	Reg. rents	No. 330 First avenue	11 00
1890	The St. Mark's Hospital	"	No. 66 St. Mark's place	15 00
1890	The Five Points Home of Industry	Meter	Nos. 147 and 155 Worth street	10 30
1890	The Colored Home and Hospital	"	First avenue, between Sixty-fourth and Sixty-fifth streets	1,309 50
1890	The New York Society for the Prevention of Cruelty to Children	Reg. rents	Nos. 100 and 102 East Twenty-third street	36 00
1890	The Babies' Hospital	"	No. 657 Lexington avenue	29 00
1891	The House of Mercy	Meter	Fourteenth avenue, between Two Hundred and Thirtieth and Two Hundred and Fiftieth streets	189 00
1890	The Guardian of the Sisterhood of the Holy Communion	Reg. rents	Nos. 323 Sixth avenue	27 00
1892	The Samaritan Home for the Aged	"	No. 414 West Twenty-second street	28 00
1892	The Institution for Improved Instruction of Deaf Mutes	Meter	West side Lexington avenue, from Sixty-seventh to Sixty-eighth streets	1,018 40
1892	The New York Home for Convalescents	Reg. rents	No. 433 East One Hundred and Eighteenth street	10 00
1892	The Free Home for Destitute Young Girls	"	No. 23 East Eleventh street	16 95
1892	The American Female Guardian Society	"	No. 32 East Thirtieth street, through to No. 29 East Twenty-ninth street	62 00
1888	Woman's Hospital	Meter	Fiftieth street and Park avenue	595 10
1891	West Side Day Nursery	Reg. Rents	No. 266 West Fortieth street	8 00
1891	Woman's Home	Meter	No. 110 Second avenue	82 50
\$31,029 60				

REVENUE.

THE FOLLOWING TABLE EXHIBITS THE REVENUE FROM CROTON WATER, FROM ITS INTRODUCTION IN 1842 TO JANUARY 1, 1893.		STATEMENT OF ARREARS OF WATER RENTS RETURNED TO THE CLERK OF ARREARS.		TOTAL REVENUE.
From 1842 to January 1, 1881	\$35,180,856 80	\$1,602,544 45		\$36,783,401 25
" Jan. 1, 1881, to Jan. 1, 1882	1,510,791 77	93,552 56		1,604,344 33
" " 1, 1882, " 1, 1883	1,647,183 25	100,743 81		1,747,927 06
" " 1, 1883, " 1, 1884	1,869,518 96	169,558 61		2,039,077 57
" " 1, 1884, " 1, 1885	1,985,329 32	164,689 55		2,150,018 87
" " 1, 1885, " 1, 1886	2,122,411 83	117,041 07		2,239,452 90
" " 1, 1886, " 1, 1887	2,343,792 61	165,425 18		2,509,217 79
" " 1, 1887, " 1, 1888	2,514,343 92	154,043 30		2,668,387 22
" " 1, 1888, " 1, 1889	2,437,962 66	149,100 25		2,587,062 91
" " 1, 1889, " 1, 1890	2,544,650 07	237,401 27		2,782,051 34
" " 1, 1890, " 1, 1891	2,675,135 86	304,869 38		2,980,005 24
" " 1, 1891, " 1, 1892	3,056,158 66	441,679 69		3,497,838 35
" " 1, 1892, " 1, 1893	3,002,647 35	.....		3,002,647 35
Total	\$62,890,793 06	\$3,700,649 12		\$66,591,442 18

The amount of revenue from the water service collected and paid into the City Treasury during the past year shows a decrease of \$53,521.31 less than the collection for the year 1891.

Respectfully submitted,

JOSEPH RILEY, Water Register.

METEOROLOGICAL OBSERVATORY

OF THE

DEPARTMENT OF PUBLIC PARKS
CENTRAL PARK, NEW YORK.

Latitude 40° 45' 58" N. Longitude 73° 57' 58" W. Height of Instruments above the Ground, 53 feet; above the Sea, 97 feet.

ABSTRACT OF REGISTERS FROM SELF-RECORDING INSTRUMENTS

For the Week Ending April 29, 1893.

Barometer.

DATE.	7 A.M.	2 P.M.	9 P.M.	MEAN FOR THE DAY.	MAXIMUM.	MINIMUM.
APRIL.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Time.
Sunday, 23	29.836	29.822	29.862	29.840	30.000	12 P.M.
Monday, 24	30.106	30.032	30.076	30.078	30.130	9 A.M.
Tuesday, 25	29.988	29.974	30.078	30.013	30.112	12 P.M.
Wednesday, 26	30.230	30.344	30.350	30.341	30.372	10 A.M.
Thursday, 27	30.154	29.940	29.996	30.030	30.292	0 A.M.
Friday, 28	30.080	29.952	29.926	29.986	30.084	8 A.M.
Saturday, 29	29.884	29.762	29.788	29.811	29.918	0 A.M.

Mean for the week 30.014 inches.
Maximum " at 10 A.M., April 26th 30.372 "
Minimum " at 7 P.M., April 29th 29.750 "
Range "622 "

Thermometers.

DATE.	7 A.M.	2 P.M.	9 P.M.	MEAN.	MAXIMUM.	MINIMUM.	MAXIMUM.
APRIL.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	In Sun.
Sunday, 23	40	38	50	45	42	45.0	41.6
Monday, 24	40	38	52	46	46	46.0	43.0
Tuesday, 25	47	45	48	48	48	47.5	47.0
Wednesday, 26	35	31	47	40	41	41.3	37.3
Thursday, 27	40	38	45	46	46	43.6	43.0
Friday, 28	45	45	60	56	56	54.3	52.3
Saturday, 29	53	53	55	52	51	53.0	52.6

Mean for the week 47.3 degrees.
Maximum for the week, at 4 P.M., 28th 66. " at 5 P.M., 28th 59. "
Minimum " at 7 P.M., 26th 31. " at 7 A.M., 26th 31. "
Range " 35. "

Wind.

DATE.		DIRECTION.			VELOCITY IN MILES.				FORCE IN POUNDS PER SQUARE FOOT					
					9 P.M. TO 7 A.M.	7 A.M. TO 2 P.M.	2 P.M. TO 9 P.M.	Distance for the Day.	7 A.M.	2 P.M.	9 P.M.	Max.	Time.	
APRIL.		7 A.M.	2 P.M.	9 P.M.	9 P.M. TO 7 A.M.	7 A.M. TO 2 P.M.	2 P.M. TO 9 P.M.	Distance for the Day.	7 A.M.	2 P.M.	9 P.M.	Max.	Time.	
Sunday,	23...	WSW	WNW	WNW	85	75	68	228	1¼	¾	¾	6¾	3.30 P.M.	
Monday,	24 ...	NW	SW	S	64	39	73	176	0	¾	½	3	5 P.M.	
Tuesday,	25....	SW	NW	WNW	64	25	4	94	0	0	0	½	10 A.M.	
Wednesday,	26....	NNE	NE	ESE	80	75	51	206	1¼	¾	0	4½	6 A.M.	
Thursday,	27....	E	NE	E	61	67	24	152	¾	¾	0	2	9 A.M.	
Friday,	28....	ESE	S	SW	8	40	73	121	0	1½	1¼	2½	8.20 P.M.	
Saturday,	29....	E	ENE	NE	27	40	16	83	0	0	0	¾	10 A.M.	

Distance traveled during the week 1,660 miles.
Maximum force " 6 1/2 pounds.

Hygrometer.

Clouds.

Rain and Snow. Ozone.

DATE. APRIL.	FORCE OF VAPOR.				RELATIVE HUMIDITY.				CLEAR, 0. OVERCAST, 10.			DEPTH OF RAIN AND SNOW IN INCHES.					
	7 A.M.	2 P.M.	9 P.M.	Mean.	7 A.M.	2 P.M.	9 P.M.	Mean.	7 A.M.	2 P.M.	9 P.M.	Time of Beginning.	Time of Ending.	Duration. H. M.	Amount of Water.	Depth of Snow. IN.	
Sunday, 23	.203	.234	.228	.222	82	64	75	74	2 Cir.	8 Cu.	0						
Monday, 24	.203	.232	.286	.240	82	60	92	78	0	0	0						
Tuesday, 25	.273	.335	.335	.314	84	100	100	95	10	10	0	8 A.M.	4 P.M.	8.00	.14		
Wedn'day, 26	.128	.156	.244	.176	63	48	91	67	0	0	8 Cu.						
Thursday, 27	.203	.299	.311	.271	82	100	100	94	10	10	10	3 A.M.	1.30 P.M.	10.30	.61		
Friday, 28	.299	.396	.422	.372	100	75	87	88	10	2 Cir.	0						
Saturday, 29	.403	.349	.374	.375	100	80	100	93	8 Cu.	10	10						

Total amount of water for the week75 inches.
Duration for the week 18 hours, 30 minutes.

DATE.	7 A.M.	2 P.M.
Sunday, April 23	Cool, pleasant	Cool, cloudy.
Monday, " 24	Cool, pleasant	Mild, pleasant.
Tuesday, " 25	Mild, drizzling	Mild, raining.
Wednesday, " 26	Cool, pleasant	Mild, pleasant.
Thursday, " 27	Cool, raining	Cool, overcast.
Friday, " 28	Mild, dense fog	Warm, pleasant.
Saturday, " 29	Mild, hazy	Cool, drizzling.

DANIEL DRAPER, PH. D., Director.

DEPARTMENT OF STREET IMPROVEMENTS,
TWENTY-THIRD AND TWENTY-FOURTH
WARDS.CITY OF NEW YORK—COMMISSIONER OF STREET IMPROVEMENTS,
TWENTY-THIRD AND TWENTY-FOURTH WARDS,
NO. 2622 THIRD AVENUE, CORNER 141ST STREET,
COMMISSIONER'S OFFICE, May 5, 1893.

To the Supervisor of the City Record:

Sir—In compliance with section 51 of chapter 410 of the Laws of 1882, the office of Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards makes the following report of its transactions for the week ending May 4, 1893:

Permits Issued.

For sewer connections	15
For Croton connections	21
For Croton repairs	9
For placing building material	15
For crossing sidewalk with team	3
For miscellaneous purposes	1
Total	64

Public Moneys Received.

For sewer connections	\$150 00
For restoring pavements	72 00
For use of steam roller	12 00
Total	\$234 00

Laboring Force Employed during the Week.

Foremen	5	Carpenter	1
Assistant Foreman	1	Painter	1
Engineer of Steam Roller	2	Paver	1
Skilled Laborers	6	Pruners	2
Sewer Laborers	6	Blacksmiths	2
Laborers	71	Cleaners	2
Carts	4		
Teams	15	Total	119

Total amount of requisitions drawn upon the Comptroller during the week \$17,928 57

Respectfully,
LOUIS F. HAFEN, Commissioner.

LAW DEPARTMENT.

The following schedules form a report of the transactions of the office of the Counsel to the Corporation for the week ending April 29, 1893:

The Mayor, Aldermen and Commonalty of the City of New York are defendants, unless otherwise mentioned.

SCHEDULE "A."

SUITS AND SPECIAL PROCEEDINGS INSTITUTED.

COURT.	REGIS-TER FOLIO.	WHEN COM-MENCED.	TITLE OF ACTION.	NATURE OF ACTION.
Supreme	44 212	1893, Apr. 25	Gallagher, Patrick, vs. The Mayor, etc., the Board of Education, etc., Richard Kelly, Joseph F. Fetterich, Lewis M. Hornthal and Jeremiah Fitzpatrick, as School Trustees of the Nineteenth Ward of the City of New York, and Adolph L. Sanger, as President of said Board of Education	For extra stone and brick work and materials furnished and used in the construction of school building on northwest corner of 51st street and 1st avenue, under contract of September 21, 1891.
"	44 214	" 25	Betts, Frederick H., J. E. Hindon Hyde and Samuel R. Betts, composing the firm of Betts, Atterbury, Hyde & Betts vs. The Mayor, etc., of the City of New York	For professional services and disbursements incurred in the suits of Campbell, Brickill and the Bragg Manufacturing Co. vs. The Mayor, etc., of the City of New York, during the years 1891, 1892 and 1893, \$10,945.86.
Surrogate's	44 215	" 29	Schweig, Henry (Matter of)	Probate of the last will and testament (Bellevue Hospital mentioned as a beneficiary).

SCHEDULE "B."

ORDERS AND JUDGMENTS ENTERED.

Ann McNelis—Order entered dismissing complaint without costs for lack of prosecution.
William C. Huson—Judgment entered in favor of the plaintiff for \$120 45.
The People of the State vs. Theodore W. Myers, Comptroller (No. 3)—Order entered directing peremptory writ of mandamus to issue, directing the Comptroller to pay to the State Treasurer the sum of \$254,135.53 the amount of the unpaid taxes for the fiscal year beginning October 1, 1890, and interest thereon from April 25, 1893.

SCHEDULE "C."

SUITS AND SPECIAL PROCEEDINGS TRIED AND ARGUED.

In the matter of the Fort Washington Ridge road—Motion for the appointment of Commissioners made before Truax, J.; motion granted; G. L. Sterling for the City.
The People ex rel. Bernard Finnegan vs. Ogden McDaniel, etc.—Motion for a writ of mandamus made before McAdam, J.; motion granted; J. M. Ward for the City.
In the matter of the One Hundred and Second street public school site—Motion to confirm the report of the Commissioners made before Truax, J.; motion granted; C. D. Olendorf for the City.
In the matter of the charges against Daniel Maskel—Hearing proceeded and adjourned to April 27, 1893; W. A. Sweetser for the City.
In the matter of Roendo Sanchez—Motion to dismiss the writ of habeas corpus made before Truax, J.; motion granted; G. A. Lavelle for the City.
William A. Saul vs. John F. Harriot, Property Clerk, etc.—Tried before Fallon, J.; judgment allowed for the plaintiffs; W. A. Sweetser for the City.
In the matter of Corlears Hook Park—Motion to confirm the report of the Commissioners made before Truax, J.; motion granted; S. J. Cowen for the City.
In the matter of William Drennan (One Hundred and Eighty-seventh street opening award)—Reference proceeded and adjourned to a date to be fixed; C. A. O'Neil for the City.
In the matter of Fritz Wendel; Sarah F. Fleming; Willis B. Marvin (One Hundred and Eighty-seventh street opening awards)—Reference proceeded and adjourned to May 3, 1893; C. A. O'Neil for the City.
Patrick Norton—Reference proceeded and adjourned to April 29, 1893; J. L. O'Brien for the City.
In the matter of the Edgecombe avenue public school site—Hearing on the objections proceeded and testimony closed; C. D. Olendorf for the City.
In the matter of the application of Jacob Lorillard et al.—Hearing before the Commissioners proceeded and adjourned to May 1, 1893; C. D. Olendorf for the City.
WM. H. CLARK, Counsel to the Corporation.

FINANCE DEPARTMENT.

Abstract of transactions of the Finance Department for the week ending May 6, 1893:

<i>Deposited in the Treasury.</i>	
To the Credit of the Sinking Fund.....	\$1,159,842 28
City Treasury.....	2,453,856 89
Total.....	\$3,613,699 17
<i>Bonds and Stock Issued.</i>	
Three per cent. Bonds.....	\$1,161,183 35
Four per cent. Bonds.....	300,000 00
Four and one-half per cent. Bonds.....	250,000 00
Three per cent. Stock.....	305,000 00
Total.....	\$2,016,183 35
<i>Warrants Registered for Payment.</i>	
The Mayoralty— Salaries and Contingencies—Mayor's Office.....	\$31 66
The Finance Department— Cleaning Markets.....	\$791 40
Contingencies—Comptroller's Office.....	110 49
Salaries—Finance Department.....	54 00
Interest on the City Debt.....	955 89
State Taxes and Common Schools for the State.....	1,050 00
Aqueduct Commissioners— Additional Water Fund.....	2,444 76
The Law Department— Contingencies—Law Department.....	1,730 25
The Department of Public Works— Aqueduct—Repairs, Maintenance and Strengthening.....	\$4,457 55
Boring Examinations for Grading and Sewer Contracts.....	103 50
Boulevards, Roads and Avenues, Maintenance of.....	1,850 66
Bronx River Works—Maintenance and Repairs.....	308 50
Contingencies—Department of Public Works.....	100 00
Criminal Court-house Fund.....	4,887 00
Croton Water Fund.....	8,268 75
Flagging Sidewalks and Fencing Vacant Lots, etc.....	17 50
Free Floating Baths.....	47 04
Fund for Viaduct from St. Nicholas Place to McComb's Dam Bridge.....	13,726 52
Lamps and Gas and Electric Lighting.....	573 40
Laying Croton Pipes.....	303 75
Public Buildings—Construction and Repairs.....	2,187 95
Removing Obstructions in Streets and Avenues.....	105 50
Repairing and Renewal of Pipes, Stop-cocks, etc.....	5,762 29
Repairs and Renewal of Pavements and Regrading.....	1,447 32
Repaving, Chapter 35, Laws of 1892.....	349 00
Restoring and Repaving—Special Fund—Department of Public Works.....	2,519 00
Roads, Streets and Avenues Unpaved, Maintenance and Sprinkling.....	699 12
Salaries—Department of Public Works.....	1,631 50
Sewers—Repairing and Cleaning.....	2,332 82
Street Improvement Fund, June 15, 1886.....	14,087 08
Street Improvements—For Surveying, Monumenting and Num- bering Streets.....	45 00
Supplies for and Cleaning Public Offices.....	1,029 25
Water Main Fund.....	54 00
	66,894 60
The Department of Public Parks— Bridge over the Harlem River at Third Avenue.....	\$25 00
Castle Garden, in Battery Park, etc.....	666 30
Cleaning Lakes in Central Park.....	59 25
East River Park, Improvement of.....	521 58
Harlem River Bridges—Repairs, Improvement and Maintenance..	1,022 75
Maintenance and Construction of New Parks north of Harlem River.....	1,247 10
Maintenance and Government of Parks and Places.....	34,599 60
Morningside Park, Improvement and Maintenance.....	198 64
Mount Morris Park, Construction of.....	32 50
New Park Fund.....	313 80
Riverside Park and Avenue, Improvement and Maintenance of..	591 94
Riverside Park, Construction of.....	178 79
Rutgers Slip Park, Improvement of.....	42 43
Surveys, Maps and Plans.....	28 01
	39,527 69
The Department of Street Improvements—Twenty-third and Twenty-fourth Wards— Bronx River Bridges.....	\$26 25
Cromwell's Creek Bridges.....	159 87
Final Maps and Profiles, Twenty-third and Twenty-fourth Wards	1,738 66
Maintenance—Twenty-third and Twenty-fourth Wards.....	1,030 22
Restoring and Repaving—Special Fund—Twenty-third and Twenty-fourth Wards.....	68 12
Sewers and Drains—Twenty-third and Twenty-fourth Wards....	276 46
Street Improvement Fund, June 15, 1886.....	34,278 31
Surveying, Laying-out, Maps, Plans, etc.—Twenty-third and Twenty-fourth Wards.....	3,696 10
Telephonic Services—Rents and Contingencies.....	1,327 75
	42,601 74
The Department of Public Charities and Correction— Public Charities and Correction.....	115,136 29
The Health Department— For Burial of Honorably Discharged Soldiers, Sailors or Marines.	\$490 00
For Removal of Night-soil, Offal and Dead Animals.....	3,000 00
Health Fund—For Contingent Expenses.....	20 95
Health Fund—For Disinfection.....	305 52
Health Fund—For Law Expenses.....	166 66
Health Fund—For Salaries.....	17,938 35
Hospital Fund—Hospital Supplies, Improvements, Care and Maintenance of Buildings and Hospitals on North Brother Island.....	2,818 14
	24,739 62
The Department of Street Cleaning— Cleaning Streets—Department of Street Cleaning.....	47,811 09
The Fire Department— Fire Department Fund.....	139,758 42
The Department of Buildings— Department of Buildings—Board of Examiners' Fees.....	\$390 00
Department of Buildings—Salaries.....	14,884 42
	15,274 42
The Department of Docks— Dock Fund.....	43,497 60

The Board of Education—	
College of the City of New York.....	\$379 84
Public Instruction.....	18,677 16
School-house Fund.....	15,045 67
The Normal College.....	357 73
	34,460 40
The Board of Excise—	
Commissioners of Excise Fund.....	10,259 92
Printing, Stationery and Blank Books—	
CITY RECORD—Salaries and Contingencies.....	\$741 65
Printing, Stationery and Blank Books.....	735 66
	1,477 31
Municipal Service Examining Boards—	
Civil Service of the City of New York, Expenses of.....	1,517 21
The Coroners—	
Coroners—Salaries and Expenses.....	4,082 27
The Commissioners of Accounts—	
Salaries—Commissioners of Accounts.....	30 00
The Sheriff—	
Salaries—Sheriff's Office.....	\$509 10
Sheriff's Fees.....	4,022 61
	4,531 71
The Judiciary—	
Salaries—City Courts.....	\$4,624 96
Salaries—Judiciary.....	558 25
	5,183 21
Charitable Institutions—	
For the Support of Children Committed by Police Magistrates ..	\$56,180 09
New York Infant Asylum.....	8,287 38
New York Juvenile Asylum.....	18,633 25
	83,100 72
Miscellaneous Purposes—	
Advertising.....	\$25 20
Armory Fund.....	16,682 16
Armories and Drill-rooms—Rents.....	8,687 50
Armories and Drill-rooms—Wages of Armors, Janitors, Engi- neers, Laborers, etc.....	4,130 00
Block Tax Assessment Map Fund.....	526 63
Bridge over the Harlem River at One Hundred and Fifty-fifth Street, Construction of.....	2,146 81
Bridge over the Harlem Ship Canal at Kingsbridge Road.....	96 99
Charity Hospital—Legacy from estate of Emma Steckler, deceased	109 50
Contingencies—District Attorney's Office.....	546 55
Croton Water Rent, Refunding Account.....	752 70
Disbursements and Fees of County Officers and Witnesses.....	723 45
Dog License Fund.....	56 00
Judgments.....	250 00
Jurors' Fees, including Expenses of Jurors in Civil and Criminal Trials.....	65 00
Rapid Transit Fund.....	330 30
Registration of Plumbers and Supervision of Plumbing and Drainage.....	60 00
Rents.....	10,554 16
Salaries—Board of Revision and Correction of Assessments (Salary of the Recorder).....	83 33
Salaries—Commissioners of the Sinking Fund (Salary of the Recorder).....	83 33
Salaries—Inspectors and Sealers of Weights and Measures.....	450 00
Unclaimed Salaries and Wages.....	141 18
	46,500 79
Total.....	\$982,597 57

SUITS, ORDERS OF COURT, JUDGMENTS, ETC.

COURT.	NAME OF PLAINTIFF.	AMOUNT.	NATURE OF ACTION.	ATTORNEY.
Supreme..	In matter of opening One Hundred and Thirty-ninth street, between Amsterdam and Convent avenues..		Notice of motion to confirm report of Com- missioners in said matter.....	W. H. Clark, Cor- poration Counsel.
"	In matter of opening One Hundred and Thirty-second street, from Twelfth avenue to Hudson river....	\$645 00	Certified copies orders confirming report and taxing bill of costs of Commissioners in said matter.....	W. H. Clark, Cor- poration Counsel.
"	Beatts, Atterbury, Hyde & Beatts....	10,945 86	Summons and complaint. For professional services, disbursements, etc., in various suits against the City for infringement of certain patents.....	J. R. Sheffield.
"			Certified copies orders confirming reports and taxing bills of costs of Commissioners in the following matters, viz.:	
"	Opening Boston ave- nue, from Sedgwick to Bailey avenue..	749 00		W. H. Clark, Cor- poration Counsel.
"	Opening One Hun- dred and Forty- second street, from Convent to Am- sterdam avenue..	682 00		W. H. Clark, Cor- poration Counsel.
"	Charles Miller, Jr....		Summons. Complaint not served.....	L. J. Grant.
"	Bridget Ryan, ad- ministratrix.....	6,213 30	Transcript of judgment.....	Truax & Crandall.
"	James Henry.....	500 00	Certified copy of order directing payment of awards made for Parcels Nos. 328 and 329, in matter of Pelham Bay Park, etc., as follows: To James Henry, \$264.16 and to Murty Clark, \$235.84.	C. B. Hubbell.
Com. Pleas	Francis Cook vs. The Mayor, etc., Samuel Smyth and others..	6,150 00	Notice of pendency of action.....	Deyo, Duer & Bauerdorf.
"	Hewitt Boyce vs. The Mayor, etc., V. Del Genovese and others.....	8,205 30	Summons and complaint. To foreclose lien for materials furnished under contract of Del Genovese & Towle, for regulating, etc., Gerard avenue, from One Hundred and Thirty-eighth street to Jerome avenue	W. H. Reed.
Superior..	Charles H. Russell, Receiver, etc.....	1,284 40	Summons and complaint. For return of amount paid for an assessment for regu- lating, etc., Madison avenue.....	A. B. Johnson.

CONTRACTS REGISTERED FOR THE WEEK ENDING MAY 6, 1893.

