

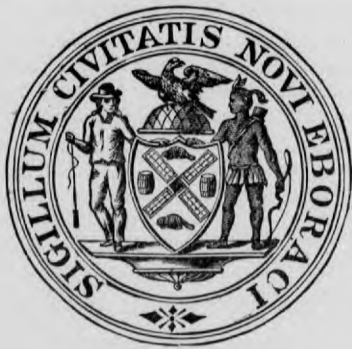
# THE CITY RECORD.

## OFFICIAL JOURNAL.

VOL. XIII.

NEW YORK, THURSDAY, FEBRUARY 26, 1885.

NUMBER 3,575.



### DEPARTMENT OF PUBLIC WORKS.

Report for the Quarter ending December 31, 1884.

DEPARTMENT OF PUBLIC WORKS—COMMISSIONER'S OFFICE,  
No. 31 CHAMBERS STREET,  
NEW YORK, February 5, 1885.

Hon. WM. R. GRACE, Mayor:

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, 1884, and in pursuance of the custom of the Department, I add to the quarterly report a review of its transactions for the past year. My duties as Commissioner of Public Works began at the expiration of the period for which the report is made; it is, therefore, principally a compilation of the reports of the several Bureaus in the Department, with such additional matter as my knowledge and judgment of the public business and interests under its care suggest. I take this opportunity to place on record my obligations to my predecessor, Hon. Hubert O. Thompson, for the valuable advice and information he has given me from his long experience and intimate knowledge of the manifold and important duties and functions devolving upon the Department.

#### SUMMARY OF EXPENDITURES FOR THE QUARTER.

(Being amount of requisitions drawn on the Comptroller.)

On account of appropriations raised by taxation.....	\$1,030,761 63
On account of Assessment Funds, for street improvements.....	270,535 93
On account of Funded Debt, for improvement and extension of water supply.....	198,313 51
On account of Revenue Bonds, in anticipation of collection of charges for water-meters.....	8,168 94
On account of Special Fund for Restoring Pavements over Street Openings.....	7,534 50
Total.....	\$1,515,314 51

#### SUMMARY STATEMENT OF CONTRACTS.

Contracts entered into during the Quarter.

12 paving contracts, estimated cost.....	\$94,044 48
16 sewer contracts, estimated cost.....	82,278 08
15 regulating and grading contracts, estimated cost.....	311,638 37
2 contracts for water-pipes, estimated cost.....	18,914 80
2 gas contracts, estimated cost.....	38,000 00
6 miscellaneous contracts, estimated cost.....	8,627 30
53 contracts, total estimated cost.....	\$553,503 03

Contracts completed during the Quarter.

25 paving contracts, actual cost.....	\$276,186 24
15 sewer contracts, actual cost.....	165,006 32
12 regulating and grading contracts, actual cost.....	145,695 76
2 contracts for Bronx river water supply, actual cost.....	510,091 91
10 miscellaneous contracts, actual cost.....	43,197 75
11 contracts under \$1,000 each, actual cost.....	3,625 39
75 contracts, total cost.....	\$1,143,803 37

#### BUREAU OF CHIEF ENGINEER OF THE CROTON AQUEDUCT.

In consequence of the light rain-fall during the past summer the natural flow of the Croton river was so much reduced that large drafts had to be made on the storage reservoirs and lakes to keep the Aqueduct supplied to its full capacity. This continued until October 30, when the water in Croton Lake again rose to the lip of the dam, and no further drafts upon the stored water had to be made. During the month of October 860,000,000 gallons of water was drawn from the two storage reservoirs and from Lakes Mahopac, Kirk, Gilead, and Gleneida in the Croton water-shed.

The rain-fall for the three months at the several stations where rain-gauges are kept by the Department was as follows:

LOCATION.	OCTOBER INCHES.	NOVEMBER INCHES.	DECEMBER INCHES.	TOTAL INCHES.
Boyd's Corner Reservoir.....	3.74	4.37	7.34	15.45
South East Reservoir.....	3.35	3.86	5.93	13.14
Kensico Reservoir, on Bronx river.....	3.13	3.61	6.55	13.29
Croton Dam.....	2.62	4.03	6.58	13.23
Central Park Reservoir.....	4.12	4.03	6.39	14.54

This large rain-fall rapidly replenished the reservoirs and lakes, so that at the end of the quarter they were filled to high-water mark. The following work was done in improving and strengthening

the present Croton Aqueduct, in addition to the ordinary repairs and maintenance of the structure and its appurtenances:

- 1,320 cubic yards earth excavated.
- 325 cubic yards stone quarried.
- 3,095 cubic yards masonry built.
- 1,800 lineal feet fences built.

In extending and improving the distribution of water in the city, 26,328 lineal feet or nearly five miles of 12-inch and 6-inch pipes were laid, and 110 fire-hydrants and 129 stop-cocks were placed.

At the High Service pumping works at High Bridge and at Ninety-eighth street and Ninth avenue an average of 11,904,000 gallons of water was pumped each day to supply the districts of the city which are above the elevation at which an adequate supply can be furnished by natural pressure from the city reservoirs.

During the quarter 789 additional water-meters were placed in buildings occupied for business purposes.

The Inspectors employed by the Department to detect leaks and waste of water made 3,302 inspections of house drains between the hours of midnight and 6 A. M. to detect places where water is allowed to run from faucets during these hours from pure habit of waste, and found 292 places where the water was running through the drains into the sewers at the rate of from one to five gallons per minute.

The important subject of waste of water, and the measures to check it, is more fully treated in that part of this report which gives a review of the operations of the Department for the year 1884.

As stated in the last quarterly report of my predecessor the work of laying the pipe conduit to bring into the city an additional supply of water from the Bronx river was completed on the 4th of September last, and after the conduit was tested a steady supply was passed through, beginning on the 9th of September, at a rate of about 5,000,000 gallons per day, which was gradually increased to an average of 10,000,000 gallons per day.

The Department took advantage of the heavy rain-falls in the latter part of September and during October to increase the supply from this source to about 14,000,000 gallons per day, in order to fill the city reservoirs which had previously been drawn down by the excess of consumption of water over the quantity which the Aqueduct is capable of supplying; but this was only a temporary expedient, which cannot be used except at times when the rain-fall is considerably above the average. The normal supply which can be relied on from the Bronx river water-shed is about 10,000,000 gallons per day.

Though, as stated, the pipe-conduit was completed last September, considerable work remains to be done on embankments, retaining-walls, fences, roads, etc., to finish the contracts for several sections of the conduit, and for the storage reservoirs at Kensico and at Rye Ponds. The work on the receiving reservoir at Williamsbridge is only fairly begun, and will probably take about two years more for its completion; but this does not prevent the steady receipt of the normal water supply which can be obtained from the Bronx river.

#### BUREAU OF WATER PURVEYOR.

New pavements, to be paid for by assessment on the adjacent property, were laid during the quarter on the following streets:

- Eightieth street, between Madison and Fourth avenues.
- Eighty-first street, between Boulevard and Riverside avenue.
- Eighty-first street, between First avenue and Avenue A.
- Sixty-ninth street, between Ninth and Eleventh avenues.
- One Hundred and Eighth street, between Second and Third avenues.
- One Hundred and Eleventh street, between Seventh avenue and Avenue St. Nicholas.
- One Hundred and Thirty-first street, between Seventh and Eighth avenues.
- The total area of new pavements thus laid is 17,860 square yards.

The following streets were repaved with new stone-block pavements:

- Fifty-seventh street, between Madison and Fourth avenues.
- Division street, between Norfolk and Grand streets.
- Twenty-sixth street, between Sixth and Seventh avenues.
- Allen street, between Grand and Division streets.
- Suffolk street, between Stanton and Houston streets.
- Stanton street, between Columbia and Clinton streets.
- Rivington street, between Clinton street and East river.
- Houston street, between Bowery and Washington street.
- Water street, between Clinton and Corlears streets.
- Ninth street, between Avenues B and D, and between First and Second avenues.
- Twelfth street, between Avenues C and D.
- Bank street, between Bleecker street and Greenwich avenue.
- Sixth street, between Avenue B and Lewis street.
- Twentieth street, between Seventh and Ninth avenues.
- Thirty-second street, between Ninth and Eleventh avenues.
- Forty-first street, between Second and Third avenues.
- Forty-ninth street, between Eighth and Ninth avenues, and between Tenth and Eleventh avenues.

Fifth avenue, between Thirty-third and Thirty-seventh streets.

Total area of repavements for the quarter, 86,056 square yards.

The general repairs of pavements were continued with an average force of 477 pavers, rammers and laborers, and 95 carts, until December 9, when the severity of the weather and the condition of the appropriation made it necessary to suspend the work. A small force, however, is employed during the winter season to attend to repairs of places in the streets which are dangerous, and require immediate attention.

In the repairs of water-pipes, stop-cocks and fire-hydrants, under the direction of the Water Purveyor, an average force of 85 mechanics and laborers, and 9 carts, was employed. The work of this force for the quarter includes the following items:

- 490 repairs of defects in pipes and stop-cocks.
- 806 repairs to fire-hydrants.
- 337 repairs of defects in pavements.
- 88 new fire-hydrants placed.
- 158 water-taps shut off on account of leaks.

#### BUREAU OF SEWERS.

During the quarter fifteen contracts for the construction of sewers and sewer-basins were completed, and sixteen new contracts were made.

One and fifty-three-one-hundredths miles of sewer and culverts and thirteen receiving-basins were built.

The work done in repairing and cleaning sewers and basins embraces the following items:

- 975 lineal feet of sewers rebuilt.
- 85 lineal feet of sewers repaired.

- 120 lineal feet of culverts rebuilt.
- 78 lineal feet of spur-pipe laid.
- 104 lineal feet of dry stone wall built.
- 55 lineal feet of cement wall built.
- 1 receiving-basin rebuilt.
- 75 receiving-basins repaired.
- 32 new granite basin-heads furnished and set.
- 19 basin-heads reset.
- 5 new manholes built.
- 3 manholes rebuilt.
- 263 manholes repaired.
- 215 new manhole heads placed.
- 43 new basin covers and 260 new manhole covers placed.
- 555 receiving-basins cleaned.
- 17,470 lineal feet of sewers cleaned.
- 2,166 cart-loads of sewer deposits removed.

## BUREAU OF STREET IMPROVEMENTS.

Thirty-two separate works and contracts were in progress during the quarter under the charge of this Bureau, on regulating and grading new streets, flagging sidewalks and setting curb-stones. Twelve contracts were completed and fifteen new contracts were made.

The following are the aggregate quantities of work done :

- 51,622 cubic yards earth excavation.
- 62,451 cubic yards rock excavation.
- 160,349 cubic yards filling placed in embankments.
- 24,730 lineal feet curb-stones set.
- 103,014 square feet flagging laid.
- 1,057 lineal feet stone culverts built.
- 2,049 lineal feet picket-fence built.
- 240 shade trees planted.
- 2,800 cubic yards soil placed for shade trees.

In the work of repairing sidewalks in front of city property, which is also under the charge of this Bureau, 2,505 square feet of new flagging were laid and 1,968 square feet of flagging relaid.

## BUREAU OF STREETS AND ROADS.

This Bureau has charge of the maintenance and repairs of the macadam roadways, improved streets and country roadways in the upper part of the city.

Repairs were made on sixty-six different streets, avenues and roads, on which the following materials were used :

- 515 cubic yards gravel and sand.
- 291 cubic yards of broken stone.
- 3,461 cubic yards earth and loam.

As the Department of Street Cleaning does its work only on stone pavements, the cleaning of the macadam roadways and the removal of refuse material from country roads and unpaved streets are also a charge upon this Department. In this work 1,387 cart-loads of dirt and other refuse were removed.

## BUREAU OF LAMPS AND GAS.

At the beginning of the quarter 22,707 gas-lamps and 647 electric-lights were in use in the streets, avenues and parks of the city.

During the three months 217 new gas-lamps were placed and lighted and 71 old gas-lamps were discontinued, making a net increase of 146 in the number of public lamps.

## BUREAU OF REPAIRS AND SUPPLIES.

The principal items of repairs, alterations and improvements in the public buildings under the charge of the Department and furnishing supplies to public offices and courts are as follows :

*County Court-house.*

Repairing steam pumps and boilers, laying new carpets and linoleum in several court-rooms, altering and fitting-up the room recently occupied by the City Chamberlain for the use of the Supreme Court, furnishing chairs, desks, window-shades and other various articles in several of the court-rooms and offices in the building.

*City Hall.*

The system of heating this building was changed during the last quarter by the introduction of steam furnished by the New York Steam Company, and placing the necessary pipes, radiators and fixtures for steam-heating ; carpets, desks, chairs and other office furniture were supplied for several rooms occupied by the City Court and the Board of Aldermen.

*Brown-Stone Court-house.*

Repairing steam-boilers, pumps and heating apparatus, furnishing window-shades, new stoves, iron railing, etc.

*Armories.*

In the Ninth Regiment Armory the steam-boiler and furnace were repaired. In the Sixty-ninth Regiment Armory one of the company rooms has been repaired and painted. New stoves and other furniture were supplied in several armories.

*Public Markets.*

Repairing and painting doors and window-sash in Union Market, placing new flooring in Catharine Market, repairing and painting in basement of Tompkins Market, and making new sewer connection ; laying 4,000 square feet of new planking on Vesey street pier, West Washington Market. The new Washington Market was completed and ready for occupancy about the 20th of December.

*Police and Civil Court Buildings.*

Repairing and painting the roof of the Fifth District Civil Court building, repairing steam-boiler and grates in Seventh District Court-house, furnishing various office supplies to the several courts.

The extensive alterations and improvements in the Essex Market Police Court building, to provide better light, ventilation and sanitary arrangements, have been finished.

*Public Baths.*

The eleven public baths were towed from their several stations to the winter quarters in Gowanus Bay, and the necessary repairs, which are made each year, while the baths are not in use, have been commenced.

## BUREAU OF INCUMBRANCES.

The business of this Bureau for the quarter is summarized as follows :

- 476 complaints of obstructions received and attended to.
- 215 seizures of obstructions made and the articles removed to the Corporation Yard.
- 1,658 cart-loads of dirt, stone and other refuse material removed from the streets.
- 333 decayed and dangerous shade trees removed.
- 1,169 permits issued to place building material on streets.
- 15 permits issued to cut down shade trees.
- 102 miscellaneous permits issued.
- 295 notices issued to repair defective sidewalks.
- 6 notices issued to repair defective vault covers.

The Bureau collected \$256.99 for redemption of articles removed to the Corporation Yard, and \$776.75 from the sale by auction of such articles.

## BUREAU OF WATER REGISTER.

The following is the amount of revenue from the water service, collected and paid into the City Treasury during the quarter :

For water rents.....	\$281,993 43
For penalties on water rents.....	8,736 55
For permits to tap water-pipes.....	2,431 50
<b>Total.....</b>	<b>\$293,161 48</b>

*Miscellaneous Revenue.*

The following amounts were collected from various sources :

For vault permits.....	\$13,406 68
For sewer permits.....	6,717 40
For restoration of pavements over street openings.....	7,190 00
For expenses of furnishing and setting water-meters.....	4,686 79
For articles sold at Corporation Yard.....	821 55
For redemption of articles siezed as obstructions.....	256 99
For work and material furnished to citizens.....	236 94
<b>Total.....</b>	<b>\$33,316 35</b>

## REVIEW OF THE OPERATIONS OF THE DEPARTMENT FOR THE YEAR 1884.

## SUMMARY OF EXPENDITURES.

On appropriation account for 1884.....	\$2,469,746 30
On Assessment Fund.....	956,823 91
On Funded Debt Account.....	918,610 31
On Revenue Bonds, for water-meters.....	30,679 77
On Special Fund for Restoring Pavements over Street Openings.....	22,596 00
Estimated liabilities, including all outstanding accounts against appropriations for 1884.....	245,090 00
<b>Total.....</b>	<b>\$4,643,546 29</b>

*Expenditures for the past Fourteen Years.*

For the year 1871.....	\$8,727,085 97
" 1872.....	5,826,113 67
" 1873.....	7,754,454 88
" 1874.....	7,534,590 22
" 1875.....	5,929,814 49
" 1876.....	4,374,860 73
" 1877.....	3,113,789 43
" 1878.....	2,835,068 23
" 1879.....	2,347,577 64
" 1880.....	3,028,848 39
" 1881.....	3,647,947 11
" 1882.....	5,014,999 91
" 1883.....	4,725,143 90
" 1884 (as above).....	4,644,997 37

*Recapitulation of Expenditures for the past Seven Years, on Moneys raised by Direct Taxation, by the Issue of Bonds, and from Special Funds.*

YEAR.	From Assessment Fund for New Improvements paid Entirely by Property immediately benefited by the Works.	From Long Bonds for Additional Water Supply.	From Special Funds for Water-meters and for Restoring Pavements for which the City is Reimbursed.	From Annual Appropriations made by the Board of Estimate and Apportionment.	TOTALS.
1878.....	\$626,514 14	\$600,027 75	\$6,754 15	\$1,601,772 69	\$2,835,068 23
1879.....	364,559 25	296,011 58	4,699 04	1,682,307 77	2,347,577 64
1880.....	461,568 83	484,672 82	35,243 93	2,047,362 81	3,028,848 39
1881.....	628,201 23	481,261 65	72,354 07	2,466,130 16	3,647,947 11
1882.....	1,404,512 65	999,998 30	38,107 49	2,572,381 47	5,014,999 91
1883.....	1,115,874 54	969,994 10	50,152 77	2,589,122 49	4,725,143 90
1884.....	956,823 91	918,610 31	53,275 77	2,714,836 30	4,643,546 29

The expenditure of moneys from direct taxation are regulated by the appropriations made by the Board of Estimate and Apportionment, and the expenditures from Assessment Bonds are increased or diminished according to the number and extent of improvements ordered by the Common Council and the need of extending the sewerage system into new territory. The expenditures on account of bonds for additional water supply have for the past three years been larger than in the preceding years on account of the works built and property acquired for the Bronx river water supply.

## SUMMARY STATEMENT OF CONTRACTS FOR 1884.

*Contracts Entered Into.*

43 paving contracts, estimated cost.....	\$419,861 95
44 sewer contracts, estimated cost.....	248,777 03
30 regulating and grading contracts, estimated cost.....	637,080 14
10 gas and electric light contracts, estimated cost.....	644,300 00
50 miscellaneous contracts, estimated cost.....	893,432 16
<b>177 contracts, total estimated cost.....</b>	<b>\$2,843,451 28</b>

*Contracts Completed.*

40 paving contracts, actual cost.....	\$497,198 24
46 sewer contracts, actual cost.....	475,982 06
34 regulating and grading contracts, actual cost.....	662,084 54
10 gas and electric light contracts, actual cost.....	526,335 00
44 miscellaneous contracts, actual cost.....	846,582 03
<b>174 contracts, total cost.....</b>	<b>\$3,008,181 87</b>

## THE WATER SUPPLY.

*Source of Supply.*

The rain-fall for the year at the stations where the Department keeps rain-gauges and records was as follows :

	Inches.
At Boyd's Corner Reservoir, Croton water-shed.....	53.71
At South East Reservoir, Croton water-shed.....	50.15
At Croton Dam, Croton water-shed.....	59.94
At Kensico Reservoir, on Bronx river.....	52.56
At Central Park Reservoir.....	50.96

The records of the rain-fall at Boyd's Corner Reservoir, in Putnam County, extend back to the year 1866, and show that during that time the rain-fall of last year was exceeded only in 1878 and 1882. Notwithstanding this large quantity of rain for the whole year, there were several protracted periods of extremely dry weather, when the natural flow of the Croton river fell far below the quantity required to keep the Aqueduct supplied to its full capacity, and it became necessary to draw water from the storage reservoirs and lakes to supply the deficiency. The total quantity of water so drawn is 2,040,000,000 gallons, of which 1,590,000,000 gallons were furnished by the two reservoirs, or artificial lakes, and 450,000,000 gallons by Lakes Mahopac, Kirk, Gilead and Gleneida. All the reservoirs and lakes are now full.

#### The Croton Aqueduct.

Small fissures in the Aqueduct structure continue to be discovered, not only on those portions of it which are built on embankments above the natural surface of the ground, but also where it is in excavation and supported on the bottom and sides by the natural soil. This shows that the work of strengthening and improving the conduit, which has been in progress since 1877, must be extended further than merely to the parts on embankments, as was thought and stated in the Department reports when the work was begun, and for several years later. The leakage through fissures is now inconsiderable in proportion to the quantity of water passed through the Aqueduct, but where they appear they show the necessity of prompt action to strengthen the structure and its supports. It is to be regretted that sufficient funds were not appropriated for 1884 and for 1885 to pursue this work more rapidly than can now be done. No means should be withheld which are necessary to make every portion of the Aqueduct so absolutely safe that there could be no fissures, however small, with the accompanying risk of larger breaks.

#### The Bronx River Works.

As stated in the preceding part of this report, the city is receiving an additional water supply through the pipe conduit from the Bronx river, the average quantity of water passed through the conduit being about 10,000,000 gallons per day. Small as this quantity is in comparison with the entire supply now consumed or needed, in view of the probability that four or five years will elapse before a larger addition can be received through a new aqueduct, it is a most valuable acquisition.

The following are the principal items of work done during the year on the several contracts for the construction of the conduit and the reservoirs connected with it:

- 16,539 cubic yards rock excavated.
- 42,062 cubic yards earth excavated.
- 164,038 cubic yards embankment built.
- 3,941 tons of iron pipe delivered.
- 18,509 lineal feet of pipe laid.
- 7,355 cubic yards masonry built.
- 18,889 cubic yards dry stone wall built.
- 4,795 lineal feet fence walls built.
- 3,500 square yards of embankment sodded.
- 168,751 feet B. M. timber furnished.
- 13,377 pounds wrought iron furnished.

The expenditure for the construction for the year 1884 is—

For labor and materials .....	\$438,126 59
For lands, water rights and legal expenses .....	178,968 15
For engineering and inspection .....	53,000 00
Total .....	\$670,094 74

The expenditure from commencement of work in 1880 to December 31, 1884, is—

For labor and materials .....	\$2,051,027 34
For lands, water rights and legal expenses .....	564,136 15
For engineering and inspection .....	188,200 00
Total .....	\$2,803,363 49

The question of damages to be paid to owners of lands along the Bronx river, for diverting the water from its natural channel, is still in abeyance. The Commission appointed to appraise such damages from Kensico to White Plains is about to make its report to the court. Another Commission has recently been appointed to appraise the damages from White Plains to Bronxville. The Counsel to the Corporation and a party of Engineers of this Department are now engaged in surveys, searches of titles, and estimates of damages from Bronxville to Long Island Sound, to be submitted to a Commission of Appraisal.

The project of the Bronx river works, as devised by Commissioner Allan Campbell, and so far carried out, includes the necessary works to collect the water of the Byram river in a storage reservoir, and conduct it into the Bronx river, and thence through the conduit already built to this city. The supply to be obtained from the Byram river is estimated at 7,500,000 gallons per day, and the works already built are of a capacity to embrace this additional supply. The course of the river, except near its mouth, is in the State of Connecticut; the necessary lands and water rights can therefore not be acquired by this city by legal process of expropriation, but must be acquired by mutual agreement and purchase. The surveys and searches of title for that purpose are nearly completed. As the full benefit of the present works, and of the expenditure for them, will only be derived when the Byram river water is added to them, the measures to acquire lands and water rights and to settle damages should be vigorously pursued.

#### Distribution of Water.

In extending the water service into fifty-three new streets, or parts of streets, 75,957 lineal feet (14 $\frac{1}{10}$  miles) of 12-inch and 6-inch pipes were laid, with 248 fire-hydrants and 270 stop-cocks.

The distributing system now includes 562 $\frac{1}{10}$  miles of pipes, with 5,960 stop-cocks, and 7,400 fire-hydrants.

The pumping engines at the High Service Works at High Bridge and at Ninety-eighth street and Ninth avenue performed their work satisfactorily and without interruption during the year.

As directed by chapter 415, Laws of 1883, the work of restoring the connections of the Forty-second Street Reservoir with the distributing mains has been done, and the circulation of water through the reservoir is now the same as prior to the removal of the connections in 1880.

#### Consumption and Waste of Water.

The measures adopted by the Department to detect and check waste of water were pursued to the fullest extent of which the means appropriated for the purpose would admit.

The Waste Inspectors made 192,277 house inspections, detecting 5,944 places where water was wasted in consequence of defective plumbing, and 272 places where it was wasted by keeping faucets open. They also made 9,275 night examinations of house-drains to find places where water is allowed to run at night; 940 such places were found, the flow of water through the house-drains into the sewers being at the rate of from one to five gallons per minute. In any one of these cases more water is wasted than would supply the legitimate needs of a dozen large families.

While the measures and efforts of the Department for several years past have undoubtedly resulted in great improvement in respect to the general waste of water, there is one old habit which it seems impossible to check with the present means and authority, viz.: that of letting the water run from faucets day and night in cold weather to prevent freezing in the pipes. The enormous extent of this waste is shown by the fact that on one single cold day, December 20, the water in the Central Park Reservoir was drawn down five inches, showing a waste of 13,000,000 gallons on that day over the usual consumption and over the supply received through the Aqueduct.

Additional water-meters, the most effective instrument for stopping waste, were placed as rapidly as practicable during the year. The number placed is 2,613, making 11,625 meters in use on December 31.

The quantity of water supplied through 10,905 meters, on which one or more readings have been taken, is shown by the following table:

	No. of Meters.	Gallons per diem.
Hotels .....	343	1,706,100
Breweries, bottlers, etc. ....	318	1,583,600
Charitable institutions .....	97	411,000
Office buildings .....	1,785	1,670,000
Factories .....	671	1,916,400
Gas-works .....	38	824,400
Railroads .....	198	1,230,000
Stables .....	1,575	1,098,600
Apartment-houses .....	117	255,000
Docks .....	111	1,415,300
Miscellaneous .....	5,652	7,896,200
Totals .....	10,905	20,006,600

The revenue from water supplied through meters during the year is \$680,060.98.

By a decision or judgment of the Court of Appeals, the city has become the owner of 10,000 "Navarro" water-meters, ordered by the Department under the administration of Commissioner William M. Tweed, but rejected by his successors on the ground that the price agreed to be paid for them was exorbitant; 4,050 of them have been tested and regulated to measure the water passing through them accurately, but all these meters have been stored for so long a time (about fourteen years) that they will require certain necessary repairs before they can be used. It is suggested by the Chief Engineer of the Croton Aqueduct that these meters be placed on houses used exclusively as dwellings, where, under the law, meters cannot be placed at the expense of the owners, and where waste of water is known or believed to exist; and he thinks that the cost of the meters, putting them in order and setting them would be returned to the city in one year by increased revenue for water measured by them.

#### STREET PAVEMENTS.

The first pavement, payable by assessment on adjoining property, was laid on nine streets or parts of streets, covering an area of 54,979 square yards, and an aggregate length of 2 $\frac{3}{10}$  miles.

The repavement work for the year, payable from annual appropriation and general taxation, includes the laying of 146,618 square yards of new stone-block pavements in place of cobble pavement and worn out Belgian pavements on 43 different streets, of an aggregate length of 8 $\frac{7}{10}$  miles.

The present area and length of paved streets under the care of this Department, exclusive of the streets north of Harlem river, which are under the care of the Department of Public Parks, is as follows:

Granite-block pavement .....	62.53 miles.	} 5,000,000 square yards.
Trap-block pavement .....	232 "	
Cobble pavement .....	37.84 "	
Macadam pavement .....	27.60 "	
Asphaltum pavement .....	.62 "	
Totals .....	360.59 "	7,422,400 "

The general repairs of pavements for the year cover an area of about 290,000 square yards repaired or entirely relaid, distributed over the 332 miles of stone pavements in the city, as shown in detail in the report of the Water Purveyor, hereto annexed.

By reference to previous reports of the Department I find that the difficulties of keeping street pavements in proper condition, which arise from the frequent excavations in streets by private corporations, have been repeatedly and forcibly presented. In the proportion that the operations and structures of the gas companies, steam companies, electric-light companies, telegraph and telephone companies, railroad companies, etc., in and under the streets are extended from time to time these difficulties and the defects in pavements which they cause are increased.

The extent of these operations for the year is as follows:

- 65 $\frac{3}{4}$  miles of gas-mains laid.
- 13 $\frac{1}{10}$  miles of double railways built.
- 3 $\frac{1}{10}$  miles of underground telegraph and telephone wires and tubes laid.
- 1,068 lineal feet of steam-pipes laid.
- 6,448 lineal feet of pipes laid for using salt water.

In addition to these main lines of pipes, tubes, wires, etc., the several companies made 12,231 excavations in the streets to connect their lines with the houses of their customers and to repair such connections.

The Department last year adopted the measure of compelling the several companies as a partial return for the valuable privileges granted them in using the public streets for their benefit to pay for the services of Inspectors employed by the Department to see that the work in the streets is carried on with as little inconvenience as possible to public travel and to public and private interests generally, and that the pavements are restored in a proper manner. Other Inspectors, paid by the city, have also been employed in the general supervision of these works. The beneficial results of this system of inspection are already quite apparent, though it has only been in full operation less than a year. It will prove to be of great value in the improvement of the condition of the pavements and in saving the city the expense of repairing many defects in the streets for which the respective companies and individuals are responsible.

#### SEWERAGE AND DRAINAGE.

The construction of new sewers and receiving-basins during the year was carried on under sixty-one separate contracts, sixteen of which were entered into in the course of the year, and forty-six were completed, leaving sixteen contracts uncompleted at the close of the year.

The aggregate length of new sewers built under the several contracts is 4 $\frac{8}{10}$  miles, with 46 receiving-basins.

The sewerage and drainage north of the Harlem river, in the Twenty-third and Twenty-fourth Wards, is under the control of the Department of Public Parks. The sewerage system south of the Harlem river, under the charge of this Department, on December 31, 1884, included 411 $\frac{1}{10}$  miles of sewers and culverts, and 5,010 receiving-basins.

The Counsel to the Corporation has advised the Department that, under the amendment of the State Constitution which was adopted at the last election, limiting the city debt to ten per centum of the assessed valuation of the taxable property, and prohibiting the issue of any city bonds in excess of that limit, no further Assessment Bonds can be issued to pay for the construction of new sewers, pavements, or other street improvements, though the city is reimbursed for such expenditure by assessment on the property benefited by the improvements.

While this amendment is no doubt very proper and beneficial in a general sense, it operates injuriously in stopping all street improvements except those which had been put under contract prior to the time when the advice referred to was received. If owners of vacant lots now desire to have streets graded, paved or sewered, to make their property available for occupancy, the work cannot be done until the prohibition against the further issue of Assessment Bonds is removed. If it cannot be removed in some other way than the natural and gradual reduction of the city debt, it will be impossible to make any street improvements for a number of years. This will necessarily prevent the erection of many houses which would otherwise be built, retard the progress and growth of the city in that respect, and leave many hands idle which have been and would hereafter be employed on street improvements and in building operations.

In the case of sewers there is still another objection to the effect of the constitutional amendment. The continuous and gradual extension of the sewerage system is necessary, not only for local benefit and for the drainage of buildings already erected, or to be erected, but also as a general sanitary measure for the protection of the public health. For the reasons above stated, it is to be hoped that the prohibition against the issue of Assessment Bonds to pay for necessary street improvements will be speedily removed.

The report of the Engineer in Charge of Sewers, which is appended to this report, gives a list of 36 sewer works for which the plans and the forms of contracts and specifications have already been prepared, and which, in the interest of the public and of property-owners should be carried out without delay.

The work of repairing defects in the sewers and improving the old sewers in the lower part of the city, which were built before the adoption of a comprehensive sewerage system, under an act of the Legislature passed in 1865, has been carried on with all the vigor consistent with the amount appropriated.

The following are the principal items of this work for the year:

- 1,810 lineal feet of sewers rebuilt.
- 843 lineal feet of sewers repaired.
- 438 lineal feet of culverts rebuilt.
- 417 lineal feet of spur-pipe laid.
- 104 lineal feet dry stone wall built.
- 55 lineal feet retaining-wall built.
- 209 receiving-basins repaired.
- 1 receiving-basin rebuilt.
- 41 new granite basin-heads furnished and set.
- 50 basin-heads reset.
- 13 new manholes built.
- 3 manholes rebuilt.
- 732 manholes repaired.
- 643 new manhole covers placed.
- 463 new iron manhole heads and frames set.

In the cleaning of about twelve miles of sewers and 2,380 receiving-basins, 8,206 cart-loads of deposit were removed.

The sewers, where properly constructed, are self-cleansing, except in very dry weather and where the Croton water is used sparingly, so that there is not sufficient flow of liquid matter in the sewers to dissolve or carry off the solid matter.

To provide proper ventilation of the sewers, perforated manhole covers are placed on all new sewers, and on the old sewers new covers are substituted for the old ones as rapidly as the repair appropriation will permit.

The offense of discharging steam and hot water into sewers, which produces noxious and deleterious odors and gases, and which is prohibited by ordinance, under a penalty of \$50, has been much lessened by frequent inspection of places where it has heretofore been committed.