No.	DATE OF CONTRACT.	DEPARTMENT.	NAMES OF CONTRACTORS.	NAMES OF SURETIES.	AMOUNT OF BOND.	DESCRIPTION OF WORK.	COST.
12783	Apr. 24, 1893	Public Works.....	William F. Cunningham....	Patrick Sheehy Thomas Regan	\$1,500 00	Alteration and improvement to sewer in Willett street, between Rivington and Stanton streets..... Estimate	\$3,953 75
12784	" 25, "	"	John Madden.....	William Naegle..... John Ellard.....	2,500 00	Constructing sewer in One Hundred and Thirty-sixth street, between Fifth and Lenox avenues..... Estimate	5,356 00
12785	" 29, "	"	John P. Larney.....	Patrick Larney..... John J. Killian.....	2,000 00	Alteration and improvement to sewers in Columbia street, between Houston and Stanton streets..... Estimate	3,369 80
12786	" 29, "	"	"	Patrick Larney..... John J. Killian.....	2,000 00	Alteration and improvement to sewers in Goerck street, between Rivington and Stanton streets..... Estimate	3,790 00
12787	" 18, "	"	Mathias Theriault.....	John Howard..... The American Surety Com- pany of New York.....	500 00	Furnishing materials and labor for repairing pontoons, repairing and painting roofs, and painting fifteen free floating baths, and repairing and furnishing signal lamps for tinsmith's work..... Total	450 00
12788	" 10, "	Fire.....	The La France Fire Engine Company of Elmira, N.Y.	A. Spadone..... Matthew Hawe.....	2,000 00	Furnishing and delivering one (1) third size La France improved style steam fire engine..... Total	4,000 00
12789	" 10, "	"	The La France Fire Engine Company of Elmira, N.Y.	A. Spadone..... Henry E. Spadone.....	4,000 00	Furnishing and delivering two (2) extra second size new style La France Piston steam fire engines..... Total	8,600 00
12790	" 21, "	"	Frederick Pearce.....	William E. Dean..... C. melius Gallagher.....	700 00	Furnishing materials, labor, etc., required in repairing and altering signal boxes of the Fire Alarm Telegraph System.....	2,688 00
12791	" 24, "	Health.....	James McLoughlin.....	John Campbell..... Robert Power.....	1,500 00	Plumbing and gas-fitting of building formerly used for storing cement, situated near the foot of East Sixteenth street..... Total	2,323 00
12792	" 25, "	Docks.....	Charles Du Bois.....	Abraham Du Bois..... Henry E. Dubois.....	6,000 00	Dredging from Pier, old 5, to Pier, new 7, on the East river..... Estimate	14,656 00
12793	" 25, "	"	Henry D. Lanpher.....	John Peirce..... Thomas Gearty.....	8,800 00	Furnishing granite stones for bulkhead or river wall..... Estimate	26,405 83
12794	" 26, "	"	Morris & Cumings Dredg- ing Co.....	James D. Leary..... Daniel J. Leary.....	2,600 00	Removal of the outer portion of Pier, old 62, and dredging over site of same, and in the half slips adjoining, on the East river..... Estimate	6,580 00
12795	" 18, "	Public Charities and Correction...	George A. Trull.....	William E. Tefft..... John N. Beach.....	800 00	Furnishing and delivering dry goods, viz.: 2,500 yards cotton jean, 600 yards white flannel, 800 dozen pairs men's socks, 50 dozen pairs boys' stockings, 30 dozen basting cotton and 2,000 yards linen diaper..... Total	1,249 39
12796	" 18, "	"	Manhattan Supply Company	James S. Barron..... William H. Barron.....	1,500 00	Furnishing and delivering dry goods, etc., viz.: 1,200 yards prison cloth, 200 dozen men's knit shirts, 30 dozen men's knit drawers, 20 dozen pairs boys' socks, 200 women's shawls, 100 dozen cotton thread No. 30, white; 20 dozen cotton thread No. 30, black; 500 rubber sheets, 50 oilskin suits and 350 boys' caps..... Total	2,768 40
12797	" 25, "	"	W. H. Trainer.....	J. Howard Sweetser..... George D. Sweetser.....	1,000 00	Furnishing and delivering dry goods, viz.: 6,000 yards ticking, 2,000 yards cottonade, 800 yards light calico, 2,500 yards dark calico, 600 yards blue flannel, 3,000 yards awning stripe and 3,000 yards hickory stripe... Total	1,782 01
12798	" 25, "	"	Bloomingdale Bros.....	David E. Sicher..... Samuel Mayers.....	5,500 00	Furnishing and delivering dry goods, viz.: 40,000 yards brown muslin, 90,000 yards bandage muslin, 15,000 yards muslin, "Griswoldville Manufacturing Company"; 21,000 yards shroud muslin, 8,000 yards bleached muslin, 4-4; 2,000 yards bleached muslin, 8-4; 4,000 yards furniture checks, 200 yards red flannel, 3,000 yards canton flannel, 3,500 yards blue denim, 400 yards brown denim, 3,000 yards crash toweling, 2,000 yards huckabuck toweling, 500 dozen pairs women's stockings and 100 dozen pairs girls' stockings..... Total	10,544 42
12799	" 25, "	Public Works..... (Repaving under chapter 35, Laws of 1892.)	Barber Asphalt Paving Co..	John J. Albright..... E. Burgess Warren.....	20,000 00	Regulating and paving with asphalt pavement, on the present stone-block pavement, Henry street, from Oliver to Rutgers street; Rutgers street, from Henry street to East Broadway; Forsyth street, from Grand to Houston street, and Mulberry street, from Broome to Bleeker street..... Estimate	78,151 50
12800	" 25, "	Public Works..... (Repaving under chapter 25, Laws of 1892.)	"	John J. Albright..... E. Burgess Warren.....	10,000 00	Regulating and paving with asphalt pavement, on the present stone-block pavement, Irving place, from Fourteenth to Twentieth street, and Ninth street, from Fifth to Sixth avenue..... Estimate	36,240 25
12801	" 25, "	Public Works..... (Repaving under chapter 35, Laws of 1892.)	"	John J. Albright..... E. Burgess Warren.....	17,000 00	Regulating and paving with asphalt pavement, on the present stone-block pavement, Stanton street, from Clinton to Cannon street; Columbia street, from Broome to Houston street, and Second street, from Avenue A to Avenue D..... Estimate	71,585 00
12802	" 25, "	Public Works..... (Repaving under chapter 35, Laws of 1892.)	"	John J. Albright..... E. Burgess Warren.....	7,000 00	Regulating and paving with asphalt pavement, on the present stone-block pavement, Nineteenth street, from Fifth to Sixth avenue; Twenty-eighth street, from Fifth to Sixth avenue, and Thirtieth street, from Broadway to Sixth avenue..... Estimate	27,473 00
12803	" 25, "	Public Works..... (Repaving under chapter 35, Laws of 1892.)	"	John J. Albright..... E. Burgess Warren.....	15,000 00	Regulating and paving with asphalt pavement, on the present stone-block pavement, Thirty-fourth street, from Fourth to Eighth avenue. Estimate	58,755 00
12804	" 25, "	Public Works..... (Repaving under chapter 35, Laws of 1892.)	"	John J. Albright..... E. Burgess Warren.....	12,000 00	Regulating and paving with asphalt pavement, on the present stone-block pavement, Fifty-second street, from Broadway to Eighth avenue; Fifty-fifth street, from Third to Madison avenue; Fifty-sixth street, from Fifth to Sixth avenue, and Fifty-eighth street, from Madison to Lexington avenue..... Estimate	45,927 10
12805	" 25, "	Public Works..... (Repaving under chapter 35, Laws of 1892.)	"	John J. Albright..... E. Burgess Warren.....	14,000 00	Regulating and paving with asphalt pavement, on the present stone-block pavement, Sixty-second street, from Fifth to Madison avenue; Seven-tieth street, from Lexington to Madison avenue; Seventy-first street, from Third to Madison avenue, and Seventy-third street, from Eighth avenue to Boulevard..... Estimate	49,678 40
12806	" 25, "	Public Works..... (Repaving under chapter 35, Laws of 1892.)	"	John J. Albright..... E. Burgess Warren.....	12,000 00	Regulating and paving with asphalt pavement, on the present stone-block pavement, Seventy-fourth street, from Madison to Fourth avenue; Seventy-seventh street, from Fourth to Lexington avenue; Seventy-eighth street, from Madison to Fifth avenue, and Seventy-ninth street, from Madison to Fifth avenue, and from Second avenue to Avenue A..... Estimate	44,461 00
12807	" 25, "	Public Works..... (Repaving under chapter 35, Laws of 1892.)	"	John J. Albright..... E. Burgess Warren.....	15,000 00	Regulating and paving with asphalt pavement, on the present stone-block pavement, Ninety-second street, from Columbus to Amsterdam avenue; One Hundred and Twenty-first street, from Lenox to Seventh avenue; One Hundred and Twenty-sixth street, from Fifth to Seventh avenue, and One Hundred and Thirtieth street, from Lenox to Seventh avenue..... Estimate	53,314 80

CLAIMS FILED.

DATE.	NAME OF CLAIMANT.	AMOUNT.	NATURE OF CLAIM.	ATTORNEY.
May 1	Max Danziger, assignee	.....	For rent of premises No. 1104 First avenue, used as a polling place at the General Election of 1892.....	E. Cohn.
" 1	.....	.....	For awards made in matter of opening Cedar place, from Eagle to Union avenue, as follows:	"
" 3	William H. Ebling, Jr., William Ebling Willis W. Cary.....	\$198 66 3,558 80 327 36	Damage No. 3..... Damage Nos. 2, 9 and 10..... For award made to unknown owners by Damage Map No. 2, in matter of opening One Hundred and Fifty-fourth street, from Third to Railroad avenue.....	T. H. Baldwin. "
" 3	Lottie Lichtenstein	15,000 00	For damages for personal injuries.....	R. H. Smith. G. Hahn.
" 3	Benjamin Lichtenstein	2,000 00	For damages for loss of services of his wife Lottie, caused by personal injuries received by her by falling at Seventy-ninth street and Second avenue.....	"
" 4	Samuel Smyth, assignee	1,861 00	For amount claimed to be due under contract of Patrick Reilly for sewer in One Hundredth street, between Third and Park avenues.....	D. Leventritt.
" 4	James J. Faye and others, executors....	9,764 24	For return of amount paid for an assessment for Bradhurst avenue regulating, etc., from One Hundred and Forty-fifth to One Hundred and Fifty-fifth street.....	T. H. Baldwin.
" 4	Orson P. Raynor.....	500 00	For damage done to new naphtha launch by collision with steamer "Thomas S. Brennan".....	D. Leventritt.
" 5	William H. Peirce.....	846 00	Notice of lien on award made by Damage Map No. 7, in matter of opening Cedar place.....	"
" 5	Jeremiah Mulhall.....	500 00	For award made to unknown owners by Damage Map No. 134, in matter of opening Cathedral Parkway, etc.....	F. J. Demarest.
" 5	Francis S. Smith and others.....	130 00	For award made to unknown owners by Damage Map No. 357, in matter of Pelham Bay Park, etc.....	Sawyer & Getty.

Opening of Proposals.

The Comptroller, by representative, attended the opening of proposals at the following Departments, viz.:

- May 1. The Department of Public Works—For building a fence around property belonging to the City at Fifty-sixth street and Twelfth avenue, and for constructing a sewer in Ninety-eighth street, between West End avenue and Boulevard.
- May 3. The Mayor's Office—For alterations and repairs to the ship "New Hampshire," in use as an armory for the First Naval Battalion, State of New York.
- May 4. The Department of Docks—For preparing for and building a new crib-bulkhead adjoining the storehouse dock, Blackwell's Island, East river, and for building a boat-landing and for dredging thereat; for preparing for and building an iron awning shed, with appurtenances, on the pier at the foot of East Third street, and for dredging in the slip on the northerly side of Pier 61, East river.

Approval of Sureties.

The Comptroller approved of the adequacy and sufficiency of the sureties on the following proposals, viz.:

- May 2. For sewer in Ninety-eighth street, between West End avenue and Boulevard.
John J. Dowling, No. 2165 Second avenue, Principal.
John Cullen, No. 34 West One Hundred and Fifteenth street, } Sureties.
E. J. Moloughney, No. 843 Amsterdam avenue, }
- May 4. For preparing for and building an iron awning shed, with appurtenances, on pier at foot of West Thirty-fourth street.
Sheridan & Byrne, No. 145 East Sixty-seventh street, Principals.
William J. Willett, No. 1060 Park avenue, } Sureties.
Louis Roller, No. 212 St. Nicholas avenue, }
- May 4. For dredging in the slip on the northerly side of Pier 61, East river.
Morris & Cumings Dredging Company, No. 22 State street, Principal.
James D. Leary, No. 22 State street, } Sureties.
Edward S. Stokes, No. 7 West Twenty-fifth street, }

Return of Proposals.

- May 2. Proposal of Sheridan & Byrne, for building an iron awning shed, returned to the Department of Docks for action on the proposed substitution of Louis Roller as a surety thereon in the place of H. L. Callahan, one of the original sureties.

May 6. Proposal of Patrick Hardiman, for fencing at Fifty-sixth street and Twelfth avenue, returned to the Department of Public Works for action on the proposed substitution of John Slattery as a surety thereon in the place of Denis Keenan, one of the original sureties.

Appointed.

May 4. John G. Burnett, Paymaster's Extra Clerk, with compensation at rate of \$1,200 per annum.

Official Bonds Filed.

Joseph J. O'Donohue, Chamberlain, Principal.
 John D. Crammins, No. 40 East Sixty-eighth street,
 George Ehret, No. 1197 Park avenue,
 Stephen Lovejoy, No. 2013 Madison avenue,
 John Englis, No. 196 Clinton avenue, Brooklyn,
 Dated May 1, 1893. Penalty, \$500,000. } Sureties.

Michael T. Daly, Commissioner of Public Works, Principal.
 John McQuade, No. 203 East Eighty-ninth street,
 John Fleming, No. 1225 Lexington avenue,
 Dated May 1, 1893. Penalty, \$10,000. } Sureties.

Robert B. Nooney, Commissioner of Jurors, Principal.
 Henry Campbell, No. 94 Madison street,
 Thomas Regan, No. 719 Lexington avenue,
 Dated May 1, 1893. Penalty, \$5,000. } Sureties.

Frank L. Bacon, Paymaster's Fifth Clerk, Principal.
 American Surety Company, No. 160 Broadway,
 United States Guarantee Company, No. 111 Broadway,
 Dated April 22, 1893. Penalty, \$5,000. } Sureties.

John G. Burnett, Paymaster's Extra Clerk, Principal.
 United States Guarantee Company, No. 111 Broadway,
 Paul Fuller, No. 30 Washington Square,
 Dated May 4, 1893. Penalty, \$5,000. } Sureties.

THEO. W. MYERS, Comptroller.

AQUEDUCT COMMISSION.

Minutes of Stated Meeting of the Aqueduct Commissioners, held at their office, No. 209 Stewart Building, on Wednesday, April 26, 1893, at 3 o'clock P. M.

Present—Commissioners Duane, Tucker, Scott and Cannon.

The Committee of Finance and Audit reported their examination and audit of bills contained in vouchers Nos. 8715 to 8724, inclusive, amounting to \$1,423.67.

On motion of Commissioner Tucker, the same were approved and ordered certified to the Comptroller for payment.

The Construction or Executive Committee presented the following communication, received from the Chief Engineer :

NEW YORK, April 25, 1893.

To the Honorable the Committee on Construction :

GENTLEMEN—Since my report of last week the work of abating nuisances in the Croton watershed has proceeded as follows :

Several privies have been removed or discontinued, piles of manure have been removed, or in process of removal, and several barns have been emptied of their contents and cleaned, the owners having promised to discontinue the use of the same for such purposes as would renew the nuisances. Generally no resistance has been offered, but the work is not being done as expeditiously as is desired. I am taking means to expedite the work. In one case, owing to the continued dilatory motions of the owner, the work of removing a water-closet and manure-pile is being done by the City.

I have been requested by the Chief Engineer of the Department of Public Works to extend our jurisdiction over the whole of the Bog Brook water-shed.

I expect to submit to you shortly plans for the taking of the additional lands mentioned in my last communication.

At Carmel, as our jurisdiction is limited to the reservoir grounds, nothing important is to be added to my previous communication.

In the neighborhood of the Titicus Dam the work already reported on is about completed, and a survey is being made for the taking of one parcel of land (containing farm buildings) which projects inside of the general shore line in undesirable proximity to the water line, although no actual nuisance occurs there now.

A request has just been received from the Department of Public Works that we extend our jurisdiction over the whole of the water-shed of Titicus river, and I have asked Division Engineer Craven to hire the necessary force to meet the case.

In the Croton River Division (headquarters at Katonah) the plans for the taking of the now objectionable properties referred to in my report of April 19 are not as yet in my hands.

Outside of these preparations for permanent relief, the work of immediate removal of the worst nuisances is going on actively, and I have ordered Division Engineer Wegmann to lay a drain from the small lake near Katonah to the river ; it is to take the place of a foul ditch which, until now, received the drainage of a number of water-closets and other nuisances, and which, owing to the saturation of the ground with noxious liquids, would most probably continue to pollute the river for a long time, although all direct connections to it have been removed. This work was spoken of when the Commissioner of Public Works visited Katonah with his advisers and recommended by him. In a subsequent conference with Mr. Daly the construction of that drain was decided upon. The cost of the work will be about \$1,500.

In order to expedite the work I have instructed Division Engineer Gowen, in charge of the New Croton Dam, to extend his investigations further north into the grounds of the next division so as to divide the work more evenly between him and Division Engineer Wegmann.

In accordance with another communication to your committee of this date preparations are made, at the request of the Commissioner of Public Works, for the sale of the Palmer Hotel buildings at Pine's Bridge.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That the Chief Engineer be and hereby is directed to purchase the necessary materials and hire the necessary labor required to do the work recommended in the foregoing, and report the same to the Commissioners.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the action of the Chief Engineer in temporarily employing W. J. Sager, on the 15th instant, for work as Foreman on the New Croton Dam Division, at \$3.50 per day, be and hereby is approved.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the action of the Chief Engineer in temporarily employing the following-named persons, on the 17th instant, for work on the New Croton Dam Division be and hereby is approved :

Henry Bailey, Laborer, \$2 per day.

Bert Tompkins, Laborer, \$2 per day.

Royal Tompkins, Laborer, \$2 per day.

John Gallery, Jr., Laborer, \$2 per day.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the action of the Chief Engineer, in temporarily employing the following-named persons, on the 18th instant, for work at Katonah, N. Y., be and hereby is approved :

John Walsh, Bricklayer, \$3.50 per day.

Daniel Purdy, Laborer, \$1.75 per day.

On motion of Commissioner Tucker, the same was adopted.

The Committee also presented the following communication, received from the Chief Engineer :

NEW YORK, April 25, 1893.

To the Honorable the Committee on Construction :

GENTLEMEN—On November 2, 1892, you made an appropriation of \$1,000 for the purpose of improving the construction of the roof and the ventilation of the One Hundred and Thirty-fifth Street Gate-house.

You gave the contract to Mr. M. Halliday for the roof and ventilation work, which is now finished.

I would now recommend that the drainage be further improved by carrying copper leaders inside of the house into the chambers below.

My estimate of the cost of that work is \$212.

Mr. Halliday, who has just finished the other part of the work, agrees to complete it as above

mentioned for the sum of \$234, and I respectfully recommend that he be directed to put in five (5) copper leaders with copper bands, and do all the cutting and roof work necessary therefor for the sum of \$234, all to be of quality equal to the work already done by him, under the orders and to the satisfaction of the Engineer.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That the foregoing recommendation of the Chief Engineer be and hereby is approved, and he is hereby authorized and directed to employ Mr. M. Halliday to do the work above set forth, the same to be paid for out of the appropriation of \$1,000 made November 2, 1892.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, Transmittan Frank N. Speyer is hereby recommended to the Civil Service Commission for examination for promotion to the grade of Assistant Engineer.

On motion of Commissioner Tucker, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That the Secretary be and he is hereby directed to transmit to his Honor the Mayor a copy of report and resolution adopted by the Aqueduct Commissioners on October 28, 1891, in relation to the appointment of representatives of the Aqueduct Commissioners on the Municipal Civil Service Examining Board, and to request that he approve of the appointment of Chief Engineer Alphonse Fteley and Assistant Engineer Frederick W. Frost as such representatives.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of the Armstrong Express Company for hauling one load of boxes from Yonkers to New York, and hauling two loads of office furniture, etc., from Yonkers to Dunwoodie, N. Y., amounting to \$25, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of C. W. Palmer, for materials and labor in making boxes to be used for packing papers, etc., of Yonkers office, preparatory to removal from said office, amounting to ten dollars and twenty-two cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the accompanying bill of Alfred Craven, for freight paid on office furniture, instruments, etc., shipped from Dunwoodie to Carmel, N. Y., amounting to nineteen dollars and twenty cents, is hereby approved and ordered certified to the Comptroller for payment.

On motion of Commissioner Scott, the same was adopted.

The Committee also presented the following communication received from the Chief Engineer :

NEW YORK, April 26, 1893.

To the Honorable the Committee on Construction :

GENTLEMEN—With the approval of the President of the Aqueduct Commissioners, I have ordered for further facilitating the examination of the gates at the Brewster Dams the making of four (4) manholes, for which I have received bids from :

1. John Fox.....	\$100 00
2. Coldwell-Wilcox Company.....	198 00

The bid of John Fox is very reasonable, and I recommend that it be accepted.

I am, respectfully,

A. FTELEY, Chief Engineer.

—and recommended the adoption of the following resolution :

Resolved, That, upon the recommendation of the Chief Engineer, the work of making four manholes for the Brewster Dams is hereby awarded to John Fox, the lowest bidder, at his bid of \$100; and an appropriation of said amount is hereby made to cover the cost thereof.

The same was adopted by the following vote :

Affirmative—Commissioners Duane, Tucker, Scott and Cannon—4.

The Committee also presented forms of contract, specifications and bond received from the Commissioner of Public Works on April 21, 1893, to provide for constructing highways or roads and their appurtenances, fences, etc., at Reservoir "M," in the Town of North Salem, Westchester County, New York, and recommended the adoption of the following resolution :

Resolved, That the forms of contract, specifications and bonds submitted by the Commissioner of Public Works on April 21, 1893, and approved by the Counsel to the Corporation "as to form," for constructing highways or roads and their appurtenances, fences, etc., at Reservoir "M," in the Town of North Salem, Westchester County, New York, be and the same are hereby approved and adopted ; and the Secretary is hereby directed to have triplicate copies thereof prepared for certification by the Aqueduct Commissioners, and filed in accordance with section 25, chapter 490, Laws of 1883.

Resolved, That the President and Secretary be and they are hereby directed to advertise in the CITY RECORD, "New York Times" and the "Daily News," a notice and advertisement inviting sealed bids or proposals for constructing highways or roads and their appurtenances, fences, etc., at Reservoir "M," in the Town of North Salem, Westchester County, New York, as provided in the contract and specifications this day approved and adopted by the Aqueduct Commissioners.

On motion of Commissioner Scott, the same were adopted.

The Commissioners then adjourned.

J. C. LULLEY, Secretary.

NOTE.—On Wednesday, May 3, 1893, no quorum being present, the meeting stood adjourned.
 J. C. LULLEY, Secretary.

FIRE DEPARTMENT.

HEADQUARTERS FIRE DEPARTMENT,
 NEW YORK, February 15, 1893.

The Board of Commissioners met this day.

Present—President S. Howland Robbins, in the chair, and Commissioners Anthony Eickhoff and John J. Scannell.

TRIAL.

Fireman 1st grade Albert E. Jenkins, Engine 7, for "absence without leave" (two specifications). Accused failed to appear. Found guilty, and deemed to have resigned, under the provisions of section 436 of the Consolidation Act, on the 10th instant, and dismissed the service of the Department for unexplained absence without leave.

REQUISITIONS, ETC.,

were received and disposed of as follows :

Expenditures Authorized.

Automatic gas-saving governor.....	\$165 00
Battery supplies, construction materials, etc.....	400 00
Subway materials and subsidiary construction.....	600 00
Wood.....	380 00
Rope, etc.....	125 00
Castings.....	170 00
Closets.....	195 00
Paints and brushes.....	375 00
Furniture and bedding.....	623 00
Repairs to fire-boat "The New Yorker".....	30 00
extinguishers, ladders, wagons, etc.....	250 00
Plumbing and gas-fitting at foot of Bloomfield street.....	47 00
One wagon.....	425 00
One horse for Engine 21 and two horses for hose wagon, Engine 32.....	900 00

Referred.

For one horse for Chairman of Committee on Telegraph and Supplies, two horses for Engine 47, and one horse for Hook and Ladder 22, estimated cost of each, \$300. Back with directions to select.

Copy of resolution adopted by the Washington Heights Improvement Association, requesting location of an engine-house and more alarm-boxes north of One Hundred and Sixty-fifth street. To the President.

Filed.

Copy of specifications for proposed alterations to street boxes north of One Hundred and Thirtieth street, forwarded by the Superintendent of Telegraph with recommendations. Approved. Statement from Finance Department of condition of appropriations.

BILLS AND PAY-ROLLS AUDITED,

and ordered to be transmitted to the Finance Department for payment :

Schedule No. 150 of 1891, on February 15.

New houses for Engine and Hook and Ladder Companies..... \$4,612 50

Schedule No. 130 of 1892, on February 15.

Repairs and alterations to buildings..... \$50 00

Schedule No. 11 of 1893, on February 15.

Apparatus, supplies, etc..... \$7,075 40

Schedule No. 12 of 1893, on February 15.

Apparatus, supplies, etc..... \$550 70

Placing fire-alarm conductors underground..... 57 00

Salaries..... 1,516 89

Total..... \$2,124 59

COMMUNICATIONS, ETC.,

were received and disposed of as follows:

Referred.

Lists of lodging-houses, museums, hotels, music and concert halls and boarding-houses which have not complied with chapter 703, Laws of 1892. To the Attorney for prosecution.

Communication from Inspector of Combustibles, recommending discontinuance of legal proceedings. To the Attorney.

Filed.

Draft of bill amending chapter 703, Laws of 1892, submitted by the President, with the information that the bill was approved by the Mayor, as was also the bill to facilitate the acquisition of real estate for the Department, and that copies were sent to the Legislature. Approved.

Draft of circular announcing changes in the Board of Commissioners and appointment of committees, submitted by the President and approved.