#### REGULATING AND GRADING STREETS AND OTHER STREET IMPROVEMENTS.

The following are the more important regulating and grading works finished during the year:

- Ninth avenue, between One Hundred and Fifty-first and One Hundred and Fifty-fifth streets.
- Fifty-third street, between Tenth and Eleventh avenues.
- Eighty-fifth street, between Tenth avenue and Riverside Drive.
- Ninety-eighth, Ninety-ninth, One Hundredth, and One Hundred and First streets, between Fourth and Fifth avenues.
- One Hundredth street, between Third and Fourth avenues.
- One Hundred and Eleventh street, between Sixth and Eighth avenues.
- One Hundred and Twelfth street, between Madison and Sixth avenues.
- One Hundred and Seventeenth street, between Fourth and Fifth avenues.
- One Hundred and Twenty-second street, between Fourth and Madison avenues.
- One Hundred and Thirty-seventh street, between Fifth and Seventh avenues.
- One Hundred and Thirty-eighth street, between Sixth and Eighth avenues.
- One Hundred and Forty-first street, between St. Nicholas and Tenth avenues.
- One Hundred and Forty-fourth street, between Seventh and New avenues.
- One Hundred and Sixty-fifth street, between Tenth and Eleventh avenues.

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

- 105,269 cubic yards earth excavation.
- 162,771 cubic yards rock excavation.
- 333,041 cubic yards filling placed in embankments.
- 59,097 lineal feet curb-stones set.
- 237,782 square feet flagging laid.
- 1,230 lineal feet culverts built.
- 2,146 cubic yards retaining-walls built.
- 2,382 lineal feet picket fence built.
- 640 shade trees planted.
- 2,800 cubic yards soil placed for shade trees.
- 22,400 square yards Macadam pavement laid.

The largest grading works now in progress are:

Kingsbridge road, from One Hundred and Fifty-fifth street to One Hundred and Ninetieth street—This will probably be finished next autumn.

Fourth avenue, from Ninety-seventh street to One Hundred and Second street—This will be finished next summer.

Eleventh avenue, from Kingsbridge road to Dyckman street—This will probably be finished late next summer.

Morningside avenue, West—This also includes the planting of shade trees and paving the roadway with Macadam pavement; this will be finished early in the summer.

Seventy-fourth street, from Eighth avenue to Riverside Drive—This work requires deep rock excavation and will be finished in the spring.

For details as to the other works in progress I beg to refer to the report of the Superintendent of Street Improvements, hereto appended.

#### Macadam Roadways.

By reference to previous reports of the Department, I find that for several years past the Board of Estimate and Apportionment made the appropriation for the maintenance and repairs of the Macadam roadways considerably less than the amounts estimated by the Department to be necessary, and that for want of sufficient funds some of these roads could not be kept in proper condition. In his last departmental estimate, for the appropriations of 1885, my predecessor forcibly set forth this fact, referring especially to the roadways of Fifth avenue, from Fifty-ninth street to Eighty-sixth street, and the Western Boulevard, below Seventy-ninth street. These roadways had been much cut up by heavy business traffic, and an allowance was asked for in the appropriation of \$15,000 for rebuilding the superstructure of broken stone and gravel on Fifth avenue and \$28,000 for the same work on the Boulevard, making the whole appropriation \$133,000. The Board allowed only \$77,000 for the appropriation. It is evident, therefore, that these and other necessary repairs cannot be done this year. In the case of Fifth avenue, the necessity of the repairs is in part obviated by the appropriation of \$50,000, for laying a new pavement on the avenue north of Fifty-ninth street, but that amount is far from sufficient to pay for a new pavement from Fifty-ninth street to Eighty-sixth street.

The Macadam roadways now under the care of the Department are 27 $\frac{1}{10}$  miles in length and cover an area of 958,600 square yards.

The repairs of the country roadways and unpaved streets in the upper part of the city have received proper attention throughout the year.

#### Laying-out, Opening and Closing Streets.

The Department made the surveys and prepared the maps for proceedings to lay-out, open or close streets and parks, as follows:

- Laying-out One Hundred and Twenty-seventh and One Hundred and Twenty-eighth streets, between St. Nicholas and Convent avenues.
- Laying-out One Hundred and Twenty-ninth and One Hundred and Thirtieth streets, between Academy place and Convent avenue.
- Laying-out One Hundred and Thirty-first and One Hundred and Thirty-third streets, between Tenth and Convent avenues.
- Laying-out Convent avenue, between One Hundred and Twenty-sixth and One Hundred and Thirty-seventh streets.
- Laying-out Cliff avenue, between One Hundred and Thirtieth street and Hamlin avenue.
- Laying-out Academy place, between One Hundred and Twenty-eighth and One Hundred and Thirtieth street.
- Laying-out extension of Washington street, from Little West Twelfth street to Fourteenth street.
- Laying-out Jeannette Park, in Coenties Slip.
- Laying-out public park in the Seventh Ward, fronting on the East river, between Jackson and Corlears streets.
- Laying-out public place on the Boulevard, Seventy-second and Seventy-third streets.
- Closing One Hundred and Thirty-seventh street, from Avenue St. Nicholas to a point 860 feet west of Tenth avenue.
- Closing One Hundred and Fifty-fourth street, between Avenue St. Nicholas and St. Nicholas place.
- Opening Ninety-fourth street, between Second and Third avenues.
- Opening One Hundred and Forty-sixth street, between Avenue St. Nicholas and Tenth avenue.
- Opening One Hundred and Fourth street, between the Boulevard and Riverside Drive.
- Opening One Hundred and Fifth street, between the Boulevard and Riverside Drive.
- Opening Ninety-eighth street, between the Boulevard and Riverside Drive.
- Opening One Hundred and Seventh street, between Eighth avenue and Riverside Drive.
- Opening One Hundred and Eighth street, between Eighth avenue and Riverside Drive.
- Opening One Hundred and Sixth street, between the Boulevard and Riverside Drive.
- Opening One Hundred and Forty-ninth street, between Seventh and Eighth avenues.

#### LIGHTING THE CITY.

The report of the Superintendent of Lamps and Gas shows the names of the new streets, having an aggregate length of 8 $\frac{1}{4}$  miles, on which public gas-lamps were erected and lighted during the year, and also the names of the streets and places to which the electric-light has been extended.

The number of gas-lamps so erected and lighted is 665, and of electric-lights 519. As the 519 electric-lights displace about 2,420 gas-lamps, the aggregate number of lamps is diminished. The total number of gas-lamps in use on December 31, 1884, was 22,923, and electric-lights 647, lighting 443 miles of streets, nearly 2 miles of piers, 1 $\frac{1}{2}$  miles of bridges, 61 acres of parks and 3 $\frac{1}{4}$  acres of public market-places.

There are now under the streets of the city 960 miles of gas-mains.

The franchise of the Equitable Gas Light Company requires it to pay to the city 20 cents for every lineal foot of gas-mains laid in the streets.

The amount thus paid into the City Treasury on the certificates of this Department as to the length of mains laid to December 31, 1884, is \$47,463.27.

#### PUBLIC BUILDINGS.

The many items of repairs made during the year on the forty-six buildings under the charge of the Department are stated in the several quarterly reports.

The more extensive works on buildings for the year are as follows:

The westerly portion of the new Washington Market building was erected during the year and was finished in December, thus completing the entire structure. It is a substantial edifice, creditable in appearance, and suitable for the business transacted in it. The entire cost of the building, which occupies the whole block bounded by Washington, Vesey, Fulton and West streets, is \$277,380.85.

The Essex Market building was being repaired early in the year, when, in the progress of the repairs, it was discovered that the foundation in some places had rotted away in consequence of being constantly saturated with filthy matter from the market, for which there was no proper drainage. As the upper part of the building is used as an armory by the Eleventh Regiment of the National Guard, and large bodies of men drill there, which is a severe strain on any building, there was imminent danger that it would fall, and in such case many lives would probably have been lost. The commander of the regiment was at once notified to stop all drills until the building should be rendered secure by putting in new foundation and providing proper drainage. This was done as speedily as possible, and the building is now safe and has the necessary sanitary arrangements.

The Essex Market Court-house and Prison building has been almost entirely reconstructed, and now has improved accommodations, light, ventilation and drainage.

Around Fulton and Jefferson Markets, iron awnings have been placed, which are ornamental in appearance, are no obstruction in any respect, and shelter the sidewalks, as well as the lower parts of the buildings, from sun and rain.

Extensive alterations and improvements have been made in that part of the New Court-house which is occupied by the Court of Common Pleas.

Other alterations and improvements were begun, and are now in progress, in the portion of the building lately vacated by the Finance Department and to be occupied by the Supreme Court.

#### PUBLIC BATHS.

The eleven baths now owned by the city were in use from June 1 to September 30, after which they were towed to their winter quarters in Gowanus Bay.

The attendance for the season was as follows:

LOCATION OF BATH.	MALES.	FEMALES.	TOTAL.
Gouverneur street, East river.....	283,206	131,796	415,002
Fifth street, East river.....	306,426	129,262	435,688
Nineteenth street, East river.....	255,012	128,905	383,917
Thirty-seventh street, East river.....	230,100	110,145	340,245
One Hundred and Twelfth street, Harlem river.....	141,694	56,206	197,900
Morrisania Dock, Harlem river.....	76,095	24,748	100,843
Battery, North river.....	266,274	142,849	409,123
Duane street, North river.....	116,106	54,949	171,055
Horatio street, North river.....	219,304	77,862	297,167
Twenty-seventh street, North river.....	140,162	46,766	186,928
Fifty-first street, North river.....	147,695	79,222	226,917
Totals.....	2,182,074	982,711	3,164,785

## STREET OBSTRUCTIONS.

The work of the Bureau of Incumbrances for the year is shown in the following items:

- 2,398 complaints of obstructions received and attended to.
- 958 seizures of obstructions made, and the articles removed to the Corporation Yard.
- 2,828 cart-loads of stone, dirt, and other refuse removed from the streets.
- 456 dangerous shade trees removed.
- 6,359 permits issued to builders to place building material on streets.
- 85 permits issued to cut down shade trees.
- 605 miscellaneous permits issued.
- 768 notices issued to repair defective sidewalks.
- 22 notices issued to repair defective vault covers.

The Department is frequently called upon to remove hundreds of cart-loads of dirt, which have been deposited on the public streets by unknown parties, in violation of city ordinances.

The Department, with an annual appropriation of only \$10,000 for the salaries of three or four Inspectors, and for the cost of removal of obstructions on over 400 miles of streets, should not be held responsible for these violations of ordinances, and for the removal of thousands of cart-loads of abandoned material.

The prevention of the offenses and the detection of the offenders, are certainly beyond the power of the Department, and could only be effected by the police force, as they would require constant patrolling of the streets. The removal of the material is so heavy a charge on the appropriation that it seriously impairs the efficiency of the Bureau of Incumbrances in other necessary directions. On the 10th instant a letter was addressed to the President of the Police Department on the subject, requesting more effective action on the part of the police force to suppress this evil.

## REVENUE.

The Department collected and paid into the City Treasury during the year:

For regular water rates and penalties.....	\$1,367,175 20
For water measured by meter.....	583,140 62
For water for building purposes.....	24,820 00
For permits to tap water pipes.....	10,193 50
Total collections of water revenue.....	\$1,985,329 32

For vault permits.....	\$64,294 36
For sewer permits.....	24,839 85
For restoring pavements.....	29,421 00
For water-meters.....	21,601 26
For material sold at auction.....	1,407 25
For redemption of street obstructions.....	1,096 05
For work and materials furnished to citizens.....	403 61

Total revenue collected..... \$2,128,392 70

The increase in the collections of water revenue over the collections for 1883 is....	\$115,810 36
And in total revenue.....	99,056 96

Hereunto appended are the following documents, to which I beg to refer you for more detailed information:

- Document A—Statement of appropriations and expenditures.
- Document B—Detailed statement of expenditures.
- Document C—Statement of contracts made and contracts completed.
- Document D—Report of the Chief Engineer Croton Aqueduct.
- Document E—Report of the Water Purveyor.
- Document F—Report of the Engineer in Charge of Sewers.
- Document G—Report of the Superintendent of Street Improvements.
- Document H—Report of the Superintendent of Streets.
- Document I—Report of the Superintendent of Lamps and Gas.
- Document K—Report of the Superintendent of Repairs and Supplies.
- Document L—Report of the Superintendent of Incumbrances.
- Document M—Report of the Water Register.

Very respectfully,

ROLLIN M. SQUIRE, Commissioner of Public Works.

## Document "A."

Showing Titles of Appropriations; Balances of 1883 on October 1, 1884; Requisitions on 1883 in Fourth Quarter, 1884; Balances of 1883 on December 31, 1884; Appropriations, including Transfers, of 1884; Requisitions, First Nine Months of 1884; Requisitions, Fourth Quarter, 1884; Total Requisitions on 1884; Balances on December 31, 1884; and the Titles and Condition of the Trust and Special Accounts.

TITLES OF APPROPRIATIONS.	Balances of 1883 on October 1, 1884.	Requisitions on 1883 in Fourth Quarter, 1884.	Balances of 1883 on December 31, 1884.	Appropriations, including Transfers, of 1884.	Requisitions, First Nine Months of 1884.	Requisitions, Fourth Quarter of 1884.	Total Requisitions for 1884.	Balances on December 31, 1884, crediting Vouchers returned.
Aqueduct—Repairs, Maintenance, and Strengthening.....	\$6,439 74	\$4,306 36	\$2,133 38	\$222,650 00	\$122,143 74	\$75,131 51	\$197,275 25	\$25,374 75
Aqueduct—Repairs, Maintenance, and Strengthening—Salaries.....	46 69	46 69	46 69	22,750 00	14,628 89	7,992 17	22,621 06	128 94
Boulevards, Roads, and Avenues, Maintenance of.....	1,437 26	1,437 26	1,437 26	50,000 00	41,569 72	7,924 63	49,494 35	505 65
Boulevards, Roads, and Avenues, Maintenance of—Salaries.....	9 00	9 00	9 00	2,100 00	1,025 00	600 00	1,625 00	475 00
Construction and Maintenance of Four New Public Baths.....	1,081 20	1,081 20	1,081 20	.....	.....	.....	.....	.....
Contingencies—Department of Public Works.....	16 02	16 02	16 02	14,000 00	3,623 27	6,178 15	9,801 42	4,198 58
Flagging Sidewalks and Fencing Vacant Lots, etc.....	27	27	27	1,500 00	480 59	123 72	604 31	895 69
For an Iron Awning around Jefferson Market Building.....	.....	.....	.....	2,500 00	.....	2,457 00	2,457 00	43 00
For Repairs and Alterations on Essex Market Court-house.....	.....	.....	.....	10,000 00	.....	9,284 79	9,284 79	715 21
For Repairs on Essex Market Building.....	.....	.....	.....	9,000 00	.....	7,054 80	7,054 80	1,945 20
For Surveys for Board of Street Openings and Improvements.....	1 47	1 47	1 47	5,000 00	1,563 24	303 32	1,866 56	3,133 44
Forty-second Street Reservoir—Reconnections.....	329 64	329 64	329 64	16,527 50	10,231 95	4,439 59	14,671 54	*1,886 21
Free Floating Baths.....	740 50	740 50	740 50	21,622 50	17,949 50	3,673 00	21,622 50	.....
Free Floating Baths—Salaries.....	4,932 75	4,932 75	4,932 75	35,000 00	.....	.....	.....	35,000 00
Furnishing Pipe, etc., North Brother Island.....	272 00	272 00	272 00	642,800 00	388,754 81	193,980 64	582,735 45	60,064 55
Iron Bridge over Fourth Avenue at Ninety-eighth Street.....	15 08	15 08	15 08	6,266 00	4,655 22	1,578 00	6,233 22	32 78
Lamps and Gas and Electric Lighting.....	3,458 01	2,135 82	1,322 19	188,000 00	76,625 64	56,053 87	132,679 51	*5,411 63
Laying Croton Pipes—Salaries.....	179 72	179 72	179 72	14,250 00	10,928 33	3,310 43	14,244 76	5 24
Public Buildings—Construction and Repairs.....	939 87	939 87	939 87	59,200 00	22,748 95	23,221 55	45,970 50	*13,901 66
Public Drinking-hydrants.....	573 08	573 08	573 08	2,804 00	1,759 83	762 89	2,522 72	*288 18
Public Drinking-hydrants—Salaries.....	.....	.....	.....	696 00	387 00	231 00	618 00	78 00
Removing Obstructions in Streets and Avenues.....	01	01	01	6,600 00	3,260 70	2,495 50	5,756 20	843 80
Removing Obstructions in Streets and Avenues—Salaries.....	.....	.....	.....	3,000 00	2,295 17	2,955 83	5,251 00	44 17
Repairing and Renewal of Pipes, Stop-cocks, etc.....	4 74	4 74	4 74	195,000 00	115,708 43	67,311 05	183,019 48	*12,006 05
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	91 21	91 21	91 21	73,250 00	50,176 83	22,738 77	72,915 60	334 40
Repairs and Renewal of Pavements and Regrading.....	405 16	360 00	45 16	191,650 00	101,375 52	89,334 09	190,709 61	940 39
Repairs and Renewal of Pavements and Regrading—Salaries.....	4 50	4 50	4 50	7,500 00	3,916 62	3,507 30	7,423 92	76 02
Repaving Streets and Avenues.....	5,219 18	4,110 25	1,108 93	339,750 00	110,508 06	211,093 91	322,499 97	17,250 03
Repaving Streets and Avenues—Salaries.....	405 29	405 29	405 29	10,100 00	6,636 47	2,837 48	9,473 95	626 05
Roads, Streets, and Avenues, Unpaved—Maintenance and Sprinkling.....	584 28	584 28	584 28	29,350 00	14,620 97	12,893 84	27,514 81	1,835 19
Salaries—Department of Public Works.....	23 94	23 94	23 94	99,000 00	69,068 14	22,228 39	91,296 53	703 47
Sewers—Repairing and Cleaning.....	394 79	394 79	394 79	11,400 00	58,270 25	40,215 36	98,485 61	*13,332 65
Sewers—Repairing and Cleaning—Salaries.....	1 45	1 45	1 45	11,000 00	8,226 47	2,773 16	10,999 63	37
Sewerage System—Salaries.....	67	67	67	15,000 00	12,268 81	2,730 90	14,999 71	29
Steam Heating of the City Hall.....	.....	.....	.....	10,000 00	.....	5,498 00	5,498 00	4,502 00
Steam Rollers for Pavements.....	.....	.....	.....	11,000 00	11,000 00	.....	11,000 00	.....
Street Improvements—For Surveying, Monumenting, etc.....	63 50	63 50	63 50	3,000 00	519 00	387 00	906 00	2,064 00
Supplies for and Cleaning Public Offices.....	132 21	18 30	113 91	111,650 00	62,355 65	28,168 65	90,524 30	21,125 70
Supplies for and Cleaning Public Offices—Salaries.....	669 60	669 60	669 60	26,350 00	19,620 41	6,687 50	26,307 91	42 09
Surveys, Maps, etc., for Street Openings and New Streets.....	24	24	24	15,000 00	7,764 98	3,505 46	11,270 44	3,722 56
Supplying Water to Shipping, etc.—Salaries.....	11 00	11 00	11 00	10,500 00	7,949 60	2,550 50	10,499 50	50
Washington Market—Alterations and Rebuilding.....	1,852 93	1,852 93	1,852 93	178,929 00	60,099 25	82,685 50	142,784 75	36,144 25
Washington Market—Alterations and Rebuilding—Salaries.....	.....	.....	.....	1,071 00	628 00	208 00	836 00	235 00
Water Supply for the Twenty-fourth Ward.....	5 24	5 24	5 24	13,035 00	4,829 56	3,006 57	7,836 13	5,198 87
Water Supply for the Twenty-fourth Ward—Salaries.....	.....	.....	.....	765 00	477 00	288 00	765 00	.....
Wells and Pumps—Repairing and Cleaning.....	230 32	230 32	230 32	500 00	54 62	.....	54 62	445 38
Totals.....	\$30,572 56	\$10,930 73	\$19,641 83	\$2,794,066 00	\$1,449,733 59	\$1,019,012 71	\$2,468,746 30	\$326,563 94

\* Accounts credited with vouchers returned by Comptroller.

NOTE.—Requisitions drawn Fourth Quarter, 1884, on "Laying Croton Pipes," of 1882, \$784.99; and again on "Supplies for and Cleaning Public Offices," of 1882, \$33.20.

TITLES OF TRUST ACCOUNTS.	Balances from 1883 and Receipts, First Nine Months, 1884.	Receipts, Fourth Quarter, 1884.	Requisitions First Nine Months, 1884.	Requisitions, Fourth Quarter, 1884.
Croton Water Fund.....	.....	.....	\$720,296 80	\$198,313 51
Street Improvements above Fifty-ninth Street.....	.....	.....	99,483 60	6,447 24
Street Improvement Fund.....	.....	.....	586,804 38	264,093 60
Restoring and Repaving—Special Fund—Department of Public Works.....	\$29,604 26	\$7,100 00	15,061 50	7,534 50
Water Meter Fund, No. 2.....	22,882 08	4,686 79	22,510 83	8,168 94

Statement of Bookkeeper, Department of Public Works, showing all Revenues of the City received through the Department of Public Works during the First Nine Months of 1884, during the Fourth Quarter of 1884, and the Total for the Year.

SOURCE OF REVENUE.	FIRST NINE MONTHS, 1884.	FOURTH QUARTER, 1884.	TOTAL FOR 1884.	SOURCE OF REVENUE.	FIRST NINE MONTHS, 1884.	FOURTH QUARTER, 1884.	TOTAL FOR 1884.
Water rents.....	\$1,677,668 99	\$281,993 43	\$1,959,662 42	Redemption and sale of street obstructions.....	\$839 06	\$256 99	\$1,096 05
Water penalties.....	6,736 85	8,736 55	15,473 40	Sales at corporation yards.....	585 70	821 55	1,407 25
Pipe tapping.....	7,650 00	2,431 50	10,081 50	Work and material furnished by city.....	145 67	236 94	382 61
Sewer permits.....	18,122 45	6,717 40	24,839 85	Total.....	\$1,762,636 40	\$314,601 04	\$2,077,237 44
Vault permits.....	50,887 68	13,406 68	64,294 36				

C. T. MCLENACHAN, Bookkeeper, D. P. W.

## Document "B."

A Detailed Statement of all Expenditures for which Requisitions were drawn by the Department of Public Works on the Department of Finance during the Quarter ending December 31, 1884.

## APPROPRIATIONS.

## Aqueduct—Repairs, Maintenance and Strengthening—

Blue-stone coping	\$1,828 75
Brick	591 20
Building-stone	2,035 16
Cast-iron pipe	1,057 04
Cement	944 00
Coal and wood	2,004 25
Emptying sink	33 00
Granite water-table	675 00
Harness	40 00
Lumber	2,673 73
Oil	745 04
Pay-rolls	55,924 25
Placing indicators	99 25
Plumbing	291 15
Powder	62 50
Putting in telephone	405 85
Quarry privilege	309 75
Rent of instruments	220 00
" offices	212 50
Repairing battery	347 90
" machinery	99 98
" pipe	101 16
" roofs	867 41
" tools	815 92
Sand	750 70
Scow	40 00
Smoke-stack	49 59
Stone flagging	156 95
Stop-cocks and flange-pipes	331 80
Supplies for office, etc.	500 49
Taxes	323 21
Tools	301 98
Wagon	125 00
Wheat bran	23 00
Wooden flumes	24 00
Total	\$75,131 51

## Aqueduct—Repairs, Maintenance and Strengthening, for 1883—

Gneiss rock	\$627 56
Ice	94 80
Stone coping	3,584 00
Total	\$4,306 36

## Boulevard, Roads and Avenues, Maintenance of—

Coal	\$13 00
Lumber	12 80
Pay-rolls	7,660 74
Repairing harness	26 65
" sprinklers	67 20
Supplies	113 44
Tools	30 80
Total	\$7,924 63

## Contingencies—Department of Public Works—

Auctioneers' fees	\$77 67
Damage to premises	40 00
Horse-hire	481 39
Horse-keeping	400 55
Incidentals	400 00
Postage	171 00
Repairing wagon	14 48
Telegrams	277 83
Traveling expenses	4,315 23
Total	\$6,178 15

## Flagging Sidewalks and Fencing Vacant Lots—

Gansevoort Street Yard	\$93 52
Forty-third street and First avenue	30 20
Total	\$123 72

## For an Iron Awning around Jefferson Market—

Architect fees	\$117 00
Work on contract	2,340 00
Total	\$2,457 00

## For Repairs on Essex Market Building—

Moving safe	\$10 00
Repairs and alterations	7,044 80
Total	\$7,054 80

## For Repairs on Essex Market Court-house—

Architect fees	\$489 75
Repairs and alterations	8,795 04
Total	\$9,284 79

## Forty-second Street Reservoir—Reconnections—

Pig lead	\$303 32
----------	----------

## Free Floating Baths—

Horse-hire	\$200 00
Repairing baths	785 14
Supplies	220 45
Towing baths	495 00
Unmooring baths	50 00
Wharfage	2,689 00
Total	\$4,439 59

## Lamps and Gas and Electric Lighting—

Atlas of New York	\$75 00
Crossheads	315 00
Gas examinations	312 00
Glass street-signs	964 25
Horse-hire	112 50
Lamps	876 75
Lamp butts	672 00
" columns	300 00
" globes	600 00
" irons	485 25
" posts	2,075 00
Lettering globes	92 40
Map of Twenty-third Ward	195 00
Metal street-signs	1,065 60
Pay-rolls	300 00

## Lamps and Gas and Electric Lighting—

Rent of Photometrical rooms	\$240 00
Trucking, etc.	180 00
Lighting Armory, Battery E	296 10
" " K	76 35
" Seventh Regiment	2,454 45
" Eighth " "	695 40
" Ninth " "	1,282 05
" Eleventh " "	322 05
" Twelfth " "	655 80
" Twenty-second Regiment	1,520 40
" Sixty-ninth " "	749 25
" Seventy-first " "	582 45
Lighting Bath, Battery	25 50
" Gouverneur Slip	12 45
" Duane street	7 92
" Horatio street	12 15
" Fifth street	21 30
" Nineteenth street	16 20
" Thirty-seventh street	16 47
" Fifty-first street	16 05
" One Hundred and Twelfth street	26 84
" One Hundred and Thirty-sixth street	13 50
" Morrisania	1 58
Lighting Brown-stone Building	78 15
" City Hall	382 50
" County Jail	764 10
" Court, Civil, First District	75
" " " Second " "	20 85
" " " Fourth " "	21 30
" " " Fifth " "	99 90
" " " Sixth " "	12 00
" " " Eighth " "	8 85
" " " Ninth " "	5 18
" " " Tenth " "	3 60
" " Police, First District	178 20
" " " Second " "	285 30
" " " Third " "	75 30
" " " Fourth " "	191 10
" " " Fifth " "	23 17
" " Special Sessions	2 40
" Court-house, New	1,160 70
" " Third District—Clock	427 95
" Department of Public Works	233 85
" " Taxes and Assessments	7 20
" Engine-house, High Bridge	96 30
" " Ninety-eighth street	178 42
" Market, Catharine	46 35
" " Centre	213 90
" " Clinton	250 80
" " Essex	108 75
" " Fulton	744 75
" " Jefferson	228 75
" " Tompkins	471 15
" " Union	18 75
" " Washington	466 80
" Office Assessment Commission	9 60
" " Corporation Attorney	53 25
" " Receiver of Taxes	680 51
" Photometrical Rooms	41 18
" Rivington Street Yard	3 15
" South Gate-house	107 55
" Workshop, Thirtieth street	8 25
" " Eighty-third street	7 88
" " One Hundred and Twenty-ninth street	18 22
" Streets, Central Gas-light Co.	16,872 46
" " Harlem	28,735 25
" " Manhattan	25,471 92
" " Metropolitan	19,238 29
" " New York	13,023 19
" " N. Y. Mutual	2,147 74
" " Northern	12,304 36
" " Vonkers	2,595 16
" " Brush Electric Illuminating Co.	29,186 50
" " United States	18,944 10
Total	\$193,980 64

## Laying Croton Pipes—

Bolt-ends	\$46 78
Cast-iron pipe	30,287 51
Connecting mains	9 74
Hydrant-boxes	430 00
Hydrants, etc.	5,245 57
Laying pipe, Marion, Railroad and Eighth avenues, etc.	5,943 33
" West and South streets	9,125 99
" Eighty-ninth street, between Second and Third avenues	373 37
Laying pipe, One Hundred and Forty-sixth, Bridge and One Hundred and Forty-ninth streets, etc.	820 33
Lead pipe	16 80
Pay-rolls	3,471 75
Replacing pipe	138 70
Setting hydrants	144 00
Total	\$56,053 87

## Laying Croton Pipes, for 1883—

Laying pipe in Jerome avenue, between Sedgwick and North	\$1,094 53
" West Broadway, Canal and Chatham streets	125 90
Laying pipe in Willis avenue, between One Hundred and Forty-third street and Third avenue	277 67
Laying pipe in One Hundred and Fiftieth street, between Robbins and Fenton avenues	362 67
Laying pipe in One Hundred and Fifty-first street, between Robbins avenue and Beach street	275 05
Total	\$2,135 82

## Laying Croton Pipes, for 1882—

Laying pipe in	\$784 99
----------------	----------

## Public Buildings—Construction and Repairs—

Armory, Ninth Regiment	\$165 72
" Eleventh Regiment	16 85
" Sixty-ninth Regiment	361 72
Brown-stone Building	3,652 73
Bureau Repairs and Supplies	*1,189 55
City Hall	3,315 17
City Prison	17 98
County Jail	312 72
Court, City	251 96
" Civil, First District	26 03
" " Second " "	4 45
" " Fourth " "	54 64
" " Fifth " "	71 47
" " Sixth " "	6 63
" Police, First	299 99
" " Fifth	186 42
" " Sixth	15 37

\* Voucher for \$651.08 withdrawn from Department of Finance.

## Public Buildings—Construction and Repairs—

Court-house, Third District.....	\$327 80
"    Fifth    ".....	103 55
"    Seventh  ".....	380 30
"    Tenth   ".....	35 28
"    New.....	4,322 81
Hall of Records.....	3,684 01
Market, Catharine.....	207 48
"    Essex.....	19 05
"    Fulton.....	35 29
"    Centre.....	1,193 35
"    Jefferson.....	125 86
"    Tompkins.....	1,093 42
"    Union.....	216 01
"    Washington.....	493 20
No. 31 Chambers street.....	751 81
No. 5 Duane street.....	29 95
One Hundred and Twenty-second street and New avenue.....	24 04
Office of Corporation Counsel.....	239 02
Pay-rolls, Carpenters.....	581 00
Total.....	\$23,872 63

## Public Drinking-hydrants—

Repairing hydrants.....	\$962 89
-------------------------	----------

## Removing Obstructions in Streets and Avenues—

Removing obstructions.....	\$1,627 50
Removing trees.....	868 00
Total.....	\$2,495 50

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

Castings, etc.....	\$7,014 71
Cast-iron pipe.....	7,327 64
Coal.....	224 82
Composition stops.....	965 00
Drilling machine.....	187 27
Excavating rock.....	989 30
Flange-boxes, etc.....	47 50
Horse-hire.....	90 00
Hydrant-boxes.....	378 00
Hydrants, stop-cocks, etc.....	5,308 06
Lead.....	431 03
Lumber.....	156 75
Oil.....	111 10
Pay-rolls.....	37,128 42
Pig lead.....	412 34
Placing telephone wires.....	855 82
Rent of telephone.....	563 95
Repairing gas-mains.....	99 79
Repairing hydrants.....	829 13
Replacing coping.....	119 15
Stop-cock boxes and covers.....	641 25
Stove and putting up.....	37 35
Tapping cocks.....	686 61
Taps.....	1,051 92
Tools and supplies.....	555 39
Use of waterphone.....	950 00
Waste valves.....	100 00
Wood.....	48 75
Total.....	\$67,311 05

## Repairs and Renewal of Pavements and Regrading—

Bridge stone.....	\$671 62
Oil.....	55 00
Pay-rolls.....	79,960 33
Paving dock.....	15 00
Rent of yard.....	150 00
Repairing asphalt pavement.....	1,601 00
Repairing stone pavement.....	683 20
Repairing tools.....	711 80
Rolling pavement, etc.....	372 69
Rubber hose.....	20 38
Sand.....	5,060 52
Tools.....	32 55
Total.....	\$89,334 09

## Repairs and Renewal of Pavements, etc., for 1883—

Sand.....	\$360 00
-----------	----------

## Repaving Streets and Avenues—

Avenue A, between Seventh and Fourteenth streets.....	\$18,794 62
Fifth avenue, between Thirty-third and Thirty-seventh streets.....	16,846 13
Allen and Suffolk streets.....	9,569 75
Bank street, between Bleecker street and Greenwich avenue.....	5,328 88
Clark and Minetta streets and Minetta lane.....	12,397 07
Division and Twenty-sixth streets.....	16,162 44
Houston street, between Bowery and North river.....	32,620 02
Rivington street, between Clinton street and East river.....	15,277 88
Water street, between Clinton and Corlears streets.....	13,970 79
Sixth and Stanton streets.....	17,707 16
Ninth and Forty-first streets.....	7,672 71
Ninth street, between Avenues B and D.....	8,047 72
Twelfth street, between Avenues C and D.....	4,261 72
Fifteenth street, between First avenue and 225 feet east of Avenue A.....	5,912 14
Twentieth street, between Seventh and Ninth avenues.....	9,429 70
Thirty-second street, between Ninth and Eleventh avenues.....	8,105 44
Forty-seventh and Forty-ninth streets.....	9,889 75
Total.....	\$211,993 91

## Repaving Streets and Avenues, for 1883—

Fifty-seventh street, between Madison and Fourth avenues.....	\$4,110 25
---	------------

## Roads, Streets, and Avenues, Unpaved—Maintenance and Sprinkling—

Pay-rolls.....	\$12,893 84
----------------	-------------

## Sewers—Repairing and Cleaning—

Basin-heads.....	\$1,505 00
Brick, cement, etc.....	497 25
Correcting maps.....	110 00
Horse-hire.....	78 00
Horse-keeping.....	54 50
Lumber.....	148 40
Manhole heads and covers.....	2,171 99
Iron beams.....	694 73
Pay-rolls.....	12,322 88
Repairing basins.....	662 60
Repairing tools.....	92 18
Repairing and cleaning sewers, etc.....	21,720 36
Supplies.....	157 38
Total.....	\$40,215 36

## Steam Heating of the City Hall—

Work on contract.....	\$5,498 00
-----------------------	------------

## Street Improvements—For Surveying, Monumenting and Numbering Streets—

Correcting maps.....	\$55 00
Pay-rolls.....	312 00
Surveying.....	20 00
Total.....	\$387 00

## Supplies for and Cleaning Public Offices—

Armory, Battery E.....	\$22 00
"    "    K.....	22 00
"    Seventh Regiment.....	105 26
"    Eighth  ".....	64 85
"    Ninth   ".....	93 12
"    Eleventh ".....	63 00
"    Twelfth ".....	22 00
"    Twenty-second Regiment.....	22 00
"    Sixty-ninth ".....	51 90
"    Seventy-first ".....	51 01
Board of Aldermen.....	609 79
Brown-stone Building.....	247 07
Bureau Repairs and Supplies.....	5,107 65
City Hall.....	121 16
City Library.....	109 06
Court, Civil, First District.....	60 53
"    "    Second ".....	18 80
"    "    Third  ".....	33 92
"    "    Fourth ".....	40 63
"    "    Fifth  ".....	91 40
"    "    Sixth  ".....	29 20
"    "    Seventh ".....	18 69
"    "    Eighth ".....	46 40
"    "    Ninth  ".....	28 80
"    "    Tenth  ".....	21 40
"    Police, First ".....	28 10
"    "    Third  ".....	36 00
"    "    Fifth  ".....	28 75
"    City.....	1,204 03
"    Common Pleas.....	1,223 29
"    General Sessions.....	913 95
"    Special Sessions.....	37 85
"    Superior.....	131 95
"    Supreme.....	393 16
"    Surrogate's.....	259 24
Court-house, New.....	417 99
Department of Finance.....	1,490 00
"    Public Works.....	684 34
"    Taxes and Assessments.....	20 80
No. 49 Beekman street.....	20 80
Office—Assessment Commission.....	11 00
"    Commissioner of Accounts.....	2 00
"    Corporation Counsel.....	145 75
"    District Attorney.....	416 33
"    Public Administrator.....	11 00
"    Receiver of Taxes.....	294 25
"    Recorder.....	8 18
"    Register.....	224 00
Pay-rolls.....	13,058 50
Rivington street Yard.....	5 75
Total.....	\$28,168 65

## Supplies for and Cleaning Public Offices, for 1883—

Bureau Repairs and Supplies.....	\$15 00
Court of Common Pleas.....	3 30
Total.....	\$18 30

## Supplies for and Cleaning Public Offices, for 1882—

Bureau Repairs and Supplies.....	\$33 20
----------------------------------	---------

## Surveys, Maps, etc., for Street Openings and New Streets—

Pay-rolls.....	\$3,505 46
----------------	------------

## Washington Market—Alterations and Rebuilding—

Alterations, etc.....	\$81,000 00
Architect fees.....	1,685 50
Total.....	\$82,685 50

## Water Supply for the Twenty-fourth Ward—

Cast-iron pipes.....	\$1,919 04
Supply of water.....	1,087 53
Total.....	\$3,006 57

## RECAPITULATION OF APPROPRIATIONS.

Aqueduct—Repairs, Maintenance and Strengthening.....	\$75,131 51
Aqueduct—Repairs, Maintenance and Strengthening, for 1883.....	4,306 36
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	7,992 17
Boulevard, Roads and Avenues, Maintenance of.....	7,924 63
Boulevard, Roads and Avenues, Maintenance of—Salaries.....	600 00
Contingencies—Department of Public Works.....	6,178 15
Flagging Sidewalks and Fencing Vacant Lots.....	123 72
For an Iron Awning around Jefferson Market.....	2,457 00
For Repairs on Essex Market Building.....	7,054 80
For Repairs on Essex Market Court-house.....	9,284 79
Forty-second Street Reservoir Reconnections.....	303 32
Free Floating Baths.....	4,439 59
Free Floating Baths—Salaries.....	3,673 00
Lamps and Gas and Electric Lighting.....	193,980 64
Lamps and Gas and Electric Lighting—Salaries.....	1,578 00
Laying Croton Pipes.....	56,053 87
Laying Croton Pipes, for 1883.....	2,135 82
Laying Croton Pipes, for 1882.....	784 99
Laying Croton Pipes—Salaries.....	3,316 43
Public Buildings—Construction and Repairs.....	*23,872 63
Public Drinking-hydrants.....	762 89
Public Drinking-hydrants—Salaries.....	231 00
Removing Obstructions in Streets and Avenues.....	2,495 50
Removing Obstructions in Streets and Avenues—Salaries.....	660 66
Repairing and Renewal of Pipes, Stop-cocks, etc.....	67,311 05
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	22,738 77
Repairs and Renewal of Pavements and Regrading.....	89,334 09
Repairs and Renewal of Pavements and Regrading, for 1883.....	360 00
Repairs and Renewal of Pavements and Regrading—Salaries.....	3,507 36
Repaving Streets and Avenues.....	211,993 91
Repaving Streets and Avenues, for 1883.....	4,110 25
Repaving Streets and Avenues—Salaries.....	2,837 48
Roads, Streets and Avenues, Unpaved—Maintenance and Sprinkling.....	12,893 84
Salaries—Department of Public Works.....	22,228 39

Sewerage System—Salaries.....	\$2,730 90
Sewers—Repairing and Cleaning.....	40,215 36
Sewers—Repairing and Cleaning—Salaries.....	2,773 16
Steam-heating of the City Hall.....	5,498 00
Street Improvements—For Surveying, Monumenting and Numbering Streets.....	387 00
Supplies for and Cleaning Public Offices.....	28,168 65
Supplies for and Cleaning Public Offices, for 1883.....	18 30
Supplies for and Cleaning Public Offices, for 1882.....	33 20
Supplies for and Cleaning Public Offices—Salaries.....	6,687 50
Surveys, Maps, etc., for Street Openings and New Streets.....	3,505 46
Supplying Water to Shipping and for Building Purposes.....	2,550 50
Washington Market—Alterations and Rebuilding.....	82,685 50
Washington Market—Alterations and Rebuilding—Salaries.....	208 00
Water Supply for the Twenty-fourth Ward.....	3,006 57
Water Supply for the Twenty-fourth Ward—Salaries.....	288 00

Total ..... \$1,031,412 71

\* Voucher for \$651.08 withdrawn from Department of Finance.

## TRUST ACCOUNTS.

## CROTON WATER FUND.

Building gate and keeper's house—Kensico.....	\$7,650 00
Building reservoir—Bronx river.....	17,371 03
Building reservoir—Rye Ponds.....	4,013 10
Building reservoir—Williamsbridge.....	6,840 00
Building closet for office.....	189 28
Cement.....	600 00
Coal and wood.....	490 63
Commissioners' fees.....	21,000 00
Damage to property.....	271 50
Drawing implements.....	235 96
Fitting-up stable.....	62 50
Forge and anvil.....	49 67
Horse.....	100 00
Horse-feed.....	234 08
Horse-keeping.....	290 00
Laying pipe.....	57,494 42
Lumber.....	403 75
Pay-rolls.....	59,538 38
Printing and binding evidence.....	435 35
Printing maps.....	303 24
Professional services.....	8,945 50
Rent of mill seat.....	600 00
Rent of offices.....	1,735 00
Repairing instruments.....	222 70
Repairing wagon.....	32 90
Repairing machinery.....	926 92
Right of way.....	3,505 00
Setting spiles.....	920 00
Stenographing.....	165 45
Supplies for drills.....	425 58
Taxes.....	92 10
Team-hire.....	1,508 65
Tools and supplies.....	837 16
Traveling expenses.....	1,193 32

Total ..... \$198,683 17

## RESTORING AND REPAVING.

Pay-rolls.....	\$1,224 00
Repairing pavements, etc.....	6,146 50
Sand.....	164 00

Total ..... \$7,534 50

## STREET IMPROVEMENT FUND.

Crosswalks—	
Boulevard, at Ninth and Tenth avenues.....	\$360 08
Fencing Vacant Lots—	
New Chambers and Chestnut streets.....	\$34 14
West side Boulevard, at One Hundred and Twenty-eighth to One Hundred and Thirty-fourth streets.....	362 49
St. Nicholas avenue, between One Hundred and Twenty-sixth and One Hundred and Twenty-seventh streets.....	203 06
Eightieth street, southwest corner Fourth avenue.....	100 19
Eighty-seventh street, northwest corner Lexington avenue.....	51 74
One Hundred and Twenty-second street, at Fourth avenue.....	108 14
East One Hundred and Twenty-third street, opposite Nos. 114 and 116.....	21 39

Total ..... \$881 15

## Flagging Sidewalks—

East side Boulevard, between Sixty-seventh and Seventy-fifth streets.....	770 01
Tenth avenue, between One Hundred and Seventh and One Hundred and Tenth streets.....	807 19
East side Eleventh avenue, between Thirty-eighth and Fortieth streets.....	701 60
South side Fifty-seventh street, between Fifth and Madison avenues.....	190 25
Eighty-third street, between Eighth avenue and Boulevard.....	438 50
One Hundred and Nineteenth street, between Seventh and Eighth avenues.....	185 58

Total ..... \$3,093 13

## Paving—

Sixty-ninth street, between Ninth and Eleventh avenues.....	\$7,100 10
Eightieth street, between Fourth and Madison avenues.....	2,520 78
Eighty-first street, between First avenue and Avenue A.....	5,046 59
Eighty-first street, between Boulevard and Riverside Drive.....	6,217 17
Eighty-ninth street, between Avenues A and B.....	219 40
One Hundred and Eighth street, between Second and Third avenues.....	5,176 20
One Hundred and Eleventh street, between Seventh and St. Nicholas avenues.....	4,025 03
One Hundred and Twenty-third street, between Third and Madison avenues.....	5,724 35
One Hundred and Thirty-first street, between Seventh and Eighth avenues.....	6,358 55

Total ..... \$42,388 17

## Receiving-basins—

Eighth avenue, between Seventy-seventh and Eighty-first streets.....	\$45 90
Boulevard, southwest corners Seventieth, Seventy-first and Seventy-second streets.....	1,313 50
Cliff street, northeast and southeast corners Frankfort street.....	12 00
Fourteenth street, at Avenues A and C.....	22 80

Total ..... \$1,394 20

## Regulating, grading, etc.—

Madison avenue, between One Hundred and Thirty-fifth and One Hundred and Thirty-seventh streets.....	\$1,232 00
Ninth avenue, between One Hundred and Fifty-first and One Hundred and Fifty-fifth streets.....	244 75
Tenth avenue, between Ninety-third and Ninety-fifth streets.....	123 20
Eleventh avenue, between Kingsbridge road and Dyckman street.....	23,149 00
Sixty-fourth street, between First avenue and East river.....	2,464 00

## Regulating, grading, etc.—

Sixty-seventh street, between Third avenue and Avenue A.....	\$468 25
Eighty-fifth street, between Tenth avenue and Riverside Drive.....	1,382 50
Eighty-fifth street, between Ninth and Tenth avenues.....	200 00
Eighty-ninth street, between Eighth and Tenth avenues.....	420 00
Ninety-fifth street, between Ninth and Tenth avenues.....	4,345 64
Ninety-eighth street, between Fourth and Fifth avenues.....	2,781 90
One Hundredth street, between Boulevard and Riverside Drive.....	236 83
One Hundredth street, between Fourth and Fifth avenues.....	10,100 62
One Hundred and First street, between Fourth and Fifth avenues.....	5,893 70
One Hundred and First street, between Third and Fourth avenues.....	1,120 00
One Hundred and Third street, between Ninth and Tenth avenues.....	2,257 50
One Hundred and Third street, between Tenth avenue and Riverside Drive.....	1,050 00
One Hundred and Twelfth street, between Seventh and Eighth avenues.....	1,050 00
One Hundred and Thirteenth street, between Fifth and Eighth avenues.....	638 50
One Hundred and Seventeenth street, between Fourth and Fifth avenues.....	17,102 95
One Hundred and Eighteenth street, between Fourth and Sixth avenues.....	3,381 00
One Hundred and Twenty-second street, between Fourth and Madison avenues.....	5,541 73
One Hundred and Twenty-third street, between Ninth and St. Nicholas avenues.....	138 50
One Hundred and Thirty-second street, between Broadway and Tenth avenue.....	1,078 00
One Hundred and Thirty-fifth street, between Eighth and St. Nicholas avenues.....	1,370 32
One Hundred and Thirty-sixth street, between Fifth and Eighth avenues.....	447 50
One Hundred and Forty-third street, between Seventh and Eighth avenues.....	1,498 21
One Hundred and Forty-first street, between Eighth and St. Nicholas avenues.....	167 69
One Hundred and Forty-first street, between Tenth and St. Nicholas avenues.....	252 44
One Hundred and Forty-fourth street, between Seventh and New avenues.....	9,713 55
One Hundred and Fifty-first street, between Boulevard and St. Nicholas avenue.....	2,093 43
One Hundred and Fifty-third street, between Seventh and New avenues.....	1,680 00
One Hundred and Fifty-seventh street, between Boulevard and Tenth avenue.....	3,116 40
One Hundred and Fifty-eighth street, between Kingsbridge road and Public Drive.....	4,932 20
One Hundred and Sixty-fifth street, between Tenth and Eleventh avenues.....	7,086 07
One Hundred and Eighty-fifth street, between Tenth avenue and Kingsbridge road.....	1,421 35
Kingsbridge road, between One Hundred and Fifty-fifth and One Hundred and Ninetieth streets.....	16,222 50

Total ..... \$136,402 23

## Sewers—

West End avenue, between Sixty-fifth and Sixty-sixth streets.....	\$3,723 37
Second avenue, between Sixty-sixth and Sixty-seventh streets.....	2,318 23
Second avenue, between Eighth and Ninth streets.....	38 70
Third avenue, between Eighty-eighth and Eighty-ninth streets.....	65 70
Fourth avenue, between Twenty-seventh and Thirtieth streets.....	3,872 59
Fifth avenue, between Thirtieth and Fourteenth streets.....	35 40
Tenth avenue, between Twentieth and Twenty-first streets.....	49 20
Eleventh avenue, between One Hundred and Fifty-seventh and One Hundred and Fifty-ninth streets.....	8,058 61
Chatham street, between Brooklyn Bridge and Frankfort street.....	77 10
Macdougall street, between West Third and West Fourth streets.....	865 64
Spring street, between Broadway and Mercer street.....	41 10
Tenth street, between Greenwich and Tenth avenues.....	65 70
Fifty-ninth street, between Eighth avenue and present sewer east.....	1,633 90
Eighty-fourth street, between Tenth avenue and Riverside Drive.....	1,139 08
Eighty-fifth street, between Ninth and Tenth avenues.....	1,963 50
Eighty-sixth street, between Tenth avenue and Riverside Drive.....	5,091 06
Eighty-eighth street, between Fifth and Madison avenues.....	1,471 49
Eighty-ninth street, between Eighth and Ninth avenues.....	1,559 18
One Hundred and First street, between Ninth avenue and Manhattan street.....	1,287 18
One Hundred and Fourth street, between Eighth and Ninth avenues.....	251 40
One Hundred and Twelfth, One Hundred and Thirteenth and One Hundred and Fourteenth streets, between Eighth and New avenues.....	3,555 93
One Hundred and Twentieth street, between Sixth and Seventh avenues.....	2,114 77
One Hundred and Twentieth and One Hundred and Twenty-first streets, between Seventh and St. Nicholas avenues.....	1,370 78
One Hundred and Twenty-third street, between Ninth avenue and Manhattan street.....	1,262 40
One Hundred and Twenty-eighth street, between Eighth and St. Nicholas avenues.....	104 40
One Hundred and Thirty-fourth street, between Seventh avenue and summit west.....	947 22
One Hundred and Forty-fourth street, between Eighth avenue and new avenue west.....	296 70
One Hundred and Forty-fifth street, between Tenth and St. Nicholas avenues.....	1,593 98
One Hundred and Forty-seventh street, between Eighth avenue and first new avenue west.....	12,047 60

Total ..... \$57,002 71

## STREET IMPROVEMENTS ABOVE FIFTY-NINTH STREET.

Morningside Avenue, East—	
Pay-rolls.....	\$1,008 11
Morningside Avenue, West—	
Pay-rolls.....	\$990 39
Regulating, grading, etc.....	4,443 74

Total ..... \$5,434 13

## WATER-METER FUND, NO. 2.

Water-meters.....	\$6,127 50
Water-meters—Setting.....	2,041 44

Total ..... \$8,168 94

## RECAPITULATION OF TRUST ACCOUNTS.

Croton Water Fund.....	\$198,683 17
Restoring and Repaving.....	7,534 50
Street Improvement Fund—	
Laying crosswalks.....	\$360 08
Fencing vacant lots.....	881 15
Flagging sidewalks.....	3,093 13
Paving.....	42,388 17
Receiving-basins.....	1,394 20
Regulating, grading, etc.....	136,402 23
Sewers.....	57,002 71
Pay-rolls, Inspectors Paving.....	448 00
“ Inspectors Regulating, Grading, etc.....	5,946 00
“ Inspectors Sewers.....	3,620 00
“ Engineers Sewers.....	7,424 45
Surveyors' Fees.....	5,133 57

264,093 69

## Street Improvements above Fifty-ninth Street—

Morningside avenue, East.....	\$1,008 11
“ “ West.....	5,434 13

6,442 24

## Water-meter Fund, No. 2.....

8,168 94

Total ..... \$484,922 54

## GENERAL SUMMARY.

Appropriations.....	*\$1,031,412 71
Trust Accounts.....	484,922 54

Grand Total ..... \$1,516,335 25

\* Less voucher for \$651.08 withdrawn from Department of Finance.

## Document "C."

Contracts made during the Three Months ending December 31, 1884.

DATE.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.	DATE.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.
1884.					1884.				
Dec. 29	Regulating and grading Fourth avenue, between Ninety-seventh and One Hundred and Second streets, and setting curb-stones and flagging sidewalks therein.....	Michael Egan, 311 East 85th street..	James J. Jones, 430 East 80th street. George H. Toop, 421 East 88th street.	\$3,354 50	Oct. 14	Flagging sidewalks east side of Boulevard, from Sixty-seventh to Seventy-fifth street.....	Dennis W. Moran, 349 East 72d street..	John McQuade, 1328 Lexington ave. Peter McGuinness, 1546 Fourth avenue. D. W. Moran, 349 East 72d street..	1,545 75
Oct. 17	Sewer in One Hundred and Thirty-fourth street, between Sixth and Seventh avenues, and between Eighth avenue and summit east of Eighth avenue.....	Michael Casey, 170th street and Cottage place.....	Michael Hughes, 1531 Avenue A..... Henry Bohlen, 240 East 83d street..	\$3,858 00	" 14	Flagging sidewalks of Tenth avenue, from One Hundred and Seventh to One Hundred and Tenth street	Andrew Low, 162 East 70th street..	John McQuade, 1328 Lexington ave.	1,039 50
" 17	Sewer in One Hundred and Twenty-seventh street, between Convent avenue and Lawrence street.....	Michael Casey, 170th street and Cottage place.....	Michael Hughes, 1531 Avenue A..... Henry Bohlen, 240 East 83d street..	2,175 00	<i>Paving Contracts.</i>				
" 20	Repair to sewer in Sixty-third street, between Madison and Fifth avenue.....	Cornelius Smith, 418 East 75th street..	Michael Casey, 170th st. and Cottage place..... C. C. Ellis, 433 Ninth avenue....	3,403 20	Oct. 15	Paving One Hundred and Fifty-second street, from St. Nicholas place to St. Nicholas avenue, with Macadam pavement.....	George F. Doak, Broadway and 129th street.....	Louis Beck, 58 Cedar street..... Ransom Parker, Jr., 231 West 11th street.	\$830 80
" 31	Repairs to sewer in Sixty-second street, between Madison and Fifth avenues.....	Thomas Hayden & Co., 120 Clinton avenue, Brooklyn.	John Fleming, 417 East 79th street.. Caroline Clava, 40 Mulberry street..	1,350 00	" 15	Paving One Hundred and Fifty-third street, from St. Nicholas place to St. Nicholas avenue, with Macadam pavement.....	George F. Doak, Broadway and 129th street.....	Louis D. Beck, 58 Cedar street..... Ransom Parker, Jr., 231 West 11th street.	1,108 72
Nov. 7	Sewer in One Hundred and Thirty-first street, between Sixth and Seventh avenues.....	J. A. Devlin, 1145 Park avenue...	John H. Mooney, 23 Park Row..... Thomas Gearty, 135 East 83d street..	2,181 00	Nov. 18	Paving Eighty-eighth street, from Second to Third avenue, with granite-block pavement.....	Thomas Gearty, 135 East 83d street..	Thomas Regan, 858 Third avenue... Edward Reilly, 1402 Second avenue.	5,180 70
" 11	Sewer extension at foot of Forty-seventh street, East river.....	Matthew Baird, 306 East 57th street..	James Baird, 310 East 57th street.. Thomas McMann, 709 Lexington ave...	844 00	" 22	Paving One Hundred and Fifteenth street, from Sixth to Seventh avenue, with granite-block pavement.....	Matthew Baird, 306 East 57th street..	James Baird, 310 East 57th street.. Thos. McMann, 709 Lexington ave..	7,911 66
" 14	Sewer in One Hundred and Fifty-first street, between Avenue St. Nicholas and Tenth avenue, and in Tenth avenue, east side, between One Hundred and Fiftieth and One Hundred and Fifty-first streets.....	Patrick Carlin, 1244 Second avenue.	F. W. Nolte, 1164 First avenue... S. Pendergast, 1158 Second avenue.	3,842 00	" 22	Paving Eighty-ninth street, from Second to Fifth avenue, with granite-block pavement.....	Matthew Baird, 306 East 57th street..	James Baird, 310 East 57th street.. Thos. McMann, 709 Lexington ave..	14,618 50
" 17	Sewers in Fourth avenue, east side, between Fifty-seventh and Fifty-Eighth streets.....	John Slattery, 788 Fourth avenue..	John Davidson, 10 Lexington avenue. P. Slattery, 681 East 135th street.	2,145 00	" 20	Paving Seventieth street, from Avenue A to a line about 650 feet easterly, with trap-block pavement	W. A. Cumming, 5 Dey street.....	A. Milne, Stamford, Conn..... James Mulry, 307 East 12th street.	9,261 30
" 22	Sewer in Eighty-eighth, Eighty-ninth and Ninetieth streets, between Ninth and Tenth avenues.....	Michael Noonan, 235 East 116th street.	James Mulry, 307 East 12th street.. W. H. McCarthy, 153 East 119th street.	20,252 50	" 29	Paving One Hundred and Fifty-third street, from Tenth avenue to Avenue St. Nicholas, with granite-block pavement.....	William Kelly, 609 West 47th street.	T. F. Flandrau, 460 West 43d street.. B. F. Findlay, 410 W. 42d street...	4,082 40
" 21	Sewer in One Hundred and Forty-fifth street, north side, between Boulevard and Tenth avenue, and in Tenth avenue, west side, between One Hundred and Forty-fifth and One Hundred and Forty-sixth streets.....	Nutt & Kearns, 404 East 49th street..	Martin Senger, 738 Ninth avenue... Wm. Hollweg, 563 East 143d street..	8,039 00	Dec. 10	Paving Seventy-third street, from Ninth avenue to a line about 525 feet west of Eighth avenue, with granite-block pavement.....	Thomas Gearty, 135 East 83d street..	James Reilly, 1475 First avenue... Timothy Dwyer, 406 East 66th street.	3,916 50
Dec. 6	Sewer in Eighty-third street, between Boulevard and West End avenue..	John Slattery, 788 Fourth avenue..	John Davidson, 614 Lexington avenue. W. Hullivan, 347 West 53d street..	3,160 00	" 10	Paving Eighty-second street, from Eighth to Ninth avenue, with granite-block pavement.....	Thomas Gearty, 135 East 83d street..	James Reilly, 1475 First avenue... Timothy Dwyer, 406 East 66th street.	6,598 00
" 10	Sewer in Sixty-sixth street, between Eighth and Ninth avenues.....	John McKim & Son, 326 East 58th street..	Maurice B. Flynn, 543 Madison avenue. Chas. H. Field, 957 Madison avenue.	11,385 00	<i>Paving (under chapter 476, Laws of 1875).</i>				
" 10	Sewer in One Hundred and Fourth street, between Tenth avenue and Boulevard.....	Joseph A. Devlin, 1145 Park avenue...	Patrick Sheehy, 251 East 83d street.. Thomas Gearty, 135 East 83d street..	1,859 00	Oct. 9	Paving Rivington street, between Clinton street and East river, with trap-block pavement.....	W. A. Cumming, 5 Dey street.....	Alexander Milne, Foot of East 29th st. James Mulry, 307 East 12th street.	\$17,151 00
" 10	Sewers in Lexington avenue, between Ninety-fifth and Ninety-seventh streets, and in Ninety-fifth and Ninety-sixth streets, between Lexington and Fourth avenues, with alterations and improvements to sewer in Third avenue.....	Joseph A. Devlin, 1145 Park avenue...	Patrick Sheehy, 251 East 83d street.. Thomas Gearty, 135 East 83d street..	12,379 38	" 13	Paving Water street, between Clinton and Corlears street, with trap-block pavement.....	Thomas Gearty, 135 East 83d street..	P. H. McCulloch, 240 East 32d street.. James Reilly, 1475 First avenue...	14,782 90
" 29	Sewer in Eighth avenue, between One Hundred and Fourteenth and One Hundred and Sixteenth streets...	Michael Egan, 311 East 83d street..	James J. Jones, 430 East 80th street.. D. W. Moran, 349 East 72d street..	3,115 00	" 15	Paving Ninth street, between Avenues B and D, with trap-block pavement.....	John White, 536 West 40th street.	Samuel Booth, 550 West 36th street. P. H. Fitzgerald, 534 West 35th street.	8,602 00
" 10	Receiving-basins on east side Ninth avenue, opposite Seventy-eighth, Seventy-ninth and Eightieth streets, and alterations and improvements to basins on northeast corner Seventy-seventh street and southeast corner Eighty-first street and Ninth avenue.....	Bernard Mahon, 105 West 124th street	Maurice B. Flynn, 543 Madison avenue. Charles H. Field, 957 Madison avenue.	2,290 00	<i>Laying Water-mains.</i>				
				\$82,278 08	Oct. 13	Laying water-mains in One Hundred and Forty-sixth, Bridge, One Hundred and Fortieth, Ninety-fourth, One Hundred and Twenty-eighth, One Hundred and Thirtieth, and One Hundred and Forty-fifth streets, and in Lind, Anderson, Marcher, Claremont, etc., avenues.....	Morton & Fay, 308 East 52d street..	James Fay, 308 East 52d street.. Thomas Roche, 339 East 47th street.	\$10,349 00
					" 15	Laying 36-inch waste-weir in the City of New York, through the lands late of Van Courtland Estate, from Croton Aqueduct to Tibbit's brook.....	Bernard Mahon, 105 West 124th street.	Maurice B. Flynn, 543 Madison avenue. Chas. H. Field, 957 Madison avenue.	8,565 80
					<i>Miscellaneous Contracts.</i>				
Oct. 20	Regulating and grading One Hundred and Seventeenth street, from Sixth to Seventh avenue, and setting curb and gutter stones and flagging sidewalks six feet wide therein..	J. W. & J. Phelan, 205 West 124th street	Herman Clark, 2066 Fifth avenue... Theodore F. Tone, 130th st. and N. R...	\$6,830 79	Oct. 14	Furnishing materials and performing work in the putting up of eleven new ventilators, and painting and repairing roof of new County Court-house.....	John Flanagan, 392 Fourth avenue..	Thomas Smith, 1628 Lexington ave.. Thos. Daly, 451 Fourth avenue..	\$1,475 00
" 20	Regulating and grading Ninety-fourth street, from Second to Third avenue, and setting curb-stones and flagging sidewalks therein....	J. W. & J. Phelan, 205 West 124th street	Herman Clark, 2066 Fifth avenue... Theodore F. Tone, 130th st. and N. R...	3,026 10	" 21	Furnishing 1,200 gross tons of broken size Lehigh and Wilkesbarre Co.'s best coal, and 25 tons of English cannon coal.....	Henry E. Bownes, 111 Broadway.....	E. A. Packard, 6 East 84th street... David B. Duncan, 111 Broadway.....	6,177 25
" 31	Regulating and grading One Hundred and Twentieth street, from Eighth to Ninth avenue, and setting curb-stones and flagging sidewalks therein.....	Thomas Murray, 130th st. and 10th ave.	Theodore F. Tone, 130th st. and N. R... John Becker, 130th st. and N. R...	2,633 12	<i>Gas Contracts.</i>				
" 31	Regulating and grading One Hundred and Twenty-sixth street, from First to Second avenue, and setting curb-stones and flagging sidewalks therein.....	Dennis W. Moran, 349 East 72d street..	Michael McGrath, 231 East 79th street.. Peter Neary, 438 East 82d street..	2,698 66	Dec. 13	Furnishing gas for and lighting the public markets, armories, buildings and offices of the City of New York, for the period from January 1, 1885, to December 31, 1885, inclusive.....	Equitable Gas-light Co. of New York City, 340 Third avenue.	Chas. C. Benedict, 10 West 51st street.. John Fox, 68 Wall street.....	\$8,000 00
Nov. 19	Regulating and grading One Hundred and Twenty-sixth street, between Tenth avenue and Boulevard, and setting curb-stones and flagging sidewalks therein.....	Thomas Murray, 130th st. and 10th ave.	Theodore F. Tone, 130th st. and N. R... John Becker, 10th ave. & Manh'n st.	7,330 10	" 23	Furnishing gas for and lighting the public markets, armories, buildings and offices of the City of New York, from January 1 to December 31, 1885, inclusive.....	Consolidated Gas Co. of New York City.....	Percy R. Pyne, 25 East 22d street... Samuel Sloan, 7 East 38th street...	30,000 00
" 28	Regulating and grading Ninety-first street, from Third to Fourth avenue, and setting curb-stones and flagging sidewalks therein.....	James W. Phelan, 205 West 124th street	Theodore F. Tone, 130th st. and N. R... John J. Fowler, 251 West 124th street	1,743 65	<i>Special Contracts.</i>				
Dec. 10	Regulating and grading One Hundred and Fourth street, from Boulevard to Riverside Drive, and setting curb-stones and flagging sidewalks therein.....	Bernard Mahon, 105 West 124th street	Maurice B. Flynn, 543 Madison avenue. Chas. H. Field, 957 Madison avenue.	9,011 10	Oct. 1	Receiving-basin on northeast corner Beaver and William streets.....	J. D. Nutt, 34 John street.....		\$325 50
" 16	Regulating and grading Ninety-fourth street, from the Boulevard to the east line of Riverside Drive, and setting curb-stones and flagging sidewalks therein....	Thomas O'Maley, 162d st. and 10th ave.	Wm. Hullivan, 347 West 53d street. Moses Mehrbach, 433 Grand street...	33,311 60	" 7	Receiving-basin on southwest corner One Hundred and Twenty-third street and Fourth avenue.....	John S. Masterson, 110 West 131st street...		582 00
" 16	Regulating and grading Ninety-ninth street, from Eleventh avenue to the east line of Riverside Drive, and setting curb-stones and flagging sidewalks therein.....	Virgilio Del Genovese, 278 Bowery.....	Moses Mehrbach, 433 Grand street... A. Cleveland, 138 Bowery.....	8,964 90	Nov. 20	Fencing vacant lots Nos. 114 and 116 East One Hundred and Twenty-third street.....	Patrick Larney, 325 East 38th street...		21 50
" 16	Regulating and grading West End avenue, from Seventy-second street to its junction with the Boulevard, except between Ninety-fourth and Ninety-sixth streets, and setting curb-stones and flagging sidewalks therein.....	Thomas O'Maley, 162d st. and 10th ave.	Wm. Hullivan, 347 West 53d street. Moses Mehrbach, 433 Grand street...	98,782 38	" 20	Fencing vacant lots on northwest corner Lexington avenue and Eighty-seventh street.....	Patrick Larney, 325 East 38th street...		46 05
" 16	Regulating and grading Fort Washington Ridge road, from its junction with Eleventh avenue at One Hundred and Fifty-ninth street to its junction with Kingsbridge road, between One Hundred and Ninety-second and One Hundred and Ninety-fourth streets, and between One Hundred and Ninety-eighth and Two Hundredth streets, providing tree-spaces and planting elm trees.....	Allen & O'Maley, 162d st. and 10th ave.	Wm. Hullivan, 347 West 53d street. Moses Mehrbach, 433 Grand street...	130,161 70	<i>RECAPITULATION.</i>				
" 27	Regulating and grading One Hundred and Forty-first street, from Tenth avenue to Diagonal avenue, and setting curb-stones and flagging sidewalks therein.....	Thomas Murray, 130th st. and 10th ave.	Theodore F. Tone, 130th st. and N. R... Bernard Mahon, 105 West 124th street.	1,204 52	16 Sewer Contracts.....				\$82,278 08
					15 Regulating and Grading Contracts.....				311,638 37
					9 Paving Contracts.....				53,508 58
					3 Paving Contracts (under chapter 476, Laws of 1875).....				40,535 90
					2 Laying Water-main Contracts.....				18,914 80
					2 Gas Contracts.....				38,000 00
					2 Miscellaneous Contracts.....				7,652 25
					4 Special Contracts amounting to less than \$1,000 each.....				975 05
									\$553,503 03

Contracts Completed during the Three Months ending December 31, 1884.