Report of Chief of Eleventh Battalion as to meritorious action by members of the Department at fire No. 203 East One Hundred and Seventeenth street, on 8th instant, and report of Chief of Seventh Battalion as to meritorious action of Fireman 1st grade Lawrence McGuire, Hook and Ladder 12, at fire No. 1128 Broadway, on 12th instant, which were forwarded by the Chief of Department, with recommendations. Approved, with directions to enter on Roll of Merit.

Report of death of Fireman 1st grade Patrick Mead, Engine 8, on 7th instant.

Report of death of Fireman 1st grade Edward J. Brodenck, Hook and Ladder 7, on 10th instant.

Report that badge No. 300, lost by Fireman Clarey, Engine 36, has been found. Penalty remitted.

Report of loss of key No. 6 of Box 682.

On motion, the subject of providing new fire-line badges in place of those now in use was referred to the President, with power to obtain designs and estimates.

Adjourned.

CARL JUSSSEN, Secretary.

HEADQUARTERS FIRE DEPARTMENT,
NEW YORK, February 21, 1893.

The Board of Commissioners met this day.

Present—President S. Howland Robbins, in the chair, and Commissioners Anthony Eickhoff and John J. Scannell.

TRIAL.

Assistant Foreman Patrick F. Moran, Engine 25, for "absence without leave." Reprimanded

REQUISITIONS, ETC.,

were received and disposed of as follows:

Expenditure Authorized.

Fenders for fire-boat "Zophar Mills"..... \$13 50

Supplies..... 54 50

Wheels for Second Battalion wagon..... 85 00

Badges, buttons and devices..... 100 00

Sampson jacks and Siamese connections..... 125 25

Scaling ladders..... 360 00

Repairs to Fourth, Seventh and Ninth Battalion wagons (\$65 each)..... 195 00

Repairs to fire-boat "The New Yorker"..... 750 00

Carpenter work at Hospital Stables..... 241 00

Mason work at quarters of Engine 31..... 34 00

Plumbing..... 21..... 11 50

" " " 29..... 15 00

" " " 32..... 24 00

" " " 6..... 26 00

" " " 33..... 32 00

" " " 30..... 38 75

Plumbing and gas-fitting at Storehouse No. 20 Eldridge street..... 39 00

Steam-fitting at quarters of Engine 29 and Hook and Ladder 10..... 15 00

One horse for Engine 30 and two horses for Water-tower 2..... 900 00

Extra horse hire..... 300 00

Filed.

Statement from Finance Department of condition of appropriation.

Notice from Andrew H. Green, executor estate of W. B. Ogden, of expiration of lease of premises occupied by Hook and Ladder 19.

COMMUNICATIONS, ETC.,

were received and disposed of as follows:

Referred.

Report from Inspector of Combustibles of violations of law (chimney fires). Back, with directions to enforce collection of penalties.

Report from Inspector of Combustibles, recommending prosecution of John Stephenson Company, Limited, for violation of law. To the Attorney for prosecution.

Filed.

Applications of Firemen for advancement in grade, forwarded by the Chief of Department, with recommendation that advancements be made, to take effect from 1st proximo. Approved and ordered, as follows:

From Second to First Grade.

Thomas Kelly, No. 2, Engine 1. Thomas J. Hayes, Engine 31.

John F. Clemons, " 13. John Oberlander, " 55.

Joseph Crowley, " 20. James A. Gallagher, " 57.

David M. Hughes, " 29. Thomas J. D. Carrigan, Hook and Ladder

John J. Shevlin, " 30. 20.

Application of Engineer of Steamer John B. Andrews, Engine 26, for promotion.

Report of death of Blacksmith Patrick Christie.

Notice from the General Manager of "Das Morgen Journal" that the Mayor has designated that paper as the official German paper of the city.

Adjourned.

CARL JUSSSEN, Secretary.

POLICE DEPARTMENT.

The Board of Police met on the 5th day of May, 1893.

Present—Commissioners Martin, McClave and Sheehan.

Reports Ordered on File.

Superintendent—Leaves of absence granted under Rule 154.

Board of Surgeons—Disabilities for April.

Captain Reilly, Twenty-third Precinct—Relative to restoration to duty of Patrolman Nathan

Hertz.

Captain Strauss—Twenty-fifth Precinct—Relative to restoration to duty of Patrolman Thomas

J. Munday.

Contagious disease in family of Patrolman Edward Gallagher, Thirtieth Precinct.

Report of Van Tassel & Kearney, inclosing \$85.75, proceeds of sale of two horses, Thirty-

fourth Precinct, was referred to the Treasurer to pay into the Pension Fund.

Application of Patrolman Thomas J. Carter, Nineteenth Precinct, for full pay while sick was

denied.

Application of Margaret Doyle for pension was referred to the Committee on Pensions.

Application of Roundsman Samuel Hammond, Sixteenth Precinct, for Civil Service examination

was referred to the Superintendent for report.

Applications and Communications Ordered on File.

Civil Service Board—Eligible list for Doormen.

Civil Service Board—Certificate of consent to transfer of James Moore, Clerk of the First

Grade.

Patrolman James J. O'Neil, First Precinct, asking promotion.

Charles D. Haines, Member of Congress, asking promotion of Sergeant William Hogan.

George W. Reed, notice of having received a counterfeit silver dollar, series of 1891.

Communication from Charles Sullivan, calling attention to new system for steamship propulsion,

was referred to the Committee on Repairs and Supplies.

Communication from Mrs. Gall, No. 39 Beekman street, complaining of ball playing in street,

was referred to the Superintendent.

Communication from E. Saringhausen, bandmaster, asking employment on Police parade, was

referred to the Chief Clerk to answer.

Transfers.

Sergeant Dennis J. Brennan, from Sixth Precinct to Second Precinct.

Roundsman Joseph Burns, from First Precinct to Second Precinct.

" Charles Haussler, from Sixth Precinct to Thirty-first Precinct.

" Nelson J. Macnevin, from Thirty-sixth Precinct to Fourteenth Precinct.

" Cornelius G. Hayes, from Thirty-first Precinct to Sixth Precinct.

" William Colby, from Tenth Precinct to Twelfth Precinct.

" Conrad Griesel, from Tenth Precinct to Thirteenth Precinct.

" Michael Farley, from Twenty-first Precinct to Twenty-seventh Precinct.

Patrolman Peter Carter (No. 2), from Fourth Precinct to First Precinct.

" Thomas J. Munday, from Twenty-fifth Precinct to First Precinct.

" Robert J. Redmond, from Sixteenth Precinct to Twenty-fourth Precinct.

" Patrick H. Cosgrove, from Twenty-seventh Precinct to Twenty-second Precinct.

" Henry Van Zandt, from Fifth Precinct to Thirty-fifth Precinct.

Resolved, That the Board of Surgeons be directed to examine Patrolman William Adams,

Nineteenth Precinct, and report as to his physical condition with a view to retirement.

Resolved, That Patrick T. Reilly be granted a re-examination by the Surgeons.

Resolved, That the Committee of Surgeons be directed to examine the following applications

for appointment as Patrolmen:

John F. Diamond.

William McDermott.

Anthony Yost.

Promoted to Roundsman.

Patrolman Charles D. Kemp, Nineteenth Precinct, assigned to Twenty-first Precinct.

Appointed to Patrolman.

Henry Gardner, Thirteenth Precinct.

Employed as Probationary Patrolmen.

William F. Armand.

John O'Rourke.

Thomas A. Donohue.

George H. Eckhoff.

John Schussler.

The report of the Superintendent relative to the efficiency of the police force during the last Columbian Celebration (naval and shore parades) and recommending that twenty-four hours' leave of absence, with pay, in addition to the summer vacation, be granted to Sergeants, Roundsmen and Patrolmen in recognition of such service, was received; and it was

Resolved, That the recommendation of the Superintendent be approved, and in connection therewith the Board of Police desires to express their appreciation of the manner in which the officers and members of the police performed their duties upon the occasion of the recent Columbian Celebration, and we especially commend the efficiency of the Superintendent and Inspectors of Police, as shown in the perfection of all the details necessary to insure the success obtained.

Resolved, That the resolution of February 7, 1893, granting summer vacations, be and is hereby amended so that Roundsmen shall be granted leave of absence of ten days with pay, or twenty days with half pay.

On reading communication from the Comptroller, it was

Resolved, That the Board of Estimate and Apportionment be and is hereby respectfully requested to transfer the sum of \$33,652.48 from the appropriation made to the Police Department for the year, 1892, entitled "Election Expenses," which is in excess of the amount required for the purposes and objects thereof, to the appropriation made to the same Department for the year 1893, entitled "Election Expenses," which is insufficient, to enable the Comptroller to pay the expenses of the Special Election of March 21, 1893, viz.:

Compensation of Inspectors, Poll Clerks and Ballot Clerks..... \$20,520 00

Rent of polling places, etc..... 7,080 00

Sundry petty accounts..... 365 98

Publishing official canvass..... 3,090 60

Printing official ballots..... 1,185 90

Maps, stationery and printing per Order 332..... 1,410 00

\$33,652 48

Resolved, That the opinion of the Counsel to the Corporation be respectfully requested whether final payment should be made to John H. Deeves and Richard H. Deeves, under contract for building a station-house, lodging-house and prison on East One Hundred and Fourth street, without taking action against them for the non-performance of the terms of their contract in not completing the work until nearly six months after the time therefor had expired.

On recommendation of the Committee on Repairs and Supplies, the new station-house in East One Hundred and Fourth street was accepted from the contractors, and the Superintendent was directed to detail six officers (from detailed men) for duty temporarily at such Station-house.

Resolved, That when the new Station-house in East One Hundred and Fourth street shall be declared open and ready for occupation, the northerly boundary of the Twenty-seventh Precinct shall be the centre line of East Ninety-sixth street, from Fifth avenue to the East river, and the southerly boundary of the Twenty-ninth Precinct shall be the centre line of East One Hundred and Sixteenth street, from Sixth avenue to the East river.

Resolved, That the new precinct be formed of the territory bounded as follows: Beginning at the centre line of Sixth avenue and One Hundred and Sixteenth street; thence southerly to south curb-line of One Hundred and Tenth street; thence easterly to west curb-line of Fifth avenue; thence southerly to centre line of East Ninety-sixth street; thence easterly to the East river; thence north-easterly to and around Ward's Island by way of Little Hell Gate and to the foot of East One Hundred and Sixteenth street; thence westerly along centre line of One Hundred and Sixteenth street to the place of beginning.

Resolved, That Randall's Island shall continue within the boundary of the Twenty-ninth Precinct.

Resolved, That the new precinct shall be known and designated as the Twenty-eighth Precinct, and that the present Twenty-eighth Precinct shall be known and designated as the Thirty seventh Precinct.

Resolved, That the bill of the Secretary of State, two dollars and twenty cents, for certified copy of chapter 469, Laws of 1893, be and is hereby ordered to be paid by the Treasurer—all aye.

Judgments—Fines Imposed.

Sergeant James P. Tucker, Tenth Precinct, conduct unbecoming an officer, five days' pay.

" James P. Tucker, Tenth Precinct, neglect of duty, fifteen days' pay.

" James P. Tucker, Tenth Precinct, neglect of duty, ten days' pay.

Roundsman James Conway, Twenty-second Precinct, neglect of duty, two days' day.

Patrolman Daniel Shaw, Second Precinct, neglect of duty, three days' pay.

" William H. Ahearn, Fourth Precinct, neglect of duty, one-half day's pay.

" John Adams, Fourth Precinct, neglect of duty, one-half day's pay.

" Bernard Nevins, Sixth Precinct, neglect of duty, one-half day's pay.

" William F. Dornan, Seventh Precinct, neglect of duty, one-half day's pay.

" Charles H. De Voursney, Eighth Precinct, neglect of duty, three days' pay.

" Ralph H. Boylan, Ninth Precinct, neglect of duty, one-half day's pay.

" Charles L. Verman, Tenth Precinct, neglect of duty, one-half day's pay.

" David K. Faris, Tenth Precinct, neglect of duty, one day's pay.

" Charles H. Connolly, Eleventh Precinct, neglect of duty, one-half day's pay.

" Philip F. Birmingham, Thirteenth Precinct, neglect of duty, one day's pay.

" John Kelly, Eighteenth Precinct, neglect of duty, one-half day's pay.

" Charles Lake, Nineteenth Precinct, neglect of duty, three days' pay.

" John J. Dein, Nineteenth Precinct, neglect of duty, one day's pay.

" James L. Price, Twentieth Precinct, neglect of duty, one day's pay.

" Michael Crowley, Twenty-second Precinct, neglect of duty, one-half day's day.

" William Wegman, Twenty-second Precinct, neglect of duty, five days' pay.

" Miles J. Forbes, Twenty-third Precinct, neglect of duty, one day's pay.

" Peter Helmus, Twenty-third Precinct, neglect of duty, one-half day's pay.

" Alfred Ahrens, Twenty-fourth Precinct, neglect of duty, three days' pay.

" William A. Clark, Twenty-fourth Precinct, neglect of duty, one-half day's pay.

" Frederick Mead, Twenty-fourth Precinct, neglect of duty, three days' pay.

" Frank J. Borst, Twenty-fourth Precinct, neglect of duty, three days' pay.

" John H. Conway, Twenty-fourth Precinct, neglect of duty, one-half day's pay.

" Edward Lammers, Twenty-fifth Precinct, neglect of duty, one day's pay.

Patrolman Thomas J. Gunson, Twenty-fifth Precinct, neglect of duty, one-half day's pay.
 " Frank Archibald, Twenty-fifth Precinct, neglect of duty, three days' pay.
 " John Heidelberg, Twenty-sixth Precinct, neglect of duty, one-half day's pay.
 " John J. Gehan, Twenty-ninth Precinct, neglect of duty, one day's pay.
 " John F. Powers, Twenty-ninth Precinct, neglect of duty, one-half day's pay.
 " Bernard McMahon, Thirtieth Precinct, neglect of duty, one-half day's pay.
 " James A. Reilly, Thirtieth Precinct, neglect of duty, one day's pay.
 " Joseph P. Gorman, Thirtieth Precinct, neglect of duty, one-half day's pay.
 " James Frawley, Thirty-first Precinct, neglect of duty, one day's pay.
 " John P. Mahoney, Thirty-first Precinct, neglect of duty, one day's pay.
 " Elvin K. Schoonhoven, Thirty-second Precinct, neglect of duty, one-half day's pay.
 " William H. Whittle, Thirty-third Precinct, neglect of duty, one-half day's pay.
 " Thomas Palmer, Seventh Precinct, neglect of duty, one-half day's pay.
 " James J. Doherty, Eighth Precinct, neglect of duty, three days' pay.
 " James J. Doherty, Eighth Precinct, neglect of duty, one day's pay.
 " Louis Schindler, Eleventh Precinct, neglect of duty, one-half day's pay.
 " John Murphy, Twenty-seventh Precinct, neglect of duty, one day's pay.
 " Frederick B. Miller, Thirty-fifth Precinct, neglect of duty, one-half day's pay.
 " George Larr, Eighth Precinct, neglect of duty, five days' pay.
 " Matthew Shea, Tenth Precinct, neglect of duty, one-half day's pay.
 " John Hodge, Eleventh Precinct, neglect of duty, one-half day's pay.
 " Frank J. Gallagher, Eleventh Precinct, neglect of duty, one-half day's pay.
 " John Kennel, Thirteenth Precinct, neglect of duty, one-half day's pay.
 " John W. Toomey, Thirteenth Precinct, neglect of duty, one day's pay.
 " Louis E. Katz, Fourteenth Precinct, neglect of duty, one-half day's pay.
 " William Williamson, Twentieth Precinct, neglect of duty, one day's pay.
 " Charles Townsend, Twenty-second Precinct, neglect of duty, one-half day's pay.
 " Thomas Whelan, Twenty-fifth Precinct, neglect of duty, one day's pay.
 " Thomas J. Mulholland, Twenty-seventh Precinct, neglect of duty, one-half day's pay.
 " Charles B. Von Gerichten, Thirtieth Precinct, neglect of duty, one-half day's pay.

Reprimands.

Patrolman Michael Nolan, Eighth Precinct, neglect of duty.
 " Joseph F. Jennings, Ninth Precinct, neglect of duty.
 " James H. Hay, Eighteenth Precinct, neglect of duty.
 " Thomas Burke, Eighteenth Precinct, neglect of duty.
 " Christopher Dixon, First Court, neglect of duty.

Complaints Dismissed.

Roundsman Patrick Leonard, Fifth Precinct, neglect of duty.
 Patrolman Thomas F. Carley, Nineteenth Precinct, neglect of duty.
 " Charles D. Smith, Nineteenth Precinct, neglect of duty.
 " Francis Becker, Twenty-sixth Precinct, neglect of duty.
 " Frank Weiser, Thirty-fifth Precinct, neglect of duty.

Ad jourmed.

WM. H. KIPP, Chief 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, 10 A. M. to 12 M.
 THOMAS F. GILROY, Mayor. WILLIS HOLLY, Secretary and Chief Clerk.

Mayor's Marshal's Office.

No. 1 City Hall, 9 A. M. to 4 P. M.
 DANIEL ENGELHARD, First Marshal.
 DANIEL M. DONEGAN, Second Marshal.

AQUEDUCT COMMISSIONERS.

Room 209, Stewart Building, 5th floor, 9 A. M. to 4 P. M.
 JAMES C. DUANE, President; JOHN J. TUCKER, FRANCIS M. SCOTT, H. W. CANNON, and the MAYOR, COMPTROLLER and COMMISSIONER OF PUBLIC WORKS; ex officio, Commissioners; J. C. LULLY, Secretary; A. FETLEY, Chief Engineer; E. A. WOLFF, Auditor.

COMMISSIONERS OF ACCOUNTS.

Rooms 114 and 115, Stewart Building, 9 A. M. to 4 P. M.
 CHARLES G. F. WAHLE and EDWARD OWEN.

BOARD OF ARMY COMMISSIONERS.

THE MAYOR, Chairman; PRESIDENT OF DEPARTMENT OF TAXES AND ASSESSMENTS, Secretary.
 Address EDWARD P. BARKER, Staats Zeitung Building, Tryon Row. Office hours, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

COMMON COUNCIL.

Office of Clerk of Common Council.

No. 8 City Hall, 9 A. M. to 4 P. M.
 GEORGE B. McCLELLAN, President Board of Aldermen.
 MICHAEL F. BLAKE, Clerk Common Council.

DEPARTMENT OF PUBLIC WORKS

No. 31 Chambers street, 9 A. M. to 4 P. M.
 MICHAEL T. DALY, Commissioner; MAURICE F. HOLAHAN, Deputy Commissioner (Room A).
 ROBERT H. CLIFFORD, Chief Clerk (Room 6).
 GEORGE W. BIRDSALL, Chief Engineer (Room 9); JOSEPH RILEY, Water Register (Rooms 2, 3 and 4); WM. M. DEAN, Superintendent of Street Improvements (Room 5); HORACE LOOMIS, Engineer in Charge of Sewers (Room 9); WILLIAM G. BERGEN, Superintendent of Repairs and Supplies (Room 15); MAURICE FEATHERSON, Water Purveyor (Room 1); STEPHEN MCCORMICK, Superintendent of Lamps and Gas (Room 11); JOHN L. FLORENCE, Superintendent of Streets and Roads (Room 12); MICHAEL F. CUMMINGS, Superintendent of Incumbrances (Room 16).

DEPARTMENT OF STREET IMPROVEMENTS

Twenty-third and Twenty-fourth Wards.
 No. 2622 Third avenue, northeast corner of One Hundred and Forty-first street. Office hours, 9 A. M. to 4 P. M.; Saturdays, 12 M.
 LOUIS F. HAFEN, Commissioner; JACOB SEABOLD, Deputy Commissioner; WM. H. TEN EYCK, Secretary.

FINANCE DEPARTMENT

Comptroller's Office.

No. 15 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
 THEODORE W. MYERS, Comptroller; RICHARD A. STORRS, Deputy Comptroller; D. LOWBER SMITH, Assistant Deputy Comptroller.

Auditing Bureau.

Nos. 19, 21, 23 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
 WILLIAM J. LYON, First Auditor.
 JOHN F. GOULDSBURY, Second Auditor.

Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents.
 Nos. 31, 33, 35, 37, 39 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
 OSBORNE MACDONALD, Collector of Assessments and Clerk of Arrears.
 No money received after 2 P. M.

Bureau for the Collection of City Revenue and of Markets.
 Nos. 1 and 3 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
 JOHN A. SULLIVAN, Collector of the City Revenue and Superintendent of Markets.
 No money received after 2 P. M.

DEPARTMENT OF DOCKS.

Battery, Pier A, North river.
 J. SERGEANT CRAM, President; JAMES J. PHELAN and ANDREW J. WHITE, Commissioners; AUGUSTUS T. DOCHARTY, Secretary.
 Office hours, from 9 A. M. to 4 P. M.

DEPARTMENT OF TAXES AND ASSESSMENTS

Staats Zeitung Building, Tryon Row, 9 A. M. to 4 P. M. Saturdays, 12 M.
 EDWARD P. BARKER, President; JOHN WHALEN and JOSEPH BLUMENTHAL, Commissioners; FLOYD T. SMITH, Secretary.

DEPARTMENT OF STREET CLEANING

Stewart Building. Office hours, 9 A. M. to 4 P. M.
 THOMAS S. BRENNAN, Commissioner; JOHN J. RYAN, Deputy Commissioner; J. JOSEPH SCULLY, Chief Clerk.

CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS.

Cooper Union, 9 A. M. to 4 P. M.
 JAMES THOMSON, Chairman; WILLIAM HILDRETH FIELD and HENRY MARQUAND, Members of the Supervisory Board; LEE PHILLIPS, Secretary and Executive Officer.

BOARD OF ESTIMATE AND APPORTIONMENT

THE MAYOR, Chairman; E. P. BARKER (President, Department of Taxes and Assessments), Secretary; the COMPTROLLER and PRESIDENT OF THE BOARD OF ALDERMEN, Members; CHARLES V. ADER, Clerk.
 Office of Clerk, Staats Zeitung Building, Room 5.

BOARD OF ASSESSORS.

Office, 27 Chambers street, 9 A. M. to 4 P. M.
 EDWARD GILON, Chairman; EDWARD CAHILL, CHARLES E. WENDT and PATRICK M. HAVERTY; WM. H. JASPER, Secretary.

BOARD OF EXCISE.

No. 54 Bond street, 9 A. M. to 4 P. M.
 LEICESTER HOLME, WILLIAM S. ANDREWS and WILLIAM DALTON, Commissioners; JAMES F. BISHOP, Secretary.

SHERIFF'S OFFICE.

Nos. 6 and 7 New County Court-house, 9 A. M. to 4 P. M.
 JOHN J. GORMAN, Sheriff; JOHN B. SEXTON, Under Sheriff.

REGISTER'S OFFICE.

East side City Hall Park, 9 A. M. to 4 P. M.
 FERDINAND LEVY, Register; JOHN VON GLAHN, Deputy Register.

COMMISSIONER OF JURORS.

Room 127, Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
 ROBERT B. NOONEY, Commissioner; JAMES E. CONNER, Deputy Commissioner.

COUNTY CLERK'S OFFICE.

Nos. 7 and 8 New County Court-house, 9 A. M. to 4 P. M.
 HENRY D. PURROY, County Clerk; P. J. SCULLY, Deputy County Clerk.

DISTRICT ATTORNEY'S OFFICE.

Second floor, Brown-stone Building, City Hall Park 9 A. M. to 4 P. M.
 DE LANCEY NICOLL, District Attorney; EDWARD T. FLYNN, Chief Clerk.

THE CITY RECORD OFFICE,

And Bureau of Printing, Stationery, and Blank Books
 No. 2 City Hall, 9 A. M. to 5 P. M., except Saturdays, on which days 9 A. M. to 12 M.
 W. J. K. KENNY, Supervisor; DAVID RYAN, Assistant Supervisor; JOHN J. MCGRATH, Examiner.

CORONERS' OFFICE.

No. 27 Chambers street, 8 A. M. to 5 P. M. Sundays and holidays, 8 A. M. to 12.30 P. M.
 MICHAEL J. B. MESSEMER, LOUIS W. SCHULTZE, JOHN B. SHEA, and WILLIAM J. MCKENNA, Coroners; EDWARD F. REYNOLDS, Clerk of the Board of Coroners.

SURROGATE'S COURT.

New County Court-house. Court opens at 10.30 A. M. adjourns 4 P. M.
 RASTUS S. RANSOM and FRANK T. FITZGERALD, Surrogates; WILLIAM V. LEARY, Chief Clerk.

OVER AND TERMINER COURT

New County Court-house, second floor, southeast corner Room No. 12. Court opens at 10½ o'clock A. M.
 JOHN F. CARROLL, Clerk. Office, Brown-stone Building, City Hall Park, second floor, northwest corner, Room No. 11, 10 A. M. till 4 P. M.

COURT OF SPECIAL SESSIONS.

At Tombs, corner Franklin and Centre streets, daily at 10.30 A. M., excepting Saturday.
 JAMES P. KEATING, Clerk. Office, Tombs

SUPREME COURT

Second floor, New County Court-house, opens 10.30 A. M.; adjourns 4 P. M.
 CHARLES H. VAN BRUNT, Presiding Justice; GEORGE L. INGRAM, ABRAHAM R. LAWRENCE, GEORGE C. BARRETT, GEORGE P. ANDREWS, EDWARD PATTERSON and MORGAN J. O'BRIEN, Justices; HENRY D. PURROY, Clerk.

General Term, Room No. 9, WILLIAM LAMB, Jr., Clerk Special Term, Part I., Room No. 10, HUGH DONNELLY, Clerk.
 Special Term, Part II., Room No. 18, WILLIAM J. HILL, Clerk.
 Chambers, Room No. 11, AMERSE A. MCCALL, Clerk.
 Circuit, Part I., Room No. 12, WALTER A. BRADY, Clerk.
 Circuit, Part II., Room No. 14, JOHN LERSCHER, Clerk.
 Circuit, Part III., Room No. 13, GEORGE F. LYON, Clerk.
 Circuit, Part IV., Room No. 15, J. LEWIS LYON, Clerk.