DATE.	NATURE AND LOCATION OF WORK.	COST.
1884.		
Oct. 4	Fencing vacant lots on the northeast corner of One Hundred and Twenty-second street and Fourth avenue.....	\$122 90
" 18	Sewers in One Hundred and Twentieth and One Hundred and Twenty-first streets, between Seventh avenue and Avenue St. Nicholas.....	6,651 39
" 9	Sewer in Eighty-ninth street, between Eighth and Ninth avenues.....	6,810 75
" 11	Sewer in West End avenue, formerly Eleventh avenue, between Sixty-fifth and Sixty-sixth streets, and in Sixty-fifth street, between West End and Tenth avenues.....	18,929 40
" 18	Sewer in One Hundred and Thirty-fourth street, between Seventh avenue and summit west of Seventh avenue.....	1,256 18
" 18	Paving One Hundred and Thirty-first street, from Seventh to Eighth avenue, with trap-block pavement.....	6,881 13
" 18	Paving Sixty-ninth street, from Ninth to Eleventh avenue, with granite-block pavement.....	12,507 26
" 18	Laying crosswalks across Sixty-ninth street, and on the westerly side of Ninth avenue, and on the easterly and westerly sides of the Boulevard, and on the easterly side of Eleventh avenue.....	492 76
" 18	Regulating, grading, etc., One Hundred and Thirty-fifth street, from St. Nicholas to Eighth avenue.....	7,814 70
" 18	Fencing vacant lots on the southwest corner of Fourth avenue and Eightieth street.....	114 01
" 20	Fencing vacant lots on the corner of New Chambers and Chestnut streets.....	38 84
" 20	Paving One Hundred and Twenty-third street, from Third to Madison avenue, with granite-block pavement.....	11,647 25
" 20	Regulating, grading, etc., One Hundred and First street, from Fourth to Fifth avenue.....	17,025 93
" 20	Sewers in One Hundred and Twelfth, One Hundred and Thirteenth and One Hundred and Fourteenth streets, between Eighth avenue and new avenue west of Eighth avenue.....	4,552 85
" 21	Receiving-basins on southwest corners of Seventieth, Seventy-first, and Seventy-second streets and Boulevard, at the junction of Boulevard and Tenth avenue, at Seventy-second street and north of Seventieth street and on southwest corner of Seventy-third street and Tenth avenue.....	1,567 31
" 31	Fencing vacant lots on the block bounded by Eighth avenue, St. Nicholas avenue, One Hundred and Twenty-sixth and One Hundred and Twenty-seventh streets.....	231 22
" 31	Flagging sidewalks on the south side of Fifty-seventh street, between Madison and Fifth avenues.....	201 95
" 31	Regulating, grading, etc., Ninety-fifth street, from Ninth to Tenth avenue.....	8,063 62
" 31	Regulating, grading, etc., One Hundred and Seventeenth street, from Fourth to Fifth avenue.....	40,848 30
" 31	Regulating, grading, etc., One Hundred and Twenty-second street, from Fourth avenue to Madison avenue.....	17,747 72
Nov. 24	Sewer in One Hundred and First street, between Ninth avenue and Manhattan avenue.....	1,609 30
" 24	Sewer in One Hundred and Twentieth street, between Sixth and Seventh avenues.....	2,575 15
" 24	Flagging east side Eleventh avenue, between Thirty-eighth and Fortieth streets.....	731 49
" 24	Fencing vacant lots on west side Boulevard, from One Hundred and Twenty-eighth to One Hundred and Thirty-fourth street.....	430 56
Dec. 2	Sewer in One Hundred and Twenty-third street, between Ninth and Manhattan avenues.....	1,621 13
" 2	Sewers in One Hundred and Forty-seventh street, between Eighth avenue and first new avenue west of Eighth avenue, with branches in New avenue, between One Hundred and Forty-fifth and One Hundred and Fifty-first streets.....	15,582 35
" 12	Regulating, grading, etc., Ninety-eighth street, from the west line of Fourth avenue to the east curb-line of Fifth avenue.....	6,346 91
" 12	Regulating, grading, etc., One Hundredth street, from Fourth to Fifth avenue.....	11,597 37
" 12	Regulating, grading, etc., One Hundred and Fifty-first street, from Avenue St. Nicholas to the east line of Boulevard.....	7,040 55
" 12	Sewer in Eleventh avenue, east side, between One Hundred and Fifty-seventh and One Hundred and Fifty-ninth street, with branch in One Hundred and Fifty-ninth street, between Tenth and Eleventh avenues.....	18,585 81
" 15	Paving One Hundred and Eighth street, from Second to Third avenue, with granite-block pavement, with a foundation of broken stone.....	5,637 94
" 15	Paving Eighty-first street, from the Boulevard to the Riverside Drive, with trap-block pavement.....	6,735 53
" 15	Receiving-basin on the northeast corner of Beaver and William streets.....	352 00
" 15	Sewers in West End avenue, formerly Eleventh avenue, between Seventy-sixth and Eighty-ninth streets, and in Eightieth street, between Boulevard and Riverside avenue.....	80,549 60
" 20	Fencing vacant lots on northwest corner of Lexington avenue and Eighty-seventh street.....	58 48
" 20	Fencing vacant lots at Nos. 114 and 116 East Twenty-third street.....	24 38
" 20	Flagging with an additional course of flagging, four feet wide, east side of the Boulevard, from Sixty-seventh to Seventy-fifth street.....	1,319 56
" 20	Regulating, grading, etc., One Hundred and Sixty-fifth street, from Tenth to Eleventh avenue.....	10,522 50
" 20	Paving Eighth street, from Madison to Fourth avenue, with trap-block pavement.....	2,789 02

DATE.	NATURE AND LOCATION OF WORK.	COST.
1884.		
Dec. 20	Paving Eighty-first street, from First avenue to Avenue A, with granite-block pavement ...	\$5,498 49
" 16	Regulating, grading, etc., One Hundred and Forty-fourth street, from Seventh avenue to the first new avenue west of Eighth avenue, etc.....	12,943 24
" 26	Regulating, grading, etc., One Hundred and Twentieth street, from Eighth to Ninth avenue, etc.....	2,860 09
" 26	Paving One Hundred and Eleventh street, from Seventh avenue to Avenue St. Nicholas, with granite-block pavement.....	6,283 62
" 26	Extension of sewer at foot of Forty-seventh street, East river.....	875 68
" 27	Sewer in Beekman place, between Forty-ninth and Fifty-first streets.....	3,614 40
" 27	Sewer in Beekman place, from 150 to 170 feet 10 inches south of Fiftyth street.....	224 72
" 29	Regulating, grading, etc., One Hundred and Twenty-sixth street, from First avenue to Second avenue.....	2,884 83
Oct. 1	Paving Clark street, from Broome to Sprung street; Minetta street, from Minetta lane to Bleeker street; Minetta lane, from Macdougall to Carmine street; and Leroy street, from Bleeker to Hudson street, with trap-block pavement.....	12,917 31
" 1	Paving Avenue A, from Seventh to Fourteenth street, with granite-block pavement.....	19,517 01
" 10	Paving Forty-ninth street, from Eighth to Ninth avenue, and Forty-ninth street, from Tenth to Eleventh avenue, with trap-block pavement.....	10,249 04
" 16	Paving Twentieth street, from Seventh to Ninth avenue, with trap-block pavement.....	9,970 44
" 17	Paving Fifty-seventh street, from Madison to Fourth avenue, with trap-block pavement.....	4,300 47
" 17	Paving Ninth street, from First to Second avenue, and Forty-first street, from Second to Third avenue, with trap-block pavement.....	8,098 78
" 28	Paving Twelfth street, from Avenue C to Avenue D, with trap-block pavement.....	4,509 32
" 30	Paving Allen street, from Grand to Division street, and Suffolk street, from Stanton to Houston street, with trap-block pavement.....	9,972 79
Dec. 3	Paving Division street, from Norfolk to Grand street, and Twenty-sixth street, between Sixth and Seventh avenues, with trap-block pavement.....	16,823 75
" 4	Paving Houston street, from Bowery to North river (except from Washington street to North river), with granite-block pavement.....	34,114 85
" 9	Paving Rivington street, between Clinton street and East river, with trap-block pavement.....	16,075 01
" 11	Paving Fifth avenue, from northerly crosswalk of Thirty-third street to the southerly crosswalk of Thirty-seventh street, with granite-block pavement.....	17,305 15
" 11	Paving Water street, between Clinton and Corlears streets, with trap-block pavement.....	14,644 65
" 11	Paving Thirty-second street, from Ninth to Eleventh avenue, with trap-block pavement.....	8,602 70
" 20	Paving Ninth street, between Avenues B and D, with trap-block pavement.....	8,502 38
" 20	Paving Sixth street, from Avenue B to Lewis street, and Stanton street, from Columbia to Clinton street, with trap-block pavement.....	22,109 59
Oct. 2	Furnishing and delivering 1 3/8-inch stop-cock and 2 flange-pipes.....	1,590 00
" 24	Furnishing and laying a 48-inch cast iron conduit-pipe, from Hartsdale and Scarsdale to between Tuckahoe and Bronxville.....	491,045 00
" 28	Furnishing and delivering cast-iron water-pipes, branches and special castings.....	2,719 04
" 29	Furnishing material and performing work in making and putting in place 30 double window-frames in Brown-stone building.....	1,368 00
Nov. 24	Furnishing and delivering tapping-cocks, tapping-cock boxes, hydrants, etc.....	8,715 00
" 25	Furnishing materials and performing work in erection of an iron awning around Jefferson Market.....	2,340 00
Dec. 1	Furnishing and delivering composition stops, cast-iron extension boxes, etc.....	6,697 21
" 8	Furnishing materials and performing work in the alteration of the Essex Market Police Court building.....	7,465 00
" 11	Furnishing and delivering 7,000 cubic yards of sand.....	5,660 50
" 15	Laying water-mains in West street, between Battery place and West Eleventh street, and in South street, between Whitehall and Jacks-n streets.....	19,046 81
" 15	Furnishing materials and painting roof of New County Court-house.....	1,475 00
" 15	Furnishing materials and apparatus, and performing work for the heating by steam of the rooms and offices in City Hall building.....	5,498 00
		\$1,143,803 37

## RECAPITULATION.

15 Sewer Contracts.....	\$165,006 34
12 Regulating and Grading Contracts.....	145,695 76
9 Paving Contracts.....	58,473 00
16 Paving Contracts (under chapter 476, Laws of 1875).....	217,713 24
2 Laying Croton-pipe Contracts.....	510,091 91
10 Miscellaneous Contracts.....	43,197 75
11 Special Contracts, amounting to less than \$1,000 each.....	3,625 39
75 Contracts.....	\$1,143,803 37

## Document "D."

DEPARTMENT OF PUBLIC WORKS,  
OFFICE OF CHIEF ENGINEER, No. 31 CHAMBERS STREET, ROOM 10,  
NEW YORK, January 7, 1885.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—In accordance with your instructions, I herewith submit report for the quarter ending December 31, 1884, and a summary for the year 1884.

## QUARTER ENDING DECEMBER 31, 1884.

Aqueduct—Repairs, Maintenance and Strengthening.....	\$80,609 40
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	6,117 24
Croton Water Fund.....	199,966 60
Contingencies—Department of Public Works.....	2,699 65
Forty-second Street Reservoir—Reconnections.....	303 32
Laying Croton Pipes.....	58,062 75
Laying Croton Pipes—Salaries.....	1,951 88
Repairing and Renewal of Pipes, Stop-cocks, etc.....	26,204 98
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	18,286 32
Water Supply to Shipping and Building—Salaries.....	2,550 50
Water Supply for the Twenty-fourth Ward.....	3,006 57
Water Supply for the Twenty-fourth Ward—Salaries.....	204 00
Water Meter Fund, No. 2.....	8,956 44
	\$408,919 65

## SUMMARY—YEAR 1884.

Aqueduct—Repairs, Maintenance and Strengthening.....	\$236,321 71
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	22,621 06
Croton Water Fund.....	906,260 11
Contingencies—Department of Public Works.....	3,079 38
Furnishing Pipe to North Brother Island.....	8,490 09
Forty-second Street Reservoir—Reconnections.....	1,866 56
Laying Croton Pipes.....	154,308 65
Laying Croton Pipes—Salaries.....	11,676 38
Repairing and Renewal of Pipes, Stop-cocks, etc.....	51,558 26
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	54,899 95
Supplying Water to Shipping, etc.—Salaries.....	10,499 50
Water Supply for the Twenty-fourth Ward.....	7,858 05
Water Supply for the Twenty-fourth Ward—Salaries.....	765 00
Water Meter Fund, No. 2.....	32,442 27
Total.....	\$1,502,647 00

## Contracts Made, Completed, and Unfinished, 1884.

WORK.	CONTRACTOR.	DATE OF CONTRACT.	COST, ESTIMATED.	DATE OF FINAL ESTIMATE.	AMOUNT OF FINAL ESTIMATE.	AMOUNT PAID, 1884.
Building reservoir at Kensico.....	George W. Flower.....	Aug. 31, 1880	\$199,568 00			\$52,733 63
Furnishing and laying 48-inch conduit pipe, Woodlawn to Bronxville.....	H. Stollmyer.....	Dec. 10, "	260,657 50	Jan. 12, 1883	\$293,201 50	14,660 08
Laying mains in Jerome avenue, between Williamsbridge road and Croton Aqueduct.....	Ed. Bradburn.....	Sept. 12, 1881	19,452 40	April 23, 1884	16,737 65	1,869 13
Furnishing and laying 48-inch conduit pipe between Kensico and Hartsdale.....	R. D. Wood & Co.....	" 14, "	484,457 00	Aug. 1, 1883	515,126 87	25,756 34
Furnishing and laying 48-inch conduit pipe from Hartsdale to Tuckahoe.....	Thomas E. Crimmins.....	May 27, 1882	465,162 00	Oct. 1, 1884	491,045 16	130,704 57
Building reservoir at Rye Ponds.....	L. S. Hendrick.....	Oct. 28, "	35,914 40			13,697 96
Furnishing and laying 48-inch and 36-inch conduit pipe, Woodlawn to Williamsbridge.....	James Baird.....	Jan. 6, 1883	297,999 00	Dec. 29, 1883	12,069 24	160,124 51
Laying mains in One Hundred and Forty-ninth street, etc.....	A. Forsyth.....	June 5, "	15,261 00	Dec. 29, 1883	31,352 50	603 46
Furnishing, delivering and laying 6-inch and 4-inch pipes to North Brother Island.....	William F. Croft.....	July 3, "	30,910 25	Jan. 17, 1884	8,490 09	8,490 09
Furnishing coal at High Bridge and Ninety-eighth street.....	Samuel G. French.....	Oct. 22, "	7,884 60	Mar. 20, "	8,304 09	3,611 50
Furnishing cast-iron pipe, etc.....	Camden Iron Works.....	Mar. 26, 1884	1,816 65	Aug. 15, "	1,563 24	1,563 24
"	"	" 26, "	8,630 00	" 15, "	8,708 16	8,708 16
"	"	" 26, "	2,919 00	Dec. 3, "	2,719 04	1,919 00
"	"	" 26, "	68,940 00			51,996 80
"	M. J. Drummond.....	Aug. 5, "	16,856 02			10,538 27
"	Warren Foundry and Machine Co.....	Sept. 9, "	10,428 00			7,327 64
"	Charles C. Field.....	Jan. 18, "	4,417 50	Mar. 27, 1884	4,417 50	4,417 50
"	George D. Lord.....	Mar. 21, "	27,516 50			13,877 33
"	James A. Branegan.....	" 26, "	8,715 00	Nov. 22, 1884	8,715 00	8,715 00
"	Cornwell & Borstman.....	May 12, "	19,833 50	Dec. 13, "	19,046 81	18,094 47
"	Joseph K. Wells.....	April 9, "	17,764 00			6,208 27
"	Charles C. Field.....	May 17, "	10,943 10	Sept. 20, 1884	10,943 10	10,943 10
"	"	Aug. 29, "	7,661 00			5,915 03
"	James A. Branegan.....	Oct. 14, "	4,590 00			3,698 32
"	Julius Jonson.....	June 2, "	3,250 00	Aug. 23, 1884	3,250 00	3,250 00
"	Charles C. Field.....	July 19, "	1,590 00	Oct. 2, "	1,590 00	1,590 00
"	"	Aug. 29, "	6,944 00	Dec. 1, "	6,997 21	6,997 21
"	Sullivan & Moore.....	June 6, "	457,775 00			13,349 00
"	Cornwell & Borstman.....	July 15, "	3,810 51			7,650 00
"	Wheeler H. Bristol.....	Sept. 8, "	10,000 00			820 33
"	Morton & Fay.....	Oct. 13, "	10,349 00			
"	Bernard Mahon.....	" 15, "	8,595 80			

*Lands Acquired for Bronx River Supply in 1884.*

*Storage Drawn.*

	Storage Drawn.	During Quarter.	During Year.
Boyd's Corners Reservoir, gallons.....		280,000,000	760,000,000
South East Reservoir, gallons.....		460,000,000	830,000,000
Kirk Lake, gallons.....		120,000,000	280,000,000
Lake Mahopac, gallons.....			100,000,000
Lake Gilead, gallons.....			30,000,000
Lake Gleneida, gallons.....			40,000,000

Total gallons drawn.....	2,040,000,000
--------------------------	---------------

*Amount Expended to December 31, 1884.*

	OCTOBER.	NOVEMBER.	DECEMBER.	QUARTER.	YEAR.
Boyd's Corners Reservoir .....	3.74	4.37	7.34	15.45	53.71
Southeast Reservoir.....	3.35	3.86	5.93	13.14	50.15
Kensico Reservoir.....	3.13	3.61	6.55	13.29	52.56
Croton Dam.....	2.62	4.03	6.58	13.23	59.94
Central Park Reservoir.....	4.12	4.03	6.39	14.54	50.96

*Rain-fall at Storage Reservoir, Boyd's Corners, Putnam County, N. Y., including Melted Snow.*

MONTH.	1866.	1867.	1868.	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.
January .	3.33	2.11	2.90	3.79	4.51	3.80	1.44	5.66	6.96	2.74	1.42	2.68	4.49	2.52	4.00	4.19	4.41	2.80	5.07
February	3.66	3.00	1.38	3.64	6.40	3.81	1.22	3.09	2.78	3.47	4.91	0.80	3.65	2.85	2.92	5.28	5.96	5.21	6.31
March....	3.33	1.49	2.55	5.48	3.80	4.27	2.59	3.08	1.57	4.99	6.33	7.66	3.10	4.96	4.51	6.14	4.58	1.67	4.82
April....	3.79	3.74	3.87	2.11	5.45	3.01	3.04	3.77	6.31	3.04	4.43	2.35	2.85	5.10	3.99	1.67	1.36	3.94	2.96
May.....	5.62	6.86	8.79	4.52	2.30	3.45	3.69	2.91	1.99	1.08	3.99	0.85	4.97	2.45	1.17	3.74	6.30	2.86	4.33
June.....	4.45	5.28	4.53	3.59	2.06	5.73	4.00	0.71	3.57	3.02	2.52	4.95	4.65	5.29	1.28	5.72	3.04	5.64	2.04
July.....	4.01	5.25	2.13	2.26	3.43	5.07	4.34	2.21	5.98	3.10	3.42	4.65	4.28	5.95	5.65	2.45	3.63	4.26	6.54
August..	6.56	10.04	6.98	1.92	5.10	5.24	5.99	5.73	2.75	10.33	1.20	2.54	2.66	5.83	3.60	1.71	3.92	2.09	4.50
Septem'r	4.92	3.62	9.33	3.20	2.85	1.44	3.69	3.73	3.56	2.11	5.21	1.49	6.61	3.43	2.69	0.75	14.33	2.45	1.69
October..	5.09	3.66	0.87	9.46	4.73	6.18	2.15	5.13	2.40	3.61	1.50	8.38	3.78	0.95	3.25	3.65	3.33	6.99	3.74
Novem'r.	3.80	3.10	4.65	2.43	2.51	4.35	4.91	3.72	2.72	4.61	3.40	8.16	4.36	2.49	2.97	4.50	1.66	1.79	4.37
Decem'r.	3.27	2.62	2.35	5.96	1.49	2.59	3.68	4.13	1.78	1.56	2.35	1.52	8.74	4.26	2.49	6.53	2.68	3.45	7.34
Total..	51.77	50.77	50.33	48.36	44.63	48.94	40.74	43.87	42.37	43.66	40.68	46.03	54.14	46.08	38.52	46.33	55.20	43.15	53.71

## BYRAM RIVER SUPPLY.

The Commissioners appointed to appraise damages along the Bronx river, from Kensico to White Plains, have closed their testimony and will report as to same in a short time.

A Commission has been appointed to appraise the damages along the Bronx river, from White Plains to Bronxville.

The Counsel to the Corporation and a party of Engineers are now at work preparing for the submission to a Commission of the lands and damages along the Bronx river, from Bronxville to Long Island Sound, for and on account of the diversion of the upper waters of the Bronx.

The contract for furnishing, delivering and laying conduit pipe, between Hartsdale and Tuckahoe, has been completed.

All of the other contracts are nearly done, except that of the Williamsbridge reservoir, which has been behind during the year.

*Work Done on the Bronx River Supply during Quarter ending December 31, 1884, and for 1884.*

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	

	Contract—Moore & Sullivan, for Williamsbridge Reservoir.	Contract—James Baird, Williamsbridge road to Wood-lawn.	Contract—Thomas E. Crimmins, Tuckahoe to Hartsdale.	Contract—George W. Flower, Kensico Reservoir.	Contract—L. S. Hendrick, Rye Ponds Reservoir.	Total for Quarter.	Total for Year.
Grubbing and cleaning, acres.....					120	120	120
Rock excavation, cubic yards.....	40	370	435	100	30	975	16,539
Earth excavation, ".....		900	1,437	220	475	3,032	42,062
Embankment, ".....		6,200	2,080	6,000		14,280	164,038
Straight pipe delivered, tons.....			5			5	3,874
Special castings delivered, tons.....							67
48-inch pipe laid, lineal feet.....		500				500	7,913
36-inch pipe laid, ".....		840				840	8,450
12-inch pipe laid, ".....		180				180	597
6-inch pipe laid, ".....		50				50	1,549
48-inch stop-cocks set, number.....							1
36-inch stop-cocks set, ".....		3				3	7
12-inch stop-cocks set, ".....							2
6-inch stop-cocks set, ".....							6
Blow-offs set, ".....		1				1	2
Hydrants set, ".....		1				1	7
White pine, chestnut and hemlock, feet, B. M.....		{ 1,000 7,000	{ 6,428 22,152	{ 1,291 2,630	{ ..... 40,501		168,751
Cut stone masonry, cubic yards.....		44	33	6	2	93	427
Coursed stone masonry, cubic yards.....		80				80	135
Stone masonry, ".....	718	316		250	5	1,289	5,939
Brick masonry, ".....		35	1			36	165
Concrete masonry, ".....	323	115	2			440	639
Dry stone wall, ".....		1,800	268	6,335	115	8,518	18,889
Fence wall, lineal feet.....				550	3,198	3,748	4,795
Wrought iron, pounds.....			4,271	20	395	4,686	13,377
Cast-iron, pounds.....				2,470		2,470	2,470
Sodding, square yards.....		240		3,500		3,500	3,500

PARCEL NO.	NAME OF OWNER.	ACRES.	AMOUNT PAID.	REMARKS.
103 and 105	The Woodlawn Cemetery .....	3.718	\$36,953 32	By Commission.
110	Butzel, Curtis & Varian .....	13.242	66,001 90	"
114	M. Varian and others.....	0.870	390 69	"
109	J. Bussing, Jr., and others.....	10.450	54,310 46	"
115	Twenty-fourth Ward Real Estate Assurance....	0.101	494 87	"
	Board of Supervisors, Town of Mount Pleasant...	Damage to roads around Ken-ico Reservoir.	2,500 00	"
	Board of Supervisors, Town of North Castle....		105 00	"

	1880 AND 1881.	1882.	1883.	1884.
Labor and materials.....	\$253,721 75	\$664,776 00	\$694,403 00	\$438,126 59
Land and expenses.....	129,581 00	128,306 00	127,281 00	178,968 15
Engineering and inspection.....	31,200 00	50,000 00	54,000 00	53,000 00
Totals.....	\$414,502 75	\$843,082 00	\$875,684 00	\$670,094 74
Total to date.....		\$2,803,363 49		

*Amount of Water Supplied to the City from the Bronx river.*

September 9 to 11.....	2 days, at 5,000,000 gallons per day.....	10,000,000
“ 11 to 13.....	2 “ 10,000,000 “.....	20,000,000
“ 13 to November 3...51	“ 14,000,000 “.....	710,000,000
November 3 to December 31..58	“ 10,000,000 “.....	580,000,000
Total gallons .....		1,320,000,000

Total gallons .....	1,320,000,000
---------------------	---------------

Surveys and searches of titles of the lands along the Byram river to be affected by the diversion of the water at the Connecticut State line have been continued and are nearly completed.

The immediate settlement of the damages that will be sustained by the parties on the lower part of the river and in the State of Connecticut is necessary so that the purchase of the land required and the work of diverting the waters of the Byram into the Bronx can be commenced.

*Report for the Quarter ending December 31, 1884.*

	Earth Excavated.	Stone Quarried.	Stone Cut.	Cut Stone Masonry.	Rubble Masonry.	Dry Masonry.	Brick Masonry.	Aqueduct Arching.	Fence Built.	Fence Repaired.	Drain Pipe.	Carpenter Work.	Cement Flooring.	Ploughing and Grading.	Fertilizing.
	Cubic Yds.	Cubic Yds.	Cubic Feet.	Cubic Feet.	Cubic Yds.	Cubic Yds.	Cu. Yds.	Lineal Feet.	Lineal Feet.	Lineal Feet.	Lineal Feet.	Feet, B. M.	Sq. Feet.	Sq. Yds.	Acres.
1st Division.	....	....	....	....	....	....	..	....	....	....	....	....	....	....	....
2d "	120	....	....	....	....	16	..	150	....	1,000	....	....	....	....	....
3d "	150	75	5	5	32	8	11	....	....	300	....	....	....	....	....
4th "	400	....	....	....	2	60	14	....	....	400	306	....	....	....	....
5th "	500	....	....	....	90	....	2	....	1,300	....	30	....	....	900	6
6th "	150	250	....	....	....	310	..	....	....	....	....	....	....	....	....
7th "	....	....	900	1,440	....	....	..	....	....	1,000	....	8,000	130	....	....
8th "	....	....	....	....	....	....	..	....	500	....	....	2,000	....	....	....
Totals..	1,320	335	905	1,445	124	394	27	150	1,800	2,700	336	10,000	130	900	6

Besides the work always necessary in maintaining drains, watching and treating leaks, and the care of gate-houses and machinery, the work of the season has been removing leaves and clearing the walks of ice and snow. The particular work on the divisions has been as follows :

Second Division—Unloading and re-arching at Quaker Bridge.

Fourth Division—Wall on Geissner property; drain-pipe for Dobb's Ferry leak; repairing wall

Fourth Division—wall on Geissner property; drain-pipe for Dobb's Ferry leak; repairing wall of Appleton's bank.

Sixth Division—Wall at O'Brien's bank : small wall in gate-house lot.

Sixth Division—Wall at O'Brien's bank; small wall in gate-house lot.

Eighth Division—New fence around old reservoir in Central Park.

*Report for the Year 1884.*

*Report for the Year 1884.*

	Earth Excavated.	Stone Quarried.	Stone Cut.	Cut Stone Masonry.	Rubble Masonry.	Dry Masonry.	Irreg Masonry.	Concrete.	Aqueduct Arching.	Fence Built.	Fence Repaired.	Carpenter Work.	Drain Pipe.	Cement Flooring.	Macadam Roadway Built.	Grading and Spalling.	Fertilizing.
	Cubic Yds.	Cubic Yds.	Cubic Feet.	Cubic Feet.	Cu. Yds.	Cubic Yds.	Cu. Yds.	Cu. Yds.	Lin. Ft.	Lineal Feet.	Lineal Feet.	Feet. B. M.	Lin. Ft.	Sq. Ft.	Lin. Ft.	Sq. Yds.	Acres.
1st Quarter.	1,520	898	....	....	18	804	5	...	...	903	1,172	....	...	...	...	....	....
2d "	6,450	910	810	540	12	905	18	32	...	3,220	....	....	160	...	...	400	....
3d "	2,240	900	2,000	2,500	200	1,110	62	220	75	2,330	5,000	....	...	...	160	9,680	....
4th "	1,320	325	905	1,445	124	394	27	...	150	1,800	2,700	10,000	336	130	...	500	6
Totals..	11,530	3,033	3,715	4,485	354	3,213	112	252	225	8,253	8,872	10,000	496	130	160	10,580	6

The regular maintenance of all the divisions has comprised patrolling the line, checking leaks, caring for gate-houses and machinery, repairing highways, crossings, cleaning drains and gutters, cutting and gathering the grass, destroying weeds and brush, removing leaves, clearing sidewalk crossings of ice and snow, painting telephone poles and building curve monuments. The special work has been as follows :

First Division—Pointing curtain walls below dam and bridge.

Second Division—Repairs to Sing Sing prison conduit; completion of gate-house adjacent to Kill Bridge; 225 lineal feet of re-arch-ing in the neighborhood of Quaker Bridge.

Third Division—100 feet of wall near keeper's house ; new gate-house for waste-pipe ; 200 feet

Fourth Division—20-inch drain-pipe for Dobb's Ferry leak: repairs to wall at Appleton's bank.

Fourth Division—20-inch drain-pipe for Dobb's Ferry leak; repairs to wall at Appleton's bank; 250 feet of wall on Minturn property; 50 feet of wall on Geissner property.

Fifth Division—200 feet of wall at Rowley's; 50 feet of wall in glen; completion of barn; engine-house crossing.

Sixth Division—Wall at O'Brien's bank; wall south of O'Brien's bank; wall north of gate-house.

Seventh Division—High Bridge steps; painting iron work of High Bridge; repairs to coal dock; platforms for diamond drill in Harlem river.

Eighth Division—Painting iron-work; new fence about old reservoir; repairs to Fortieth street greenhouse; care of street mains and stop-cocks.

## HIGH BRIDGE, 1884.

## Performance of High Service Pumping Engines at High Bridge, for the Year 1884.

NUMBER OF DAYS PUMPING.	NUMBER OF STROKES.	HEIGHT PUMPED, FEET.	NUMBER OF GALLONS PUMPED.	POUNDS OF COAL CONSUMED.	GALLONS OF OIL EXPENDED.	POUNDS OF WASTE EXPENDED.
365	22,909,756	100	1,615,140,618	2,886,830	500	250
Average per month..	1,909,643	100	134,595,052	240,570	...	....

Average cost of pumping 1,000,000 gallons 100 feet high, \$7.74.  
Average duty, 46,625,800 pounds raised one foot with 100 pounds coal.  
Average amount pumped daily, 4,425,043 gallons.

## NINETY-EIGHTH STREET, 1884.

## Performance of High Service Pumping Engines at Ninety-eighth Street Engine-house, for the Year 1884.

NUMBER OF DAYS PUMPING.	NUMBER OF STROKES.	HEIGHT PUMPED, FEET.	NUMBER OF GALLONS PUMPED.	POUNDS OF COAL CONSUMED.	GALLONS OF OIL EXPENDED.	POUNDS OF WASTE EXPENDED.
365	25,045,084	74	2,729,914,156	3,299,382	420	185
Average per month..	2,087,090	74	227,492,846	274,948	...	....

Average cost of pumping 1,000,000 gallons 74 feet high, \$5.16.  
Average duty, 50,879,600 pounds raised one foot with 100 pounds coal.  
Average amount pumped daily, 7,479,216 gallons.

## LAYING CROTON-PIPES.

Contracts for laying mains in West street, between West Eleventh street and Battery place; in South street, between Whitehall street and Jackson street; in Seventy-first street, between Tenth and Eleventh avenues; in Eighty-ninth street, between Second and Third avenues, have been completed.

## Amount of Pipe Laid.

	During Quarter.	During Year.
12-inch, lineal feet.....	12,994	33,257
6-inch, lineal feet.....	13,334	42,700
Total lineal feet.....	26,328	75,957
Hydrants set.....	110	248
Stop-cocks set.....	129	270

## Total Water-Pipe Laid and Stop-Cocks and Hydrants Set to December 31, 1884.

Diameter of Pipes.	Pipe Laid to Dec. 31, 1883, feet.	Pipe Laid, Dec. 31, 1883, to Dec. 31, 1884, feet.	Total Pipe Laid to Dec. 31, 1884, feet.	Stop-cocks Set, Dec. 31, 1883, number.	Stop-cocks Set, Dec. 31, 1884, number.	Total Stop-cocks Set to Dec. 31, 1884, number.	Hydrants, pattern.	Hydrants Placed to Dec. 31, 1883, number.	Hydrants Placed, Dec. 31, 1884, number.	Total Hydrants, Dec. 31, 1884, number.
48-inch.....	65,654	.....	65,654	16	...	16	Nos. 1, 2, 3..	3,418	9	3,427
36-inch.....	94,573	.....	94,573	40	...	40	Victor.....	139	...	139
30-inch.....	41,773	.....	41,773	29	...	29	"A".....	2,072	99	2,171
24-inch.....	11,542	.....	11,542	13	...	13	"B".....	1,523	140	1,663
20-inch.....	193,009	.....	193,009	180	...	180	Totals.....	7,152	248	7,400
16-inch.....	17,130	.....	17,130	22	...	22				
12-inch.....	660,698	33,257	693,955	1,379	33	1,412				
10-inch.....	6,629	.....	6,629	15	...	15				
6-inch.....	1,772,612	42,700	1,815,312	3,889	235	4,124				
4-inch.....	32,617	.....	32,617	107	2	109				
Total feet..	2,896,237	75,957	2,972,194	5,690	270	5,960				
Miles.....	548.5	14.38	562.9							

## STREETS AND AVENUES IN WHICH WATER-MAINS HAVE BEEN LAID IN 1884.

## Twelve-inch Pipe.

Eleventh avenue, between One Hundred and Fifty-fifth and One Hundred and Fifty-eighth streets.  
Madison avenue, between Eighty-sixth and Eighty-eighth streets.  
Lexington avenue, between One Hundred and Sixteenth and One Hundred and Seventeenth streets.

Riverside Drive, between Ninety-second and Ninety-sixth streets (relaid).  
Tenth avenue, between One Hundred and Seventy-third and One Hundred and Eighty-first streets.

New avenue, 130 feet east of Fourth avenue, between Forty-second and Forty-fifth streets.  
Kingsbridge road, between McComb's Dam road and Williamsbridge road.

St. Nicholas avenue, between One Hundred and Twenty-seventh and One Hundred and Twenty-eighth streets.

South street, between Whitehall and Jackson streets.  
West street, between Battery place and West Eleventh street.

Seventh avenue, between One Hundred and Sixteenth and One Hundred and Twenty-second streets.

One Hundred and Seventy-seventh street, between Jerome avenue and Railroad avenue.  
First avenue, between Ninety-second and Ninety-sixth streets.

## Six-inch Pipe.

One Hundred and Fiftieth street, from Robbins to Tinton avenue.  
One Hundred and Seventy-fifth street, between Kingsbridge road and Eleventh avenue.

Tenth avenue, between One Hundred and Twenty-fifth and Manhattan streets.  
Ninth avenue, between One Hundred and Sixth and One Hundred and Eighth streets.

One Hundred and Fifty-third street, between Morris and Railroad avenues.  
Eightieth street, between Fourth and Madison avenues.

Eighty-third street, between Boulevard and Riverside Drive.  
Thirty-sixth street, between Eleventh and Twelfth avenues.

Seventy-second street, between Avenue A and First avenue.  
One Hundred and Second street, between Second and Third avenues.

One Hundred and Thirty-fourth street, between Third and Lincoln avenues.  
One Hundred and Fifth street, between First avenue and East river.

Cypress avenue, between One Hundred and Forty-eighth and One Hundred and Forty-ninth streets.

Decatur street, between Southern Boulevard and Suburban street.  
Southern Boulevard, between Decatur street and Berrian avenue.

One Hundred and Sixth street, between Third and Lexington avenues.

Morris avenue, between One Hundred and Thirty-eighth and One Hundred and Fifty-first streets.

Thirty-second street, between First avenue and East river.  
Sixty-ninth street, between Eleventh and Twelfth avenues.

Avenue A, between Eightieth and Eighty-third streets.  
Eightieth street, between Avenues A and B.

Sixty-third street, between Avenue A and East river.  
Sixty-seventh street, between Eleventh and Twelfth avenues.

Thirteenth street, across Thirteenth avenue.  
Fifty-seventh street, between Eleventh and Twelfth avenues.

Railroad avenue, between One Hundred and Seventy-seventh and One Hundred and Eightieth streets.

Seventh avenue, between One Hundred and Thirty-seventh and One Hundred and Fifty-first streets.

Orchard street, between Anderson and Ogden avenues.  
One Hundred and Fortieth street, between Morris and Third avenues.

One Hundred and Forty-first street, between Morris and Rider avenues.  
One Hundred and Thirty-fifth street, between Sixth and Seventh avenues.

One Hundred and Fiftieth street, between St. Nicholas and Tenth avenues.  
One Hundred and Seventy-fifth street, between Tenth and Eleventh avenues.

One Hundred and Forty-fifth street, between St. Nicholas and Tenth avenues.  
Convent avenue, between St. Nicholas avenue and One Hundred and Thirtieth street.

Kingsbridge road, between Williamsbridge road and 300 feet south.  
Marion avenue, between Kingsbridge road and William street.

Riverdale avenue and Dash's lane.  
Seventy-first street, between Tenth and Eleventh avenues.

Eighty-ninth street, between Second and Third avenues.

## Double-Nozzle Case Hydrants Set in 1884.

Northeast corner King and West streets..... 1

In West street, opposite West Houston street..... 1

East side of West street, between West Houston and Clarkson streets..... 1

Southeast corner Clarkson and West streets..... 1

West street, opposite Leroy street..... 1

Northeast corner Leroy and West streets..... 1

Southeast corner Morton and West streets..... 1

West street, opposite Morton street..... 1

East side West street, between Morton and Barrow streets..... 1

West street, opposite Barrow street..... 1

Southeast corner Barrow and West streets..... 1

Northeast corner Christopher and West streets..... 1

Southeast corner West Tenth and West streets..... 1

East side West street, between West Tenth and Charles streets..... 1

Southeast corner Charles and West streets..... 1

East side West street, between Charles and Perry streets..... 1

Northeast corner Perry and West streets..... 1

East side West street, between Perry and West Eleventh streets..... 1

East side Bedford street, eighty feet north of Cottage place..... 1

East side Bedford street, in front of No. 76..... 1

East side Bedford street, in front of No. 90..... 1

East side Bedford street, in front of No. 98..... 1

West side South street, between Broad and Moore streets..... 1

Southeast corner Moore and South streets..... 1

West side South street, between Moore and Whitehall streets..... 1

North side Battery place, between Washington and West streets..... 1

Northeast corner Battery place and West street..... 1

East side West street, between Battery place and Morris street..... 2

Southeast corner Morris and West streets..... 1

East side West street, between Morris and Rector streets..... 3

Northeast corner Rector and West streets..... 1

East side West street, between Rector and Carlisle streets..... 1

Southeast corner Carlisle and West streets..... 1

Northeast corner Albany and West streets..... 1

East side West street, between Albany and Cedar streets..... 1

Southeast corner Cedar and West streets..... 1

Northeast corner Liberty and West streets..... 1

East side West street, between Liberty and Cortlandt streets..... 1

Northeast corner Cortlandt and West streets..... 1

Southeast corner Dey and West streets..... 1

Northeast corner Dey and West streets..... 2

East side West street, between Dey and Fulton streets..... 1

Northeast corner Vesey and West streets..... 1

East side West street, between Vesey and Barclay streets..... 1

Northeast corner Barclay and West streets..... 1

East side West street, between Barclay and Robinson streets..... 1

Northeast corner Robinson and West streets..... 1

Southeast corner Robinson and West streets..... 1

Northeast corner Murray and West streets..... 1

East side West street, between Murray and Warren streets..... 1

Northeast corner Warren and West streets..... 1

Southeast corner Chambers and West streets..... 1

Northeast corner Reade and West streets..... 1

Northeast corner Duane and West streets..... 1

Northeast corner Jay and West streets..... 1

Southeast corner Jay and West streets..... 1

Southwest corner Peck Slip and South street.  
 West side South street, between Peck Slip and Beekman street.  
 Southwest corner Beekman and South streets.  
 West side South street, between Beekman and Fulton streets.  
 Southwest corner Fulton and South streets.  
 Northwest corner Burling Slip and South street.  
 Southwest corner Burling Slip and South street.  
 Northwest corner Fletcher and South streets.  
 Southwest corner Fletcher and South streets.  
 Northwest corner Maiden lane and South street.  
 Southwest corner Maiden lane and South street.  
 West side South street, between Maiden lane and Depeyster street.  
 Southwest corner Depeyster and South streets.  
 Southwest corner Pine and South streets.  
 West side South street, between Pine and Wall streets.  
 Northwest corner Wall and South streets.  
 West side South street, between Wall street and Jones lane.  
 West side South street, between Gouverneur alley and Jones lane.  
 West side South street, between Gouverneur alley and Old Slip.  
 Northwest corner Old Slip and South street.  
 Southwest corner Old Slip and South street.  
 West side South street, between Old Slip and Cuyler alley.  
 Northwest corner Coenties Slip and South street.  
 Southwest corner Coenties Slip and South street.  
 West side South street, at centre of Coenties Slip.  
 West side South street, between Coenties Slip and Broad street.

#### "A" Hydrants Set in 1884.

Northeast corner One Hundred and Seventy-fifth street and Kingsbridge road.  
 Northwest corner One Hundred and Seventy-fifth street and Eleventh avenue.  
 Southwest corner Eleventh avenue and One Hundred and Fifty-fifth street.  
 Northwest corner Eleventh avenue and One Hundred and Fifty-fifth street.  
 Southwest corner One Hundred and Twenty-sixth street and Tenth avenue.  
 Southwest corner Ninth avenue and One Hundred and Seventh street.  
 Northwest corner Boulevard and Eighty-third street.  
 Northwest corner Eleventh avenue and Eighty-third street.  
 Northeast corner Riverside avenue and Eighty-third street.  
 Northeast corner Railroad avenue and One Hundred and Fifty-third street.  
 North side Eighty-third street, 100 feet east of Madison avenue.  
 Northeast corner Twelfth avenue and Thirty-sixth street.  
 North side Thirty-sixth street, between Eleventh and Twelfth avenues.  
 Northeast corner Seventy-second street and First avenue.  
 Northeast corner Third avenue and One Hundred and Second street.  
 Northwest corner Second avenue and One Hundred and Second street.  
 Northeast corner Second avenue and One Hundred and Second street.  
 Northwest corner Lincoln avenue and One Hundred and Thirty-fourth street.  
 Southwest corner Third avenue and One Hundred and Thirty-fourth street.  
 North side Orchard street, between Ogden and Anderson avenues.  
 West side Anderson avenue, 300 feet south of Orchard street.  
 Northeast corner Seventh avenue and One Hundred and Thirty-eighth street.  
 Northeast corner Seventh avenue and One Hundred and Forty-second street.  
 Northeast corner Seventh avenue and One Hundred and Forty-fifth street.  
 Northeast corner Seventh avenue and One Hundred and Forty-sixth street.  
 Northeast corner Seventh avenue and One Hundred and Fiftieth street.  
 Northeast corner Seventh avenue and One Hundred and Fifty-second street.  
 Northeast corner First avenue and One Hundred and Fifth street.  
 North side One Hundred and Fifth street, between First avenue and Avenue A.  
 Northwest corner Cypress avenue and One Hundred and Forty-eighth street.  
 West side Decatur street, between Southern Boulevard and Suburban street.  
 North side One Hundred and Sixth street, between Third and Lexington avenues.  
 Northwest corner Morris avenue and One Hundred and Thirty-eighth street.  
 Northwest corner Morris avenue and One Hundred and Thirty-ninth street.  
 Southwest corner Morris avenue and One Hundred and Fortieth street.  
 Northeast corner Morris avenue and One Hundred and Fortieth street.  
 West side Morris avenue, between One Hundred and Forty-first and One Hundred and Forty-second streets.  
 West side Morris avenue, between One Hundred and Forty-second and One Hundred and Forty-third street.  
 Northwest corner Morris avenue and One Hundred and Forty-fourth street.  
 West side Morris avenue, between One Hundred and Forty-sixth and One Hundred and Forty-eighth streets.  
 Northeast corner Thirty-second street and First avenue.  
 North side Thirty-second street, at East river.  
 North side Sixty-ninth street, 400 feet west of Eleventh avenue.  
 Northeast corner Avenue A and Eighty-first street.  
 Northeast corner Avenue A and Eighty-third street.  
 Northeast corner Avenue A and Eighty-fifth street.  
 Southeast corner Fifty-seventh street and Twelfth avenue.  
 East side Railroad avenue, between One Hundred and Seventy-seventh and Talmadge streets.  
 North side Sixty-third street, 200 feet east of Avenue A.  
 Northwest corner Sixty-seventh street and Eleventh avenue.  
 North side Sixty-seventh street, 400 feet west of Eleventh avenue.  
 Northwest corner One Hundred and Thirty-fifth street and Fifth avenue.  
 North side One Hundred and Thirty-fifth street, between Fifth and Sixth avenues.  
 Northwest corner One Hundred and Seventy-third street and Tenth avenue.  
 Northwest corner One Hundred and Seventy-fifth street and Tenth avenue.  
 Northwest corner One Hundred and Fortieth street and Third avenue.  
 Northeast corner One Hundred and Forty-first street and Rider avenue.  
 North side One Hundred and Fiftieth street, 150 feet west of St. Nicholas avenue.  
 West side Marion avenue, between Kingsbridge road and Ridge street.  
 Southwest corner Marion avenue and Ridge street.  
 Northwest corner Marion avenue and William street.  
 North side One Hundred and Forty-fifth street, between St. Nicholas and Tenth avenue.  
 Northeast corner One Hundred and Forty-fifth street and Tenth avenue.  
 Northeast corner St. Nicholas avenue and One Hundred and Twenty-eighth street.  
 Southwest corner Convent avenue and One Hundred and Thirtieth street.  
 North side One Hundred and Thirtieth street, 200 feet east of Convent avenue.  
 Northeast corner One Hundred and Seventy-seventh street and Madison avenue.  
 North side One Hundred and Seventy-seventh street, between Monroe and Anthony avenues.  
 Northeast corner One Hundred and Seventy-seventh street and Anthony avenue.  
 Northeast corner One Hundred and Seventy-seventh street and Worth street.  
 North side One Hundred and Seventy-seventh street, west of Valentine avenue.  
 East side Kingsbridge road, south of Williamsbridge road.  
 North side Kingsbridge road, between Williamsbridge road and Jerome avenue.  
 North side Kingsbridge road, between Jerome avenue and McComb's Dam road.  
 Northwest corner Seventh avenue and One Hundred and Sixteenth street.  
 Northwest corner Seventh avenue and One Hundred and Seventeenth street.  
 Northwest corner Seventh avenue and One Hundred and Eighteenth street.  
 Northwest corner Seventh avenue and One Hundred and Twentieth street.  
 Northwest corner Seventh avenue and One Hundred and Twenty-first street.  
 Northwest corner Boulevard and Seventy-first street.  
 South side Seventy-first street, between Boulevard and Eleventh avenue.  
 Northeast corner Eleventh avenue and Seventy-first street.  
 North side One Hundred and Forty-third street, 150 feet east of Third avenue.  
 North side One Hundred and Fourth street, 200 feet west of Third avenue.  
 West side First avenue, between Ninety-second and Ninety-third streets.  
 West side First avenue, between Ninety-fourth and Ninety-fifth streets.  
 Northeast corner Eighty-ninth street and Third avenue.  
 Northwest corner Eighty-ninth street and Second avenue.

#### No. 1 Hydrants Set in 1884.

Northwest corner Avenue A and One Hundred and Fifth street.  
 East side Tenth avenue, between One Hundred and Thirty-eighth and One Hundred and Thirty-ninth streets.  
 West side Tenth avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets.  
 East side Riverdale avenue, 700 feet south of Delafield's lane.  
 West side Riverdale avenue, 1,100 feet south of Delafield's lane.  
 East side Riverdale avenue, 500 feet north of Barney's and Dash's lane.  
 North side Barney's and Dash's lane, 150 feet from Riverdale avenue.  
 North side Barney's and Dash's lane, 900 feet from Riverdale avenue.  
 North side Barney's and Dash's lane, 1,600 feet from Riverdale avenue.

#### METERS.

There have been placed the following meters:

Before January 1, 1878.....	455
In 1878.....	155
In 1879.....	788
In 1880.....	2,604
In 1881.....	1,291
In 1882.....	1,524
In 1883.....	2,195
In 1884.....	2,613
Total.....	11,625

By a judgment from the Court of Appeals, the city becomes the owner of 10,000 Navarro water-meters. They have been lying at the Pipe Yard, Twenty-fourth street, East river, since 1872. They record the amount of water passing through them accurately, and under the low pressures pass more water than other meters.

They will all need new joints and washers, etc.

Only 4,050 have been tested and regulated so as to measure accurately.

There are a large number of private houses, flats, boarding-houses, etc., where under the law, this Department cannot place meters at the owner's expense; where it is necessary in order to find how much water is used or wasted, that a meter should be placed; and these meters put in order and set in these buildings, would pay for themselves in one year, from the increased amount received for the water so used and measured.

Meters placed during quarter ending December 31, 1884.....	789
Meters placed during year ending December 31, 1884.....	2,613
Number of meters now in use.....	11,625

#### Water-meters in Use December 31, 1884.

WHERE PLACED.	1/2"	3/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	TOTAL.
Hotels.....	4	7	63	134	64	48	18	5	..	343
Breweries, bottlers, etc.....	6	4	84	100	47	66	10	1	..	318
Charitable institutions.....	..	..	5	20	33	33	4	2	..	97
Offices.....	15	6	728	687	270	75	21	7	..	1,809
Manufacturing establishments.....	37	6	169	193	169	109	4	2	..	689
Gas-works.....	..	..	..	9	3	2	12	12	..	38
Railroads.....	1	4	87	51	5	10	18	22	..	198
Stables.....	119	66	905	417	58	22	7	1	..	1,596
Apartment-houses.....	..	..	6	29	42	33	4	3	..	117
Docks.....	1	..	5	11	..	26	38	30	..	111
Riverdale.....	11	7	29	9	1	..	1	2	..	60
Miscellaneous.....	1,430	134	2,118	1,784	501	224	53	4	1	6,249
Total.....	1,624	234	4,200	3,444	1,193	648	190	91	1	11,625
KIND OF METER.										
Gem.....	..	..	..	2	..	5	15	5	..	27
Crown.....	1,624	..	1,895	1,225	97	41	3	5	1	4,891
Worthington.....	..	234	2,305	2,217	1,096	602	172	81	..	6,707
Total.....	1,624	234	4,200	3,444	1,193	648	190	91	1	11,625

#### Average Number of Gallons used Per Day through Meters.

NUMBER OF METERS.	WHERE USED.	GALLONS.
343	Hotels.....	1,706,100
318	Breweries, bottlers, etc.....	1,583,600
97	Charitable institutions.....	411,000
1,785	Offices.....	1,670,000
671	Manufacturing establishments.....	1,916,400
38	Gas-works.....	824,400
198	Railroads.....	1,230,000
1,575	Stables.....	1,098,600
117	Apartment-houses.....	255,000
111	Docks.....	1,415,300
2	Riverdale.....	72,200
5,650	Miscellaneous.....	7,824,000
10,905	Total.....	20,006,600

Amount received by Water Register in 1884.....	\$583,140 62
Amount returned to Bureau of Arrears in 1884.....	25,642 51
Amount received by Water Register from Docks in 1884.....	68,880 25
Amount received by Water Register from Riverdale in 1884.....	2,397 60
Total.....	\$680,060 98

#### WASTE AND USE OF WATER.

The waste throughout the city has been checked by constant examinations of houses, and especially by the use of meters.

The cold weather, commencing December 15, again started the consumers letting the water run to keep their pipes from freezing, there being a large number of houses in the city where the water-pipes in same would freeze, as they are not protected from frost.

On the 20th of December there was five inches drawn from our reservoirs, showing an extra waste of 13,000,000 per day from this cause. This waste will continue in a greater or less degree until spring, as the consumers—being mostly tenants—are bound to protect themselves.

Examinations of Sewers for Waste of Water in Houses, between 12 o'clock midnight and 6 A. M., for Quarter ending December 31, 1884.

Number house drains examined.....	3,302
Number dry drains examined.....	3,010
Number where waste was less than 1 gallon per minute.....	170
Number where waste was from 1 gallon to 5 gallons per minute.....	122

Examinations of Sewers for Waste of Water in Houses, between 12 o'clock midnight and 6 A. M., for Year ending December 31, 1884.

Number house drains examined.....	9,275
Number dry drains examined.....	8,336
Number where waste was less than 1 gallon per minute.....	470
Number where waste was from 1 to 5 gallons per minute.....	468
Number where waste was over 5 gallons per minute.....	1
Number where waste was over 6 gallons per minute.....	1

## Examinations, Inspectors of Waste of Water, Quarter ending December 31, 1884.

STREET.	WHOLE NUMBER OF BUILDINGS EXAMINED.	WHOLE NUMBER WHERE PLUMBING WAS DEFECTIVE.	FAUCETS.		URINALS.		HYDRANTS.		PIPES BURSTED.
			Leak.	Waste.	Leak.	Waste.	Leak.	Waste.	
Fifth .....	297	85	78	..	..	..	5	..	2
Sixth .....	288	61	57	..	..	..	4	..	..
Seventh .....	334	68	63	..	..	4	1	..	..
Eighth .....	343	48	47	..	..	..	1	..	..
Ninth .....	363	93	74	..	8	..	7	..	4
Eleventh .....	656	282	276	3	..	2	1	..	..
Twelfth .....	662	336	320	1	2	..	2	..	11
Thirteenth .....	664	210	192	4	..	4	2	1	7
Sixteenth .....	272	119	117	..	..	1	..	..	1
Twenty-first .....	519	172	165	3	1	1	1	1	..
Twenty-second .....	387	37	33	..	..	..	..	..	4
Twenty-fourth .....	595	103	97	2	3	..	..	..	1
Twenty-fifth .....	123	54	46	..	1	1	5	..	1
Twenty-seventh .....	145	51	45	4	..	..	..	..	2
Twenty-eighth .....	541	116	114	..	..	1	..	1	..
Twenty-ninth .....	245	49	47	..	..	..	1	..	1
Thirtieth .....	96	33	29	1	1	1	..	..	1
Thirty-first .....	506	208	207	..	..	..	..	..	1
Thirty-second .....	507	235	204	1	13	4	7	..	6
Thirty-third .....	678	197	183	1	..	5	4	..	4
Thirty-fourth .....	577	138	123	..	12	..	..	..	3
Thirty-fifth .....	534	154	149	1	1	..	1	..	2
Thirty-sixth .....	520	296	252	9	2	23	1	2	7
Thirty-seventh .....	551	260	236	..	14	7	1	..	2
Thirty-eighth .....	546	241	231	1	..	..	5	1	3
Thirty-ninth .....	706	85	85	..	..	..	..	..	..
Fortieth .....	505	125	117	..	..	..	8	..	..
Forty-first .....	421	38	33	1	1	..	..	..	3
Totals .....	12,581	3,894	3,620	32	59	54	57	6	66

## Examinations, Inspectors of Waste, Year ending December 31, 1884.

STREET.	WHOLE NUMBER OF BUILDINGS EXAMINED.	WHOLE NUMBER WHERE PLUMBING WAS DEFECTIVE.	FAUCETS.		WATER-CLOSETS.		HYDRANTS.		PIPES BURSTED.
			Leak.	Waste.	Leak.	Waste.	Leak.	Waste.	
Fifth .....	297	85	78	..	..	..	5	..	2
Sixth .....	288	61	57	..	..	..	4	..	..
Seventh .....	334	68	63	..	..	4	1	..	..
Eighth .....	343	48	47	..	..	..	1	..	..
Ninth .....	363	93	74	..	8	..	7	..	4
Eleventh .....	656	282	276	3	..	2	1	..	..
Twelfth .....	662	336	320	1	2	..	2	..	11
Thirteenth .....	664	210	192	4	..	4	2	1	7
Fourteenth .....	550	80	71	..	1	3	3	..	2
Fifteenth .....	428	177	158	..	5	5	4	..	5
Sixteenth .....	606	327	322	1	..	1	..	..	3
Seventeenth .....	547	144	99	1	8	8	4	2	22
Eighteenth .....	537	174	95	67	2	3	2	3	2
Nineteenth .....	587	180	132	32	3	4	3	3	3
Twentieth .....	581	134	117	..	..	6	..	5	6
Twenty-first .....	519	172	165	3	1	1	1	1	..
Twenty-second .....	750	50	41	3	..	..	..	..	6
Twenty-third .....	652	173	147	10	3	6	..	5	2
Twenty-fourth .....	595	103	97	2	3	..	..	..	1
Twenty-fifth .....	462	239	207	..	12	1	15	..	4
Twenty-sixth .....	499	211	205	..	3	..	1	..	2
Twenty-seventh .....	529	217	203	4	..	6	..	2	2
Twenty-eighth .....	541	116	114	..	..	1	..	1	..
Twenty-ninth .....	595	145	130	..	3	3	6	..	3
Thirtieth .....	641	142	127	1	4	2	3	1	4
Thirty-first .....	506	208	207	..	..	..	..	..	1
Thirty-second .....	507	235	204	1	13	4	7	..	6
Thirty-third .....	678	197	183	1	..	5	4	..	4
Thirty-fourth .....	577	138	123	..	12	..	..	..	3
Thirty-fifth .....	534	154	149	1	1	..	1	..	2
Thirty-sixth .....	520	296	252	9	2	23	1	2	7
Thirty-seventh .....	551	260	236	..	14	7	1	..	2
Thirty-eighth .....	546	241	231	1	..	..	5	1	3
Thirty-ninth .....	706	85	85	..	..	..	..	..	..
Fortieth .....	505	125	117	..	..	..	8	..	..
Forty-first .....	421	38	33	1	1	..	..	..	3
Total .....	19,277	5,944	5,357	146	101	99	92	27	122

## SUPPLY OF WATER TO SHIPPING AND BUILDING.

FOR WATER SUPPLIED.	PERMITS DURING QUARTER.	PERMITS DURING 1884.	AMOUNT RECEIVED DURING QUARTER.	AMOUNT RECEIVED DURING 1884.
To shipping .....	136	595	\$6,701 38	\$26,049 81
To shipping measured by meters .....	....	....	22,844 98	68,880 25
For building purposes .....	134	589	5,533 00	21,820 00
To engineers on wharves .....	2	18	55 00	1,071 80
Total .....	272	1,202	\$35,134 36	\$120,821 86

## FORTY-SECOND STREET RESERVOIR "RECONNECTIONS."

The work of making the necessary connections and restoring the circulation of water through the Forty-second Street Reservoir has been completed during the quarter. The pipes, stop-cocks, etc., connected therewith are in the same condition as in 1880.

## WATER SUPPLY FOR THE TWENTY-FOURTH WARD.

The amount of water used is constantly increasing. 4,109 lineal feet of pipe was laid this year in this district. The Bronx river supply being now available, I would recommend that in consideration of the large price paid the City of Yonkers for the water supplied this district, that a main be carried from the Bronx river mains to this district, and pumping machinery be erected to supply the necessary pressure.

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

A gang of men have been at work on South and West streets, making new connections with the new twelve-inch mains laid for the Fire Department in these streets, and also changing the service-pipes and dock connections from the old water-pipe, which is thoroughly destroyed by the action of the salt water on same during the past forty years.

In connection with this work, stops have been placed on all of the service-pipes and located on the sidewalk, so that means are afforded to detect waste or use of water through same at night; and also to shut off water from the buildings when necessary.

If the city was fully supplied with sidewalk stops, the means of detecting and stopping waste would be simplified.

## PERMITS TO OPEN STREETS ISSUED IN 1884.

## Equitable Gas-light Company.

Fourteenth street, between Second and Ninth avenues.  
 Twenty-third street, between Second and Ninth avenues.  
 Second avenue, between Thirty-second and Fifty-ninth streets.  
 Second avenue, between Third and Fifty-ninth streets.  
 Bowery, between Great Jones and Canal streets.  
 Canal street, between Bowery and Hudson street.  
 Bleeker street, between Bowery and Hudson street.  
 Seventeenth street, between Second avenue and Avenue C.  
 Grand street, between Bowery and Pitt street.  
 Canal street, between Bowery and East Broadway.  
 First avenue, between Seventeenth and Houston streets.  
 Avenue A, between Seventeenth and Houston streets.  
 Ninth avenue, between Fourteenth and Fifty-seventh streets.  
 Thirty-first street, between Eighth and Tenth avenues.  
 Fifty-seventh street, between Eighth and Tenth avenues.  
 Twenty-second street, between Broadway and Eighth avenue.  
 Essex street, between Houston and Canal streets.  
 Eighth street, between Second and Sixth avenues.  
 Thirteenth street, between Second and Eighth avenues.  
 Twenty-fourth street, between Second and Eighth avenues.  
 Broadway, between Fourteenth and Thirty-fourth streets.  
 Houston street, between Bowery and Avenue A.  
 Irving place, between Fourteenth and Seventeenth streets.  
 Fifteenth street, between Third and Fourth avenues.  
 Sixteenth street, between Third and Fourth avenues.  
 Eighteenth street, between Second avenue and Broadway.  
 Twentieth street, between Third and Fourth avenues.  
 Twenty-first street, between First and Fourth avenues.  
 Twenty-first street, between Broadway and Eighth avenue.  
 Twenty-fifth street, between Broadway and Eighth avenue.  
 Twenty-sixth street, between Broadway and Eighth avenue.  
 Twenty-seventh street, between Broadway and Eighth avenue.  
 Twenty-eighth street, between Broadway and Eighth avenue.  
 Thirtieth street, between Broadway and Eighth avenue.  
 Forty-fifth street, between Broadway and Eighth avenue.  
 Fourth avenue, between Fourteenth and Seventeenth streets.  
 Gramercy place, between Twentieth and Twenty-first streets.  
 Lexington avenue, between Twenty-first and Thirty-first streets.  
 Twenty-ninth street, between Sixth and Eighth avenues.  
 Forty-seventh street, between Sixth and Ninth avenues.  
 Forty-first street, between Sixth and Eighth avenues.  
 Thirty-ninth street, between Sixth and Eighth avenues.  
 Avenue B, between Houston and Seventeenth streets.  
 Avenue C, between Houston and Seventeenth streets.  
 Tenth street, between Avenues A and B.  
 Houston street, between Avenues A and C.  
 Fifty-seventh street, between Eighth and Tenth avenues.  
 University place, between Waverley place and Fourteenth street.  
 Seventeenth street, between Second avenue and Avenue C.

## The Commercial Cable Company.

Water street, between Dover and Fulton streets.  
 Water street, between Fulton and Wall streets.  
 Wall street, between Water and Broad streets.  
 Second avenue, between Twenty-fifth street and Harlem river.  
 Broad street, between Wall and Beaver streets.  
 Beaver street, between Broad street and Broadway.  
 Broadway, between Beaver and Ann streets.  
 Park Row, between Ann and Frankfort streets.  
 Frankfort street, between Park Row and Pearl street.  
 Pearl street, between Frankfort street and New Bowery.  
 New Bowery, between Pearl and Madison streets.  
 Madison street, between New Bowery and Market street.  
 Market street, between Madison and Division streets.  
 Forsyth street, between Market and Houston streets.  
 Houston street, between Forsyth street and Second avenue.  
 Second avenue, between Houston and Twenty-fifth streets.  
 Twenty-sixth street, between Second and Eighth avenues.  
 Broome street, between Forsyth and Hudson streets.  
 Delancey street, between Forsyth street and Bowery.  
 Spring street, between Bowery and Hudson street.  
 Wall street, between Broad street and Broadway.  
 Broadway, between Wall and Rector streets.  
 Rector street, between Broadway and Church street.  
 Church street, between Rector and Chambers streets.  
 Chambers street, between Church and Hudson streets.  
 Hudson street, between Chambers street and Eighth avenue.  
 Eighth avenue, between Hudson and One Hundred and Twenty-fifth streets.  
 New Bowery, between Madison and Division streets.  
 Division street, between Bowery and Chrystie street.  
 Chrystie street, between Division and Houston streets.  
 Eighth avenue, between One Hundred and Twenty-fifth street and Harlem river.  
 One Hundred and Twenty-fifth and Manhattan streets, between Eighth avenue and North river.

*Knickerbocker Gas-light Company.*

Ninety-fourth street, between Fifth avenue and East river.  
 One Hundred and Second street, between Fifth avenue and East river.  
 One Hundred and Third street, between Fifth avenue and East river.  
 One Hundred and Fourth street, between Fifth avenue and East river.  
 One Hundred and Fifth street, between Fifth avenue and East river.  
 One Hundred and Sixth street, between Fourth and Fifth avenues.  
 One Hundred and Seventh street, between Fifth avenue and East river.  
 Ninety-eighth street, between Fifth avenue and East river.  
 Ninety-ninth street, between Fifth avenue and East river.  
 One Hundredth street, between Fifth avenue and East river.  
 One Hundred and First street, between Fifth avenue and East river.  
 Ninety-seventh street, between Fifth avenue and East river.  
 Ninety-fifth street, between Fifth avenue and East river.  
 Ninety-sixth street, between Fifth avenue and East river.  
 One Hundred and Eighth street, between Fifth avenue and East river.  
 One Hundred and Ninth street, between Second and Fifth avenues.