COURT OF GENERAL SESSIONS

No. 35 Chambers street. Court open at 11 o'clock A. M. adjourns 4 P. M.
 FREDERICK SMYTH, Recorder; RANDOLPH B. MARTINE, JAMES FITZGERALD and RUFUS B. COWING, Judges.
 JOHN F. CARROLL, Clerk. Office, Room No. 11, 10 A. M. till 4 P. M.

DISTRICT CIVIL COURTS.

First District—Third, Fifth and Eighth Wards, and all that part of the First Ward lying west of Broadway and Whitehall street. Court-room, southwest corner of Centre and Chambers streets.
 WAHOPE LYNN, Justice. LOUIS C. BRUNS, Clerk. Clerk's Office open from 9 A. M. to 4 P. M.
 Second District—Second, Fourth, Sixth and Fourteenth Wards, and all that portion of the First Ward lying south and east of Broadway and Whitehall street. Court-room, corner of Grand and Centre streets.
 CHARLES M. CLANCY, Justice. JAMES DUNPHY, Clerk. Clerk's Office open from 9 A. M. to 4 P. M.
 Third District—Ninth and Fifteenth Wards. Court room, southwest corner Sixth avenue and West Tenth street. Court open daily (Sundays and legal holidays excepted) from 9 A. M. to 4 P. M.
 WM. F. MOORE, Justice. WILLIAM H. CORSA, Clerk.

Fourth District—Tenth and Seventeenth Wards. Court-room, No. 30 First street, corner Second avenue. Court opens 9 A. M. daily, and remains open to close of business.
 ALFRED STECKLER, Justice. JULIUS HARBURGER, Clerk.

Fifth District—Seventh, Eleventh and Thirteenth Wards. Court-room, No. 154 Clinton street.
 HENRY M. GOLDFOGLE, Justice. JOHN DUANE, Jr., Clerk.

Sixth District—Eighteenth and Twenty-first Wards. Court-room, northwest corner Twenty-third street and Second avenue. Court opens 9 A. M. daily; continues open to close of business.
 SAMSON LACHMAN, Justice. PHILIP AHERN, Clerk.

Seventh District—Nineteenth Ward. Court-room No. 151 East Fifty-seventh street. Court opens every morning at 9 o'clock (except Sundays and legal holidays), and continues open to the close of business.
 JOHN B. MCKEAN, Justice. SYLVESTER E. NOLAN, Clerk.

Eighth District—Sixteenth and Twentieth Wards. Court-room, southwest corner Twenty-second street and Seventh avenue. Court opens at 9 A. M. and continues open to close of business.
 Clerk's office open from 9 A. M. to 4 P. M. each court day.

Trial days, Wednesdays, Fridays and Saturdays. Return days, Tuesdays, Thursdays and Saturdays.
 JOHN JEROLMAN, Justice. CARSON G. ARCHIBALD, Clerk.

Ninth District—Twelfth Ward, except all that portion of the said ward which is bounded on the north by the centre line of One Hundred and Tenth street, on the south by the centre line of Eighty-sixth street, on the east by the centre line of Sixth avenue, and on the west by the North river. Court-room, No. 170 East One Hundred and Twenty-first street, southeast corner of Sylvan place.
 JOSEPH P. FALLON, Justice. WILLIAM J. KENNEDY, Clerk.

Clerk's office open daily from 9 A. M. to 4 P. M. Trial days, Tuesdays and Fridays. Court opens at 9½ A. M.

Tenth District—Twenty-third and Twenty-fourth Wards. Court-room, corner of Third avenue and One Hundred and Fifty-eighth street.

Office hours, from 9 A. M. to 4 P. M. Court opens at 9 A. M.
 WILLIAM G. MCCREA, Justice. WM. H. GERMAINE, Clerk.

Eleventh District—Twenty-second Ward, and all that portion of the Twelfth Ward which is bounded on the north by the centre line of One Hundred and Tenth street, on the south by the centre line of Eighty-sixth street, on the east by the centre line of Sixth avenue, and on the west by the North river. Court-room, No. 919 Eighth avenue. Court open daily (Sundays and legal holidays excepted) from 9 A. M. to 4 P. M.
 THOMAS E. MURRAY, Justice.
 JAMES J. GALLIGAN, Clerk.

POLICE DEPARTMENT.

POLICE DEPARTMENT OF THE CITY OF NEW YORK,
 No. 300 MULBERRY STREET,
 NEW YORK, May 8, 1893.

TWENTY-FOURTH AUCTION SALE OF UNCLAIMED PROPERTY.

VAN TASSELL & KEARNEY, AUCTIONEERS, will sell at Public Auction, at Police Headquarters, No. 300 Mulberry street, Wednesday, May 24, 1893, at 10 o'clock A. M., the following articles:
 Male and Female Clothing, Shoes, Canned Goods, Chests of Tea, Books, Carpet, Oil Cloth, Furniture, Baby Carriages, Bicycles, Tricycles, Boxes of Soap, Crockery, Tools, Trunks of Clothing, Rope, Lead, Hats, Foot-balls, Cigars and Cigarettes, Smoking Tobacco, Coffee, Pocket-books, Cartridges, Buttons, Rolls of Cloth, Billiard and Pool Balls, Neckties, Plumber's Material, Harness and a lot of Miscellaneous Articles.

For particulars see catalogue on day of sale.
 JOHN F. HARRIOT, Property Clerk.

POLICE DEPARTMENT—CITY OF NEW YORK,
 OFFICE OF THE PROPERTY CLERK (Room No. 9),
 No. 300 MULBERRY STREET,
 NEW YORK, 1893.

OWNERS WANTED BY THE PROPERTY Clerk of the Police Department of the City of New York, No. 300 Mulberry street, Room No. 9, for the following property, now in his custody, without claimants: Boats, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquors, etc., also small amount money taken from prisoners and found by patrolmen of this Department.
 JOHN F. HARRIOT, Property Clerk.

NEW MUNICIPAL BUILDING COMMISSION.

PLANS FOR A MUNICIPAL BUILDING IN THE CITY OF NEW YORK.

NOTICE TO ARCHITECTS.

IN ACCORDANCE WITH THE PROVISIONS of chapter 299 of the Laws of 1890, entitled "An act to amend chapter 323 of the Laws of 1888, entitled 'An act to provide for the erection of a building for certain purposes relating to the public interests in the City of New York,' and chapter 414 of the Laws of 1892, amending the same, the Board of Commissioners hereby constituted will, until 12 o'clock M., the first day of September, 1893, receive plans and specifications for a New Municipal Building, provided for in said statutes, to be erected in the City Hall Park.

In the examination and judgment of the designs the Board of Commissioners will be assisted by a committee to be selected by the said Board from a list nominated by the New York Chapter of the American Institute of Architects and the Architectural League of New York. This committee will consist of three competent architects who do not take part in the competition. Five equal premiums, of two thousand dollars each, shall be awarded to the authors of the designs adjudged by the Board of Commissioners to be the second, third, fourth, fifth and sixth, best, of those submitted, and the author of the designs adjudged to be the first best by the said Board of Commissioners will be appointed Architect for the construction of the building, provided his professional standing is such as to guarantee a proper discharge of his duties. He will be paid a commission on the total cost of the work, namely, five per cent. on the first \$1,000,000 of the cost, four per cent. on the second \$1,000,000 and three per cent. on the remainder.

Each set of drawings is to be accompanied by a brief specification of the materials proposed to be employed, and of the mode of construction and of heating and ventilation to be adopted, and of the manner of lighting.

An approximate estimate of the cost of the building is also to be submitted. No plans or papers submitted are to have upon them any mark by which they can be known, but there shall be sent with them a sealed letter, addressed in typewriting, to the Mayor, giving the author's name and address. This letter will not be opened until the awards shall have been made. The drawings and papers will be known by numbers corresponding with numbers given to the letters.

The conditions under which this competition is to be conducted and the requirements of the Board are described in a paper entitled "Instructions to Architects" which may be obtained, on application, at the Comptroller's office, 280 Broadway.

THOMAS F. GILROY, Mayor,
FREDERICK SMYTH, Recorder,
THEODORE W. MYERS, Comptroller,
THOMAS C. T. CRAIN, Chamberlain,
NICHOLAS T. BROWN, Chairman, Com-
mittee on Finance, Board of Aldermen,
Commissioners of the Sinking Fund;
HENRY D. PURROY, County Clerk,
FERDINAND LEVY, Register,
FRANK T. FITZGERALD, Surrogate,
Board of Commissioners for New Municipal Building.

FIRE DEPARTMENT.

HEADQUARTERS FIRE DEPARTMENT,
Nos. 157 and 159 EAST SIXTY-SEVENTH STREET,
NEW YORK, May 11, 1893.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING THE
Hose below enumerated to this Department will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 159 East Sixty-seventh street, in the City of New York, until 10 o'clock A. M., Wednesday, May 24, 1893, at which time and place they will be publicly opened by the head of said Department and read:

5,000 feet of 2½-inch straight wrap, circular woven, cotton, rubber-lined, jacket fire-hose, Adriatic brand, to weigh not more than fifty-six (56) pounds per length, including couplings.

5,000 feet of 2½-inch circular woven, seamless, multiply, rubber-lined, cotton fire-hose, Eureka Fire-hose brand, to weigh not more than sixty (60) pounds per length, including couplings.

10,000 feet of 2½-inch carbolized rubber-lined fire-hose, Maltese Cross brand, to weigh not more than sixty (60) pounds per length, including couplings.

A separate estimate must be made for each of the three items.

Special attention is directed to the test of the hose by the Fire Department and the guarantee of the hose by the contractor, required by the specifications.

No estimate will be received or considered after the hour named.

For information as to the description of the hose to be furnished, bidders are referred to the specifications, which form part of these proposals.

The form of the agreement, with specifications, showing the manner of payment for the work, may be seen, and forms of proposals may be obtained at the office of the Department.

Bidders must write out the amount of their estimate in addition to inserting the same in figures.

The hose is to be delivered within sixty (60) days after the execution of the contract.

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 fixed and liquidated at the sum specified in the several forms of contracts.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the hose shall present the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation and a statement of the work to which it relates.

The Fire Department reserves the right to decline any and all bids or estimates if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Each bid or estimate shall contain and state 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; 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 Common Council, 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. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as sureties for its faithful performance in the sums specified in the several forms of contracts, which are as follows:

For the 5,000 feet of 2½-inch Adriatic Hose... \$1,700 00
For the 5,000 feet of 2½-inch Eureka Hose... 2,300 00
For the 10,000 feet of 2½-inch Maltese Cross Hose... 5,000 00

—and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.

No estimate will be considered unless accompanied by either a certified check upon one of the banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five hundred and fifty (\$550) dollars. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

JOHN J. SCANNELL,
ANTHONY EICKHOFF,
H. W. GRAY,
Commissioners.

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HEADQUARTERS FIRE DEPARTMENT,
Nos. 157 and 159 EAST SIXTY-SEVENTH STREET,
NEW YORK, May 11, 1893.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING THE
materials and labor and doing the work required in Repairing and Altering the Building of this Department, occupied as Quarters of Hook and Ladder Company No. 20, at Nos. 155 and 157 Mercer street, will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 159 East Sixty-seventh street, in the City of New York, until 10 o'clock A. M., Wednesday, May 24, 1893, at which time and place they will be publicly opened by the head of said Department and read.

No estimate will be received or considered after the hour named.

For information as to the amount and kind of work to be done, bidders are referred to the specifications and drawings, which form part of these proposals.

The form of the agreement, showing the manner of payment for the work, with the specifications, and forms of proposals, may be seen, at the office of the Department.

Bidders must write out the amount of their estimate in addition to inserting the same in figures.

The work is to be completed and delivered within the time specified in the contract.

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 fixed and liquidated at ten (10) dollars.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall present the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation and a statement of the work to which it relates.

The Fire Department reserves the right to decline any and all bids or estimates, if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Each bid or estimate shall contain and state 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; 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 Common Council, 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. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as sureties for its faithful performance in the sum of nine thousand (\$9,000) dollars; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.

No estimate will be considered unless accompanied by either a certified check upon one of the banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of four hundred and fifty (\$450) dollars. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

JOHN J. SCANNELL,
ANTHONY EICKHOFF,
H. W. GRAY,
Commissioners.

HEADQUARTERS FIRE DEPARTMENT,
Nos. 157 and 159 EAST SIXTY-SEVENTH STREET,
NEW YORK, May 11, 1893.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING THE
materials and labor and doing the work required in rebuilding Turn-table, Hook and Ladder Truck, registered No. 32, will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 159 East Sixty-seventh street, in the City of New York, until 10 o'clock A. M., Wednesday, May 24, 1893, at which time and place they will be publicly opened by the head of said Department and read.

No estimate will be received or considered after the hour named.

For information as to the amount and kind of work to be done, bidders are referred to the specifications, which form part of these proposals.

The form of the agreement, with specifications, showing the manner of payment for the work, may be seen, and forms of proposals may be obtained at the office of the Department.

Bidders must write out the amount of their estimate in addition to inserting the same in figures.

The repairs are to be completed and delivered within sixty (60) days after the execution of the contract.

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 fixed and liquidated at fifteen (15) dollars.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall present the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

The Fire Department reserves the right to decline any and all bids or estimates if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Each bid or estimate shall contain and state 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; that it is made without any connection with any other person making an esti-

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Each bid or estimate shall contain and state 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; 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 Common Council, 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. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as sureties for its faithful performance in the sum of five hundred (\$500) dollars; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.

No estimate will be considered unless accompanied by either a certified check upon one of the banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of twenty-five (\$25) dollars. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

JOHN J. SCANNELL,
ANTHONY EICKHOFF,
H. W. GRAY,
Commissioners.

HEADQUARTERS FIRE DEPARTMENT,
Nos. 157 and 159 EAST SIXTY-SEVENTH STREET,
NEW YORK, May 11, 1893.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING THE
materials and labor and doing the work required in repairing second size Double Pump Clapp & Jones Crane Neck Steam Fire-engine, registered number 473, and fitting said engine with a boiler of the "La France nest tube" pattern, will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 159 East Sixty-seventh street, in the City of New York, until 10 o'clock A. M., Wednesday, May 24, 1893, at which time and place they will be publicly opened by the head of said Department and read.

No estimate will be received or considered after the hour named.

For information as to the amount and kind of work to be done, bidders are referred to the specifications, which form part of these proposals.

The form of the agreement, with specifications, showing the manner of payment for the work, may be seen, and forms of proposals may be obtained at the office of the Department.

Bidders must write out the amount of their estimate in addition to inserting the same in figures.

The repairs are to be completed and delivered within sixty (60) days after the execution of the contract.

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 fixed and liquidated at fifteen (15) dollars.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall present the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

The Fire Department reserves the right to decline any and all bids or estimates if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Each bid or estimate shall contain and state 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; that it is made without any connection with any other person making an esti-

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TO CONTRACTORS.

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No estimate will be considered unless accompanied by either a certified check upon one of the banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of forty-five (\$45) dollars. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

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HEADQUARTERS FIRE DEPARTMENT,
Nos. 157 and 159 EAST SIXTY-SEVENTH STREET,
NEW YORK, May 11, 1893.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING THE

materials and labor and doing the work required

in repairing second size Double Pump Clapp & Jones

Crane Neck Steam Fire-engine, registered number 473,

and fitting said engine with a boiler of the "La France

nest tube" pattern, will be received by the Board of

Commissioners at the head of the Fire Department, at

the office of said Department, Nos. 157 and 159 East

Sixty-seventh street, in the City of New York, until 10

o'clock A. M., Wednesday, May 24, 1893

One Hundred and Forty-second street, between Amsterdam and Convent avenues. Confirmed April 26, 1893.

Assessment on north half of Block 1068 and south half of Block 1069.

TWENTY-FOURTH WARD.

Boston Avenue, from Sedgwick to Bailey Avenue. Confirmed April 28, 1893.

Assessments on portions of Blocks 3253, 3254, 3256, 3257, 3260 and 3261.

The above-entitled assessments were entered on the 4th day of May, 1893, in the Record of Titles of Assessments kept in the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents." Unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon, as provided in section 916 of said "New York City Consolidation Act of 1882."

Section 917 of the said act 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 Clerk of Arrears at the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," Room 31, Stewart Building, between the hours of 9 A. M. and 2 P. M., and all payments made thereon on or before July 5, 1893, will be exempt from interest as above provided, and after that date will be charged interest at the rate of seven per cent. per annum from the above date of entry of the assessments in the Record of Titles of Assessments in said Bureau to the date of payment.

THEO. W. MYERS,
Comptroller.

CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, May 10, 1893.

PETER F. MEYER, AUCTIONEER.

CORPORATION SALE OF PUBLIC SCHOOL PROPERTY.

THE COMMISSIONERS OF THE SINKING Fund of the City of New York will offer for sale on Thursday, the 15th day of June, 1893, at noon, at the New York Real Estate Salesroom, No. 111 Broadway, certain premises in said city, the use of which for school purposes has been discontinued by the Board of Education, and the proceeds from the sale of which will be appropriated and applied to the purchase of other property, or the erection of new school buildings, as provided by chapter 89, Laws of 1881, situate in the Eighth, Twelfth and Twenty-third Wards, to wit:

EIGHTH WARD.

Three lots of land and building (formerly Grammar School No. 8), on north side of Grand street, between South Fifth Avenue and Wooster street, 75 feet front, 100 feet deep, Ward No. 764. Resolution of Commissioners of the Sinking Fund, February 23, 1893.

TWELFTH WARD.

Seven lots of vacant land on south side of One Hundred and Twentieth street, beginning 175 feet west of Lenox Avenue, Block No. 706, Ward Nos. 41 to 47, each 25 feet front and 100 feet 11 inches deep. Resolution of Commissioners of the Sinking Fund, December 16, 1891.

TWENTY-THIRD WARD.

Three lots of land and building (formerly Primary School No. 44) southeast corner Concord Avenue and One Hundred and Forty-fifth (Elm) street, 75 feet front on Concord Avenue, 100 feet deep, Block No. 790, Ward No. 10. Resolution of the Commissioners of the Sinking Fund, December 16, 1891.

TWENTY-THIRD WARD.

Four adjoining lots in Block No. 330, on the west side of Ogden Avenue, 300 feet south of Union Avenue, on the Sale Map, Lot Nos. 5, 6, 7, 8, each lot 25 feet front by 165 feet deep; and four lots adjoining in the rear, on the Sale Map, Lot Nos. 1, 2, 3, 4, each lot 25.78 feet front on the east side of Lind Avenue, varying from 184.76 feet to 159.58 feet in depth. Resolution of the Commissioners of the Sinking Fund, April 22, 1892.

TERMS OF SALE.

The auctioneer's fees and ten per cent. of the purchase money to be paid at the time and place of sale, and the balance in cash on delivery of a warrant deed of the property, within thirty days thereafter, from the Mayor, Aldermen and Commonalty of the City of New York.

The right to reject any bid is reserved.

Lithographic maps may be had at Comptroller's office and at the Auctioneer's office, No. 111 Broadway.

By order of the Commissioners of the Sinking Fund.

THEO. W. MYERS,
Comptroller.

CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, May 10, 1893.

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, at the New York Real Estate Salesroom, No. 111 Broadway, on Thursday, the 15th day of June, 1893, at noon, certain lots, pieces and parcels of land belonging to the Corporation of said city, situated in the Twelfth, Nineteenth and Twenty-fourth Wards of the City of New York and Westchester County, State of New York, to wit:

OLD CROTON AQUEDUCT LOTS.

TWELFTH WARD.

Two lots south side of One Hundred and First street, Block No. 1027, Ward Nos. 37, 38; each lot 25 feet front and rear and 100 feet 11 inches deep.

Two lots north side of One Hundred and First street, Block No. 1028, Ward Nos. 27, 28; each lot 25 feet front and rear and 100 feet 11 inches deep.

Two lots north side of One Hundred and Second street, Block No. 1029, Ward Nos. 27, 28; each lot 25 feet front and rear and 100 feet 11 inches deep.

COMMON LANDS.

NINETEENTH WARD.

Four adjoining lots, Block 466, Ward Nos. 33, 34, 35, 36; each 26 feet 1 inch front on Park Avenue, 100 feet deep, northwest corner Eighty-first street and Park Avenue.

NEW CROTON AQUEDUCT LOTS.

TWELFTH WARD.

One lot southeast corner One Hundred and Sixty-sixth street and Amsterdam Avenue, Farm No. 55, designated as Lot No. 1; 26 feet 4 1/4 inches front on Amsterdam Avenue, 100 feet deep.

One adjoining lot, Farm No. 55, designated as Lot No. 2; 26 feet 1 inch front, 100 feet deep.

Two adjoining lots, Farm Nos. 54, 55, designated as Lots Nos. 3 and 4; each 26 feet 1 inch front, 100 feet deep.

One lot southeast corner One Hundred and Fifty-seventh street and Amsterdam Avenue, Farm No. 1, Ward No. 61; 24 feet 11 inches front on Amsterdam Avenue, 100 feet deep.

Three adjoining lots, Farm No. 1, Ward Nos. 62, 63, 64; each 25 feet front, 100 feet deep.

TWENTY-FOURTH WARD.

Shaft site No. 22, New Aqueduct. Parcel 45, a regular plot of land, nearly square, containing an area of 2.611 acres, fronting on Fordham Landing road. No easement.

Shaft site No. 23, New Aqueduct. Parcels 28, 29 and 30, forming together a nearly square plot of land, fronting on Sedgwick Avenue, and containing a total area of 2.336 acres. No easement.

PARCELS OF LAND ON THE LINE OF THE NEW CROTON AQUEDUCT, WESTCHESTER COUNTY.

SHAFT SITE No. 1.

Town of Yorktown, Westchester County. Parcel 865A, an irregular plot of land containing an area of 0.603 acres, adjoining the shaft site and fronting on the public road from Sing Sing to Croton Dam. Easement.

At the same shaft site, Parcels 865B and 866, forming together one plot of land containing a total area of 4.194 acres, fronting on the same public road from Sing Sing to Croton Dam. Easement.

SHAFT SITE No. 2.

Town of New Castle, Westchester County. Parcels 841 and 841 1/2, forming together an irregular plot of land, containing a total area of 6.601 acres, the northerly side of which is on the line between the Towns of Yorktown and New Castle. Easement.

SHAFT SITE No. 3.

Town of New Castle, Westchester County. Parcels 817 and 818, forming together a square plot of land, containing a total area of 3.673 acres, near the public road known as the Sing Sing road. Easement.

Also parcel 820 in the same town, a triangular plot of land fronting on the same public road opposite the shaft site, and containing 0.220 acres. Easement.

SHAFT SITE No. 4.

Town of Ossining, Westchester County. Parcel 794, an oblong plot of land adjoining the southerly side of the shaft site and containing an area of 5.359 acres, near Mud Hill road to Sing Sing. Easement.

SHAFT SITE No. 5.

Town of Ossining, Westchester County. Parcels 771 1/2 and 772, forming together an oblong plot of land containing a total area of 7.293 acres, the easterly side of which is on the New York City and Northern Railroad. The Pocantico river and branches run through the property. No easement.

SHAFT SITE No. 6.

Town of Ossining, Westchester County. Parcel 750, an oblong plot of land near the Pleasantville road, containing an area of 5.202 acres. Easement.

SHAFT SITE No. 7.

Town of Mount Pleasant, Westchester County. Parcels 726 and 727, forming together an oblong plot of land containing a total area of 5.968 acres, near the public road. Easement.

SHAFT SITE No. 8.

Town of Mount Pleasant, Westchester County. Parcels 712 A, B, C, D, E, F, G, H, I, K, forming together an irregular plot, as shown on the plan map, containing a total area of 3.928 acres, including a portion of the present highway on the southerly side of the plot. No easement.

Also at the same shaft site, Parcels 715 1/2, 716 1/2 and 718 1/2, forming together a long, oblong plot, containing an area of 3.861 acres, through which the Pocantico river runs, as shown on the plan map. No easement.

SHAFT SITE No. 9.

Town of Mount Pleasant, Westchester County. Parcels 701 and 702A, forming together an irregular plot of land containing a total area of 4.646 acres, near the public road. The Pocantico river runs through the property. No easement.

SHAFT SITE No. 10.

Town of Greenburgh, Westchester County. Parcel 603, an irregular plot of land containing a total area of 5.850 acres, lying between the Sawmill river and the Sawmill river road. No easement.

SHAFT SITE No. 12.

Town of Greenburgh, Westchester County. Parcels 545, 546 and 547, forming together an irregular plot of land containing a total area of 1.646 acres, lying between the Sawmill river and the Sawmill river road. No easement.

Also at the same shaft site, Parcels 549, 551, 552 and 553, forming together an irregular plot of land containing a total area of 9.245 acres, and lying between the Sawmill river and the Sawmill river road, and on one side also of Dublin road. No easement.

SHAFT SITE No. 13.

Town of Greenburgh, Westchester County. Parcel 532, an irregular plot of land containing an area of 2.090 acres fronting on the public road. No easement.

SHAFT SITE No. 14.

Town of Greenburgh, Westchester County. Parcels Nos. 516, B, C, 517 A, C, 518, C, D, forming together an irregular plot of land containing a total area of 5.773 acres, near the Village of Arsdale. Easement.

SHAFT SITE No. 15.

Town of Greenburgh, Westchester County. Parcels 306 and 308, forming together a nearly square plot of land containing a total area of 7.259 acres, having a private road to it. Easement.

SHAFT SITE No. 15 1/2.

Town of Greenburgh, Westchester County. Parcels 295 1/2, 300 1/2, 300 3/4, forming together an irregular plot of land containing a total area of 2.824 acres, near the Ravensdale road. Easement.

SHAFT SITE No. 16.

City of Yonkers, Westchester County. Parcels 281 and 282, forming together an oblong plot of land containing a total area of 5.591 acres, through which runs Sprain Brook. No easement.

SHAFT SITE No. 17.

City of Yonkers, Westchester County. Parcel 313, a regular plot of land containing an area of 0.450 acres, situated near the Tuckahoe road and touching at one corner the New York City and Northern Railroad. Easement.

SHAFT SITE No. 19.

City of Yonkers, Westchester County. Parcel 79, nearly a square plot of land, with a house on it, containing an area of 2.163 acres, fronting on Central Avenue near Midland Avenue. Easement.

TERMS AND CONDITIONS OF SALE.

The highest bidders will be required to pay ten (10) per cent. of the purchase money and the auctioneer's fee on each lot, piece or parcel of land at the time and place of sale; thirty (30) per cent. upon the delivery of the deeds within thirty days from the date of sale; and the balance, sixty (60) per cent. of the purchase money, or any portion thereof, may remain, at the option of the purchaser, on bond and mortgage for five years, with interest at the rate of six per cent. per annum, payable semi-annually, the mortgages to contain the customary thirty days' interest and ninety days' tax clauses.

The bond and mortgage may be paid off at any time within the term thereof, on giving thirty days' notice to the Comptroller, or it may be paid by installments of not less than five hundred dollars, on any day when the interest is due, or on thirty days' notice. The bonds and mortgages will be prepared by the Counsel to the Corporation, and the sum of twelve dollars and fifty cents will be charged for drawing, acknowledging and recording each separate mortgage. If more than one lot of land is included in any mortgage, the whole mortgage must be paid off before any release can be given by the Corporation, as a release of any part of the premises included in a mortgage to the Corporation is forbidden by law.

The Comptroller may, at his option, resell any lot which may be struck off to the highest bidder who may fail to comply with the terms of the sale, and the party who may fail to comply therewith will be held liable for any deficiency that may result from any such resale.

The lands on the line of the New Croton Aqueduct will be sold subject to a permanent easement therein by the Mayor, Aldermen and Commonalty of the City of New York, their successors and assigns, for the maintenance and preservation of the aqueduct underneath the surface of said lands as the same now exists, in certain parcels, as noted in the description.

The right to reject any bid is reserved.

Lithographic maps of the property may be had at the Comptroller's office, Stewart Building, No. 280 Broadway, and at the auctioneer's office, No. 111 Broadway.

By order of the Commissioners of the Sinking Fund.

THEO. W. MYERS,
Comptroller.

CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, May 10, 1893.

NOTICE OF ASSESSMENT FOR OPENING STREETS AND AVENUES.

IN PURSUANCE OF SECTION 916 OF THE "New York City Consolidation Act of 1882," as amended, the Comptroller of the City of New York hereby gives public notice of the confirmation by the Supreme Court of the assessment for opening and acquiring title to the following street, to wit:

TWELFTH WARD.

One Hundred and Ninetieth street, between Eleventh and Auburn avenues; confirmed April 24, 1893.

Assessment on north half block between One Hundred and Eighty-ninth and One Hundred and Ninetieth streets, and south half block between One Hundred and Ninetieth and One Hundred and Ninety-first streets.

The above-entitled assessment was entered on the 26th day of April, 1893, in the Record of Titles of Assessments kept in the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," that unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessment, interest will be collected thereon as provided in section 916 of said "New York City Consolidation Act of 1882."

Section 917 of the said act 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 Clerk of Arrears at the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," Room 31, Stewart Building, between the hours of 9 A. M. and 2 P. M., and all payments made thereon on or before June 26, 1893, will be exempt from interest as above provided, and after that date will be charged interest at the rate of seven per cent. per annum from the above date of entry of the assessment in the Record of Titles of Assessments in said Bureau to the date of payment.

THEO. W. MYERS,
Comptroller.

CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, May 2, 1893.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,
No. 66 THIRD AVENUE,
NEW YORK, May 11, 1893.

TO CONTRACTORS.

MATERIALS AND WORK REQUIRED FOR THE CONSTRUCTION OF AND COMPLETION OF A GROUP OF BUILDINGS AT CENTRAL ISLIP, LONG ISLAND.

SEALED BIDS OR ESTIMATES FOR THE aforesaid work and materials, in accordance with the specifications and plans, will be received at the office of the Department of Public Charities and Correction, No. 66 Third Avenue, in the City of New York, until Wednesday, May 24, 1893, until 10 o'clock A. M. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for a Group of Buildings, Central Islip, Long Island," 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, at which time and place the bids or estimates received will be publicly opened by the President of said Department and read.

THE BOARD OF PUBLIC CHARITIES AND CORRECTION RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTIMATES IF DEEMED TO BE FOR THE PUBLIC INTEREST, AS PROVIDED IN SECTION 64, CHAPTER 410, LAWS OF 1882. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the penal amount of **THIRTY THOUSAND (\$30,000) DOLLARS.**

Each bid or estimate shall contain and state 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 is 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 Common Council, 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 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. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they shall pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the supplies mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by section 12 of chapter 7 of the Revised Ordinances of the City of New York, if the contract shall be awarded to the person or persons for whom he consents to become surety.

No bid or estimate will be received or 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, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal, but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to him or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet, as provided by law.

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

Payment will be made by a requisition on the Comptroller, in accordance with the terms of the contract.

The form of the contract, including specifications, and showing the manner of payment, can be obtained at the office of the Architect, Leopold Edlitz, No. 160 Fifth Avenue, New York City, and bidders are cautioned to examine each and all of their provisions carefully, as the Board of Public Charities and Correction will insist upon their absolute enforcement in every particular.

HENRY H. PORTER, President,
CHARLES E. SIMMONS, M. D., Commissioner,
EDWARD C. SHEEHY, Commissioner,
Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,
No. 66 THIRD AVENUE,
NEW YORK, May 9, 1893.

TO CONTRACTORS.

MATERIALS AND WORK REQUIRED FOR ERECTING A WATER-CLOSET TOWER AT CITY HOSPITAL, B. I.

SEALED BIDS OR ESTIMATES FOR THE aforesaid work and materials, in accordance with the specifications and plans, will be received at the office of the Department of Public Charities and Correction, No. 66 Third Avenue, in the City of New York, until Wednesday, May 24, 1893, until 10 o'clock A. M. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Water-closet Tower, City Hospital, B. I.," 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, at which time and place the bids or estimates received will be publicly opened by the President of said Department and read.

THE BOARD OF PUBLIC CHARITIES AND CORRECTION RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTIMATES IF DEEMED TO BE FOR THE PUBLIC INTEREST, AS PROVIDED IN SECTION 64, CHAPTER 410, LAWS OF 1882.

No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the penal amount of **THREE THOUSAND (\$3,000) DOLLARS.**

A bidder for a contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom a contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the penal amount of fifty (50) per cent. of the ESTIMATED amount of the contract, or such specific sum as may be mentioned in the proposal.

Each bid or estimate shall contain and state 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 is 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 Common Council, 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 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. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they shall pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the supplies mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by section 12 of chapter 7 of the Revised Ordinances of the City of New York, if the contract shall be awarded to the person or persons for whom he consents to become surety.

No bid or estimate will be received or 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, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract.

ance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate. But must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to him or their bid or proposal, or if he or they accept, but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

Bidders will state the price for each article, by which the bids will be tested.

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

Payment will be made by a requisition on the Comptroller, in accordance with the terms of the contract, or from time to time, as the Commissioners may determine.

The terms of the contract, including specifications, and showing the manner of payment, can be obtained at the office of the Department; and bidders are cautioned to examine each and all of their provisions carefully, as the Board of Public Charities and Correction will insist upon their absolute enforcement in every particular.

HENRY H. PORTER, President,
CHARLES E. SIMMONS, M. D., Commissioner,
EDWARD C. SHEEHY, Commissioner,
Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,
No. 66 THIRD AVENUE,
NEW YORK, May 10, 1893.

IN ACCORDANCE WITH AN ORDINANCE OF the Common Council, "In relation to the burial of strangers or unknown persons who may die in any of the public institutions of the City of New York," the Commissioners of Public Charities and Correction report as follows:

At N. Y. City Asylum for Insane, Blackwell's Island—Nellie Terry, aged 49 years; 5 feet 3/4 inch high; town hair and eyes. Had on when admitted calico dress striped shawl, shoes, stockings.

Catharine or Ann Kelly, aged 46 years; 5 feet high; brown hair, blue eyes. Transferred from Almshouse, and had on corporation clothing.

At Ward's Island Hospital—Patrick McGlynn, aged 36 years; 5 feet 8 inches high; black hair, brown eyes. Had on when admitted brown coat, tweed vest, brown striped pants, white striped tennis shirt, brogan shoes, black derby hat.

Nothing known of their friends or relatives.

By order,
G. F. BRITTON, Secretary.

HEALTH DEPARTMENT.

HEALTH DEPARTMENT—CITY OF NEW YORK,
No. 301 MOTT STREET,
NEW YORK, May 9, 1893.

PROPOSALS FOR ESTIMATES FOR THE HEATING OF ONE ISOLATED CORRUGATED IRON BUILDING, FORMERLY USED AS A CEMENT SHED, NEAR THE FOOT OF EAST SIXTEENTH STREET.

PROPOSALS FOR ESTIMATES FOR THE heating of one isolated corrugated iron building, formerly used as a cement shed, near the foot of East Sixteenth street, City and County of New York, will be received by the Commissioners of the Health Department, at their office, No. 301 Mott street, until 1 o'clock P. M. of the 23d day of May, 1893, at which time and place they will be publicly opened and read by said Commissioners.

Any person making an estimate for the above work shall furnish the same in a sealed envelope to the head of said Health Department, indorsed "Estimate for the Heating of one Isolated Corrugated Iron Building, formerly used as a cement shed near the foot of East Sixteenth street, City and County of New York," and also with the name of the person or persons presenting the same and the date of its presentation.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the penal sum of \$1,200.

Bidders are required to submit their estimates upon the following express conditions, which shall apply to and become a part of every estimate received:

1st. Bidders must satisfy themselves by personal examination of the location of the proposed work, and by such other means as they may prefer, as to the accuracy of the estimate, and shall not, at any time after the submission of an estimate, dispute or complain of the statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

2d. Bidders will be required to complete the entire work to the satisfaction of the Health Department and in substantial accordance with the specifications referred to. No extra compensation, beyond the amount payable for the work before mentioned, which shall be actually performed, at the prices therefor, to be specified by the lowest bidder, shall be due or payable for the entire work.

Bidders will state in their estimates a price for the whole of the work to be done in conformity with the approved form of contract and the specifications therein set forth, by which price the bids will be tested. This price is to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the performing of the work thereunder.

Bidders will distinctly write out, both in words and in figures, the amount of their estimates for doing this work.

The person or persons to whom the contract may be awarded will be required to attend at this office, with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do, he or they will be considered as having abandoned it, and as in default to the Corporation; and the contract will be readvertised and relet, and so on, until it be accepted and executed.

Bidders are required to state in their estimates their names and places of residence; the names of all persons interested with them therein; and if no other person be so interested, the estimate shall distinctly state the fact; also, that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair, and without collusion or fraud; and also that no member of the Common Council, 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; which estimate must be verified by the oath, in writing, of the party making the estimate, that the

several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

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

No estimate will be received or considered unless accompanied by either a certified check upon one of the National banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned by the Comptroller to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him by the Comptroller.

No estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation, upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Bidders are requested, in making their bids or estimates, to use a blank prepared for that purpose by the Department, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be obtained upon application therefor at the office of the Department.

The Department reserves the right to reject any or all estimates not deemed beneficial to or for the public interest.

Plans may be examined, and specifications and blank forms for bids or estimates obtained, by application to the Secretary of the Board, at his office, No. 301 Mott street, New York.

CHARLES G. WILSON,
CYRUS EDSON, M. D.,
WILLIAM T. JENKINS, M. D.,
JAMES J. MARTIN,
Commissioners.

DEPARTMENT OF STREET CLEANING.

NOTICE.

PERSONS HAVING BULKHEADS TO FILL, IN the vicinity of New York Bay, 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, in the Stewart Building.

THOMAS S. BRENNAN,
Commissioner of Street Cleaning.

COMMISSIONER OF STREET IMPROVEMENTS OF THE TWENTY-THIRD AND TWENTY-FOURTH WARDS.

OFFICE OF
COMMISSIONER OF STREET IMPROVEMENTS
OF THE TWENTY-THIRD AND TWENTY-FOURTH WARDS,
NEW YORK, May 6, 1893.

TO CONTRACTORS.

SEALED BIDS OR ESTIMATES FOR EACH OF the following-mentioned works, with the title of the work and the name of the bidder indorsed thereon, also the number of the work, as in the advertisement, will be received by the Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards, at his office, No. 2622 Third avenue, corner of One Hundred and Forty-first street, until 3 o'clock P. M. on Friday, May 19, 1893, at which place and hour they will be publicly opened.

No. 1. FOR FURNISHING AND DELIVERING, WHERE REQUIRED, TRAP-ROCK SCREENINGS, BROKEN TRAP-ROCK STONE AND TOMKINS COVE, OR OTHER BLUE STONE EQUALLY AS GOOD AS THE KIND KNOWN AS TOMKINS COVE, ALONG CERTAIN ROADS, AVENUES AND STREETS IN THE TWENTY-THIRD AND TWENTY-FOURTH WARDS, IN THE CITY OF NEW YORK.

No. 2. FOR REGULATING, GRADING, SETTING CURB-STONES, FLAGGING THE SIDEWALKS AND LAYING CROSSWALKS IN BERGEN AVENUE, from One Hundred and Forty-seventh street to Brook avenue.

No. 3. FOR LAYING CROSSWALKS IN AND PAVING WITH GRANITE-BLOCK PAVEMENT THE CARRIAGEWAY OF ST. ANN'S AVENUE, between One Hundred and Fifty-sixth street and Third avenue.

No. 4. FOR CONSTRUCTING A SEWER AND APPURTENANCES, WITH BRANCHES, IN WEBSTER AVENUE, between One Hundred and Eighty-fourth street and Moshulu Parkway.

No. 5. FOR CONSTRUCTING SEWER AND APPURTENANCES IN ONE HUNDRED AND EIGHTY-FOURTH STREET, from existing sewer in Webster avenue to the west house-line of Vanderbilt avenue, West.

No. 6. FOR CONSTRUCTING SEWER AND APPURTENANCES IN ONE HUNDRED AND EIGHTY-FOURTH STREET, between Webster avenue and the summit west of Tiebout avenue.

Each estimate must 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. That it is made without any connection with any other

person making an estimate for the same work, and is in all respects fair and without collusion or fraud. That no member of the Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation, is directly or indirectly interested in the estimate or in the work to which it relates or in the profits thereof.

Each estimate must be verified by the oath, in writing of the party making the same, that the several matters therein stated are true, and must be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, to the effect that if the contract is awarded to the person making the estimate, they will, upon its being so awarded, become bound as his sureties for its faithful performance; and that if he shall refuse or neglect to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled upon its completion, and that which the Corporation may be obliged to pay to the person to whom the contract shall be awarded at any subsequent letting; the amount to be calculated upon the estimated amount of the work by which the bids are tested.

The consent last above mentioned must be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety, or otherwise, and that he has offered himself as surety in good faith, with the intention to execute the bond required by law.

No 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, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of the deposit will be returned to him.

The Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards reserves the right to reject all bids received for any particular work if he deems it for the best interests of the City.

Blank forms of bid or estimate, the proper envelopes in which to inclose the same, the specifications and agreements, and any other information desired, can be obtained at this office.

LOUIS F. HAFEN,
Commissioner of Street Improvements,
Twenty-third and Twenty-fourth Wards.

OFFICE OF THE
COMMISSIONER OF STREET IMPROVEMENTS
OF THE TWENTY-THIRD AND TWENTY-FOURTH WARDS,
NEW YORK, May 3, 1893.

NOTICE IS HEREBY GIVEN THAT THE COMMISSIONER OF STREET IMPROVEMENTS of the Twenty-third and Twenty-fourth Wards of the City of New York will, at his office, No. 2622 Third avenue, in said city, on the 22d day of May, 1893, at 10 o'clock A. M., hear and consider all statements, objections and evidence that may be then and there offered in reference to the contemplated change of location and of grade of Cammann street, from Fordham road westerly to the City of New York, under the authority of chapter 721 of the Laws of 1887. The general character and extent of the contemplated change being an alteration of the line of a portion of Cammann street, in order to have the centre line of the said street coincide with the boundary line between the Cammann estate and the Peck and Taylor property.

A map or plan showing such contemplated change is now on exhibition in said office.

LOUIS F. HAFEN,
Commissioner of Street Improvements,
Twenty-third and Twenty-fourth Wards.

AQUEDUCT COMMISSION.

NOTICE OF SALE AT PUBLIC AUCTION.
MAY 25, 1893, 12 O'CLOCK M.

THE AQUEDUCT COMMISSIONERS OF THE City of New York, under the direction of Abram Hyatt, Auctioneer, will sell at Public Auction, at the office of their Engineer at Sing Sing, N. Y., the following-described property, namely:

Second-hand Diamond Drill Machinery and Fittings.

3 No. 7 diamond drill engines for 2" drills, with mandrels.
1 20-horse power boiler.
1 12-horse power boiler.
3 Hancock inspirators.
7 steam gauges.
2 18" pulley wheels.
2 engine-houses.
2 boiler-houses.
6 Blake pumps.
1 engine pulley.
2 sets engine frames, braces and derrick poles.
2 electric batteries.
2 head blocks.
8 engine bolts.
149 feet 3" casing.
109 feet 2 1/2" casing.
235 feet 2" casing.
475 feet 1 1/2" drill rods.
297 feet 2" steam-pipe.
725 feet 1 1/2" steam-pipe.
465 feet 1 1/4" steam-pipe.
2,400 feet 1" steam-pipe.
21 feet 3/4" steam-pipe.
28 feet 1/2" steam-pipe.
Together with the fittings and tools for above machinery, comprising—
X bits.
Casing clamps.
Drill rod clamps.
Driving caps.
Casing shoes.
Change couplings.
Taper taps.
Core lifters.
Hoisting plugs.
Water swivels.
Drill rod taper taps.
Mandrel bucket forms.
Drilling water swivels.
Jar collars and couplings.
Casing plates.
Fishing tools.
Core barrels.
Combination vises.
Pump lifters.
Suction hose.
Spuds, bushings, lubricators and reducers.
Foot and check valves.
Globe valves.
Pipe tongs and chain tongs.
Strainers.
Spirit levels.
Pipe thread cutters.
Pipe cutters.
Stullston's wrenches.

Solid end wrenches.
Flue rods.
Casing mallets.
Clamp screws.
Rubber hose and hose couplings.
Bucket forms.
Iron pulleys.
Engine castors.
Engine flooring and blocking.
Hose nipples.
Pipe elbows, T's and unions.
Slip drums and iron mallets.
Pipe nipples, plugs, couplings and cap plugs.
Blocks and ropes, stoves, pipes, etc.
Oil barrels.

Also the following new drill machinery, comprising:
1 4" Diamond drill engine, with mandrel, complete.

233 feet 6" casing.
235 feet 5" casing.
521 feet 4 1/2" casing.
106 1/2 feet 2 3/4" drill rods.
Together with tools and fittings, as follows:
Guide couplings.
Taper taps.
Core barrels.
X bits.
Driving caps.
Casing shoes.
Safety clamps.
Bucket forms.
Jar couplings.
Core lifters.
Water swivels.
Suction hose.
Globe valves.
T's, elbows and unions.
Bushings.
Mallets.
Steel wire rope.
Pulley rope.
Jaws.

The above machinery will be divided into lots, and catalogue showing number and composition of these lots can be seen at the office of the Engineer of the Aqueduct Commissioners, Sing Sing, New York. The Engineer and Auctioneer, at any time previous to the time of sale, will be ready to show the machinery to intending bidders.

TERMS OF SALE.

Purchase money to be paid in bankable funds; twenty per cent. cash payment at time and place of sale, and the balance before removal of property purchased. Purchasers will be required to remove the machinery within ten (10) days from the time of sale. If all or any part of the property purchased is not removed according to the terms of sale, the purchaser shall forfeit all right and title to the same, and also the money part of the consideration paid at the time of sale.

By order of the Aqueduct Commissioners.
JAMES C. DUANE,
President.

J. C. LULLEY,
Secretary.

NOTICE OF SALE AT PUBLIC AUCTION.

MONDAY, MAY 22, 1893,
11 O'CLOCK A. M.

THE AQUEDUCT COMMISSIONERS OF THE City of New York, under the direction of Abram Hyatt, Auctioneer, will sell at Public Auction, on the premises, the following described buildings, etc., now standing at Pine's Bridge, town of Yorktown, Westchester County, New York, viz.:

Palmer Building, at Pine's Bridge, Croton Lake Westchester County, New York.

Lot No. 1. Main hotel building—Three-story frame, 40 feet 5 inches by 31 feet 6 inches, with ell; two-story, 84 feet by 23 feet 6 inches, and kitchen, one and one-half story, 18 feet 6 inches by 19 feet; also one-story building in rear of dining-room, 23 feet 10 inches by 11 feet 6 inches.

Lot No. 2. Bar, back bar, ice-box.

Lot No. 3. Summer kitchen and wash-house—One and one-half story frame, 13 feet 4 inches by 27 feet 4 inches.

Lot No. 4. Main barn—Two-story frame, 22 feet 2 inches by 22 feet 9 inches, five stalls and hay-loft.

Lot No. 5. New barn and ice-house, 57 feet 8 inches by 20 feet 2 inches; eight stalls; carriage-house on second floor, with ice-house on east end.

Lot No. 6. About 200 tons of ice.

Lot No. 7. Enclosed manure shed, 23 feet 5 inches by 16 feet 5 inches.

Lot No. 8. Shed and carriage-house, 32 feet 6 inches by 20 feet 2 inches.

Lot No. 9. Building with two box-stalls, lined with two-inch plank.

Lot No. 10. Shed, 19 feet by 61 feet long.

Lot No. 11. Privy, 5 feet 6 inches by 13 feet 7 inches.

TERMS OF SALE.

The consideration that the Aqueduct Commissioners shall receive for the foregoing buildings, etc., will be: First—The removal of every part of any building, excepting the stone foundation, on or before the 15th day of June, 1893; and Second—The sum paid in money on the day of sale. If any part of any building is left on the grounds on and after the 15th of June, 1893, the purchaser shall forfeit all right and title to the building, or part of building, so left, and also the money part of the consideration paid at the time of the sale; and the Aqueduct Commissioners may, at any time on or after the 15th of June, 1893, cause said building, or part of building, to be removed and disposed of at the expense of the party to whom the above-conditioned sale, as described, may be made. The total amount of the bid must be paid at the time of the sale.

By order of the Aqueduct Commissioners of the City of New York.

JAMES C. DUANE,
President.

J. C. LULLEY,
Secretary.

NOTICE OF SALE AT PUBLIC AUCTION.

MONDAY, MAY 15, 1893,
12 O'CLOCK M.

THE AQUEDUCT COMMISSIONERS OF THE City of New York, under the direction of S. P. Smith, Auctioneer, will sell at Public Auction, at the office of the Engineer of the Aqueduct Commissioners, near the Village of Sodom, Putnam County, New York, the following described buildings, etc., now standing on lands acquired by the City in connection with the new Reservoir in the Town of South East, Putnam County, New York, viz.:

Located on L. M. Yale Place.

Lot No. 1. Tenant-house, 24 x 43.

Located on L. A. Hoyt Place.

Lot No. 1. Barn, 20 x 30.

Located on George Cole Place.

Lot No. 1. Dwelling-house, 27 x 32; extension, 19 x 26.

Located on M. Birch Place.

Lot No. 1. Tenant-house, 27 x 29.

Located on I. Armstrong Place.

Lot No. 1. Mill, 34 x 49; extension, 34 x 40.

Lot No. 2. Ice-house, 24 x 60.

Lot No. 3. Millstones.

Lot No. 4. Ice hoisting apparatus.

TERMS OF SALE.

The consideration that the Aqueduct Commissioners shall receive for the foregoing buildings, etc., will be: First—The removal of every part of the building,

excepting the stone foundation, on or before the first day of June, 1893; and Second—The sum paid in money on the day of the sale. If any part of any building is left on the City's ground on and after the first day of June, 1893, the purchaser shall forfeit all right and title to the building or part of building so left, and also the money part of the consideration paid at the time of the sale; and the Aqueduct Commissioners may, at any time on or after the first day of June, 1893, cause said building, or part of building, to be removed and disposed of at the expense of the party to whom the above conditioned sale, as described, may be made. The total amount of the bid must be paid at the time of the sale.

By order of the Aqueduct Commissioners of the City of New York.

JAMES C. DUANE, President.
J. C. LULLEY, Secretary.

AQUEDUCT COMMISSIONERS' OFFICE,
ROOM 209 STEWART BUILDING, NO. 280 BROADWAY,
NEW YORK, April 28, 1893.

TO CONTRACTORS.

BIDS OR PROPOSALS FOR DOING THE work and furnishing the materials called for in the approved form of contract now on file in the office of the Aqueduct Commissioners for Constructing Highways or Roads, and their appurtenances, fences, etc., at Reservoir "M" in the Town of North Salem, Westchester County, New York, will be received at this office until Wednesday, May 17, 1893, at 3 o'clock P. M., at which place and hour they will be publicly opened by the Aqueduct Commissioners, and the award of the contract for doing said work and furnishing said materials will be made by said Commissioners as soon thereafter as practicable.