*Harlem Gas-light Company.*

Second avenue, between One Hundred and Fourteenth and One Hundred and Twenty-ninth streets.  
 One Hundred and Fifteenth street, between Pleasant avenue and Harlem river.  
 One Hundred and Sixteenth street, between Pleasant avenue and Harlem river.  
 Eighth avenue, between One Hundred and Thirtieth and One Hundred and Thirty-first streets.  
 Across One Hundred and Eleventh street, First avenue and Avenue A, east sidewalk, and across First avenue, between One Hundred and Tenth and One Hundred and Twelfth streets.  
 One Hundred and Nineteenth street, between Madison and Fourth avenues.  
 One Hundred and Thirty-fourth street, between Seventh and St. Nicholas avenues.  
 Ninety-third street, between Eighth and Ninth avenues.  
 One Hundred and Thirty-fifth street, between Fifth and Sixth avenues.  
 St. Nicholas place, between Fiftieth and One Hundred and Fifty-fifth streets.  
 Eighty-first street, between Eighth and Ninth avenues.  
 Eighth avenue, between One Hundred and Forty-fifth and One Hundred and Fifty-fifth streets.  
 One Hundred and Thirty-sixth street, between Sixth and Seventh avenues.  
 One Hundred and Sixth street, between Ninth avenue and Boulevard.  
 Tenth avenue, between One Hundred and Seventh and One Hundred and Tenth streets.  
 Tenth avenue, between Manhattan and One Hundred and Twenty-fifth streets.  
 One Hundred and Twenty-fifth street, between Tenth avenue and Manhattan street.  
 One Hundred and Thirty-fifth street, between St. Nicholas and Eighth avenues.  
 One Hundred and Fifty-sixth street, between St. Nicholas and Eleventh avenues.  
 Eighty-third street, between Boulevard and Riverside Drive.  
 One Hundred and Twenty-ninth street, between Second and Fourth avenues.  
 One Hundred and Twenty-ninth street, between Manhattan street and Twelfth avenue.

*New York Gas-light Company.*

Beaver street, between Broadway and Broad street.  
 Broad street, between Pearl and Wall streets.  
 Pearl street, between State and Fulton streets.  
 Burling Slip, between Water and Pearl streets.  
 Old Slip, between Water and Pearl streets.  
 Liberty place, between Maiden Lane and Liberty street.  
 Theatre alley, between Beekman and Ann streets.  
 Beekman street, between Nassau street and Park Row.  
 Gold street, between John street and Maiden Lane.  
 Cliff street, between Beekman and Ferry streets.  
 West street, between Battery place and Canal street.  
 Warren street, between Greenwich and West streets.  
 Murray street, between Greenwich and West streets.  
 Barclay street, between Washington and West streets.  
 Reade street, between Hudson and West streets.  
 Battery place, between Washington and West streets.  
 Henry street, between Oliver and Grand streets.  
 Mott street, between Chatham and Grand streets.

*Metropolitan Gas-light Company.*

Eleventh avenue, between Sixty-first and Seventy-second streets, east side.  
 Eleventh avenue, between Fifty-ninth and Seventy-second streets, west side.  
 Sixty-eighth street, Eighth avenue to Broadway, and from Tenth avenue to Hudson river.  
 Sixty-ninth street, Eighth avenue to Ninth avenue, and from Broadway to Hudson river.  
 Seventy-second street, between Tenth and Eleventh avenues.  
 Lexington avenue, between Forty-ninth and Sixty-fifth streets.  
 Forty-eighth street, between Tenth and Eleventh avenues.  
 Seventieth street, between Eighth and Ninth avenues.  
 Seventieth street, between Eleventh avenue and Hudson river.  
 Seventy-first street, between Tenth avenue and Hudson river.  
 Fortieth street, between Eleventh avenue and Hudson river.  
 Sixty-seventh street, between Ninth avenue and Hudson river.  
 Seventy-sixth street, between Ninth avenue and Riverside Drive.  
 Seventy-fourth street, between Eighth avenue and Riverside Drive.  
 Eleventh avenue, between Fifty-fifth and Fifty-ninth streets.  
 Eleventh avenue, between Seventy-second and Seventy-ninth streets.  
 First avenue, between Thirty-fifth and Fifty-seventh streets.  
 Seventy-third street, between Eleventh avenue and Riverside Drive.  
 New avenue, between Forty-second and Forty-fifth streets.  
 Sixty-sixth street, between Eighth avenue and Hudson river.  
 Seventy-ninth street, between Boulevard and Riverside Drive.  
 Avenue A, between Fifty-fourth and Fifty-sixth streets.  
 Avenue A, between Sixtieth and Sixty-third streets.  
 Sixth avenue, between Fifty-fourth and Fifty-fifth streets.  
 Broadway, between Fifty-eighth and Fifty-ninth streets, and Fifty-ninth street, between Broadway and Seventh avenue.

*Municipal Gas-light Company.*

Twelfth street, between Fourth and Sixth avenues.  
 One Hundred and Twenty-ninth street, between Sixth and Seventh avenues.  
 Fifty-seventh street, between Fourth and Fifth avenues.  
 Seventy-fifth street, between Third and Lexington avenues.  
 Fifty-eighth street, between Fifth and Madison avenues.  
 Fifth avenue, between Thirty-third and Forty-second streets.

*Manhattan Gas-light Company.*

Fourteenth street, between Fifth and Sixth avenues.

*Brush Electric Illuminating Company.*

Across Twenty-seventh street, east of Fifth avenue.

*Western Union Telegraph Company.*

Stone street, between Whitehall street and 150 feet east.

*Metropolitan Telephone and Telegraph Company.*

Whitehall street and Broadway, between State and Murray streets.  
 Murray street, between Broadway and Church streets.  
 Mercer street, between Spring and Canal streets.  
 Canal and Spring streets, between Greene and Crosby streets.  
 Twenty-first street, between Fourth and Seventh avenues.  
 Broadway, between Nineteenth and Twenty-third streets.  
 Thirty-ninth street, between Sixth and Eighth avenues.  
 Sixth avenue, between Thirty-ninth and Forty-second streets.  
 Spring street, between Crosby street and Bowery, and Delancey street, between Bowery and Chrystie street.  
 Sixth avenue, between Forty-second and Forty-fifth streets, to poles on Forty-fifth street.

*Edison Electric Illuminating Company.*

Broadway, between Wall and Dey streets.  
 Broadway, between Cedar and Cortlandt streets.  
 Ann street, to 100 feet west of Nassau street.  
 Broad street, from Wall street to 150 feet south.

*The New York Steam Company.*

Broad street, between Beaver and Wall streets.  
 Twenty-ninth and Thirtieth streets, between Fifth and Seventh avenues.  
 Park place, between Greenwich and West streets.  
 Thirty-fourth street, between Fifth and Sixth avenues.  
 Fifth avenue, between Seventy-second street and Waverley place.

*F. M. Schaefer Brewing Company.*

Fifty-first street, between Fourth avenue and East river.

*Geo. Ehret and Jacob Ruppert.*

Ninety-third street, between Second avenue and East river.  
 Second avenue, between Ninety-second and Ninety-third streets.  
 Ninety-second street, between Second and Third avenues.

*Third Avenue Railroad Company.*

Across Manhattan street and Tenth avenue, from One Hundred and Twenty-sixth to One Hundred and Fifty-fifth street.

*F. G. Bourne.*

Eighth avenue, between 90 feet south of Seventy-second street to 115 feet north of Seventy-third street.

*Thomas E. Crimmins.*

Fifty-first street, between Fourth avenue and East river.

Respectfully yours,

G. W. BIRDSALL, Chief Engineer Croton Aqueduct.

## Document "E."

DEPARTMENT OF PUBLIC WORKS,  
 WATER PURVEYOR'S OFFICE, No. 31 CHAMBERS STREET, ROOM 1,  
 NEW YORK, January 13, 1885.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—I beg leave to submit my report of the transactions of this Bureau for the quarter ending December 31, 1884, together with a summary of the work done under the direction of this Bureau during the year 1884:

## REPAIRS AND RENEWAL OF PAVEMENTS.

The average force employed on repairs to pavements during the quarter was as follows:

In October, 463 men and 94 carts.  
 In November, 488 men and 96 carts.  
 In December, 479 men and 94 carts.  
 On the 9th day of December the repair gangs were disbanded, with the exception of two cross-walk gangs, which were retained to complete some unfinished work.  
 In the summary of work for the year will be found a detailed statement in reference to the street repairs made during the season.  
 38 permits were issued to citizens during the quarter to repair pavements at their own expense.

## REPAVING UNDER CHAPTER 476, LAWS OF 1875.

The following streets under contract for repaving were completed during the quarter, viz.:

	Square yards.
Fifty-seventh street, from Madison to Fourth avenue.....	1,902.23
Division street, from Norfolk to Grand street.....	3,936.70
Twenty-sixth street, between Sixth and Seventh avenues.....	2,676.48
Allen street, from Grand to Division street.....	2,880.78
Suffolk street, from Stanton to Houston street.....	1,149.66
Sixth street, from Avenue B to Lewis street.....	5,585.60
Stanton street, from Columbia to Clinton street.....	3,788.52
Twentieth street, from Seventh to Ninth avenue.....	5,407.46
Forty-ninth street, from Eighth to Ninth avenue.....	2,606.22
Forty-ninth street, from Tenth to Eleventh avenue.....	2,606.76
Ninth street, from First to Second avenue.....	2,194.38
Forty-first street, from Second to Third avenue.....	2,066.30
Bank street, from Bleecker street to Greenwich avenue.....	2,830.90
Houston street, from Bowery to Washington street.....	14,948.34
Fifth avenue, from Thirty-third to Thirty-seventh street.....	4,590.27
Twelfth street, from Avenue C to Avenue D.....	2,476.03
Thirty-second street, from Ninth to Eleventh avenue.....	4,972.66
Rivington street, between Clinton street and East river.....	7,971.35
Water street, between Clinton and Corlears streets.....	6,738.60
Ninth street, between Avenues B and D.....	4,546.73
Total number of square yards repaved.....	86,055.97

## NEW PAVEMENTS UNDER ASSESSMENT.

New pavements under contract were completed in the following streets during the quarter, viz.:

	Square yards.
One Hundred and Thirty first street, from Seventh to Eighth avenue.....	2,671.66
Eighty-first street, from Boulevard to Riverside Drive.....	2,411.00
Eighty-first street, from First avenue to Avenue A.....	2,104.70
Sixty-ninth street, from Ninth to Eleventh avenue.....	4,921.00
One Hundred and Eighth street, from Second to Third avenue.....	2,079.50
One Hundred and Eleventh street, from Seventh avenue to Avenue St. Nicholas.....	2,279.60
Eightieth street, from Madison to Fourth avenue.....	1,392.70
Total number of square yards of new pavements.....	17,860.16

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

The average force employed in repairing pipes, stop-cocks and fire-hydrants, under the direction of this Bureau, during the quarter was as follows:

In October, 85 men and 9 carts.  
 In November, 85 men and 9 carts.  
 In December, 85 men and 9 carts.  
 806 repairs were made to fire-hydrants.  
 88 new fire-hydrants were substituted for old ones.  
 490 defects in pipes and stop-cocks were repaired.  
 158 taps were shut off on account of leaks in service pipes.  
 337 defects in pavements were repaired.

## PUBLIC DRINKING-HYDRANTS.

39 drinking-hydrants were repaired during the quarter.  
 2 new drinking-hydrants were placed.

## WELLS AND PUMPS.

5 pumps were removed and wells closed.

## VAULTS.

56 permits were issued during the quarter for the construction of vaults.  
 The amount received for the same was \$13,306.68.  
 21 permits were issued to repair vaults.

Vouchers were transmitted during the quarter and charged to the following accounts, viz.:

Public Drinking-hydrants.....	\$762 89
Public Drinking-hydrants—Salaries.....	231 00
Repaving Streets and Avenues.....	192,872 77
Repaving Streets and Avenues—Salaries.....	2,837 48
Repairs and Renewal of Pavements and Regrading.....	89,334 09
Repairs and Renewal of Pavements and Regrading—Salaries.....	2,686 03
Repairing and Renewal of Pipes, Stop-cocks, etc.....	22,083 14
Contingencies—Department of Public Works.....	400 90
Street Improvement Fund.....	47,260 18
Total.....	\$358,468 48

#### SUMMARY OF WORK DONE DURING THE YEAR.

##### Repairs and Renewal of Pavements.

During the season 290,016 square yards, or nearly 60 acres, of pavements were repaired in the following-named streets, viz.:

##### Blocks Relaid from Curb to Curb.

Lawrence street, from Ninth to Tenth avenue.  
Ninety-second street, from First avenue to East river.  
Twenty-first street, from Fifth avenue to Broadway.  
Gouverneur Slip, from South to Front street.

##### Half Blocks Relaid from Curb to Curb.

Twenty-seventh street, between Fifth and Madison avenues.  
Forty-sixth street, between Fifth and Sixth avenues.  
Fifty-second street, between Sixth and Seventh avenues.  
Fifty-fourth street, between Second and Third avenues and Fifth and Sixth avenues.  
Fifty-seventh street, between Madison and Fifth avenues, Sixth and Seventh avenues, and Second and Third avenues.  
Seventy-third street, between Ninth and Tenth avenues.

##### Avenues Repaired.

First avenue, from Houston to Thirty-second street and Ninety-second to Ninety-third street.  
Second avenue, from Houston to Forty-fifth street, Fiftieth to Fifty-first street, Seventy-eighth to Seventy-ninth street, and Eighty-third to Eighty-fourth street.  
Second avenue, from Eighty-eighth to Eighty-ninth street, Ninety-sixth to Ninety-seventh street, and One Hundred and Fifteenth to One Hundred and Sixteenth street.  
Third avenue, from Eighth to Forty-seventh street, Sixty-second to Sixty-seventh street, Seventy-sixth to Seventy-seventh street, and Eighty-eighth to Eighty-ninth street.  
Third avenue, from Ninety-second to Ninety-fourth street, Ninety-seventh to Ninety-eighth street, and One Hundred and Second to One Hundred and Eighth street.  
Fourth avenue, from Eighth to Twenty-first street and Ninety-first to Ninety-second street.  
Fifth avenue, from Tenth to Fifty-ninth street.  
Sixth avenue, from Fifty-third to Fifty-fourth street and Fifty-seventh to Fifty-ninth street, west side.  
Eighth avenue, from Hudson to Seventeenth street and Fifty-sixth to Fifty-seventh street.  
Seventh avenue, from Forty-fifth to Forty-sixth street.  
Ninth avenue, from Hudson to Twenty-first street and Twenty-eighth to Twenty-ninth street.  
Tenth avenue, from Twenty-seventh to Thirty-first street and Forty-third to Forty-fourth street.  
Avenue B, from Fifteenth to Nineteenth street.  
Park avenue, from Fifty-sixth to Sixty-first street, east side.  
Park avenue, from Sixty-second to Seventy-second street, west side.  
Lexington avenue, from Thirty-second to Seventy-fourth street.  
Madison avenue, from Twenty-third to Thirty-third street and Forty-second to Sixty-seventh street.  
Madison avenue, from Seventy-sixth to Seventy-seventh street and One Hundred and Twenty-first to One Hundred and Twenty-third street.  
South Fifth avenue, from Canal to Grand street.

##### Streets Repaired.

First street, from Bowery to Avenue A.  
Third street, from Bowery to Avenue B.  
Fourth street, from Broadway to Avenue B.  
Fifth street, from Bowery to East river.  
Sixth street, from Bowery to Avenue A.  
Seventh street, from Second to Third avenue.  
Ninth street, from Third to Fourth avenue.  
Ninth street, from Broadway to Fifth avenue.  
Eighth street, from First avenue to Avenue A.  
Eleventh street, from Avenue B to Avenue D.  
Twelfth street, from Second avenue to Avenue A.  
Thirteenth street, from First avenue to Avenue A.  
Thirteenth street, from Hudson street to Eighth avenue.  
Fifteenth street, from First to Second avenue and Ninth to Tenth avenue.  
Fifteenth street, from Avenue B to East river.  
Sixteenth street, from Sixth avenue to Thirteenth avenue.  
Seventeenth street, from Fifth to Sixth avenue.  
Eighteenth street, from Broadway to Fifth avenue.  
Nineteenth street, from Broadway to Fourth avenue.  
Nineteenth street, from First to Second avenue.  
Twentieth street, from Sixth to Seventh avenue and Ninth to Tenth avenue.  
Twenty-first street, from Ninth to Tenth avenue.  
Twenty-fourth street, from Fifth to Sixth avenue.  
Twenty-fifth street, from Fourth to Lexington avenue.  
Twenty-sixth street, from Third to Lexington avenue and Ninth to Tenth avenue.  
Twenty-seventh street, from Ninth to Eleventh avenue.  
Twenty-eighth street, from Eighth to Ninth avenue and Tenth to Eleventh avenue.  
Twenty-eighth street, from First avenue to East river.  
Twenty-ninth street, from Broadway to Fifth avenue.  
Twenty-ninth street, from Ninth to Eleventh avenue.  
Thirtieth street, from Eleventh avenue to North river.  
Thirty-first street, from Ninth to Tenth avenue.  
Thirty-second street, from Fourth to Fifth avenue.  
Thirty-third street, from Eighth to Ninth avenue.  
Thirty-fifth street, from Sixth to Seventh avenue.  
Thirty-sixth street, from Fifth to Madison avenue.  
Thirty-sixth street, from Third to Lexington avenue.  
Thirty-sixth street, from Second avenue to East river.  
Thirty-eighth street, from Ninth to Tenth avenue and Eleventh to Twelfth avenue.  
Thirty-ninth street, from Fifth to Sixth avenue.  
Fortieth street, from Second to Third avenue.  
Fortieth street, from Fifth to Eleventh avenue.  
Forty-first street, from Fourth to Lexington avenue.  
Forty-first street, from First avenue to East river.  
Forty-second street, from Seventh to Eighth avenue.  
Forty-third street, from Seventh to Eighth avenue and Ninth to Tenth avenue.  
Forty-third street, from Eleventh to Twelfth avenue.  
Forty-fourth street, from Tenth to Eleventh avenue.  
Forty-fifth street, from Eighth to Ninth avenue.  
Forty-sixth street, from Eighth to Ninth avenue and Eleventh to Twelfth avenue.  
Forty-seventh street, from Fifth to Madison avenue and Eleventh to Twelfth avenue.  
Forty-ninth street, from Third to Lexington avenue and Eleventh to Twelfth avenue.  
Fiftieth street, from Third to Lexington avenue.  
Fiftieth street, from Seventh avenue to Broadway.  
Fifty-first street, from Fourth to Madison avenue and Sixth to Seventh avenue.  
Fifty-second street, from Fourth to Lexington avenue.  
Fifty-second street, from Sixth to Seventh avenue and Eleventh to Twelfth avenue.  
Fifty-third street, from Fourth to Lexington avenue and Fifth to Sixth avenue.  
Fifty-fourth street, from Second to Third avenue and First avenue to Avenue A.  
Fifty-fifth street, from Sixth to Seventh avenue.  
Fifty-fifth street, from Broadway to Ninth avenue.  
Fifty-sixth street, from Third to Lexington avenue.  
Fifty-eighth street, from Fifth to Sixth avenue.  
Fifty-ninth street, from Fourth to Madison avenue.  
Sixtieth street, from Fifth to Madison avenue.

Sixty-first street, from Fourth to Fifth avenue.  
Seventieth street, from Madison to Lexington avenue.  
Seventy-first street, from Ninth to Tenth avenue.  
Seventy-third street, from Ninth to Tenth avenue.  
Seventy-sixth street, from Second to Third avenue and First avenue to Avenue A.  
Seventy-sixth street, from Fourth to Fifth avenue.  
Seventy-ninth street, from Third to Lexington avenue.  
Eighty-first street, from Fourth to Madison avenue.  
Eighty-second street, from Second to Fourth avenue.  
Eighty-third street, from Fourth to Madison avenue.  
Eighty-fifth street, from First avenue to Avenue A.  
Eighty-seventh street, from Madison avenue to Avenue A.  
One Hundred and Eighteenth street, from First avenue to Avenue A.  
One Hundred and Twenty-fourth street, from Fifth to Sixth avenue.  
One Hundred and Twenty-sixth street, from Fifth to Seventh avenue.  
One Hundred and Twenty-seventh street, from Fifth to Madison avenue.  
One Hundred and Twenty-eighth street, from Sixth to Seventh avenue.  
West street, from Battery place to King street.  
Washington street, from Battery place to Charles street.  
Washington street, from West Tenth to Little Twelfth street.  
Greenwich street, from Battery place to Gansevoort street.  
Broadway, from Battery place to Thirty-ninth street.  
Broadway, from Forty-third to Fifty-ninth street.  
Nassau street, from Wall to Frankfort street.  
William street, from Chatham street to Hanover Square.  
Chatham street, from Frankfort street to Bowery.  
Bowery, from Chatham Square to Eighth street.  
South street, from Coenties Slip to James Slip.  
South street, from Market to Corlears street.  
Grand street, from East to Greene street.  
Cherry street, from Catharine to East street.  
East Broadway, from Chatham Square to Grand street.  
Wall street, from Broadway to East river.  
Cedar street, from Pearl to West street.  
Catharine street, from South street to Chatham Square.  
Chambers street, from Chatham to West street.  
Reade street, from Chatham to West street.  
Hudson street, from Reade street to Ninth avenue.  
Albany street, from West to Greenwich street.  
Carlisle street, from West to Greenwich street.  
Hague street, from Pearl to Frankfort street.  
Thames street, from Greenwich street to Broadway.  
Tompkins street, from Grand to Stanton street.  
Montgomery street, from Division to South street.  
Front street, from Montgomery to Jackson street.  
Hester street, from Centre to Division street.  
Corlears street, from South to Grand street.  
Monroe street, from Catharine to Grand street.  
Baxter street, from Leonard to Canal street.  
Mott street, from Chatham Square to Bleecker street.  
Stanton street, from Bowery to Ludlow street.  
Essex street, from Hester to Stanton street.  
Suffolk street, from Rivington to Division street.  
Jackson street, from South to Water street.  
Frankfort street, from Chatham to Jacob street.  
Gold street, from Maiden lane to Frankfort street.  
Grove street, from Hudson to Bleecker street.  
Gouverneur street, from Front to Water street.  
West Tenth street, from West street to Greenwich avenue.  
Leroy street, from Bedford to Bleecker street.  
Bedford street, from West Houston to Christopher street.  
York street, from West Broadway to St. John's lane.  
St. John's lane, from Lighthouse to Beach street.  
Jersey street, from Crosby to Mulberry street.  
Canal street, from Broadway to Church street.  
Canal street, from East Broadway to Eldridge street.  
Rivington street, from Tompkins to Goerck street.  
Pine street, from Pearl to Nassau street.  
Liberty street, from Nassau to William street.  
Peck Slip, from Pearl to South street.  
Church street, from Dey to Cortlandt street.  
Battery place, from Broadway to Greenwich street.  
Orchard street, from Division to Houston street.  
Mangin street, from Stanton to Grand street.  
Perry street, from West to Hudson street.  
Rutgers Slip, from South to Cherry street.  
Desbrosses street, from Hudson to Greenwich street.  
Broome street, from South Fifth avenue to Wooster street.  
Theatre alley, from Ann to Beekman street.  
Suffolk street, from Division to Stanton street.  
Dover street, from South to Pearl street.  
Ridge street, from Stanton to Houston street.  
New street, from Beaver to Wall street.  
Beaver street, from William to Hanover street.  
Duane street, from Broadway to Church street.  
Little Twelfth street, from Washington street to Ninth avenue.  
Baxter street, from Leonard to Bayard street.

4 blocks of sidewalk were relaid on St. Nicholas place, east and west sides, from One Hundred and Fiftieth to One Hundred and Fifty-second street.  
7 new crosswalks were laid.  
123 crosswalks were repaired.  
125 feet of curb were reset at South Fifth avenue and Broome street.  
2,251 defects in pavements were repaired.

##### Street Openings by Corporations.

The past year has been one of unusual activity among the various corporations operating in the streets of this city. These works have entailed upon this Bureau a great amount of supervisory care and labor in requiring a proper performance of the work as regards conformity with the true grade of the streets, the protection of sewers and water-pipes, the prevention of obstruction to street traffic, and in compelling the restoration of the pavements to their proper condition.

Properly authorized officers, under the direction of this Bureau, were detailed to supervise the construction of all horse and cable railways, the laying of all gas and steam-heating mains, the construction of all suspended and underground telegraph, telephone and electric-light lines, and also to look after the numerous openings constantly being made by the various companies for the purpose of making service connections, repairs, etc.

The fidelity and zeal of these officers are attested by the fact that not a single complaint of bad work, accident or inconvenience to public traffic has been made.

During the season, 12,231 openings were made in the streets by the various companies, for the purpose of making service connections and repairs. These were specially looked after by four Inspectors who were detailed for that purpose. Each opening was inspected three times at intervals of about four weeks, and in every case where a defect was found, the proper company was compelled to repair the same at once. It is safe to say that the present defects in the pavements in New York are largely attributable to the negligent manner in which these companies have hitherto replaced the pavements over the numerous openings made by them.

I would also mention in the case of laying railroad tracks, the space which the companies are required to take up and to relay is limited to the space between rails and two feet outside of the outer rails. In many cases owing to the sunken condition of the roadway, and the fact that the rails are usually laid to the true grade of the street, this causes a sharp decline from the outer rail down to the original pavement, and an ugly ridge in the middle of the street. This has in all cases been obviated during the past season by incorporating in the permit granting permission to open the streets for the purpose of laying tracks, a clause requiring them, in case of any ridge, rut or sunken place, to take up and relay the pavement to whatever distance might be necessary to make a complete and perfect job. This rule has been rigidly enforced; the company which recently laid their tracks in Forty-second street were required to relay the pavement from curb to curb, the entire distance from Fourth to Seventh avenue.

The following is a summary of the work of this nature done under the direction and supervision of this Bureau during the year, viz.:

65 $\frac{3}{4}$  miles of gas-mains laid.  
13 $\frac{1}{2}$  miles of double track railway laid.  
16,051 feet of telegraph and telephone tubing laid.

1,068 feet of steam-heating pipe laid.  
6,446 feet of salt water-mains laid.  
12,231 service and repair openings made in the pavements by the various companies.  
1,061 notices to repair bad places were served on said companies, and  
954 places have been repaired by and at the expense of the parties making the openings.  
The remaining 107 places being either in dispute as to responsibility for the same or waiting for suitable weather. This system of supervision of the various corporations operating in the streets will, if continued, prove of incalculable advantage to the city.

Repaving under Chapter 476, Laws of 1875.

Contracts for repaving the following streets were completed during the year, viz.:

STREET OR AVENUE.	FROM—	SQUARE YARDS.	LENGTH IN FEET.
Avenue A .....	Seventh to Fourteenth street .....	7,223.90	1,629
Fifth avenue .....	Thirty-third to Thirty-seventh street .....	4,590.27	1,032
Eleventh avenue .....	Fifty-second to Fifty-third street .....	1,331.80	217
Allen street .....	Grand to Division street .....	2,880.78	1,108
Baxter street .....	Canal to Grand street .....	2,064.88	752
Bond street .....	Broadway to Bowery .....	4,014.12	976
Bank street .....	Bleecker street to Greenwich avenue .....	2,830.90	999
Clinton street .....	Division to Houston street .....	6,383.90	2,415
Clark street .....	Hague to Frankfort street .....	398.43	102
Division street .....	Broome to Spring street .....	1,221.70	426
Houston street .....	Norfolk to Grand street .....	3,956.70	1,316
Jane street .....	Bowery to Washington street .....	14,648.34	4,634
Leroy street .....	Greenwich avenue to Hudson street .....	2,053.80	783
Mulberry street .....	Bleecker to Hudson street .....	2,866.30	1,133
Minetta street .....	Spring to Houston street .....	2,684.96	1,042
Minetta lane .....	Minetta lane to Bleecker street .....	557.40	356
Oak street .....	Macdougal to Carmine street .....	557.00	356
Rivington street .....	Catharine to Pearl street .....	1,897.93	888
Sheriff street .....	Clinton street to East river .....	7,971.35	2,841
Stanton street .....	Stanton to Second street .....	1,310.45	477
Suffolk street .....	Columbia to Clinton street .....	3,788.52	1,371
Water street .....	Stanton to Houston street .....	1,149.66	416
Willett street .....	Clinton to Corlears street .....	6,738.60	2,325
Fourth street .....	Rivington to Houston street .....	2,501.84	902
Sixth street .....	Avenue D to Lewis street .....	1,248.52	384
Ninth street .....	Avenue B to Lewis street .....	5,585.60	1,704
Twelfth street .....	First to Second avenue .....	2,194.38	684
Twelfth street .....	Avenue B to Avenue D .....	4,549.73	1,374
Twelfth street .....	Sixth avenue to Fourth street .....	5,336.00	1,618
Twelfth street .....	Avenue A to Avenue C .....	4,521.27	1,383
Twelfth street .....	Avenue C to Avenue D .....	2,476.03	734
Fifteenth street .....	First avenue to 225 feet east of Avenue A .....	2,855.11	862
Twentieth street .....	Seventh to Ninth avenue .....	5,497.48	1,639
Twenty-sixth street .....	Sixth to Seventh avenue .....	2,676.48	815
Twenty-ninth street .....	Seventh to Eighth avenue .....	2,700.00	822
Thirty-second street .....	Seventh to Eighth avenue .....	2,632.20	822
Thirty-second street .....	Ninth to Eleventh avenue .....	4,072.66	1,509
Thirty-ninth street .....	Broadway to Sixth avenue .....	1,313.25	422
Forty-first street .....	Second to Third avenue .....	2,066.30	629
Forty-ninth street .....	Eighth to Ninth avenue .....	2,506.22	830
Forty-ninth street .....	Tenth to Eleventh avenue .....	2,696.76	817
Fifty-seventh street .....	Madison to Fourth avenue .....	1,902.23	439
One Hundred and Twenty-ninth street .....	Sixth to Seventh avenue .....	2,658.45	813
Totals .....		145,608.18	46,845

Total length of streets repaved, 45,845 feet, or 8.67 miles.

#### New Pavements under Assessment.

Contracts for laying new pavements in the following streets were completed during the year, viz.:

STREET OR AVENUE.	FROM—	SQUARE YARDS.	LENGTH IN FEET.
Eighth avenue .....	One Hundred and Twenty-fifth to One Hundred and Forty-fifth street .....	32,924.00	5,151
Sixty-ninth street .....	Ninth to Eleventh avenue .....	4,921.00	1,495
Eightieth street .....	Madison to Fourth avenue .....	1,332.70	417
Eighty-first street .....	First avenue to Avenue A .....	2,104.70	641
Eighty-first street .....	Boulevard to Riverside Drive .....	2,411.00	638
One Hundred and Eighth street .....	Second to Third avenue .....	2,079.50	627
One Hundred and Eleventh street .....	Seventh avenue to Avenue St. Nicholas .....	2,279.60	700
One Hundred and Twenty-third street .....	Third to Madison avenue .....	4,195.00	1,270
One Hundred and Thirty-first street .....	Seventh to Eighth avenue .....	2,671.66	815
Totals .....		54,979.16	11,804

Total length of new pavements, 11,804 feet, or 2.2 miles.

- 3,878 repairs were made to fire-hydrants.
- 380 new fire-hydrants were substituted for old ones.
- 13 new fire-hydrants were placed.
- 1,564 defects in pipes and stop-cocks were repaired.
- 557 taps were shut off on account of leaks in service-pipes.
- 129 drinking-hydrants were repaired.
- 3 new drinking-hydrants were placed.
- 4 pumps were repaired.
- 5 pumps were removed and wells closed.
- 203 permits were issued for the construction of vaults.
- The amount received for the same was \$64,194.36.
- 101 permits were issued to repair vaults.
- 115 permits were issued to repair pavements.

The following statement shows the amounts on vouchers drawn, together with the estimated liabilities and balances on the appropriations for the year, which are under the charge of this Bureau:

ON WHAT ACCOUNT.	APPROPRIATIONS AND TRANSFERS.	VOUCHERS DRAWN.	ESTIMATED LIABILITIES.	ESTIMATED BALANCES.
Public Drinking Hydrants .....	\$2,804 00	\$2,515 82	\$238 03	\$0 15
Public Drinking Hydrants—Salaries .....	696 00	676 00	.....	.....
Repaving Streets and Avenues .....	339,750 00	322,499 97	16,014 89	1,235 14
Repaving Streets and Avenues—Salaries .....	10,100 00	9,473 95	.....	626 05
Repairs and Renewal of Pavements and Regrading .....	191,650 00	190,709 61	853 29	87 10
Repairs and Renewal of Pavements and Regrading—Salaries .....	7,500 00	7,423 98	.....	76 02
Steam Rollers for Pavements .....	11,000 00	11,000 00	.....	.....
Wells and Pumps, Repairing and Cleaning .....	500 00	54 62	.....	445 38
Repairing and Renewal of Pipes, Stop-cocks, etc. ....	.....	71,478 24	.....	.....
Contingencies—Department of Public Works .....	.....	565 74	.....	.....
Street Improvement Fund .....	.....	153,827 22	.....	.....

The number of miles of paved streets in the city is as follows:

Macadam .....	27.39	miles.
Asphalt .....	.62	"
Granite-blocks .....	62.53	"
Trap-blocks .....	232.00	"
Cobble-stone .....	37.84	"
Total .....	360.38	miles.

Respectfully submitted,

A. CULVER, Water Purveyor.

#### Document "F."

DEPARTMENT OF PUBLIC WORKS,  
OFFICE OF ENGINEER IN CHARGE OF SEWERS,  
NEW YORK, January 13, 1885.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—In accordance with your order I herewith forward a report of the transactions of the Office of Engineer in Charge of Sewers for the quarter ended December 31, 1884; and with it a statement of work done during the past year.