Blank forms of said approved contract and the specifications thereof, and bids or proposals, and proper envelopes for their inclosure, and form of bonds, and also the plans for said work and all other information, can be obtained at the above office of the Aqueduct Commissioners on application to the Secretary.

JAMES C. DUANE, President.
J. C. LULLEY, Secretary.

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
ROOM 6, NO. 31 CHAMBERS STREET,
NEW YORK, May 4, 1893.

TO CONTRACTORS.

BIDS OR ESTIMATES, INCLOSED IN A sealed envelope, with the title of the work and the name of the bidder indorsed thereon, also the number of the work as in the advertisement, will be received at this office on Tuesday, May 16, 1893, until 12 o'clock M., at which place and hour they will be publicly opened by the head of the Department.

No. 2. FOR FLAGGING AND REFLAGGING, CURBING AND RECURBING THE SIDEWALKS ON FIRST STREET, from Bowery to Second avenue.

No. 3. FOR FLAGGING AND REFLAGGING, CURBING AND RECURBING THE SIDEWALKS ON TWENTY-FIFTH STREET, from Sixth to Seventh avenue.

No. 4. FOR FLAGGING, FULL WIDTH, AND REFLAGGING, CURBING AND RECURBING THE SIDEWALKS ON SIXTY-FIRST STREET, from Central Park, West, to Columbus avenue.

No. 5. FOR FLAGGING, FULL WIDTH, AND REFLAGGING, CURBING AND RECURBING THE SIDEWALKS ON SIXTY-SIXTH STREET, from Central Park, West, to Boulevard.

No. 6. FOR FLAGGING AND REFLAGGING, CURBING AND RECURBING THE SIDEWALKS ON SIXTY-SEVENTH STREET, from Central Park, West, to Columbus avenue.

No. 7. FOR FLAGGING EIGHT FEET WIDE AND REFLAGGING, CURBING AND RECURBING THE SIDEWALKS ON SIXTY-EIGHTH STREET, from Columbus to Amsterdam avenue.

No. 8. FOR FLAGGING EIGHT FEET WIDE AND REFLAGGING THE SIDEWALKS ON THE WEST SIDE OF BOULEVARD, from Sixty-third to Sixty-seventh street, AND ON THE EAST SIDE OF THE BOULEVARD, from Sixty-fifth to Sixty-seventh street.

No. 9. FOR FLAGGING AND REFLAGGING, CURBING AND RECURBING THE SIDEWALKS ON SIXTY-EIGHTH STREET, from Amsterdam avenue to 100 feet west of West End avenue.

No. 10. FOR FLAGGING FULL WIDTH AND REFLAGGING, CURBING AND RECURBING THE SIDEWALKS ON SOUTH SIDE OF SIXTY-NINTH STREET, from Eighth to Columbus avenue.

No. 11. FOR FLAGGING AND REFLAGGING, CURBING AND RECURBING THE SIDEWALKS ON SEVENTY-SEVENTH STREET, from Madison to Fifth avenue.

No. 12. FOR FLAGGING FULL WIDTH AND REFLAGGING, CURBING AND RECURBING THE SIDEWALKS ON THE BLOCK BOUNDED BY ONE HUNDRED AND FIFTEENTH AND ONE HUNDRED AND SIXTEENTH STREETS, MADISON AND FIFTH AVENUES.

No. 13. FOR FLAGGING FOUR FEET WIDE, REFLAGGING AND CURBING THE SIDEWALKS ON SEVENTY-EIGHTH STREET, from Riverside Drive to West End avenue.

No. 14. FOR FLAGGING EIGHT FEET WIDE AND REFLAGGING, CURBING AND RECURBING THE SIDEWALKS ON SOUTH SIDE OF NINETY-SECOND STREET, from Central Park, West, to Columbus avenue.

No. 15. FOR FLAGGING AND REFLAGGING, CURBING AND RECURBING THE SIDEWALKS ON ONE HUNDRED AND SIXTH STREET, from First to Third avenue.

No. 16. FOR REGULATING AND GRADING ONE HUNDRED AND THIRTY-FIRST STREET, from Amsterdam avenue to Convent avenue, AND SETTING CURB-STONES AND FLAGGING SIDEWALKS THEREIN.

No. 17. FOR REGULATING AND GRADING ONE HUNDRED AND THIRTY-SEVENTH STREET, from Convent avenue to St. Nicholas Terrace, AND SETTING CURB-STONES AND FLAGGING SIDEWALKS THEREIN.

No. 18. FOR REGULATING AND GRADING ONE HUNDRED AND FORTY-THIRD STREET, from Boulevard to Hudson River Railroad, AND SETTING CURB-STONES AND FLAGGING SIDEWALKS THEREIN.

No. 19. FOR RE-REGULATING AND REGRADING ONE HUNDRED AND THIRTY-THIRD STREET, from Boulevard to Twelfth avenue, AND SETTING CURB-STONES AND FLAGGING SIDEWALKS THEREIN.

Each estimate must 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. That it is made without any connection with any other person making an estimate for the same work, and is in all respects fair and without collusion or fraud. That no member of the Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation is directly or indirectly interested in the estimate, or in the work to which it relates or in the profits thereof.

Each estimate must be verified by the oath, in writing, of the party making the same, that the several matters therein stated are true, and must be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, to the effect that if the contract is awarded to the person making the estimate, they will, upon its being so awarded, become bound as his sureties for his faithful performance; and that if he shall refuse or neglect to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled upon its completion and that which the Corporation may be obliged to pay to the person to whom the contract shall be awarded at any subsequent letting; the amount to be calculated upon the estimated amount of the work by which the bids are tested.

The consent last above mentioned must be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract: over and above all his debts of every nature, and over and above his liabilities as bail, surety, or otherwise, and that he has offered himself as surety in good faith, with the intention to execute the bond required by law.

No 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, or money, to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of the deposit will be returned to him.

THE COMMISSIONER OF PUBLIC WORKS RESERVES THE RIGHT TO REJECT ALL BIDS RECEIVED FOR ANY PARTICULAR WORK IF HE DEEMS IT FOR THE BEST INTERESTS OF THE CITY.

Blank forms of bid or estimate, the proper envelopes in which to inclose the same, the specifications and agreements, and any further information desired, can be obtained at Room 6, No. 31 Chambers street.

MICHAEL T. DALY,
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF WATER REGISTRY,
NO. 31 CHAMBERS STREET, ROOM 2,
NEW YORK, May 1, 1893.

CROTON WATER RATES.

NOTICE IS HEREBY GIVEN THAT THE annual Water Rates for 1893 are now due and payable at this office. Permits for the use of Croton water for washing sidewalks, stoops, areas, etc., etc., must be renewed immediately.

MAURICE F. HOLAHAN,
Deputy and Acting Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
NO. 31 CHAMBERS STREET,
NEW YORK.

TO OWNERS OF LANDS ORIGINALLY ACQUIRED BY WATER GRANTS.

ATTENTION IS CALLED TO THE RECENT act of the Legislature (chapter 449, Laws of 1889), which provides that whenever any streets or avenues in the city, described in any grant of land under water, from the Mayor, Aldermen and Commonalty containing covenants requiring the grantees and their successors to pave, repave, keep in repair or maintain such streets, shall be in need of repairs, pavement or repavement, the Common Council may, by ordinance, require the same to be paved, repaved or repaired, and the expense thereof to be assessed on the property benefited; and whenever the owner of a lot so assessed shall have paid the assessment levied for such paving, repaving or repairing, such payment shall release and discharge such owner from any and every covenant and obligation as to paving, repaving and repairing, contained in the water grant under which the premises are held, and no further assessment shall be imposed on such lot for paving, repaving or repairing such street or avenue, unless it shall be petitioned for by a majority of the owners of the property (who shall also be the owners of a majority of the property in frontage, on the line of the proposed improvement).

The act further provides that the owner of any such lot may notify the Commissioner of Public Works, in writing, specifying the ward number and street number of the lot that he desires, for himself, his heirs and assigns, to be released from the obligation of such covenants, and elects and agrees that said lot shall be thereupon liable to be assessed as above provided, and thereupon the owner of such lot, his heirs and assigns shall thenceforth be relieved from any obligation to pave, repair, uphold or maintain said street, and the lot in respect of which such notice was given shall be liable to assessment accordingly.

The Commissioner of Public Works desires to give the following explanation of the operation of this act: When notice, as above described, is given to the Commissioner of Public Works, the owner of the lot or lots therein described, and his heirs and assigns, are forever released from all obligation under the grant in respect to paving, repaving or repairing the street in front of or adjacent to said lot or lots, except one assessment for such paving, repaving or repairs, as the Common Council may, by ordinance, direct to be made thereafter.

No street or avenue within the limits of such grants can be paved, repaved or repaired until said work is authorized by ordinance of the Common Council, and when the owners of such lots desire their streets to be paved, repaved or repaired, they should state their desire and make their application to the Board of Aldermen and not to the Commissioner of Public Works, who has no authority in the matter until directed by ordinance of the Common Council to proceed with the pavement, repavement or repairs.

MICHAEL T. DALY,
Commissioner of Public Works

BOARD OF EDUCATION.

SEALED PROPOSALS WILL BE RECEIVED BY the Board of School Trustees for the Thirteenth Ward, at the Hall of the Board of Education, No. 146 Grand street, until 9:30 o'clock A. M., on Thursday, May 25, 1893, for supplying Furniture for Grammar School No. 4.

GEORGE W. RELYEA, Chairman,
FRANCIS COAN, Secretary,
Board of School Trustees, Thirteenth Ward.
Dated New York, May 12, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Seventeenth Ward, until 10 o'clock A. M., on Thursday, May 25, 1893, for supplying Furniture for Grammar School No. 13 and Primary School No. 25.

HIRAM MERRITT, Chairman,
HENRY H. HAIGHT, Secretary,
Board of School Trustees, Seventeenth Ward.
Dated New York, May 12, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Eighteenth Ward, until 4 o'clock P. M., on Thursday, May 25, 1893, for making Sanitary Improvements at Grammar School No. 50 and Primary School No. 4.

A. G. VANDERPOEL, Chairman,
EWEN MCINTYRE, Secretary,
Board of School Trustees, Eighteenth Ward.
Dated New York, May 12, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Twentieth Ward, until 9:30 o'clock A. M., on Wednesday, May 24, 1893, for Heating Apparatus Work to be done at Grammar School No. 33.

AUGUSTINE HEALY, Chairman,
JOSEPH MOSS, Secretary,
Board of School Trustees, Twentieth Ward.
Dated New York, May 11, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Fourth Ward, until 10 o'clock A. M., on Wednesday, May 24, 1893, for supplying Furniture for Primary School No. 14.

HERMANN BOLTE, Chairman,
JOHN B. SHEA, Secretary,
Board of School Trustees, Fourth Ward.
Dated New York, May 11, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Eleventh Ward, until 10:30 o'clock A. M., on Wednesday, May 24, 1893, for supplying Furniture for Grammar School No. 22.

SAMUEL D. LEVY, Chairman,
SAMUEL SCHUMACHER, Secretary,
Board of School Trustees, Eleventh Ward.
Dated New York, May 11, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Sixteenth Ward, until 4 o'clock P. M., on Wednesday, May 24, 1893, for supplying Furniture for Grammar School No. 11.

G. T. SPRINGSTEED, Chairman,
GEO. W. SKELLEN, Secretary,
Board of School Trustees, Sixteenth Ward.
Dated New York, May 11, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Nineteenth Ward, until 4:30 o'clock P. M., on Wednesday, May 24, 1893, for supplying Furniture for Grammar Schools Nos. 70 and 82.

RICHARD KELLY, Chairman,
L. M. HORNTHAL, Secretary,
Board of School Trustees, Nineteenth Ward.
Dated New York, May 11, 1893.

Sealed proposals will also be received at the same place, by the School Trustees of the Thirteenth Ward, until 9:30 o'clock A. M., on Tuesday, May 23, 1893, for making Sanitary Improvements at Grammar School No. 34.

GEORGE W. RELYEA, Chairman,
FRANCIS COAN, Secretary,
Board of School Trustees, Thirteenth Ward.
Dated New York, May 10, 1893.

Sealed proposals will also be received at the same place, by the School Trustees of the Seventeenth Ward, until 9:30 o'clock A. M., on Monday, May 22, 1893, for making Sanitary Improvements at Grammar School No. 73 and Primary School No. 26.

HIRAM MERRITT, Chairman,
HENRY H. HAIGHT, Secretary,
Board of School Trustees, Seventeenth Ward.
Dated New York, May 9, 1893.

Sealed proposals will also be received at the same place, by the School Trustees of the Sixteenth Ward, until 10 o'clock A. M., on Monday, May 22, 1893, for Repairs, etc., to Heating Apparatus in Grammar Schools Nos. 45 and 56.

G. T. SPRINGSTEED, Chairman,
GEO. W. SKELLEN, Secretary,
Board of School Trustees, Sixteenth Ward.
Dated New York, May 9, 1893.

Sealed proposals will also be received at the same place, by the School Trustees of the Seventh Ward, until 9:30 o'clock A. M., on Friday, May 19, 1893, for making Repairs, Alterations, etc., at Grammar School No. 31 and Primary School No. 36; also to Repair Heating Apparatus at Grammar Schools Nos. 2 and 12.

WM. H. TOWNLEY, Chairman,
JAMES B. MULRY, Secretary,
Board of School Trustees, Seventh Ward.
Dated New York, May 6, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Eleventh Ward, until 10 o'clock A. M., on Friday, May 19, 1893, for making Repairs, Alterations, etc., at Grammar Schools Nos. 15 and 36 and Primary School No. 31; also for Repairs to Heating Apparatus at Grammar Schools Nos. 13 and 71 and Primary School No. 31.

SAMUEL D. LEVY, Chairman,
SAMUEL SCHUMACHER, Secretary,
Board of School Trustees, Eleventh Ward.
Dated New York, May 6, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Twenty-third Ward, until 4 o'clock P. M., on Friday, May 19, 1893, for Repairing the Heating Apparatus at Grammar Department, Grammar School Building No. 60.

SAMUEL SAMUELS, Chairman,
Board of School Trustees, Twenty-third Ward.
Dated New York, May 6, 1893.

Sealed proposals will also be received at the same place by the Board of School Trustees of the Eleventh Ward, until 9:30 o'clock A. M., on Thursday, May 18, 1893, for making Sanitary Improvements at Grammar School No. 15 and Primary Schools Nos. 5 and 31.

SAMUEL D. LEVY, Chairman,
SAMUEL SCHUMACHER, Secretary,
Board of School Trustees, Eleventh Ward.
Dated New York, May 5, 1893.

Sealed proposals will also be received at the same place, by the School Trustees of the Ninth Ward, until 9:30 o'clock A. M., on Wednesday, May 17, 1893, for making Sanitary Improvements at Grammar School No. 16.

L. J. McNAMARA, Chairman,
WM. C. SMITH, Secretary,
Board of School Trustees, Ninth Ward.
Dated New York, May 4, 1893.

Sealed proposals will also be received at the same place, by the School Trustees of the Twenty-first Ward, until 9:30 o'clock A. M., on Monday, May 15, 1893, for Repairing the Heating Apparatus in the buildings of Grammar School No. 14; also for supplying New Furniture for Grammar Schools Nos. 14, 49 and Primary School No. 16.

ROBERT STURGIS, Chairman,
Board of School Trustees, Twenty-first Ward.
Dated New York, May 1, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Eighteenth Ward, until 10 o'clock A. M., on Monday, May 15, 1893, for Repairing the Heating Apparatus in Primary School No. 4.

A. G. VANDERPOEL, Chairman,
EWEN MCINTYRE, Secretary,
Board of School Trustees, Eighteenth Ward.
Dated New York, May 1, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Eighth Ward until 4 o'clock P. M., on Monday, May 15, 1893, for repairing the Heating Apparatus in Grammar School No. 8.

C. F. SULLING, Chairman,
FRANK W. MERRIAM, Secretary,
Board of School Trustees, Eighth Ward.
Dated New York, May 1, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Tenth Ward, until 4:30 o'clock P. M., on Monday, May 15, 1893, for Repairing the Heating Apparatus in Grammar School No. 42 and Primary School No. 1.

CHAS. B. STOVER, Chairman,
LOUIS HAUPT, Secretary,
Board of School Trustees, Tenth Ward.
Dated New York, May 1, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Seventh Ward, until 9:30 o'clock A. M., on Tuesday, May 16, 1893, for supplying New Furniture for Grammar Schools Nos. 12 and 31 and Primary School No. 36.

WM. H. TOWNLEY, Chairman,
JAMES B. MULRY, Secretary,
Board of School Trustees, Seventh Ward.
Dated New York, May 1, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Twelfth Ward, until 10 o'clock A. M., on Tuesday, May 16, 1893, for Repairs, Alterations, etc., at Grammar School Nos. 37, 39, 52, 68, 72, 78 and 86.

JOHN WHALEN, Chairman,
ANTONIO RASINES, Secretary,
Board of School Trustees, Twelfth Ward.
Dated New York, May 1, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Fourteenth Ward, until 4 o'clock P. M., on Tuesday, May 16, 1893, for supplying New Furniture for Grammar Schools Nos. 5, 21 and 30.

JOHN A. O'BRIEN, Chairman,
JOSEPH H. OLIVER, Secretary,
Board of School Trustees, Fourteenth Ward.
Dated New York, May 1, 1893.

Sealed proposals will also be received at the same place by the School Trustees of the Fifteenth Ward, until 4 o'clock P. M., on Tuesday, May 16, 1893, for supplying New Furniture for Grammar Schools Nos. 10 and 35, and for Repairs, Alterations, etc., at Grammar School No. 35.

W. W. WALKER, Chairman,
JOHN A. HARDENBERG, Secretary,
Board of School Trustees, Fifteenth Ward.
Dated New York, May 1, 1893.

Plans and specifications may be seen, and blank proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand street, third floor.

The Trustees reserve the right to reject any or all of the proposals submitted.

The party submitting a proposal, and the parties proposing to become sureties, must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

The party submitting a proposal must include in his proposal the names of all sub-contractors, and no change will be permitted to be made in the sub-contractors named without the consent of the School Trustees and Superintendent of School Buildings.

THE NORMAL COLLEGE OF THE CITY OF NEW YORK.

SEALED PROPOSALS WILL BE RECEIVED BY the Executive Committee for the care, etc., of the Normal College, for supplying some additional Printing required for the Normal College and Training Department, at the Hall of the Board of Education, No. 146 Grand street, until 4 o'clock P. M., on Wednesday May 24, 1893. Samples may be seen, and blank form of proposal furnished, upon application to the Secretary of the Board of Trustees, No. 146 Grand street.

Each proposal must be accompanied by the signatures and place of business of two competent sureties, residents of this city.

The Committee reserves the right to reject any or all of the proposals submitted.

RANDOLPH GUGGENHEIMER,
Chairman.

ARTHUR McMULLIN, Secretary.
Dated New York, May 11, 1893.

A STATED SESSION OF THE BOARD OF Trustees of the Normal College of the City of New York will be held at the Hall of the Board of Education, No. 146 Grand street, on Tuesday, May 16, 1893, at 4 o'clock P. M.

By order,
ADOLPH L. SANGER,
Chairman.

ARTHUR McMULLIN,
Secretary.
Dated New York, May 9, 1893.

THE COLLEGE OF THE CITY OF NEW YORK.

A STATED SESSION OF THE BOARD OF Trustees of the College of the City of New York will be held at the Hall of the Board of Education, No. 146 Grand street, on Tuesday, May 16, 1893, at 4:30 o'clock P. M.

By order,
ADOLPH L. SANGER,
Chairman.

ARTHUR McMULLIN,
Secretary.
Dated New York, May 9, 1893.

CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS.

NEW YORK CITY CIVIL SERVICE BOARDS,
ROOM 30, COOPER UNION,
NEW YORK, May 5, 1893.

PUBLIC NOTICE IS HEREBY GIVEN THAT open competitive examinations for the positions below mentioned will be held at this office on the dates specified:

May 15. INSPECTOR OF MASONRY.
LEE PHILLIPS,
Secretary and Executive Officer.

SUPREME COURT.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to HOME STREET (although not yet named by proper authority), extending from Boston road to Intervale avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

NOTICE IS HEREBY GIVEN THAT WE, THE undersigned, were appointed by an order of the Supreme Court, bearing date the 8th day of March, 1893, Commissioners of Estimate and Assessment, for the purpose of making a just and equitable estimate and assessment of the loss, if any, over and above the benefit and advantage, or of the benefit and advantage, if any, over and above the loss and damage, as the case may be, to the respective owners, lessees, parties and persons respectively entitled unto or interested in the lands, tenements, hereditaments and premises required for the purpose by and in consequence of opening a certain street or avenue, herein designated as Home street, as shown and delineated on a certain map entitled "Map or plan showing change in that part of the Hunt's Point District lying between George street, Franklin avenue, the Twenty-third Ward boundary line and Intervale avenue," which map was filed in the Department of Public Parks February 14, 1889, in the office of the Register of the City and County of New York February 16, 1889, and in the office of the Secretary of State of the State of New York February 16, 1889, and more particularly set forth in the petition of the Board of Street Opening and Improvement filed in the office of the Clerk of the City and County of New York; 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, lessees, parties and persons respectively entitled unto 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 16, title 5, of the act, entitled "An act to consolidate into one act and to declare the special and local laws affecting public interests in the City of New York," passed July 1, 1882, and the acts or parts of acts in addition 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, are hereby required to present the same, duly verified, to us, the undersigned Commissioners of Estimate and Assessment, at our office, No. 51 Chambers street, in the City of New York (Room No. 3), with such affidavits or other proofs as the said owners or claimants may desire, within thirty days after the date of this notice (May 10, 1893).

And we, the said Commissioners, will be in attendance at said office on the 15th day of June, 1893, at 2 o'clock in the afternoon 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 claimant or claimants, or such additional proofs and allegations as may then be offered by such owner, or on behalf of the Mayor, Aldermen and Commonality of the City of New York.

Dated New York, May 10, 1893.
JOSEPH C. WOLFE,
J. B. MORGAN,
APPLETON L. CLARK,
Commissioners.

CHARLES V. GABRIEL, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to ONE HUNDRED AND THIRTY-FIFTH STREET (although not yet named by proper authority), from Convent avenue to Avenue St. Nicholas, in the Twelfth 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:

That it is our intention to present our supplemental or amended report herein to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the 16th day of June, 1893, 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 said supplemental or amended report be confirmed; that an abstract of our amended estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our supplemental or amended report have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in the said city, there to remain until the 31st day of May, 1893; that all persons interested in this proceeding, or in any of the lands affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 51 Chambers street, Room 4, in said city, on or before the 1st day of June, 1893, and that we, the said Commissioners will hear parties so objecting within the ten week days next after the said 1st day of June, 1893, and for that purpose will be in attendance at our said office on each of said ten days at 11 o'clock A. M.; that the area assessed by us for benefit in this proceeding has been extended by us so as to include all those lots, pieces or parcels of land, situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point on the easterly line of the Boulevard, distant ninety-nine feet eleven inches southerly from the southeasterly corner of One Hundred and Thirty-third street and the Boulevard; running thence northerly along the easterly line of the Boulevard to the intersection of the easterly line of the Boulevard with the southeasterly line of Hamilton place; thence northerly along said southeasterly line of Hamilton place to a point distant one hundred and eight feet six and one-half inches northeasterly from the northeast corner of Hamilton place; thence easterly and parallel with the northerly line of One Hundred and Thirty-eighth street to the easterly line of Amsterdam avenue; thence northerly along said easterly line of Amsterdam avenue to a point distant ninety-nine feet eleven inches northerly from the northeast corner of Amsterdam avenue and One Hundred and Fortieth street; thence easterly and parallel with the northerly line of One Hundred and Fortieth street for a distance of eight hundred feet; thence southerly and parallel with the easterly line of Convent avenue for a distance of fifty feet; thence easterly and at right angles with the last mentioned course for a distance of fifty feet; thence southerly and at right angles with the last mentioned course for a distance of seventy-nine feet eleven inches;

thence easterly and at right angles with the preceding course for a distance of fifty feet; thence southerly and at right angles with the last mentioned course for a distance of two hundred and fifty-nine feet ten inches; thence easterly and at right angles with the last mentioned course for a distance of one hundred feet; thence southerly and at right angles with the last mentioned course for a distance of two hundred and fifty-nine feet ten inches; thence easterly and at right angles with the last mentioned course to the westerly line of Avenue St. Nicholas; thence southerly along the westerly line of Avenue St. Nicholas to a point where the center line of the block between One Hundred and Thirty-sixth street and One Hundred and Thirty-seventh street, if prolonged westerly from Edgecombe avenue, would intersect the westerly line of Avenue St. Nicholas; thence easterly and parallel with the southerly line of One Hundred and Thirty-seventh street to the easterly line of Eighth avenue; thence southerly along the easterly line of Eighth avenue to a point distant ninety-nine feet eleven inches southerly from the southwest corner of One Hundred and Thirty-fourth street and Eighth avenue; thence westerly and parallel with the southerly line of One Hundred and Thirty-fourth street to the westerly line of Avenue St. Nicholas; thence southerly along the westerly line of Avenue St. Nicholas to a point distant one hundred feet four and one-eighth inches southerly from the point where the center line of One Hundred and Thirty-second street, if prolonged, would intersect the westerly line of Avenue St. Nicholas; thence westerly and at right angles, or nearly so, with the westerly line of Avenue St. Nicholas for a distance of three hundred and ninety feet; thence northerly and at right angles with the last mentioned course for a distance of two hundred and fifty feet one and one-third inches; thence westerly and at right angles with the last mentioned course, distance seven hundred and eighty-five feet, to the westerly line of Convent avenue; thence southerly along the westerly line of Convent avenue to a point distant one hundred feet southerly from the southwest corner of One Hundred and Thirty-third street and Convent avenue; thence westerly and parallel with the southerly line of the Boulevard, at the point or place of beginning; excepting therefrom all the streets, avenues and roads within the said area, as such area is shown upon our benefit map deposited as aforesaid.