Four and sixty-four-one-hundredths miles of sewer and culvert have been laid and 46 receiving-basins built, making a total of 411.41 miles of sewer and culvert and 5,010 receiving-basins. In this total are included 9.7 miles of sewer and culvert, and 160 basins built in 1878 and 1880, by days' work, under the laws applicable to the building of boulevards and drives.

On the 1st of January, 1884, seventeen contracts were in progress for 4.2 miles of sewer and culvert, and 47 receiving-basins.

During the past year fifty-two contracts for 6.4 miles of sewer and culvert and 52 basins were made.

An accompanying table shows the extent of sewerage completed during the year, which compares favorably with that of any previous year.

The repairing and improvements to the old sewers have received particular attention. The work during the past year has been as follows:

- 2,380 receiving-basins and culverts cleaned.
- 61,659 linear feet of sewer cleaned.
- 1,810 linear feet of sewer rebuilt.
- 843 linear feet of sewer repaired.
- 438 linear feet of culvert rebuilt.
- 417 linear feet of spur-pipe laid.
- 62 linear feet of new box sewer built.
- 104 linear feet of dry stone wall built.
- 55 linear feet of retaining-wall built.
- 252 linear feet of curb reset.
- 1 receiving-basin rebuilt.
- 209 receiving-basins repaired.
- 41 new basin heads and covers put on.
- 41 new basin covers put on.
- 50 basin heads reset.
- 13 new manholes built.
- 3 manholes rebuilt.
- 732 manholes repaired.
- 463 new manhole heads with ventilating covers put on.
- 180 ventilating manhole covers put on old manhole heads.
- 259 manhole heads reset.
- 2 new bulkhead ends built in old sewers.
- 3 new road-box covers put on.
- 58 linear feet of drain built.
- 6,345 square feet of flagging relaid.
- 200 square feet of crosswalk relaid.
- 3,885 square yards of pavement relaid.
- 8,300 cubic yards of earth excavated and refilled.
- 374 cart-loads of earth filled in.
- 8,206 cart-loads of dirt removed.

The principal improvements and repairs to sewers were located as follows:

- Second avenue, between Seventieth and Seventy-first streets.
- Sixty-third street, between Fourth and Madison avenues.
- Worth street, between Broadway and Church street.
- Lispard street, between Church street and West Broadway.
- Thirty-sixth street, between Second and Third avenues.
- Madison avenue and Seventieth street.
- First avenue and One Hundred and Eighteenth street.
- Fourteenth street, between Avenues A and B.
- Second avenue, between One Hundred and Twenty-eighth street and Harlem river.
- Eleventh street, between Second and Third avenues.
- Fifty-ninth street, between Fifth and Sixth avenues.
- Twelfth street, between First avenue and Avenue A.
- Ninth avenue, between Thirty-third and Thirty-fourth streets.
- Forty-ninth street, between Seventh and Eighth avenues.
- Caroline street.
- Twentieth street, between Avenue A and First avenue.
- Fourth avenue, between Seventy-fourth and Seventy-sixth streets.
- Seventy-sixth street, between Madison and Fifth avenues.
- Oak street, between Pearl and Catharine streets.
- One Hundred and Twenty-eighth street, between Third and Lexington avenues.
- Third avenue, west side, at One Hundred and Second street.
- Eightieth street, between Fourth and Madison avenues.
- Twenty-fifth street, between Sixth and Seventh avenues.
- Sixty-third street, between Fourth and Lexington avenues.
- Murray street, between Broadway and Hudson river.
- Fifth street, between Avenues B and D.
- Sixteenth street, between Avenues A and C.
- Seventy-ninth street, between Avenue B and East river.
- Thirty-fourth street, between Sixth and Ninth avenues.
- Twelfth street, between Dry Dock street and Avenue C.
- Fifteenth street, between Avenue D and East river.
- Seventy-first street, between Eighth and Ninth avenues.
- Forty-second street, between Fourth and Eighth avenues.
- Eighteenth street, between Broadway and Eleventh avenue.
- Twentieth street, between Fifth and Eleventh avenues.
- First avenue, between Thirty-ninth and Fortieth streets.
- Sixth street, between Avenues C and D.
- Eighth avenue, between Ninety-second and Ninety-fourth streets.
- Twenty-first street, between Eighth and Tenth avenues.
- Tenth street, between Avenue C and Fourth avenue.
- Eighth avenue, between Sixty-fourth and Sixty-sixth streets.
- One Hundred and Fourth street, between Third and Fourth avenues.
- Sixth street, between Avenues B and C.
- Fulton Row, Washington Market.
- Thirty-ninth street, between Second and Third avenues.
- Fourth street, between Bowery and Avenue B.
- One Hundred and Fifteenth street, at Third avenue.
- Forty-eighth street, between Eleventh avenue and Hudson river.
- Third street, between Lewis street and East river.
- One Hundred and Forty-fourth street and Eighth avenue.
- Pitt street, between Delancey and Rivington streets.
- Columbia street, between Broome and Rivington streets.
- Canal and West streets.
- Ridge street, between Rivington and Stanton streets.
- Fifteenth street, between Avenues A and B.
- One Hundred and Nineteenth street, at Harlem river.
- Thirty-first street, between Ninth and Tenth avenues.
- Fifth avenue, between One Hundred and Twenty-fifth and One Hundred and Thirty-fifth streets.
- Fourteenth street, between Avenues B and C.
- Seventeenth street, at East river.
- State street, between Whitehall street and Battery place, etc.
- Sixth avenue, between Waverley place and Eighth street.
- Eighth avenue, between Abingdon Square and Horatio street.
- South Fifth avenue, between Bleecker and Third streets.
- Dey street, between Broadway and Church street.
- Fiftieth street, between First and Third avenues.
- Thirty-fourth street, at Twelfth avenue and Hudson river.
- Maiden lane, between Broadway and Nassau street.
- Crosby street, between Houston and Broome streets.
- Eighty-ninth street, at East river.
- One Hundred and Twenty-second street, between Avenue A and Second avenue.
- Forsyth street, between Bayard and Broome streets.
- Cedar street, between Broadway and East river.
- Fifty-fourth street, between Broadway and Eighth avenue.
- One Hundred and Twentieth street, between Third avenue and East river.
- One Hundred and Forty-seventh street, at Harlem river.
- Eighth street, between First and Third avenues.

Eighth avenue, between Seventy-second and One Hundred and Twelfth streets.  
 Thirty-seventh street, between First and Second avenues.  
 Jersey street, between Crosby and Mulberry streets.  
 Ludlow street, between Rivington and Houston streets.  
 Twenty-first street, between Second and Third avenues.  
 Fifty-fifth street, between Eighth and Ninth avenues.  
 New Bowery, between Oliver and Roosevelt streets.  
 Fifty-seventh street, at Sixth avenue.  
 Spruce street, between Nassau and William street.  
 Sixteenth street, between Sixth and Ninth avenues, and Seventh avenue, between Thirteenth and Fourteenth streets.  
 One Hundred and Tenth street, at East river.  
 Stone street, between William and Broad streets.  
 Sixty-second street, between Madison and Fourth avenues.  
 Forty-ninth street, between Third and Lexington avenues.  
 First avenue, between Seventy-seventh and Seventy-eighth streets.  
 Ninth street, between Fifth and Sixth avenues.  
 Sixty-second street, between Madison and Fifth avenues.  
 Sixty-third street, between Madison and Fifth avenues.

The two latter sewers were built under contracts dated October 31, 1884, and October 17, 1884, the time bid being ample to complete the work before frost. The sewer in Sixty-third street was completed in time, that in Sixty-second street is still uncompleted.

The contractor's bid for this latter work was the lowest, and the contract was awarded to him on his giving assurance of his ability to complete the work in the specified time. His want of skill and experience in this special class of sewer building has been the cause of protracting the work, to the great inconvenience of the public and annoyance to occupants of houses fronting on the work; and there was no way of hastening the completion as still greater delays and perhaps litigation would have followed, had the work been taken from him and relet.

The public health and convenience require that the work of repairing and cleaning sewers be done as speedily as possible.

Work on any one job costing more than one thousand dollars must be done by contract, to the lowest responsible bidder.

In estimating the amount of work to be done, it is not possible for the Engineer to determine, or the contractor to foresee, obstacles or obstructions that might be met with during the progress of the work; and it is this uncertainty of the difficulties that may be met with that deters responsible and experienced contractors from bidding for work of this nature; and, as a consequence, when a bid is asked for, some inexperienced contractors will make their bid without considering the extra cost and skill required to do this character of work over that of ordinary sewer building.

The uncertainty of securing at public letting contractors having the necessary experience and skill necessary to overcome difficulties likely to be met with has deterred the Engineer of Sewers from recommending many much-needed improvements to the old sewers, the cost of which, in each case, would be more than one thousand dollars.

For these reasons I am of the opinion that all work of rebuilding and cleaning sewers should be done by day's work, or by contractors selected for their experience and ability to do the work with as little inconvenience to the public as possible.

These needed improvements and repairs are usually in the business part of the city, where obstruction to travel would be a serious inconvenience to public and private interests.

The laws governing contracts would have to be amended to meet this necessity.

In the cleaning of sewers, 8,206 loads of dirt have been removed, as against 2,480 loads in 1883. This increase is due to two causes: one, the long, protracted drought of last summer and fall; the other, the noticeable and general economy in the use of Croton water. The failure of many old sewers, heretofore self-cleaning, to continue so, is no doubt owing to the fact that less water is now being used, both in manufactories and dwellings, since the stringent rules laid down and enforced by your predecessor, Hubert O. Thompson, for the prevention of waste in the use of water.

Such sewers as have required the assistance of the Croton water to keep them clean are faulty in size and shape; but to replace these with proper self-cleaning ones would be very costly, and, in many cases, unwarranted; as many are of excellent and durable workmanship, and by attention and a careful use of water can easily be cleaned. These large sizes, however, are out of all proportion to the work required of them; some being several feet in diameter, with a flow of sewage for which a sewer of as many inches in diameter would be of ample capacity.

In some of the old sewers, where it is possible, I propose to lay a new bottom within the old sewer, of a proper size and shape to be self-cleaning.

#### VENTILATING.

For the ventilating of old sewers, 643 manholes have been furnished with perforated covers during the past year. All sewers now built under contract have ventilating manhole covers.

#### RECEIVING-BASINS.

The number of receiving-basins in the city is 5,010. These require constant attention and frequent cleaning. The old basins have been greatly improved, and those requiring rebuilding have been furnished with heads of a single stone, in place of the old heads, which were in several pieces, easily displaced by a slight blow from a passing vehicle; and which are dangerous, owing to the liability of the covers to be thrown inside of the basins by mischievous actions, exposing the city to suits for damages.

#### DISCHARGE OF STEAM INTO SEWERS.

The practice of discharging into the sewers hot water and waste from manufactories and exhaust steam has been greatly lessened. Persons offending have been made acquainted with the laws and the duties of this Department. A constant watch is kept over parties using steam, or who are likely to use the sewer unlawfully, many of whom deny the offense; and when they are detected the connections with the sewers are cut off, until such time as proper fixtures are adopted to prevent further violations, and the penalty incurred by the offender is paid.

#### PLANS FOR NEW SEWERS, ETC.

The work of preparing plans for new sewers and improvements to old sewers has received particular attention. A great many new sewers have been built or contracted for, and the following list shows the location of the proposed sewers not yet contracted for:

#### List of Sewers ready for Contract.

1. Sewer in Fourth avenue, east side, between Fifty-fourth and Fifty-fifth streets.
2. Sewers in Eighth avenue, between One Hundred and Fifth and One Hundred and Fourteenth streets, with connection to existing sewer in One Hundred and Tenth street, east of Eighth avenue.
3. Sewers in Ninety-second street, between Ninth avenue and Boulevard, and in Tenth avenue, east and west sides, between Ninety-second and Ninety-third streets.
4. Sewers in One Hundred and Fifty-sixth and One Hundred and Fifty-seventh street, between Tenth avenue and Kingsbridge road, and in Kingsbridge road, between One Hundred and Fifty-sixth and One Hundred and Sixty-second streets.
5. Sewers in Sixty-seventh, Sixty-eighth and Sixty-ninth streets, between West End avenue and land of the New York Central and Hudson River Railroad.
6. Sewer in Ninety-fifth street, between Ninth and Tenth avenues.
7. Sewer in Ninety-seventh street, between Boulevard and Riverside avenue.
8. Sewer in One Hundred and Sixth street, between Boulevard and summit east.
9. Sewer in One Hundred and Sixth street, between summits east and west of Tenth avenue.
10. Sewers in One Hundred and Seventeenth street, between Fifth and Sixth avenues, and in Avenue St. Nicholas, between One Hundred and Sixteenth and One Hundred and Seventeenth streets, and in One Hundred and Seventeenth street, between Avenue St. Nicholas and Eighth avenue.
11. Sewer in One Hundred and Thirty-seventh street, between Seventh and Eighth avenues.
12. Receiving-basins on the northwest and southwest corners of One Hundred and First street and Third avenue, and on the northeast, northwest, southeast and southwest corners of One Hundred and Sixth street and Fourth avenue.
13. Sewer in Lexington avenue, between Seventy-fifth and Seventy-sixth streets.
14. Receiving-basin on the southwest corner of Sixty-second street and Avenue A.
15. Receiving-basins on the north side of One Hundred and Twenty-ninth street, at junction of Manhattan street, and on the south side, at east and west corners of Manhattan street.

#### Specifications on Hand (not advertised).

1. Sewer in Lexington avenue, between Eighty-third and Eighty-fifth streets.
2. Sewer in One Hundred and Fifteenth street, between Eighth avenue and New avenue, east of Morningside Park.
3. Sewer in Eighty-seventh street, between Tenth and Riverside avenues.
4. Sewer in One Hundred and Fourteenth street, between Fourth and Sixth avenues.
5. Sewer in Lexington avenue, between Eighty-ninth and Ninety-first streets, and between Ninety-third and Ninety-fourth streets.
6. Sewer in Attorney street, between Stanton and Rivington streets.

1. Sewers in Fourth avenue, west side, between Ninety-third and One Hundred and Third streets; in Madison avenue, between Ninety-fourth and One Hundred and Third streets; in Ninety-fifth, Ninety-seventh, Ninety-eighth, Ninety-ninth, One Hundredth, One Hundred and First and One Hundred and Second streets, between Fourth and Fifth avenues; in Ninety-sixth street, between Fourth and Madison avenues, and in One Hundred and Third street, between Madison and Fifth avenues.
2. Alteration and improvement to sewers in Eleventh avenue, between Fourteenth and Seventeenth streets, and in Fourteenth street, between Tenth and Thirteenth avenues; and sewers in Eleventh avenue, between Fifteenth and Sixteenth streets, and in Fifteenth street, between Tenth avenue and Eleventh avenue.
3. Sewer in One Hundred and Fifth street, between New avenue and summit west of Ninth avenue, and in New avenue, between One Hundred and Fourth and One Hundred and Fifth streets, from end of present sewer north of One Hundred and Fifth street.
4. Sewer in One Hundred and Forty-fourth street, between Boulevard and Tenth avenue, and in Tenth avenue, west side, between One Hundred and Forty-fourth and One Hundred and Forty-fifth streets.
5. Sewer in One Hundred and Fifteenth street, between Seventh and Eighth avenues.
6. Sewer in One Hundred and Fifth street, between Eighth and New avenues.

In the foregoing list, the first fifteen were advertised for bids, but could not be put under contract, owing to the questions arising from the adoption of the Constitutional Amendment relative to the city's indebtedness.

The next six have had specifications prepared and printed; and the balance can be made ready for contract before the next working season. All of these sewers may be contracted for as soon as the existing restrictions of law are removed.

#### CEMENT TESTS FOR YEAR 1884.

During the year 1884 there were 114 lots of cement submitted for test: 6 lots of Portland cement, of which 5 lots exceeded the requirement of 250 pounds tensile strength to the square inch.

The total number of tests of Portland cement was 43.

The average of the tests of the accepted lots was 316.72 tensile strength and 99 fineness.

108 lots of Rosendale natural cement, of which 91 lots exceeded the requirement of 50 pounds tensile strength to the square inch.

The total number of tests made was 484.

The average of the tests of the accepted lots was 69.92 tensile strength and 83.54 fineness.

The surveys and preparation of maps for the opening of all streets, excepting in the Twenty-third and Twenty-fourth Wards, by law have to be made by this Department, as well as other special work ordered by the Board of Street Openings, particularly the laying-out of a park at Coenties Slip, a park in the Seventh Ward, and one at Tenth avenue and Seventy-third street; also a map for the fixing and establishing of the grades of streets between Fifty-ninth and One Hundred and Twenty-third streets, and between Seventh and Ninth avenues.

The following list gives the location of the several works:

Statement of work done, maps, plans, field work and surveying, abstract, etc., change and establishing of grades of streets and avenues, laying-out of public parks, and plans, etc., furnished to the Board of Street Openings and Improvement, with duplicate copies, and also triplicate copies, etc., furnished the Commissions appointed by the Supreme Court for street openings during the year, January 1 to December 31, 1884, inclusive, showing the location of the work completed and also in progress December 31, 1884, viz:

#### Completed Work for the Year ending December 31, 1884.

STREET OR AVENUE.	BETWEEN—	DATE OF TRANSMITTAL.
One Hundred and Twenty-seventh street	Avenue St. Nicholas and Convent avenue	Mar. 11, 1884
One Hundred and Twenty-eighth street	Avenue St. Nicholas and Convent avenue	" 11, "
One Hundred and Twenty-ninth street	Academy place and Convent avenue	" 11, "
One Hundred and Thirtieth street	Academy place and Convent avenue	" 11, "
One Hundred and Thirty-first street	Tenth and Convent avenues	" 11, "
One Hundred and Thirty-second street	Tenth and Convent avenues	" 11, "
Convent avenue	One Hundred and Twenty-sixth and One Hundred and Thirty-seventh streets	" 11, "
Cliff avenue	One Hundred and Thirtieth street and Hamlin avenue	" 11, "
Academy place	One Hundred and Twenty-eighth and One Hundred and Thirtieth streets	" 11, "
Closing One Hundred and Thirty-seventh street	Avenue St. Nicholas and a point 86 feet west of Tenth avenue	Apr. 2, "
Ninety-fourth street	Second and Third avenues	" 8, "
One Hundred and Forty-sixth street	Avenue St. Nicholas and Tenth avenue	Jan. 20, "
One Hundred and Fourth street	Boulevard and Riverside avenue	" 24, "
Extension of Washington street	Little West Twelfth and West Fourteenth streets	June 16, "
Jeannette Park, in Coenties Slip	South and Water streets	" 19, "
One Hundred and Thirty-third street	Eighth avenue and Avenue St. Nicholas	" 20, "
One Hundred and Fifth street	Boulevard and Riverside avenue	July 16, "
Closing One Hundred and Fifty-fourth street	Avenue St. Nicholas and St. Nicholas place	" 25, "
Ninety-eighth street	Boulevard and Riverside avenue	" 31, "
Pleasant avenue	One Hundred and Fourteenth and One Hundred and Twenty-fourth streets	Aug. 7, "
Change of grade, Fifty-ninth to One Hundred and Twenty-third street	Seventh and Ninth avenues, and Eighth and Ninth avenues	Sept. 14, "
One Hundred and Seventh street	Eighth and Riverside avenues	" 12, "
Plans for laying-out a public park in the Seventh Ward of the City of New York	Cherry, Water, Front and South streets, and Jackson and Corlears streets and the waterfront, East river	" 13, "
One Hundred and Eighth street	Eighth and Riverside avenues	" 17, "
One Hundred and Sixth street	Boulevard and Riverside avenue	" 19, "
One Hundred and Forty-ninth street	Seventh and Eighth avenues	" 19, "
Plan for laying-out a public place in the Twenty-second Ward, City of New York	Boulevard, Seventy-second and Seventy-third streets	" 20, "

Total length of streets and avenues opened ..... 22,954 lineal feet.  
 Total length of streets and avenues closed ..... 1,776 "  
 Total length of grades for streets and avenues established under Laws of 1884, chapter 453 ..... 73,890 "  
 Total frontage of public parks and places, 3,747 lineal feet, or about 17 acres area.

#### Uncompleted Work in Progress December 31, 1884.

STREET OR AVENUE.	BETWEEN—
Elm street, widening and extension	Chambers street and La Fayette place.
Edgecomb road	One Hundred and Fifty-fifth and One Hundred and Seventy-fifth streets.
Dyckman street	Kingsbridge road and Harlem river.
Gansevoort street and West Thirtieth street	Washington street and Eighth avenue.
Hamlin avenue and One Hundred and Thirty-eighth street	Avenue St. Nicholas (opposite One Hundred and Thirty-fifth street) and Tenth avenue.
Lexington avenue	Ninety-seventh and Ninety-eighth streets and between Ninety-ninth and One Hundred and Second streets.
Lexington avenue	Ninety-eighth and Ninety-ninth streets.
Manhattan street extension	Westerly from Twelfth avenue to the bulkhead line, Hudson river.
Hamilton Grange, etc.	One Hundred and Thirty-sixth and One Hundred and Forty-fifth streets, and between Tenth avenue and Avenue St. Nicholas.
Fifty-second street	Eleventh avenue and Hudson river.
Fifty-third street	Eleventh avenue and Hudson river.
Fifty-fourth street	Tenth avenue and Hudson river.
Eighty-third street	Avenues A and B.
Ninety-fourth street	Avenue B and East river.
Ninety-ninth street	Third and Fourth avenues.
One Hundred and Ninth street	Eighth and Riverside avenues.
One Hundred and Twenty-third street, Clermont avenue and One Hundred and Twenty-fifth streets	Boulevard and Riverside avenue.
One Hundred and Twenty-seventh street	Second avenue and bulkhead-line, Harlem river.
One Hundred and Thirty-fourth street	Boulevard and Twelfth avenue.
One Hundred and Fortieth street	Seventh and Eighth avenues.
One Hundred and Forty-second street	Boulevard and Tenth avenue.
One Hundred and Forty-third street	Eighth avenue and first new avenue west.
One Hundred and Forty-eighth street	Eighth avenue and Hudson river.
One Hundred and Forty-ninth street	Eighth avenue and Hudson river.
One Hundred and Fiftieth street	Tenth avenue and Avenue St. Nicholas.
One Hundred and Sixtieth street	Eleventh avenue and Kingsbridge road.
One Hundred and Sixty-first street	Tenth and Eleventh avenues.
One Hundred and Sixty-seventh street	Tenth avenue and Edgecomb road.
One Hundred and Eighty-first street	Tenth and Eleventh avenues.
One Hundred and Eighty-first street	Eleventh avenue and Western Boulevard.

Total length of streets and avenues, 44,055 lineal feet, or about 8 1/4 miles.  
 There yet remain about thirty-five (35) miles of streets, avenues, etc., to be opened, exclusive of the streets in the Twenty-third and Twenty-fourth Wards.

## List of Plans of Sewers and Basins Prepared and Filed During the Year ending December 31, 1884.

STREET OR AVENUE.	BETWEEN—	SEWERS, LIN. FEET.	NO. OF BASINS.
Attorney street.....	Stanton and Rivington streets.....	430	..
Beekman place.....	Forty-ninth and Fifty-first streets.....	522	..
Beaver street.....	Northeast corner William street.....	..	1
Broadway, west side.....	Battery place and Morris street.....	419	..
Hanover Square.....	Northeast corner William street.....	..	1
Kingsbridge road.....	One Hundred and Fifty-fifth and One Hundred and Fifty-sixth streets.....	280	1
Lexington avenue.....	Seventy-fifth and Seventy-sixth streets.....	236	..
Lexington avenue.....	Eighty-second and Eighty-fifth streets.....	708	..
Lexington avenue.....	Eighty-seventh and Ninety-first streets.....	949	3
Lexington avenue.....	Ninety-fifth and Ninety-seventh streets, and in Ninety-fifth and Ninety-sixth streets, between Lexington and Fourth avenues, with alterations and improvements to sewer in Third avenue, between Ninety-seventh and Ninety-eighth streets.....	1,600	3
Lexington avenue.....	Ninety-third and Ninety-fourth streets.....	231	..
Lexington avenue.....	One Hundred and Eighth and One Hundred and Ninth streets.....	231	..
Madison avenue.....	Ninety-fourth and Ninety-fifth streets.....	238	..
Madison avenue.....	West Third and West Fourth streets.....	234	..
Eighteenth street.....	Second and Third avenues.....	150	..
Fifteenth street.....	Tenth and Eleventh avenues.....	836	..
Forty-seventh street.....	Extension at East river.....	100	..
Fifty-seventh street.....	Alteration and improvement from 220 feet west of Madison avenue to end of present sewer east of Fifth avenue.....	29	..
Fifty-ninth street.....	Eighty-fourth and east of Eighth avenue.....	470	..
Sixty-second street.....	Southwest corner Avenue A.....	..	1
Sixty-seventh street.....	West End avenue and the land of the New York Central and Hudson River Railroad.....	1,295	6
Sixty-eighth street.....	Eighty and Ninth avenues.....	800	..
Sixty-ninth street.....	Southwest corner Boulevard, at the junction of Boulevard and Tenth avenue, at Seventy-second street and north of Seventieth street, and on the southwest corner Seventy-third street and Tenth avenue.....	..	6
Seventieth street.....	Southwest corner Lexington avenue.....	..	1
Seventy-first street.....	Boulevard and West End avenue.....	216	..
Seventy-second street.....	Tenth and Riverside avenues.....	1,400	..
Seventy-third street.....	Ninth and Tenth avenues.....	866	..
Seventy-fourth street.....	Madison and Fifth avenues, and in Madison avenue, between Eighty-seventh and Ninety-first streets.....	1,380	..
Seventy-fifth street.....	Ninth and Tenth avenues.....	2,350	..
Seventy-sixth street.....	Tenth and Riverside avenues.....	1,478	..
Seventy-seventh street.....	Ninth and Tenth avenues.....	836	1
Seventy-eighth street.....	Third and Fourth avenues.....	550	3
Seventy-ninth street.....	Boulevard and Riverside avenue.....	750	..
One Hundred and First street.....	Northeast and southwest corners Fifth avenue.....	..	2
One Hundred and Second street.....	Madison and Fifth avenues.....	440	..
One Hundred and Third street.....	Ninth and Manhattan avenues.....	395	..
One Hundred and Fourth street.....	Tenth avenue and Boulevard.....	386	..
One Hundred and Fifth street.....	Eighty and Tenth avenues, and in Ninth avenue, between One Hundred and Sixth and One Hundred and Seventh streets.....	1,920	3
One Hundred and Sixth street.....	Tenth avenue and Boulevard.....	700	..
One Hundred and Seventh street.....	Eighty-fourth and new avenue west of Eighth avenue.....	1,248	3
One Hundred and Eighth street.....	Southeast corner Morningside avenue, East, and on the west side Morningside avenue, opposite One Hundred and Fourteenth street.....	..	2
One Hundred and Ninth street.....	Eighty-fourth and new avenue east of Morningside Park.....	672	2
One Hundred and Tenth street.....	Fourth and Sixth avenues.....	1,740	..
One Hundred and Eleventh street.....	Madison and Fifth avenues.....	420	..
One Hundred and Twelfth street.....	Seventh and Eighth avenues.....	775	..
One Hundred and Thirteenth street.....	Fifth and Seventh avenues.....	1,680	..
One Hundred and Fourteenth street.....	Avenue St. Nicholas and Eighth avenue, and in Avenue St. Nicholas, between One Hundred and Sixteenth and One Hundred and Seventeenth streets.....	920	1
One Hundred and Fifteenth street.....	Avenue St. Nicholas and Eighth avenue.....	563	..
One Hundred and Sixteenth street.....	Sixth and Seventh avenues.....	750	..
One Hundred and Seventeenth street.....	Avenue St. Nicholas and Seventh avenue.....	724	..
One Hundred and Eighteenth street.....	Ninth and Manhattan avenues.....	396	..
One Hundred and Nineteenth street.....	Southwest corner of Fourth avenue.....	..	1
One Hundred and Twentieth street.....	Convent avenue and Lawrence street.....	624	..
One Hundred and Twenty-first street.....	At junction of Manhattan street.....	..	3
One Hundred and Twenty-second street.....	Sixth and Seventh avenues.....	750	..
One Hundred and Twenty-third street.....	Sixth and Seventh avenues.....	750	..
One Hundred and Twenty-fourth street.....	Seventh and Eighth avenues.....	775	..
One Hundred and Twenty-fifth street.....	Seventh and Eighth avenues.....	775	..
One Hundred and Twenty-sixth street.....	Avenue St. Nicholas and Tenth avenue.....	969	5
One Hundred and Twenty-seventh street.....	Eighty-fourth and new avenue west of Boulevard and Tenth avenue, and in Tenth avenue, west side, between One Hundred and Forty-fourth and One Hundred and Forty-fifth streets.....	290	..
One Hundred and Twenty-eighth street.....	Tenth avenue and east of Tenth avenue.....	1,020	..
One Hundred and Twenty-ninth street.....	Tenth avenue and Kingsbridge road, and in Kingsbridge road, between One Hundred and Fifty-sixth and One Hundred and Sixty-second streets.....	325	..
One Hundred and Thirtieth street.....	Forty-eighth and Forty-ninth streets.....	2,140	3
One Hundred and Thirty-first street.....	Sixty-sixth and Sixty-seventh streets, and in Sixty-seventh street, between Second and Third avenues.....	237	..
One Hundred and Thirty-second street.....	Thirty-seventh and Thirty-eighth streets.....	887	1
One Hundred and Thirty-third street.....	Fifty-fourth and Fifty-fifth streets.....	226	..
One Hundred and Thirty-fourth street.....	Fifty-seventh and Fifty-eighth streets.....	237	..
One Hundred and Thirty-fifth street.....	Ninety-ninth and One Hundred and Second streets.....	237	..
One Hundred and Thirty-sixth street.....	Fifty-sixth and Fifty-seventh streets.....	750	3
One Hundred and Thirty-seventh street.....	One Hundred and Sixty-seventh and One Hundred and Seventieth streets, Kingsbridge road and One Hundred and Seventy-third street.....	256	..
One Hundred and Thirty-eighth street.....	One Hundred and Fifth and One Hundred and Fourteenth streets.....	3,648	13
One Hundred and Thirty-ninth street.....	One Hundred and Fourteenth and One Hundred and Sixteenth streets.....	2,530	8
One Hundred and Fortieth street.....	Opposite Seventy-eighth, Seventy-ninth and Eightieth streets, and alteration and improvement to basins on the northeast corner of Seventy-seventh street and southeast corner of Eighty-first street.....	540	..
One Hundred and Forty-first street.....	Avenue St. Nicholas and Tenth avenue.....	..	5
One Hundred and Forty-second street.....	Boulevard and Tenth avenue, and in Tenth avenue, west side, between One Hundred and Forty-fifth and One Hundred and Forty-sixth streets.....	825	2
One Hundred and Forty-third street.....	..	1,020	..

Total length, 53,114 lineal feet, or about 10 miles.  
Total receiving-basins, 84.

## Statement of Plans in Progress for Sewers, Basins, etc., at the close of the Year 1884.

LOCATION.	SEWER, LINEAL FEET.
South street collective sewers, with outlet at foot of Roosevelt street, East river, viz.: The building of sewers in South street, from Chatham street to Peck Slip; Peck Slip and Ferry street to Gold and Jacob streets; Ferry to Frankfort street, with outlet foot of Roosevelt street, under pier from bulkhead to outside of Bridge tower, East river, with repairs to sewer, basins, etc., included in the district embraced within the following area: South, Market, Bayard, Bower, Canal, Centre, Franklin, Broadway and Beekman, to South street; about 180 acres. Total length.....	3,370
Ninety-ninth street, between Boulevard and West End avenue.....	325
One Hundredth street, between Third avenue and a point 400 feet west of Lexington avenue.....	990
One Hundredth and Forty-third street, between Boulevard and Diagonal avenue, and in Diagonal avenue, between One Hundred and Forty-second and One Hundred and Forty-fourth streets.....	1,100
West End avenue, between Sixty-fourth and Sixty-fifth streets, and in Sixty-fourth street, between Tenth and West End avenues.....	1,100
Ninety-seventh street, between Eighth and Ninth avenues.....	825
One Hundred and Twenty-first street, from end of present sewer west of Pleasant avenue to connect with sewer in Pleasant avenue.....	150
Lexington avenue, between One Hundred and Twenty-second and One Hundred and Twenty-third streets.....	236

Total length, about 8,100 lineal feet.

Respectfully submitted,  
STEVENSON TOWLE, Engineer in Charge of Sewers.

## Document "G."

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF STREET IMPROVEMENTS, ROOM 5, NO. 31 CHAMBERS ST.,  
NEW YORK, January 15, 1885.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—In compliance with your instructions I have the honor to submit herewith my report of the operations of the Bureau of Street Improvements for the three months of October, November and December, and also for the year 1884.

During the year fifty-one contracts have been completed at a cost of \$442,187.88, and for which assessment lists have been transmitted to the Chief Clerk's office.

The most important contracts completed during the year are the following:

The filling-in of the low and sunken land between One Hundred and Forty-third and One Hundred and Fifty-fifth streets, and between Eighth and Ninth avenues.

Ninth avenue, from One Hundred and Fifty-first to One Hundred and Fifty-fifth street.

Fifty-third street, from Tenth to Eleventh avenue.

Eighty-fifth street, from Tenth avenue to Riverside Drive.