Dated New York, May 6, 1893.
ANDREW S. HAMMERSLEY, JR.,
Chairman,
ROBERT M. VAN ARSDALE,
PATRICK FOX,
Commissioners.

JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to ONE HUNDRED AND THIRTY-SECOND STREET, between Seventh and Eighth avenues, 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, will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof, in the County Court-house, in the City of New York, on the 22d day of May, 1893, 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 Department of Public Works, there to remain for and during the space of ten days.

Dated New York, May 6, 1893.
THOMAS F. DONNELLY,
HERMANN BOLTE,
EMANUEL PERLS,
Commissioners.

MATTHEW P. RYAN, Clerk.

In the matter of the application of the Board of Education, by the Counsel to the Corporation of the City of New York, relative to acquiring title by the Mayor, Aldermen and Commonality of the City of New York, to certain lands on the northerly side of FIFTY-FIRST STREET, between First and Second avenues, in the Nineteenth Ward of said city, duly selected and approved by said Board as a site for school purposes, under and in pursuance of the provisions of chapter 101 of the Laws of 1888, as amended by chapter 35 of the Laws of 1890.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate in the above-entitled matter, appointed pursuant to the provisions of chapter 101 of the Laws of 1888, as amended by chapter 35 of the Laws of 1890, hereby give notice to the owner or owners, lessee or lessees, parties and persons respectively entitled to or interested in the lands, tenements, hereditaments and premises, title to which is sought to be acquired in this proceeding, and to all others whom it may concern, to wit:

First—That we have completed our estimate of the loss and damage to the respective owners, lessees, parties and persons interested in the lands or premises affected by this proceeding or having any interest therein, and have filed a true report or transcript of such estimate in the office of the Board of Education for the inspection of whomsoever it may concern.

Second—That all parties or persons whose rights may be affected by the said estimate and who may object to the same or any part thereof, may, within ten days after the first publication of this notice, file their objections to such estimate, in writing, with us at our office, Room No. 113, on the third floor of the Stewart Building, No. 280 Broadway, in said city, as provided by section 4 of chapter 101 of the Laws of 1888, as amended by chapter 35 of the Laws of 1890; and that we, the said Commissioners, will hear parties so objecting at our said office, on the 16th day of May, 1893, at 11 o'clock in the forenoon, and upon such subsequent days as may be found necessary.

Third—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers, in the County Court-house, in the City of New York, on the 10th day of May, 1893, 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 New York, May 4, 1893.
JOHN E. WARD,
NATHAN FERNBACHER,
WILLIAM M. LAWRENCE,
Commissioners.

MAX A. CRAMER, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to TWO HUNDRED AND SIXTH STREET (although not yet named by proper authority), between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Wednesday, the 31st day of May, 1893, at the opening of the Court

on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue, known as Two Hundred and Sixth street, between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point in the easterly line of Tenth avenue distant 12,431.50 feet northerly from the southerly side of One Hundred and Fifty-fifth street; thence easterly and parallel with said One Hundred and Fifty-fifth street, distant 98.52 feet, to the United States Channel Line, Harlem river; thence northerly along said line, distance 60.40 feet; thence westerly, distance 1,005.52 feet, to the easterly line of Tenth avenue; thence southerly along said line, distance 60 feet, to the point or place of beginning.

Said street to be 60 feet wide between the lines of Tenth avenue and the United States Channel Line, Harlem river.

Dated New York, May 3, 1893.
WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to POST AVENUE (although not yet named by proper authority), between Dyckman street and Tenth avenue, in the Twelfth Ward of the City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Wednesday, the 31st day of May, 1893, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue, known as Post avenue, between Dyckman street and Tenth avenue, in the Twelfth Ward of the City of New York, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point in the easterly line of Dyckman street distant 1,100.58 feet southerly from Kingsbridge road; thence northeasterly, distance 2,060 feet, to the westerly line of Tenth avenue; thence southerly along said line, distance 139.46 feet; thence southwesterly, distance 1,945.76 feet, to the easterly line of Dyckman street; thence northerly along said line, distance 80 feet, to the point or place of beginning.

Said street to be 80 feet wide between the lines of Dyckman street and Tenth avenue.

Dated New York, May 3, 1893.

WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to TWO HUNDRED AND FIRST STREET (although not yet named by proper authority), between Academy street and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Wednesday, the 31st day of May, 1893, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue, known as Two Hundred and First street, between Academy street and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point in the northerly line of Academy street, said point being distant 105.86 feet easterly from the easterly line of Tenth avenue, and 134.12 feet as measured along the northeasterly line of Academy street, and 12,212.33 feet northerly from the southerly line of One Hundred and Fifty-fifth street; thence easterly and parallel with said One Hundred and Fifty-fifth street, distance 744.16 feet, to the United States Channel Line, Harlem river; thence southerly along said line, distance 60.40 feet; thence westerly, distance 651.49 feet, to the northeasterly line of Academy street; thence northwesterly along said line, distance 101.60 feet, to the point or place of beginning.

Said street to be 60 feet wide between the lines of Academy street and the United States Channel Line, Harlem river.

Dated New York, May 3, 1893.
WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to WOLF PLACE (although not yet named by proper authority), extending from Jerome avenue to Inwood avenue, in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Wednesday, the 31st day of May, 1893, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as Wolf place, extending from Jerome avenue to Inwood avenue, in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by said Department of Public Parks, being the following described lots, pieces or parcels of land, viz.:

Beginning at a point in the western line of Jerome avenue, distant 380 feet southerly from the intersection of the western line of Jerome avenue with the southern line of Featherbed lane (as described in the proceedings for acquiring title to Featherbed lane).

1st. Thence southerly along the western line of Jerome avenue for 60 feet.

2d. Thence westerly deflecting 90° to the right for 270 feet.

3d. Thence northerly deflecting 90° to the right for 60 feet.

4th. Thence easterly for 270 feet to the point of beginning.

Wolf place is designated a street of the first class and is 60 feet wide.

And as shown on certain map: filed by the Commissioners of the Department of Public Parks in the Department of Public Parks, in the office of the Register of the City and County of New York, and in the office of the Secretary of State of the State of New York.

Dated New York, May 3, 1893.
WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to ONE HUNDRED AND SIXTY-FOURTH STREET (although not yet named by proper authority), between Edgecombe road and Amsterdam avenue, in the Twelfth Ward of the City of New York, as the same has been heretofore laid out and designated as a third-class street or road by said Board.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Wednesday, the 31st day of May, 1893, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue, known as One Hundred and Sixty-fourth street, between Edgecombe road and Amsterdam avenue, in the Twelfth Ward of the City of New York, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point in the easterly line of Amsterdam avenue, distant 529.85 feet northerly from the northerly line of One Hundred and Sixty-second street; thence easterly and parallel to said street, distance 480.5 feet, to the westerly line of the Edgecombe road; thence northerly along said line, distance 60.89 feet; thence westerly, distance 469.65 feet, to the easterly line of Amsterdam avenue; thence southerly along said line, distance 60 feet, to the point or place of beginning.

Said street to be 60 feet wide between the lines of Amsterdam avenue and Edgecombe road.

Dated New York, May 3, 1893.
WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to TWO HUNDRED AND SECOND STREET (although not yet named by proper authority), between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Wednesday, the 31st day of May, 1893, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue, known as Two Hundred and Second street, between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point in the easterly line of Tenth avenue, distant 12,412.17 feet northerly from the southerly side of One Hundred and Fifty-fifth street; thence easterly and parallel with said One Hundred and Fifty-fifth street, distance 877.32 feet to the United States Channel Line, Harlem river; thence northerly along said line, distance 60.40 feet; thence westerly, distance 884.32 feet to the easterly line of Tenth avenue; thence southerly along said line, distance 60 feet to the point or place of beginning.

Said street to be 60 feet wide between the lines of Tenth avenue and the United States Channel Line, Harlem river.

Dated New York, May 3, 1893.
WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to TWO HUNDRED AND FOURTH STREET (although not yet named by proper authority), between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Wednesday, the 31st day of May, 1893, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue, known as Two Hundred and Fourth street, between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point in the easterly line of Tenth avenue, distant 12,931.83 feet northerly from the southerly side of One Hundred and Fifty-fifth street; thence easterly and parallel with said One Hundred and Fifty-fifth street, distance 937.92 feet to the United States Channel Line, Harlem river; thence northerly along said line, distance 60.40 feet; thence westerly, distance 944.92 feet to the easterly line of Tenth avenue;

thence southerly along said line, distance 60 feet to the point or place of beginning.

Said street to be 60 feet wide between the lines of Tenth avenue and the United States Channel Line, Harlem river.

Dated New York, May 3, 1893.
WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to TWO HUNDRED AND THIRD STREET (although not yet named by proper authority), between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Wednesday, the 23rd day of May, 1893, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as Two Hundred and Third street, between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York, being the following-described lots, pieces or parcels of land, viz.: Beginning at a point in the easterly line of Tenth avenue, distant 12,672 feet northerly from the southerly side of One Hundred and Fifty-fifth street; thence easterly and parallel with said One Hundred and Fifty-fifth street, distance 907.62 feet to the United States Channel Line, Harlem river; thence northerly along said line, distance 60.40 feet; thence westerly, distance 614.62 feet, to the easterly line of Tenth avenue; thence southerly along said line, distance 60 feet, to the point or place of beginning.

Said street to be 60 feet wide between the lines of Tenth avenue and the United States Channel Line, Harlem river.

Dated New York, May 3, 1893.
WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired), to ONE HUNDRED AND THIRTY-NINTH STREET, between Amsterdam avenue and Convent avenue, in the Twelfth 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 affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 51 Chambers street (Room 4), in said city, on or before the 13th day of June, 1893, and that we, the said Commissioners, will hear parties so objecting within the ten week days next after the said 13th day of June, 1893, and for that purpose will be in attendance at our said office on each of said ten days 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 and other documents used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in said city, there to remain until the 12th day of June, 1893.

Third—That the limits of our assessment for benefit include all those lots, pieces, or parcels of land, situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.: Northerly by the centre line of the block between One Hundred and Thirty-ninth street and One Hundred and Fortieth street, from Amsterdam avenue to Convent avenue; easterly by the westerly line of Amsterdam avenue, southerly by the centre line of the block between One Hundred and Thirty-ninth street and One Hundred and Thirty-eighth street, from Convent avenue to Amsterdam avenue, and westerly by the easterly line of Convent avenue; excepting from said area all the streets, avenues and roads, or portions thereof, heretofore legally opened, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the 26th day of June, 1893, 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 New York, May 1, 1893.
SAMUEL E. DUFFY, Chairman,
CHARLES S. HAYES,
WILLIAM H. KLINKER,
Commissioners.

MATTHEW P. RYAN, Clerk.
NOTICE OF APPLICATION FOR APPRAISAL.

PUBLIC NOTICE IS HEREBY GIVEN THAT it is the intention of the Counsel to the Corporation of the City of New York to make application to the Supreme Court for the appointment of Commissioners of Appraisal, under chapter 189 of the Laws of 1893.

Such application will be made at a Special Term of said Court, to be held in the Second Judicial District, at the Court-house in White Plains, Westchester County, on the tenth day of June, 1893, at 10 o'clock in the forenoon, or as soon thereafter as counsel can be heard. The object of such application is to obtain an order of the Court appointing three disinterested and competent freeholders, one of whom shall reside in the County of New York, and the other two of whom shall reside in the county in which the real estate hereinafter described is situated, or in an adjoining county, as Commissioners of Appraisal, to ascertain and appraise the compensation to be made to the owners of, and all persons interested in the real estate hereinafter described, as proposed to be taken or affected for the purpose of providing for the sanitary protection of the sources of the water supply of the City of New York.

The real estate sought to be taken or affected, as aforesaid, is located in the Towns of Mount Pleasant and North Castle, County of Westchester and State of New York, and is laid out and indicated on a certain map bearing date April 24, 1893, signed and certified by Michael T. Daly, Commissioner of Public Works, and George W. Birdsell, Chief Engineer of the Croton Aqueduct, entitled "Department of Public Works, City of New York, Map of lands in the Towns of Mount Pleasant and North Castle, County of Westchester and State of New York, the use or condition of which does or may injuriously affect the sources of the water supply of New York City, proposed to be taken or affected by the Mayor, Aldermen and Commonality of New York City, in providing for the sanitary protection of the water supply of said city, under the provisions of chapter 189 of the Laws of 1893." Which said map was filed in the office of the Register of the County of Westchester, on the 26th day of April, 1893, as Map No. 1066, and a copy or duplicate thereof is now on file in the office of the Commissioner of Public Works of the City of New York, at No. 31 Chambers street, in said city.

The following is a description of the real estate sought to be taken, or in which an interest is sought to be acquired:

All that certain tract of real estate situate, lying and being in the Towns of North Castle and Mount Pleasant, County of Westchester and State of New York, bounded and described as follows:

Beginning at a point on the west side of the road running along the west side of Kensico Lake, near Kensico Dam, and 82.3 feet northerly from the centre line thereof, and running thence along the line between Lots Nos. 72 and 73, claimed by William R. Smith; thence north 84 degrees 31 minutes west 144.52 feet; thence north 15 degrees 17 minutes east 101.47 feet; thence north 84 degrees 29 minutes west 102.42 feet to the east side of Lake View Terrace; thence along said east side of Lake View Terrace the following courses and distances: North 10 degrees 21 minutes east 195.93 feet; north 8 degrees 17 minutes east 220.89 feet; north 0 degrees 57 minutes east 187.34 feet; north 10 degrees 27 minutes east 1,808.05 feet; thence north 21 degrees 15 minutes west 545.20 feet; thence north 6 degrees 21 minutes west 971.30 feet; thence north 6 degrees 21 minutes east 662.65 feet to the south side of Verona street; thence along the south side of said Verona street, north 78 degrees 11 minutes east 319.22 feet to the west side of Commercial avenue; thence along the west side of said Commercial avenue south 11 degrees 49 minutes east 218.40 feet and south 50 degrees 41 minutes east 264.88 feet; thence north 78 degrees 6 minutes east 454.35 feet to the east side of Sedgwick avenue; thence along the east side of said Sedgwick avenue north 11 degrees 34 minutes west 75 feet; thence north 78 degrees 6 minutes east 200.3 feet; thence north 13 degrees 32 minutes west 60.70 feet; thence north 41 degrees 12 minutes east 147.47 feet; thence north 52 degrees 34 minutes east 284.47 feet; thence north 10 degrees 40 minutes west 145 feet; thence north 2 degrees 9 minutes east 154 feet; thence north 32 degrees 16 minutes east 122 feet; thence north 48 degrees 39 minutes east 246 feet; thence north 62 degrees 23 minutes east 103 feet; thence north 87 degrees 52 minutes east 219.23 feet to the property of the City of New York; thence along the lines of the said property the following courses and distances: South 67 degrees 31 minutes west 221 feet; south 67 degrees 4 minutes west 170 feet; south 29 degrees 55 minutes west 85 feet; south 31 degrees 17 minutes west 55 feet; south 2 degrees 7 minutes east 401 feet; south 12 degrees 3 minutes east 360 feet to the west side of the before mentioned road on the west side of Kensico Lake, and running thence along the west side of said road the following courses and distances: South 56 degrees 57 minutes west 239 feet; south 47 degrees 24 minutes west 522.20 feet; south 71 degrees 8 minutes west 324 feet; south 81 degrees 17 minutes west 118 feet; thence north 52 degrees 8 minutes west 210 feet; thence north 49 degrees 6 minutes west 400 feet; thence south 5 degrees 36 minutes west 353.18 feet; thence south 3 degrees 25 minutes east 576 feet to the west side of the before mentioned road; thence along the same the following courses and distances: South 2 degrees 33 minutes east 300 feet; south 17 degrees 39 minutes east 293 feet, and south 40 degrees 23 minutes west 200.01 feet; thence south 27 degrees 29 minutes east 160 feet; thence south 87 degrees 55 minutes east 201 feet to the west side of the before mentioned road; thence along the same the following courses and distances: South 36 degrees 24 minutes east 216 feet; south 18 degrees 53 minutes east 343 feet; south 8 degrees 18 minutes east 287 feet; south 8 degrees 57 minutes west 530 feet; south 14 degrees 13 minutes west 701.10 feet; south 7 degrees 26 minutes west 276 feet; south 4 degrees 32 minutes west 464 feet; south 5 degrees 33 minutes west 427.85 feet to the place of beginning.

Also that certain piece or parcel of land shown on said map beginning at a point on the east side of the road running along the east side of Kensico Lake, near Kensico Dam, and running thence the following courses and distances: North 31 degrees 31 minutes east 18 feet, north 62 degrees 36 minutes east 60 feet, north 50 degrees 29 minutes east 100 feet, north 87 degrees 19 minutes east 104 feet, north 40 degrees 11 minutes east 100 feet, north 10 degrees 38 minutes west 254 feet to the east side of the before mentioned road; thence along the same the following courses and distances: North 15 degrees 43 minutes east 72 feet, north 8 degrees 22 minutes east 112 feet, north 22 degrees 25 minutes east 93 feet, north 31 degrees 2 minutes east 201.2 feet, north 12 degrees 1 minutes east 306 feet, north 4 degrees 46 minutes east 210 feet, north 13 degrees 33 minutes east 290 feet, north 16 degrees 44 minutes east 294 feet, north 37 degrees 20 minutes east 196 feet, north 26 degrees 10 minutes east 174 feet, and north 32 degrees 53 minutes east 95.6 feet; thence north 75 degrees 57 minutes east 99.3 feet; thence north 82 degrees 27 minutes east 88 feet, north 1 degree 41 minutes west 184 feet, and north 24 degrees 20 minutes west 168 feet to the before mentioned east side of road; thence along same the following courses and distances: North 4 degrees 33 minutes east 210 feet, north 14 degrees 32 minutes east 260 feet, north 0 degrees 50 minutes east 350.6 feet, north 25 degrees 14 minutes east 121 feet, north 16 degrees 10 minutes east 430 feet, north 11 degrees 19 minutes east 230 feet, and north 17 degrees 19 minutes east 375 feet; thence north 31 degrees 51 minutes west 73 feet; thence the following courses and distances along the lines of property of the City of New York: North 15 degrees 1 minute east 166 feet, north 17 degrees 16 minutes east 177 feet, north 4 degrees 4 minutes west 66 feet, north 5 degrees 8 minutes west 130 feet, north 1 degree 37 minutes east 188 feet, north 3 degrees 8 minutes west 183 feet, north 17 degrees 28 minutes east 147 feet, north 5 degrees 12 minutes west 20 feet, north 28 degrees 34 minutes east 205 feet, north 50 degrees 23 minutes east 187 feet, north 3 degrees 43 minutes east 190 feet, north 26 degrees 34 minutes east 165 feet, north 45 degrees 8 minutes east 165 feet, north 69 degrees 22 minutes east 400 feet, south 77 degrees 34 minutes east 181 feet, north 76 degrees 25 minutes east 80 feet, north 58 degrees 30 minutes east 160 feet, north 52 degrees 19 minutes east 650 feet, north 32 degrees 44 minutes east 135 feet, north 60 degrees 59 minutes east 140 feet, south 53 degrees 32 minutes east 42 feet, south 56 degrees 0 minutes east 163 feet, north 8 degrees 53 minutes west 130 feet, north 48 degrees 59 minutes east 131 feet, to the road leading from Tarrytown to Armonk; thence along same the following distances and courses: North 71 degrees 2 minutes east 351 feet, north 68 degrees 51 minutes west 24.93 feet, north 63 degrees 40 minutes west 150 feet, and north 41 degrees 31 minutes west 223 feet; thence north 11 degrees 51 minutes east 438 feet; thence north 59 degrees 58 minutes east 200 feet; thence north 43 degrees 58 minutes east 99 feet; thence north 83 degrees 3 minutes west 270 feet; thence south 10 degrees 4 minutes west 78 feet; thence south 33 degrees 4 minutes west 186 feet; thence south 22 degrees 51 minutes west 157 feet; thence south 55 degrees 42 minutes west 181 feet, to the before mentioned road leading from Tarrytown to Armonk; thence along same south 88 degrees 22 minutes west 46 feet, and north 71 degrees 53 minutes west 48 feet; thence north 88 degrees 49 minutes west 550.5 feet; thence north 41 degrees 53 minutes west 8.45 feet; thence south 10 degrees 51 minutes west 270.4 feet, to the west side of the road running along the west side of Kensico Lake; thence along the same south 26 degrees 48 minutes west 131.42 feet; thence north 19 degrees 18 minutes west 203.5 feet; thence north 25 degrees 30 minutes east 160 feet; thence north 50 degrees 49 minutes east 320.90 feet; thence south 89 degrees 28 minutes east 131 feet; thence north 79 degrees 26 minutes east 335 feet; thence north 28 degrees 38 minutes east 370 feet; thence north 49 degrees 57 minutes east 200 feet; thence south 87 de-

grees 25 minutes east 200 feet; thence south 44 degrees 47 minutes east 215.42 feet; thence south 27 degrees 17 minutes west 189.58 feet; thence south 10 degrees 53 minutes east 430 feet; thence south 70 degrees 40 minutes east 345 feet; thence south 37 degrees 50 minutes east 405.85 feet to the centre of road leading from Tarrytown to Armonk; thence along the same the following courses and distances: South 52 degrees 24 minutes east 60.15 feet, south 19 degrees 7 minutes west 85.1 feet, south 40 degrees 40 minutes east 18 feet; thence still along the centre of said road to the east line of Parcel No. 27; thence north 10 degrees 7 minutes west 18 feet; thence north 61 degrees 16 minutes east 249.1 feet; thence north 18 degrees 16 minutes east 441.5 feet; thence north 86 degrees 34 minutes east 35.9 feet; thence south 84 degrees 27 minutes east 65.7 feet; thence north 76 degrees 18 minutes east 31.9 feet; thence north 53 degrees 22 minutes east 52.7 feet; thence north 27 degrees 57 minutes east 62.4 feet; thence north 43 degrees 10 minutes east 72.1 feet; thence north 34 degrees 51 minutes east 20 feet; thence north 36 degrees 41 minutes east 54.6 feet; thence north 85 degrees 50 minutes east 135.2 feet; thence north 89 degrees 14 minutes east 56 feet to the centre of the before mentioned road; thence along the centre of same the following courses and distances: South 33 degrees 32 minutes west 57.1 feet, south 36 degrees 14 minutes west 22.9 feet, and south 37 degrees 51 minutes west 52.8 feet; thence south 68 degrees 20 minutes east 160.82 feet; thence south 10 degrees 43 minutes and 30 seconds west 80.13 feet; thence south 6 degrees 45 minutes west 204.9 feet; thence north 44 degrees 22 minutes west 126.34 feet; thence north 68 degrees 21 minutes west 194.91 feet to the centre of the road; thence along the centre of the same, south 30 degrees 28 minutes west 73.78 feet, and south 33 degrees 37 minutes west 140 feet; thence south 44 degrees west 36.8 feet; thence south 21 degrees 30 minutes west 186.6 feet; thence south 37 degrees 26 minutes west 115.5 feet; thence south 42 degrees 5 minutes west 133.7 feet; thence south 48 degrees 15 minutes west 127.6 feet; thence south 64 degrees 21 minutes west 174.5 feet; thence south 74 degrees 49 minutes west 135.3 feet; thence south 78 degrees 6 minutes west 99.8 feet; thence south 83 degrees 22 minutes west 238.3 feet; thence south 87 degrees 11 minutes west 64.4 feet; thence north 41 degrees 43 minutes west 261.56 feet, to the centre of the before mentioned road, running along the east side of Kensico Lake; thence along the centre of same the following courses and distances: South 57 degrees 28 minutes west 214.51 feet, south 55 degrees 11 minutes west 208.54 feet, south 50 degrees 20 minutes west 190 feet, south 46 degrees 35 minutes west 150 feet, south 44 degrees 15 minutes west 55 feet, south 37 degrees 20 minutes west 211.37 feet; thence north 53 degrees 17 minutes west 235.95 feet; thence south 51 degrees 47 minutes west 162.07 feet; thence south 70 degrees 50 minutes west 161 feet; thence south 36 degrees 20 minutes west 217 feet; thence south 11 degrees 12 minutes west 230 feet; thence south 50 degrees 43 minutes west 225 feet; thence south 20 degrees 34 minutes east 97 feet to the centre of the before mentioned road; thence along the centre of same south 18 degrees 43 minutes west 146 feet, and south 15 degrees 30 minutes west 220 feet; thence south 56 degrees 11 minutes east 123.8 feet; thence south 19 degrees 26 minutes west 450.5 feet; thence south 14 degrees 58 minutes west 1,120 feet; thence south 4 degrees 39 minutes west 241.2 feet; thence south 10 degrees 26 minutes west 568.8 feet; thence south 1 degree 10 minutes west 398.81 feet; thence south 45 degrees 7 minutes west 282.37 feet; thence south 40 degrees 42 minutes west 223 feet; thence south 10 degrees 58 minutes west 1,170 feet; thence south 26 degrees 58 minutes west 295 feet; thence south 4 degrees 0 minutes east 192 feet; thence south 8 degrees 4 minutes west 278 feet; thence south 56 degrees 11 minutes west 225 feet; thence north 81 degrees 53 minutes west 285 feet; thence north 25 degrees 1 minute west 185.22 feet to the place of beginning.

The real estate within the above boundaries includes all the parcels shown on the said map numbered one to twenty-eight, both inclusive, all of which are to be acquired in fee except the property of the Methodist Episcopal Church of Kensico, designated on said map as Parcel No. 16. The following interest or estate will be acquired in the said church property, designated on said map as Parcel No. 16 and enclosed within the green lines on said map, viz.: The right to compel the fencing of the church property and to compel the trustees to keep the gates and other means of approach to the said lot locked and securely fastened at all times, except when the said property is being used for church purposes, also to compel the thorough cleansing of the horse shed on the property at least once a week; third, to compel the adoption and the permanent use of iron receptacles to be placed under the privy vaults to be cleaned at least once in each month and thoroughly disinfected at the time of such cleaning.

Reference is hereby made to the said map filed as aforesaid in the office of the Register of said County for a more detailed description of the real estate to be taken or affected.

Dated New York City, April 26, 1893.
WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to ONE HUNDRED AND THIRTY-SECOND STREET, between Seventh avenue and Eighth avenue, in the Twelfth Ward of the City of New York.

NOTICE IS HEREBY GIVEN THAT WE, THE undersigned Commissioners of Estimate and Assessment in the above-entitled matter, will be in attendance at our office, No. 51 Chambers street (Room 4), in said city, on Friday, May 12, 1893, at 1 o'clock p. m., to hear any person or persons who may consider themselves aggrieved by our estimate or assessment (an abstract of which has been heretofore filed by us for and during the space of forty days in the office of the Commissioner of Public Works, No. 31 Chambers street), in opposition to the same; that our said abstract of estimate and assessment may be hereafter inspected at our said office, No. 51 Chambers street; that it is our intention to present our report for confirmation to the Supreme Court, at a Special Term thereof, to be held at Chambers thereof, at the County Court-house, in the City of New York, on the 19th day of May, 1893, at the opening of Court on that day, to which day the motion to confirm the same will be adjourned, 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 New York, April 26, 1893.
THOMAS F. DONNELLY, Chairman,
HERMANN BOLTE,
EMANUEL PERLS,
Commissioners.

MATTHEW P. RYAN, Clerk.
In the matter of the application of the Commissioners of the Department of Public Parks of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title in fee to certain pieces or parcels of land extending from the easterly side of Jerome avenue, at One Hundred and Sixty-second street, to the easterly bulkhead line of the Harlem river, opposite One Hundred and Fifty-fifth street and Seventh avenue, in the Twenty-third Ward of said city, for the purpose of the construction of the JEROME AVENUE APPROACH, with the necessary abutments and arches, to the NEW MACOMB'S DAM BRIDGE, across the Harlem river, in said city.

PURSUANT TO THE PROVISIONS OF CHAP. 13 of the Laws of 1890, as amended by chapter 13 of the Laws of 1892, and the provisions of law relating to the taking of private property for public streets or places in the City of New York, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house in the City of New York, on Tuesday, the 23rd day of May, 1893, 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 intended is the acquisition of title in fee, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, the consent and approval of the Board of Estimate and Apportionment having been first had and obtained, to certain pieces or parcels of land, with the buildings thereon and the appurtenances thereto belonging, extending from the easterly side of Jerome avenue at One Hundred and Sixty-second street to the easterly bulkhead line of the Harlem river, opposite One Hundred and Fifty-fifth street and Seventh avenue, in the Twenty-third Ward of said city, for the purpose of the construction of the Jerome Avenue Approach, with the necessary abutments and arches, to the new Macomb's Dam Bridge across the Harlem river in said city, as provided by said chapter 13 of the Laws of 1890, as amended by chapter 13 of the Laws of 1892, being the following plots, pieces or parcels of land, situate, lying and being in the Twenty-third Ward of the City of New York, and bounded and described as follows:

PARCEL "A."
Beginning at a point on the easterly side of Jerome avenue, distant from the intersection of the said easterly side of Jerome avenue and the northerly side of One Hundred and Sixty-first street seven hundred and eighty-nine feet and twenty-four one-hundredths of a foot (789.24 feet); thence running southerly in the direction of the said easterly side of Jerome avenue prolonged two hundred and ninety-one feet and thirty-seven one-hundredths of a foot (291.37 feet); thence westerly making an angle with the last-mentioned line of one hundred and one degrees, eleven minutes and twenty-eight seconds (101° 11' 28") ten feet and nineteen one-hundredths of a foot (10.19 feet); thence southerly making an angle with the last-mentioned line of one hundred and one degrees, eleven minutes and twenty-eight seconds (101° 11' 28") seventy-two feet and forty-eight one-hundredths of a foot (72.48 feet); thence southerly on a curve turning to the right with a radius of fifteen hundred and forty feet (1,540 feet) three hundred and seventy-six feet and five-tenths of a foot (376.5 feet) to the northerly side of One Hundred and Sixty-first street; thence westerly by the said northerly side of One Hundred and Sixty-first street eighty-one feet and thirty-three one-hundredths of a foot (81.33 feet); thence northerly on a curve parallel to the last-mentioned curve turning to the left with a radius of fourteen hundred and sixty feet (1,460 feet), three hundred and seventy-one feet and thirty-four one-hundredths of a foot (371.34 feet); thence northerly tangent to the last-mentioned curve fifty-seven feet and eighteen one-hundredths of a foot (57.18 feet); thence westerly making an angle with the last-mentioned line of seventy-eight degrees forty-eight minutes and thirty-two seconds (78° 48' 32") thirty-two feet and fifteen one-hundredths of a foot (32.15 feet) to the aforesaid easterly side of Jerome avenue; thence northeasterly by the said easterly side of Jerome avenue three hundred and forty-four feet and sixteen one-hundredths of a foot (344.16 feet) to the point of beginning.

PARCEL "B."
Beginning at a point in the southerly side of One Hundred and Sixty-first street, distant from the intersection of the said southerly side of One Hundred and Sixty-first street and the easterly side of Jerome avenue three hundred and fifty-eight feet and fifty-two one-hundredths of a foot (358.52 feet); thence easterly by the said southerly side of One Hundred and Sixty-first street eighty-two feet and four one-hundredths of a foot (82.04 feet); thence southerly and southeasterly on a curve turning to the right, with a radius of fifteen hundred and forty feet (1,540 feet), the tangent to said curve making an angle with the last-mentioned line of seventy-seven degrees, thirty-one minutes and twenty-six seconds (77° 31' 26") eight hundred and seventy-eight feet and thirty-nine one-hundredths of a foot (878.39 feet); thence southeasterly normal to the last-mentioned curve ten feet (10 feet); thence southeasterly making an angle with the last-mentioned line of ninety degrees (90°) three hundred and seventy-one feet and ninety-one one-hundredths of a foot (376.91 feet); thence southeasterly making an angle with the last-mentioned line of ninety degrees (90°) five feet (5 feet); thence southeasterly making an angle with the last-mentioned line of ninety degrees (90°) thirty feet (30 feet) to the easterly bulkhead line of the Harlem river; thence northeasterly by said bulkhead line one hundred and ten feet (110 feet); thence northeasterly making an angle with the last-mentioned line of ninety degrees (90°) thirty feet (30 feet); thence southeasterly making an angle with the last-mentioned line of ninety degrees (90°) five feet (5 feet); thence northeasterly making an angle with the last-mentioned line of ninety degrees (90°) three hundred and seventy-six feet and ninety-one one-hundredths of a foot (376.91 feet); thence southeasterly making an angle with the last-mentioned line of ninety degrees (90°) ten feet (10 feet); thence northeasterly and northerly on a curve turning to the left with a radius of fourteen hundred and sixty feet (1,460 feet) and parallel to the curve before mentioned hundred and fifteen feet and four one-hundredths of a foot (150.4 feet) to the point of beginning.

Dated New York, April 25, 1893.
WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonality of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired), to ONE HUNDRED AND SEVENTEENTH STREET, between Amsterdam avenue and Morningside avenue, West, in the Twelfth 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 affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 51 Chambers street (Room 4), in said city, on or before the 7th day of June, 1893, and that we, the said Commissioners, will hear parties so objecting within the ten week days next after the said 7th day of June, 1893, and for that purpose will be in attendance at our said office on each of said ten days at 12 o'clock m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in said city, there to remain until the 6th day of June, 1893.

Third—That the limits of our assessment for benefit include all those lots, pieces, or parcels of land, situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.:

Northerly by the centre line of the block between One Hundred and Eighteenth street and One Hundred and Seventeenth street, from Amsterdam avenue to Morningside avenue; West: easterly by the westerly line of the block between One Hundred and Seventeenth street and One Hundred and Sixteenth street, from Morningside avenue, West, to Amsterdam avenue; and westerly by the easterly line of Amsterdam avenue, excepting from said area all the streets, avenues and roads, or portions thereof, heretofore legally opened, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the 20th day of June, 1893, 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 New York, April 25, 1893.
WILLIAM H. BARKER, Chairman,
LEO. C. DESSAR,
JAS. E. DOHERTY, Commissioners.
JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Education, by the Counsel to the Corporation of the City of New York, relative to acquiring title by the Mayor, Aldermen and Commonalty of the City of New York, to certain lands at KINGSBRIDGE, in the Twenty-fourth Ward of said city, duly selected and approved by said Board as a site for school purposes, under and in pursuance of the provisions of chapter 191 of the Laws of 1888, as amended by chapter 35 of the Laws of 1890.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, appointed pursuant to the provisions of chapter 191 of the Laws of 1888, as amended by chapter 35 of the Laws of 1890, hereby give notice to the owner or owners, lessee or lessees, parties and persons respectively entitled to or interested in the lands, tenements, hereditaments and premises, title to which is sought to be acquired in this proceeding, and to all others whom it may concern, to wit:

First—That we have completed our estimate of the loss and damage to the respective owners, less-ees, parties and persons interested in the lands or premises affected by this proceeding or having any interest therein, and have filed a true report or transcript of such estimate in the office of the Board of Education for the inspection of whomsoever it may concern.

Second—That all parties or persons whose rights may be affected by the said estimate and who may object to the same or any part thereof may, within ten days after the first publication of this notice, file their objections to such estimate, in writing, with us at our office, Room No. 113, on the third floor of the Stewart Building, No. 280 Broadway, in said city, as provided by section 4 of chapter 191 of the Laws of 1888, as amended by chapter 35 of the Laws of 1890; and that we, the said Commissioners, will hear parties so objecting at our said office on the 23rd day of May, 1893, at 12 o'clock in the forenoon, and upon such subsequent days as may be found necessary.

Third—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers in the County Court-house, in the City of New York, on the 17th day of May, 1893, 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 New York, April 26, 1893.
WILLIAM C. HOLBROOK,
ALFRED J. MURRAY,
CONRAD HARRIS, Commissioners.
LUCIUS A. RUSSELL, Jr., Clerk.

In the matter of the application of the Counsel to the Corporation of the City of New York, upon the request of the Department of Public Parks of the said City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, to acquire title to certain lands, property rights, terms, easements and privileges necessary to be acquired pursuant to chapter 102 of the Laws of 1893, entitled "An Act to lay out, establish and regulate a public driveway in the City of New York."

PURSUANT TO THE PROVISIONS OF CHAPTER 102 of the Laws of 1893, and the statutes in such cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house in the City of New York, on the 23rd day of May, 1893, at the opening of Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter.

The nature and extent of the improvement hereby intended is the acquisition of title on behalf of the Mayor, Aldermen and Commonalty of the City of New York, in and to all such real estate not owned by the Mayor, Aldermen and Commonalty of the City of New York, or any right, title, or interest therein not extinguishable by public authority, embraced within the lines of a certain public driveway, as duly laid out and established by the Department of Public Parks of the City of New York, under and pursuant to the provisions of chapter 102 of the Laws of 1893, entitled "An Act to lay out, establish and regulate a public driveway in the City of New York," as shown on certain maps duly filed, one in the office of the Department of Public Parks of the City of New York, one in the office of the Register of the City and County of New York, and one in the office of the Clerk of the City and County of New York, which said public driveway is bounded and described as follows: Commencing at a point on One Hundred and Fifty-fifth street in said city, at or near the intersection of said street and St. Nicholas place; thence in a general northeasterly direction to a point on the westerly shore of the Harlem river; thence in a general northerly direction on, along or near the said west shore of said Harlem river to connect with Dyckman street, including within its said lines the following described lots, pieces or parcels of land, in the Twelfth Ward of the City of New York, bounded and described as follows, viz.:

Beginning at a point on the northerly line of One Hundred and Fifty-fifth street, distant 724.00 feet easterly from the intersection of the easterly line of Tenth avenue with the northerly line of One Hundred and Fifty-fifth street; thence running easterly along the northerly line of One Hundred and Fifty-fifth street for a distance of 105.00 feet; thence running northerly at an angle of 107° 46' 17" to the left for a distance of 114.00 feet; thence running northerly and in a curved line to the right, radius 225 feet, for a distance of 56.00 feet; thence running northeasterly for a distance of 149.00 feet; thence running northerly and in a curved line to the left, radius 415 feet, for a distance of 153.00 feet; thence running northeasterly and in a curved line to the right, radius 1,296.00 feet, for a distance of 673.00 feet; thence running northeasterly for a distance of 1,366 feet to an intersection with the United States Channel Line on the westerly side of the Harlem river; thence running northerly along said channel line and in a curved line to the right, radius 4,220 feet, for a distance of 490.00 feet; thence running northerly along said channel line for a distance of 2,051.00 feet; thence running northerly along said channel line and in a curved line to the left, radius 1,000 feet, for a distance of 139.00 feet; thence running northerly along said channel line for a distance of 474.00 feet; thence running northerly along said channel line and in a curved line to the right, radius 2,600 feet, for a distance of 48.00 feet; thence running northerly along said channel line for a distance of 908.00 feet; thence running northerly along said channel line and in a curved line to the right, radius 2,624.00 feet, for a distance of 259.00

feet; thence running northerly along said channel line and in a curved line to the left, radius 9,582.00 feet, for a distance of 450.00 feet; thence running northerly along said channel line and in a curved line to the left, radius 16,145.00 feet, for a distance of 647.00 feet; thence running northerly along said channel line for a distance of 226.00 feet; thence running northerly along said channel line and in a curved line to the right, radius 20,000 feet, for a distance of 1,016.00 feet; thence running westerly for a distance of 100 feet to an intersection with a line parallel to and distant 50 feet easterly from the easterly line of Dyckman street; thence running northerly along a line parallel to and distant 50 feet easterly from the easterly line of Dyckman street, for a distance of 907.00 feet; thence running northwesterly at an angle of 23° 30' 03" to the left, for a distance of 125.00 feet, to the angle in the easterly line of Dyckman street; thence running southerly along the easterly line of Dyckman street for a distance of 1,095.00 feet to a point distant 100 feet westerly from the United States Channel Line, on the westerly side of the Harlem river; thence running southerly along a line parallel to and distant 100 feet westerly from said United States Channel Line, and in a curved line to the left, radius 22,100 feet, for a distance of 1,321.00 feet; thence running southerly for a distance of 221.00 feet; thence running southerly and in a curved line to the right, radius 15,995.00 feet, for a distance of 641.00 feet; thence running southerly and in a curved line to the right, radius 9,432.00 feet, for a distance of 452.00 feet; thence running southerly and in a curved line to the left, radius 2,834.00 feet, for a distance of 273.00 feet; thence running southerly and in a curved line to the left, radius 2,750 feet, for a distance of 510.00 feet; thence running southerly for a distance of 474.00 feet; thence running southerly and in a curved line to the right, radius 850 feet, for a distance of 110.00 feet; thence running southerly for a distance of 2,051.00 feet; thence running southerly and in a curved line to the left, radius 4,370 feet, for a distance of 508.00 feet; thence running southerly and in a curved line to the right, radius 276.00 feet, for a distance of 135.00 feet; thence running southerly and in a curved line to the left, radius 1,396.00 feet, for a distance of 723.00 feet; thence running southerly and in a curved line to the right, radius 315 feet, for a distance of 116.00 feet; thence running southerly and in a curved line to the left, radius 325 feet, for a distance of 139.00 feet; thence running southerly for a distance of 139.00 feet, more or less, to the point or place of beginning.

Dated New York, April 25, 1893.
WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf 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 CAULDWELL AVENUE (although not yet named by proper authority), extending from Boston road to East One Hundred and Sixty-third street, and from Clifton street to Westchester avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

NOTICE IS HEREBY GIVEN THAT WE, THE undersigned Commissioners of Estimate and Assessment in the above-entitled matter, will be in attendance at our office, No. 51 Chambers street (Room 4), in said city, on Monday, May 8, 1893, at 2 o'clock P. M., to hear any person or persons who may consider themselves aggrieved by our estimate or assessment (an abstract of which has been heretofore filed by us for and during the space of forty days in the office of the Commissioner of Public Works, No. 31 Chambers street, in opposition to the same; that our said abstract of estimate and assessment may be hereafter inspected at our said office, No. 51 Chambers street; that it is our intention to present our report for confirmation to the Supreme Court, at a Special Term thereof, to be held at Chambers thereof, at the County Court-house, in the City of New York, on the 12th day of May, 1893, at the opening of Court on that day, to which day the motion to confirm the same will be adjourned, 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 New York, April 25, 1893.
EDWARD JACOBUS, Chairman,
ELLSWORTH L. STRIKER,
CHARLES D. BURRILL, Commissioners.
JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of ONE HUNDRED AND FIFTH STREET, between Riverside avenue and the Boulevard, in the Twelfth Ward of the City of New York.

NOTICE IS HEREBY GIVEN THAT WE, THE undersigned, were appointed by orders of the Supreme Court, bearing dates respectively the 15th day of February, 1893, and the 24th day of March, 1893, Commissioners of Estimate and Assessment, for the purpose of making a just and equitable estimate and assessment of the loss, if any, over and above the benefit and advantage, or of the benefit and advantage, if any, over and above the loss and damage, as the case may be, to the respective owners, lessees, parties and persons respectively entitled unto or interested in the lands, tenements, hereditaments and premises required for the purpose by and in consequence of opening a certain street or avenue, herein designated as One Hundred and Fifth street, as shown and delineated on a certain map of the City of New York, made by the Commissioners of Streets and Roads of the City of New York, and filed in the office of the Street Commissioner of the City of New York April 1, 1891, and as shown and delineated on a certain map made by the Board of Commissioners of the Central Park, by and under authority of chapter 697 of the Laws of 1867, and filed in the office of the Street Commissioner of the City of New York on March 7, 1868, and more particularly set forth in the petition of the Board of Street Opening and Improvement filed in the office of the Clerk of the City and County of New York; 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, lessees, 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 16, title 5, of the act, entitled "An act to consolidate into one act and to declare the special and local laws affecting public interests in the City of New York," passed July 1, 1882, and the acts or parts of acts in addition 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, are hereby required to present the same, duly verified, to us, the undersigned Commissioners of Estimate and Assessment, at our office, No. 51 Chambers street, in the City of New York, Room No. 3, with such affidavits or other proofs

as the said owners or claimants may desire, within thirty days after the date of this notice (April 12, 1893). And we, the said Commissioners, will be in attendance at our said office on the 15th day of May, 1893, at 3:30 o'clock in the afternoon 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 on behalf of the Mayor, Aldermen and Commonalty of the City of New York.

Dated New York, April 12, 1893.
JAMES MITCHELL,
THOMAS J. MILLER,
BENJAMIN PERKINS, Commissioners.
MATTHEW P. RYAN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf 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 ONE HUNDRED AND THIRTY-SIXTH STREET, from Amsterdam avenue to Convent avenue, in the Twelfth 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 affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 51 Chambers street (Room 4), in said city, on or before the 23rd day of May, 1893; and that we, the said Commissioners, will hear parties so objecting within the ten week days next after the said 23rd day of May, 1893, and for that purpose will be in attendance at our said office on each of said ten days at 12 o'clock M.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in said city, there to remain until the 22d day of May, 1893.

Third—That the limits of our assessment for benefit include all those lots, pieces or parcels of land, situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.: Northerly by the centre line of the block between One Hundred and Thirty-sixth street and One Hundred and Thirty-seventh streets; easterly by the westerly line of Convent avenue; southerly by the centre line of the block between One Hundred and Thirty-sixth street and One Hundred and Thirty-fifth street; and westerly by the easterly line of Amsterdam avenue; excepting from said area all the streets, avenues, roads or portions thereof heretofore legally opened, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the eighth day of June, 1893, 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 New York, April 10, 1893.
THOMAS NOLAN, Chairman,
JOSEPH C. WOLFE,
WILLIAM H. MCKEAN, Commissioners.
JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf 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 ONE HUNDRED AND THIRTY-SECOND STREET, between Seventh and Eighth avenues, in the Twelfth 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 affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 51 Chambers street (Room 4), in said city, on or before the 24th day of April, 1893, and that we, the said Commissioners, will hear parties so objecting within the ten week days next after the said 24th day of April, 1893, and for that purpose will be in attendance at our said office on each of said ten days at 1 o'clock P. M.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in said city, there to remain until the 24th day of April, 1893.

Third—That the limits of our assessment for benefit include all those lots, pieces or parcels of land, situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.: Northerly by the centre line of the block, between One Hundred and Thirty-second street and One Hundred and Thirty-third street; easterly by the westerly line of Seventh avenue; southerly by the centre line of the block, between One Hundred and Thirty-first street and One Hundred and Thirty-second street; and westerly by the easterly line of Eighth avenue, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the 12th day of May, 1893, 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 New York, March 14, 1893.
THOMAS F. DONNELLY,
Chairman,
HERMANN BOLTE,
EMANUEL PERLS, Commissioners.
MATTHEW P. RYAN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf 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 TWO HUNDRED AND FIFTH STREET (although not yet named by proper authority), between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said

Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Wednesday, the 31st day of May, 1893, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue known as Two Hundred and Fifth street, between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York, being the following-described lots, pieces or parcels of land, viz.: Beginning at a point in the easterly line of Tenth avenue, distant 13,101.66 feet northerly from the southerly side of One Hundred and Fifty-fifth street; thence easterly and parallel with said One Hundred and Fifty-fifth street, distance 98.22 feet, to the United States Channel Line, Harlem river; thence northerly along said line, distance 60.40 feet; thence westerly, distance 975.22 feet, to the easterly line of Tenth avenue; thence southerly along said line, distance 60 feet, to the point or place of beginning.

Said street to be 60 feet wide between the lines of Tenth avenue and the United States Channel Line, Harlem river.
Dated New York, May 3, 1893.
WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf 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 SHERMAN AVENUE (although not yet named by proper authority), between Kingsbridge road and Tenth avenue, in the Twelfth Ward of the City of New York.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house, in the City of New York, on Wednesday, the 31st day of May, 1893, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue, known as Sherman avenue, between Kingsbridge road and Tenth avenue, in the Twelfth Ward of the City of New York, being the following-described lots, pieces or parcels of land, viz.:

Beginning at a point in the easterly line of Dyckman street, distant, as measured along the said line of Dyckman street, 690.58 feet southerly from the southerly line of Kingsbridge road; thence northeasterly, distance 2,645.43 feet, to the westerly line of Tenth avenue; thence southerly along said line, distance 173.32 feet; thence southerly, distance 2,502.64 feet, to the easterly line of Dyckman street; thence northerly along said line, distance 100 feet, to the point or place of beginning.

Also, beginning at a point in the westerly line of Dyckman street, distant, as measured along the said line of Dyckman street, 682.52 feet, southerly from the southerly line of Kingsbridge road; thence southerly, distance 938.03 feet; thence in a curved line to the right, radius 50.35 feet, distance 96.80 feet, to the easterly line of the Kingsbridge road; thence southerly along said easterly line of the Kingsbridge road, distance 174.56 feet; thence southerly and still along said easterly line, distance 134.55 feet; thence northeasterly and in a curved line, radius 362.29 feet, distance 252.64 feet; thence northeasterly and tangent thereto, and parallel to the first course above mentioned, distance 939.81 feet, to the westerly line of Dyckman street; thence northerly along said line, distance 700 feet, to the point or place of beginning.

Said Sherman avenue to be 100 feet wide between the lines of Kingsbridge road and Tenth avenue—except at its westerly end where it joins the Kingsbridge road.
Dated New York, May 3, 1893.
WILLIAM H. CLARK,
Counsel to the Corporation,
No. 2 Tryon Row, New York City.

In the matter of the application of the Commissioners of the Department of Public Parks, for and on behalf 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 that part of TREMONT AVENUE (although not yet named by proper authority) extending from Aqueduct avenue to Boston road, in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first class street or road by said Department.

TO THE OWNER OR OWNERS, OCCUPANT OR OCCUPANTS OF PREMISES TO WHICH TITLE IS SOUGHT TO BE ACQUIRED IN THE ABOVE ENTITLED PROCEEDING, AND KNOWN AS DAMAGE MAPS NOS. 1, 7, 93, 94, AND 103 THEREIN, AND TO ANY PERSON OR PERSONS, PARTY OR PARTIES INTERESTED THEREIN.

NOTICE IS HEREBY GIVEN THAT THE awards heretofore made by us in the above entitled proceeding for the parcels known and designated in our abstract and upon our Damage Map, as heretofore filed herein, as Parcel No. 7, the award for which is made to unknown owners; Parcel No. 93, the award for which is made to Tappen & Haskin; Parcel No. 94, the award for which is made to Tappen & Haskin, and Parcel No. 103, the award for which is made to Chas. Kilmer, and for all of which parcels substantial awards were heretofore made, have been reduced by us to the nominal sum of one dollar for each of such parcels, the said property having been, in our opinion, dedicated to public use. Our report and maps showing the parcels mentioned are open to inspection at our office as hereinafter mentioned.

That an opportunity will be afforded any person or persons, party or parties affected by such diminution, to be heard before us in opposition to such reduction, at a meeting to be held at our office, Room 25, No. 200 Broadway, on April 20, 1893, at eleven o'clock A. M.

That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the 12th day of May, 1893, 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 New York, March 2, 1893.
JOHN WHALEN, Chairman,
JOHN HALLORAN,
G. RADFORD KELSO, Commissioners.
CARROLL BERRY, Clerk.

THE CITY RECORD.

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W. J. K. KENNY,
Supervisor.