Ninety-eighth, Ninety-ninth, One Hundredth and One Hundred and First streets, from Fourth to Fifth avenue.

One Hundredth street, from Third to Fourth avenue.

One Hundredth and Eleventh street, from Sixth to Eighth avenue.

One Hundred and Twelfth street, from Madison to Sixth avenue.

One Hundred and Seventeenth street, from Fourth to Fifth avenue.

One Hundred and Twenty-second street, from Fourth to Madison avenue.

One Hundred and Thirty-seventh street, from Fifth to Seventh avenue.

One Hundred and Thirty-eighth street, from Sixth to Eighth avenue.

One Hundred and Forty-first street, from St. Nicholas to Tenth avenue.

One Hundred and Forty-fourth street, from Seventh to New avenue.

One Hundred and Sixty-fifth street, from Tenth to Eleventh avenue.

## WORKS UNDER CONTRACT.

Fort Washington Ridge road—

This contract has just been signed and work is about commencing. It is a large work and will probably take two years to complete.

Kingsbridge road, from One Hundred and Fifty-fifth to One Hundred and Ninetieth street—

This is another large contract and has been some time in work. It is expected to be finished in the fall of this year.

Madison avenue, from One Hundred and Thirty-fifth to One Hundred and Thirty-seventh street—

The bulk of the regulating and grading of this avenue is done, but being over soft soil, the work was suspended during the winter and can be recommenced and completed in the spring.

Fourth avenue, east side, from Ninety-seventh to One Hundred and Second street—

The work on this contract has just been commenced and will be completed during the summer.

West End avenue, from Seventy-second street to the Boulevard—

The work on this contract is about being commenced and will probably be completed next year.

Eleventh avenue, from Kingsbridge road to Dyckman street—

This work has made active progress since its commencement last October and bids fair to be completed during this summer.

Morningside avenue, West—

The most of the work required to be done on this contract has been performed and will probably be finished during the spring or early summer.

Sixty-fourth street, from First avenue to East river—

This contract is now so far advanced that its completion may be expected in the month of May next.

Seventy-fourth street, from Eighth avenue to Riverside Drive—

The work on this street has been progressed rapidly since its commencement in August last, and may be reasonably expected to be finished next summer.

Ninety-first street, from Third to Fourth avenue—

This being mostly surface work the contract has been suspended during the most part of the frost season, and can be recommenced and completed in the spring.

Ninety-third street, from West End to Riverside avenue—

This is quite a heavy rock cutting on this street that it will probably take a full year to finish the work.

Ninety-fourth street, from Second to Third avenue—

This street is in a good state of forwardness and can be easily completed during the month of May.

Ninety-fourth street, from Boulevard to Riverside Drive—

Actual work on this contract is just about commencing and it is not expected to be completed during this year.

Ninety-fifth street, from Tenth avenue to Riverside Drive—

This contract is now so far advanced that its completion may be expected during the month of May next.

Ninety-ninth street, from Eleventh avenue to Riverside Drive—

This work is now in active progress and will be completed during the early summer months.

One Hundred and First street, from Third avenue to five feet east of Fourth avenue—

This contract, being mostly rock cutting, is now so far progressed that it will probably be completed in the spring or early summer.

One Hundred and Third street, from Ninth to Tenth avenue—

This work is now in a fair state of forwardness and its completion may be looked for in May next.

One Hundred and Third street, from Tenth avenue to Riverside Drive—

This contract is now nearly finished and can be completed at the close of the frost season.

One Hundred and Fourth street, from Boulevard to Riverside Drive—

The work on this street, commenced about one month ago, is being actively progressed and is expected to be completed during the summer.

One Hundred and Twelfth street, from Seventh to Eighth avenue—

This contract is so far advanced that its completion may be expected during the month of May next.

One Hundred and Seventeenth street, from Sixth to Seventh avenue—

Active progress has been made on this street and may reasonably be expected to be finished during the summer.

One Hundred and Eighteenth street, from Fourth to Sixth avenue—

There has been considerable rock cutting on this street, which has so far progressed that its completion may be expected next September.

One Hundred and Twenty-sixth street, from Tenth avenue to Boulevard—

This work being altogether of an embankment, has made active progress that it can readily be finished during the coming summer.

One Hundred and Thirty-second street, from Tenth avenue to Broadway—

This contract is in such a state of forwardness that it can be completed during the summer.

One Hundred and Forty-first street, from Tenth to Diagonal avenue—

This work has been suspended on account of the frost season and can easily be finished during the month of May.

One Hundred and Fifty-third street, from sixty feet east of Seventh avenue to New avenue—

This heavy rock cutting contract has been steadily progressing during last year and is expected to be completed during the later part of this summer.

One Hundred and Fifty-seventh street, from Tenth avenue to Boulevard—

This work is now so far advanced that it can be readily finished in April next.

One Hundred and Sixty-second street, from Tenth to Edgecomb avenue—

This contract has made such progress that its completion may be expected during the summer.

One Hundred and Eighty-fifth street, from Tenth avenue to Kingsbridge road—

This is mainly a work of excavation and will be probably completed during the year.

## APPROPRIATIONS.

## Street Improvements—For Surveying, Monumenting and Numbering of Streets.

The appropriation for this purpose amounted to \$3,000, of which sum about \$916 has been expended for numbering and renumbering streets, etc.; \$800 for surveying and monumenting, leaving a balance of about \$1,284 unexpended.

## Flagging Sidewalks and Fencing Vacant Lots in Front of City Property.

The amount appropriated for this purpose was \$1,500, which has been used for repairs and renewals of sidewalks, fences, etc., in front of city property as from time to time became necessary.

Respectfully submitted,

GEO. A. JEREMIAH, Superintendent of Street Improvements.

## STATEMENT OF THE AMOUNT OF WORK DONE DURING THE QUARTER ENDING DECEMBER 31, 1884.

Earth excavated, cubic yards	51,622
Rock excavated, cubic yards	62,451
Filling furnished, cubic yards	160,349 <sup>80</sup> / <sub>100</sub>
Curb-stones set, linear feet	24,730 <sup>31</sup> / <sub>100</sub>
Curb-stones reset, linear feet	17
Flagging laid, square feet	103,014 <sup>21</sup> / <sub>100</sub>
Flagging relaid, square feet	40
Dry stone box culvert built, linear feet	1,057
Picket fence built, linear feet	2,049 <sup>3</sup> / <sub>100</sub>
Pavement laid, square yards	480
Soil for trees placed, cubic yards	2,300
Soil for trees furnished and placed, cubic yards	500
Trees set	240

## Work Done in Front of City Property.

Flagging laid, square feet	2,505 <sup>8</sup> / <sub>100</sub>
Flagging relaid, square feet	1,968 <sup>7</sup> / <sub>100</sub>
Picket fence built, linear feet	60 <sup>5</sup> / <sub>100</sub>

## AMOUNT OF VOUCHERS DRAWN.

On account of—	
Street Improvement Fund, contracted after June 9, 1880	\$168,498 80
Street Improvement Fund, June 9, 1880	105 00
Street Improvements above Fifty-ninth Street, June 9, 1880	1,431 50
Street Improvements—For Surveying, Monumenting, etc.	289 00
Street Improvements—For Surveying, Monumenting, etc., 1883	20 00
Flagging Sidewalks and Fencing Vacant Lots in front of City Property	873 60
Contingencies—Department of Public Works	125 00
Total	\$171,402 90

## APPROPRIATIONS.

Street Improvements—For Surveying, Monumenting and Numbering of Streets, 1884	\$3,000 00
Amount of vouchers drawn	\$916 00
Outstanding liabilities	800 00
Balance, estimated	1,284 00
	3,000 00

Street Improvements—For Surveying, Monumenting and Numbering of Streets, 1883—	
Balance of appropriation	\$63 50
Amount of vouchers drawn	20 00
Balance	\$43 50

Flagging Sidewalks and Fencing Vacant Lots in front of City Property, 1884	\$1,500 00
Amount of vouchers drawn	\$1,354 19
Outstanding liabilities	145 00
Balance, estimated	81
	1,500 00

Contingencies—Department of Public Works, 1884—	
Amount of vouchers drawn	\$250 00

## WORKS COMPLETED DURING THE QUARTER.

Regulating, grading, etc.—	
Eighty-fifth street, from Tenth avenue to Riverside Drive	\$21,712 56
Ninety-fifth street, from Ninth to Tenth avenue	8,063 62
Ninety-eighth street, from Fourth to Fifth avenue	6,346 91
One Hundredth street, from Fourth to Fifth avenue	11,596 37
One Hundred and First street, from Fourth to Fifth avenue	17,025 93
One Hundred and Seventeenth street, from Fourth to Fifth avenue	40,848 30
One Hundred and Twentieth street, from Eighth to Ninth avenue	2,860 09
One Hundred and Twenty-second street, from Fourth to Madison avenue	17,747 72
One Hundred and Twenty-sixth street, from First to Second avenue	2,884 83
One Hundred and Thirty-fifth street, from St. Nicholas to Eighth avenue	1,814 70
One Hundred and Forty-fourth street, from Seventh to New avenue	12,943 24
One Hundred and Fifty-first street, from St. Nicholas avenue to Boulevard	7,040 55
One Hundred and Sixty-fifth street, from Tenth to Eleventh avenue	10,522 50
	\$161,407 32

Flagging—	
East side Boulevard, from Sixty-seventh to Seventy-fifth street	\$1,319 56
Tenth avenue, from One Hundred and Seventh to One Hundred and Tenth street	1,119 19
East side Eleventh avenue, from Thirty-eighth to Fortieth street	731 49
South side Fifty-seventh street, from Madison to Fifth avenue	201 95
	3,372 19

Fencing vacant lots—	
Block bounded by Eighth and St. Nicholas avenues, One Hundred and Twenty-sixth and One Hundred and Twenty-seventh streets	\$231 22
West side Boulevard, from One Hundred and Twenty-eighth to One Hundred and Thirty-fourth street	430 56
Corner New Chambers and Chestnut streets	38 84
Southwest corner Fourth avenue and Eightieth street	114 01
Northwest corner Lexington avenue and Eighty-seventh street	58 48
Northeast corner One Hundred and Twenty-second street and Fourth avenue	122 90
Nos. 114 and 116 East One Hundred and Twenty-third street	24 38
	1,020 39

Total	\$165,799 90
-------	--------------

## AMOUNT OF WORK DONE DURING THE YEAR 1884.

NATURE OF WORK.	JANUARY 1 TO MARCH 31.	APRIL 1 TO JUNE 30.	JULY 1 TO SEPTEMBER 30.	OCTOBER 1 TO DECEMBER 31.	TOTAL.
Earth excavated, cubic yards	11,932	29,594	12,121	51,622	105,269
Rock excavated, cubic yards	25,330	40,565	34,425	62,451	162,771
Filling furnished, cubic yards	49,258	79,226	44,208	160,349 <sup>80</sup> / <sub>100</sub>	333,041
Curb-stones set, linear feet	2,250	21,957 <sup>10</sup> / <sub>100</sub>	8,641 <sup>51</sup> / <sub>100</sub>	24,730 <sup>31</sup> / <sub>100</sub>	57,579 <sup>3</sup> / <sub>100</sub>
Curb and gutter-stones set, linear feet			1,518		1,518
Curb-stones reset, linear feet			17		17
Flagging laid, square feet	15,108 <sup>80</sup> / <sub>100</sub>	77,170 <sup>20</sup> / <sub>100</sub>	42,489 <sup>12</sup> / <sub>100</sub>	103,014 <sup>21</sup> / <sub>100</sub>	237,782 <sup>10</sup> / <sub>100</sub>
Flagging relaid, square feet			40		40
Dry stone box culvert built, linear feet		173		1,057	1,230
Picket fence built, linear feet		308 <sup>12</sup> / <sub>100</sub>	25	2,049 <sup>3</sup> / <sub>100</sub>	2,382 <sup>3</sup> / <sub>100</sub>
Stone masonry built, cubic yards	2,146				2,146
Pavement laid, square yards		4,220	17,700	480	22,400
Soil for trees placed, cubic yards				2,300	2,300
Soil for trees furnished and placed, cubic yards				500	500
Trees				240	240
Bridge-stones set, square feet		2,100			2,100

## Work done in front of City Property.

NATURE OF WORK.	JANUARY 1 TO MARCH 31.	APRIL 1 TO JUNE 30.	JULY 1 TO SEPTEMBER 30.	OCTOBER 1 TO DECEMBER 31.	TOTAL.
Flagging laid, square feet			649 <sup>20</sup> / <sub>100</sub>	2,505 <sup>80</sup> / <sub>100</sub>	3,154 <sup>100</sup> / <sub>100</sub>
Flagging relaid, square feet			1,364 <sup>77</sup> / <sub>100</sub>	1,968 <sup>70</sup> / <sub>100</sub>	3,333 <sup>147</sup> / <sub>100</sub>
Picket fence built, linear feet	52			60 <sup>5</sup> / <sub>100</sub>	112 <sup>5</sup> / <sub>100</sub>

## AMOUNT OF VOUCHERS DRAWN.

ON ACCOUNT OF—	JANUARY 1 TO MARCH 31.	APRIL 1 TO JUNE 30.	JULY 1 TO SEPTEMBER 30.	OCTOBER 1 TO DECEMBER 31.	TOTAL.
Street Improvement Fund contracted after June 9, 1880	\$44,157 03	\$130,274 06	\$70,978 34	\$168,498 80	\$413,908 23
Street Improvement Fund, June 9, 1880	228 00	234 00	234 00	165 00	861 00
Street Improvements above Fifty-ninth street, June 9, 1880	10,222 68	66,406 92	22,858 50	1,131 50	100,319 60
Street Improvements—For Surveying, Monumenting, etc.	165 00	228 00	234 00	289 00	916 00
Street Improvements—For Surveying, Monumenting, etc., 1883				20 00	20 00
Flagging Sidewalks and Fencing Vacant Lots in front of City Property	31 20		449 39	873 60	1,354 19
Contingencies—Department of Public Works			125 00	125 00	250 00
Total	\$54,803 91	\$197,142 98	\$94,879 23	\$171,402 90	\$518,229 02

## WORKS COMPLETED DURING THE YEAR 1884.

Filling-in—	
The low and sunken land between One Hundred and Forty-third and One Hundred and Fifty-fifth streets and between Eighth and Ninth avenues	\$68,762 32

Regulating and Grading—	
Ninth avenue, from One Hundred and Fifty-first to One Hundred and Fifty-fifth street	\$4,605 75
Eighty-fifth street, from Ninth to Tenth avenue	7,766 81
One Hundred and Fifty-eighth street and intersection of Public Drive	652 30
	13,024 86

Regulating, Grading, Curbing and Flagging—	
Fifty-third street, from Tenth to Eleventh avenue	\$15,193 66
Sixty-seventh street, from Third avenue to Avenue A	21,591 79
Eighty-fifth street, from Tenth avenue to Riverside Drive	21,712 56
Ninety-fifth street, from Ninth to Tenth avenue	8,063 62
Ninety-eighth street, from Fourth to Fifth avenue	6,346 91
Ninety-ninth street, from Fourth to Fifth avenue	10,079 79
One Hundredth street, from Third avenue to five feet east of Fourth avenue	28,805 38
One Hundredth street, from Fourth to Fifth avenue	11,596 37
One Hundredth street, from Boulevard to Riverside Drive	7,422 74
One Hundred and First street, from Fourth to Fifth avenue	17,025 93
One Hundred and Eleventh street, from Sixth to Eighth avenue	25,019 80
One Hundred and Twelfth street, from Madison to Sixth avenue	10,691 70
One Hundred and Seventeenth street, from Fourth to Fifth avenue	40,848 30
One Hundred and Twentieth street, from Eighth to Ninth avenue	2,860 09
One Hundred and Twenty-second street, from Fourth to Madison avenue	17,747 72
One Hundred and Twenty-sixth street, from First to Second avenue	2,884 83
One Hundred and Thirty-fourth street, from St. Nicholas to Eighth avenue	1,912 74
One Hundred and Thirty-fifth street, from St. Nicholas to Eighth avenue	1,814 70
One Hundred and Thirty-seventh street, from Fifth to Seventh avenue	14,559 22
One Hundred and Thirty-eighth street, from Sixth to Eighth avenue	16,652 29
One Hundred and Forty-first street, from Seventh to Eighth avenue	7,074 30
One Hundred and Forty-first street, from St. Nicholas to Tenth avenue	18,663 74
One Hundred and Forty-fourth street, from Seventh to New avenue	12,943 24
One Hundred and Fifty-first street, from St. Nicholas avenue to Boulevard	7,040 55
One Hundred and Fifty-sixth street, from St. Nicholas to Eleventh avenue	6,414 45
One Hundred and Sixty-fifth street, from Tenth to Eleventh avenue	10,522 50
	345,488 92

Curbing and Flagging—	
St. Nicholas place, from One Hundred and Fiftieth street to St. Nicholas avenue	\$1,222 82
One Hundred and Seventy-fifth street, from Tenth avenue to Kingsbridge road	4,505 89
	5,728 71

Flagging—	
East side Boulevard, from Sixty-seventh to Seventy-fifth street	\$1,319 56
East side Fifth avenue, from Sixty-sixth to Sixty-seventh street, etc.	355 89
East side Fifth avenue, from Sixty-seventh to Sixty-eighth street, etc.	239 02
Tenth avenue, from One Hundred and Seventh to One Hundred and Tenth street	1,119 19
East side Eleventh avenue, from Thirty-eighth to Fortieth street	731 49
Eleventh avenue, from Fifty-eighth to Fifty-ninth street, etc.	1,097 11
South side Fifty-seventh street, from Madison to Fifth avenue	201 95
Sixty-eighth street, from First to Second avenue	1,040 33
One Hundred and Eighteenth street, from First to Second avenue	454 25
One Hundred and Nineteenth street, from Seventh to Eighth avenue	1,441 52
	8,000 31

Fencing Vacant Lots—	
Block bounded by Eighth and St. Nicholas avenues, One Hundred and Twenty-sixth and One Hundred and Twenty-seventh streets	\$231 22
West side Boulevard, from One Hundred and Twenty-eighth to One Hundred and Thirty-fourth street	430 56
Corner New Chambers and Chestnut streets	38 84
East side Fourth avenue, Sixty-fourth and Sixty-fifth streets, etc.	150 12
Southwest corner Fourth avenue and Eightieth street	114 01
Northwest corner Lexington avenue and Eighty-seventh street	58 48
Nos. 539 and 541 West Fiftieth street	12 25
Northeast corner One Hundred and Twenty-second street and Fourth avenue	122 90
Nos. 114 and 116 East One Hundred and Twenty-third street	24 38
	1,182 76

Total	\$442,187 88
-------	--------------

## RECAPITULATION.

1 contract for filling in	\$68,762 32
3 contracts for regulating and grading	13,024 86
26 contracts for regulating, grading, etc.	345,488 92
2 contracts for curbing and flagging	5,728 71
10 contracts for flagging	8,000 31
9 contracts for fencing vacant lots	1,182 76
51 contracts.	Total \$442,187 88

Statement showing Works under Contract in Bureau of Street Improvements on the 31st day of December, 1884.

LOCATION OF WORK.	CONTRACTOR.	SURVEYOR.	INSPECTOR.	CONTRACT TIME.	ESTIMATED COST.	AMOUNT EARNED.	AMOUNT RETAINED.	AMOUNT PAID.	REMARKS.
Regulating, Grading, Curb and Flagging—									
Fort Washington Ridge road.....	Allen & O'Maley...	W. V. Smith.....	Joseph McGowan....	400 days.	\$130,161 70	.....	.....	.....	
Kingsbridge road, One Hundred and Fifty-fifth to One Hundred and Ninetieth street.....	Allen, O'Grady & Co	W. V. Smith.....	Sylvester Bennett....	200 "	71,697 00	\$23,175 00	\$6,952 50	\$16,222 50	
Madison avenue, One Hundred and Thirty-fifth to One Hundred and Thirty-seventh street.....	Patrick Farley....	W. V. Smith.....	.....	150 "	6,031 40	3,300 00	990 00	2,310 00	Work suspended.
Fourth avenue, Ninety-seventh to One Hundred and Second street.....	Michael Eagan....	W. V. Smith.....	Wesley J. Weiant....	30 "	3,354 50	.....	.....	.....	
West End avenue, Seventy-second street to Boulevard.....	Thomas O'Maley....	W. V. Smith.....	Edward T. Bennett....	200 "	98,782 38	.....	.....	.....	
Eleventh avenue, Kingsbridge road to Dyckman street.....	Mairs & Daily....	W. V. Smith.....	Mark Neary.....	300 "	109,138 69	33,070 00	9,921 00	23,149 00	
Sixty-fourth street, First avenue to East river.....	J. McKim & Son....	W. V. Smith.....	Charles McSorley....	200 "	16,066 45	11,000 00	3,300 00	7,700 00	
Sixty-sixth street, Eighth avenue to Boulevard.....	John Mulholland....	F. M. Leonard.....	.....	300 "	14,372 76	11,258 00	3,377 40	7,880 60	Work completed, but not yet accepted.
Seventy-fourth street, Eighth avenue to Riverside Drive.....	James Slattery....	H. K. Viele.....	Peter Meehan.....	250 "	29,825 41	7,800 00	2,340 00	5,460 00	
Eighty-eighth street, Tenth avenue to Riverside Drive.....	John Brady.....	E. L. Viele.....	.....	75 "	9,180 80	24,120 00	7,236 00	16,884 00	Work completed, but not yet accepted.
Ninety-first street, Third to Fourth avenue.....	James W. Phelan....	R. L. Waters.....	Edward C. Brady....	70 "	1,743 65	.....	.....	.....	
Ninety-third street, West End avenue to Riverside Drive.....	William Kelly....	H. K. Viele.....	Julius Simon.....	350 "	33,987 73	.....	.....	.....	
Ninety-fourth street, Second to Third avenue.....	J. W. & J. Phelan..	W. V. Smith.....	John Lawrence.....	90 "	3,020 10	.....	.....	.....	
Ninety-fourth street, Boulevard to Riverside Drive.....	Thomas O'Maley....	H. K. Viele.....	Patrick Mallon.....	150 "	33,311 60	.....	.....	.....	
Ninety-fifth street, Tenth avenue to Riverside Drive.....	John Brady.....	H. K. Viele.....	James R. Mount.....	50 "	15,676 28	44,002 50	13,200 75	30,801 75	
Ninety-ninth street, Eleventh avenue to Riverside Drive.....	V. Del Genovese....	H. K. Viele.....	Bernard Martin.....	100 "	8,964 90	.....	.....	.....	
One Hundred and First street, Third avenue to five feet east of Fourth avenue.....	John Kinsley.....	J. McIntyre Smith...	John Reilly.....	300 "	25,789 44	24,220 00	7,266 00	16,954 00	
One Hundred and Third street, Ninth to Tenth avenue.....	Patrick Farley....	R. L. Waters.....	William F. Cannon....	250 "	7,070 64	3,225 00	967 50	2,257 50	
One Hundred and Third street, Tenth avenue to Riverside Drive.....	William E. Dean....	W. V. Smith.....	James H. Reilly....	60 "	8,734 30	4,500 00	1,350 00	3,150 00	
One Hundred and Fourth street, Boulevard to Riverside Drive.....	Bernard Mahon....	W. V. Smith.....	Denis Halnan.....	100 "	9,011 10	.....	.....	.....	
One Hundred and Twelfth street, Seventh to Eighth avenue.....	Patrick Farley....	J. McIntyre Smith...	Morgan L. Ogden....	200 "	7,848 40	3,000 00	900 00	2,100 00	
One Hundred and Seventeenth street, Sixth to Seventh avenue.....	J. W. & J. Phelan..	R. L. Waters.....	Harry J. Hume.....	200 "	6,830 79	.....	.....	.....	
One Hundred and Eighteenth street, Fourth to Sixth avenue.....	Michael Finn.....	W. V. Smith.....	Wm. H. Johnson....	250 "	29,952 30	17,227 00	5,168 10	12,058 90	
One Hundred and Twenty-sixth street, Tenth avenue to Boulevard.....	Thomas Murray....	W. V. Smith.....	Jeremiah Chadwick...	195 "	7,330 10	.....	.....	.....	
One Hundred and Thirty-second street, Tenth avenue to Broadway.....	F. Thilemann, Jr....	R. L. Waters.....	Walter E. Pallister...	200 "	9,468 56	3,220 00	966 00	2,254 00	
One Hundred and Forty-first street, Tenth to Diagonal avenue.....	Thomas Murray....	R. L. Waters.....	Frederick Goodhue..	20 "	1,204 52	.....	.....	.....	
One Hundred and Fifty-third street, sixty feet east of Seventh avenue to New avenue.....	Patrick Farley....	J. McIntyre Smith...	Nathan Frank.....	350 "	23,435 30	18,820 00	5,646 00	13,174 00	
One Hundred and Fifty-seventh street, Tenth avenue to Boulevard.....	William E. Dean....	W. V. Smith.....	Wm. J. Delahanty....	180 "	12,868 50	10,278 00	3,083 40	7,194 60	
One Hundred and Sixty-second street, Tenth to Edgecomb avenue.....	F. Thilemann, Jr....	W. V. Smith.....	Frederick S. Heiser..	100 "	10,804 25	1,945 00	583 50	1,361 50	
One Hundred and Eighty-fifth street, Tenth avenue to Kingsbridge road.....	William J. Reilly....	W. V. Smith.....	Andrew J. Fleming....	90 "	12,336 64	2,030 50	609 15	1,421 35	
<b>Boulevard and Avenues.</b>									
Regulating, Grading, Curb, Flagging, Paving, etc.—									
Morningside avenue, One Hundred and Tenth street to Tenth avenue.....	J. W. O'Grady.....	Peter J. Moran.....	James McCarthy.....	350 "	60,593 10	117,856 82	35,357 02	82,499 80	Work completed, but not yet accepted.
Morningside avenue, East, and One Hundred and Twenty-third street.....	L. W. Johnson.....	Peter J. Moran.....	.....	425 "	57,611 54	57,049 40	17,114 82	39,934 58	Work completed, but not yet accepted.
Eleventh avenue, One Hundred and Fifty-fifth street to Kingsbridge road.....	M. Noonan.....	G. F. Babcock.....	.....	300 "	65,523 20	53,545 60	16,063 68	37,481 92	Work completed, but not yet accepted.
Total.....					\$941,746 03	\$474,642 82	\$142,392 82	\$332,250 00	

## Document "H."

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF STREETS AND ROADS, NO. 31 CHAMBERS STREET,  
NEW YORK, January 9, 1884.

ROLLIN M. SQUIRE, Esq., Commissioner of Public Works:

SIR—In compliance with instructions, I have the honor to submit herewith my report for the quarter ending December 31, 1884, of the work done and material used and the amount expended on "Boulevards, Roads and Avenues, Maintenance of"; also "Boulevards—Salaries," and on "Roads, Streets and Avenues Unpaved, Maintenance of"; "Contingencies—Department of Public Works"; also the amount deposited with the City Chamberlain to the credit of the General Fund.

Respectfully,

GEO. E. BABCOCK, Superintendent of Streets.

The following is a statement of the principal work done and material used and removed on the Macadam roads, streets, avenues and boulevards, during the quarter ending December 31, 1884:

Repairing Seventieth street, between Eastern Boulevard and East river.  
Repairing Seventy-second street, between Fifth avenue and Avenue A—  
3 cubic yards broken stone.  
2 cubic yards sand.  
Repairing Seventy-third street, between First avenue and East river.  
Repairing Seventy-third street, west of the Boulevard—  
3 cubic yards earth.  
Repairing Seventy-second street, between Eighth avenue and Riverside Drive—  
4 cubic yards earth.  
106 cubic yards earth removed.  
Repairing Seventy-seventh street, between Boulevard and Tenth avenue—  
120 feet curb-stone relaid.  
120 feet gutter-stone relaid.  
122 feet flagging relaid.  
17 cubic yards earth.  
Repairing Eightieth street, between Boulevard and Tenth avenue—  
29 cubic yards earth.  
Repairing Eighty-first street, between Boulevard and Tenth avenue—  
29 cubic yards earth.  
Repairing Eighty-third street, between Boulevard and Riverside Drive—  
28 cubic yards earth.  
Repairing Eighty-fourth street, between Boulevard and Tenth avenue—  
9 cubic yards earth.  
Repairing Eighty-seventh street, between Fifth and Madison avenues.  
Repairing Eighty-eighth street, between Fourth and Madison avenues.  
Repairing Eighty-ninth street, between Fifth and Madison avenues.  
Repairing Ninety-fourth street, between Fifth and Madison avenues.  
Repairing Ninety-sixth street, between Ninth and Tenth avenues—  
13 cubic yards dirt removed.  
Repairing Ninety-eighth street, between Boulevard and Tenth avenue—  
5 cubic yards earth.  
Repairing Ninety-ninth street, between Ninth and Tenth avenues—  
4 cubic yards earth.  
Repairing One Hundredth street, between Eighth and Ninth avenues—  
260 feet flagging relaid.  
281 feet flagging relaid.  
225 cubic yards earth.  
6 cubic yards earth removed.  
Repairing One Hundred and First street, between Boulevard and Eleventh avenue—  
78 cubic yards earth.  
50 cubic yards earth removed.  
Repairing One Hundred and Third street, between Fourth and Madison avenues.  
Repairing One Hundred and Fourth street, between Fourth and Madison avenues.  
Repairing One Hundred and Fifth street, between Fourth and Madison avenues.  
Repairing One Hundred and Seventh street, between Fourth and Madison avenues.  
Repairing One Hundred and Sixth street, between Fourth and Fifth streets, and between Ninth and Tenth streets—  
133 cubic yards earth.  
93 cubic yards dirt removed.  
Repairing One Hundred and Tenth street, between Sixth and Seventh avenues—  
1 cubic yard of earth.  
Repairing One Hundred and Thirteenth street and Seventh avenue.  
Repairing One Hundred and Fifteenth street, between Sixth and Seventh avenues—  
34 cubic yards earth.

Repairing One Hundred and Fifteenth street, between Boulevard and Riverside Drive—  
161 cubic yards earth.  
Repairing One Hundred and Sixteenth street, between Seventh and Eighth avenues—  
6 cubic yards earth.  
Repairing One Hundred and Sixteenth street, between Fifth and Madison avenues—  
24 cubic yards sand spread.  
Repairing One Hundred and Sixteenth street, west of Pleasant avenue—  
15 cubic yards earth.  
128 cubic yards earth spread.  
Repairing One Hundred and Eighteenth street, between Sixth and Seventh avenues—  
4 cubic yards earth.  
31 cubic yards earth removed.  
Repairing One Hundred and Nineteenth street, west of Sixth avenue—  
3 cubic yards earth.  
Repairing One Hundred and Twenty-first street and Park avenue—  
8 cubic yards Telford.  
Repairing One Hundred and Twenty-second street and St. Nicholas avenue—  
3 cubic yards earth.  
Repairing One Hundred and Twenty-third street, between Eighth and Park avenues—  
18 cubic yards earth removed.  
Repairing One Hundred and Twenty-fourth street, between Third and Fifth avenues—  
5 cubic yards sand.  
8 cubic yards stone.  
70 cubic yards earth.  
Repairing One Hundred and Twenty-fifth street and Eastern Boulevard—  
3 cubic yards earth.  
Repairing One Hundred and Thirty-second street, between Sixth and Seventh avenues—  
226 cubic yards earth.  
Repairing One Hundred and Thirty-third street, between Sixth and Seventh avenues—  
28 cubic yards sand removed.  
Repairing One Hundred and Thirty-fifth street, between Sixth and Seventh avenues—  
28 cubic yards sand.  
605 cubic yards earth.  
Repairing One Hundred and Forty-second street, east of the Boulevard—  
4 cubic yards earth.  
Repairing One Hundred and Forty-third street, east of the Boulevard—  
99 cubic yards earth.  
100 cubic yards stone.  
Repairing One Hundred and Forty-fourth street, east of the Boulevard—  
14 cubic yards dirt removed.  
Repairing One Hundred and Forty-fifth street, between Sixth avenue and Hudson river—  
2 cubic yards limestone chips.  
6 cubic yards sand.  
18 cubic yards dirt removed.  
6 cubic yards sand removed.  
Repairing One Hundred and Forty-seventh street and Seventh avenue.  
Repairing One Hundred and Fifty-second street, west of the Boulevard—  
179 cubic yards earth.  
Repairing One Hundred and Fifty-sixth street and Eleventh avenue—  
6 cubic yards earth.  
14 cubic yards stone.  
Repairing One Hundred and Fifty-eighth street, west of Eleventh avenue—  
122 feet flagging relaid.  
245 cubic yards earth.  
95 cubic yards stone.  
Repairing One Hundred and Fifty-ninth street, between Tenth and Eleventh avenues—  
13 cubic yards stone.  
61 cubic yards earth.  
Repairing Avenue A, between Fifty-seventh and Eighty-sixth streets—  
3 cubic yards broken stone.  
1 cubic yard sand.  
Repairing Avenue A and One Hundred and Twentieth street—  
16 cubic yards Telford.  
Repairing Avenue B, between Eighty-fourth and Eighty-sixth streets.  
Repairing Madison avenues, between Ninety-second and One Hundred and Third streets—  
10 cubic yards earth.  
Repairing Fifth avenue, between Fifty-eighth and One Hundred and Tenth streets—  
7 cubic yards broken stone.  
2 cubic yards sand.

Farmer's Bridge road, between Kingsbridge road and Harlem river.

Total saving to the city of .....	\$1,506 90
-----------------------------------	------------

The following is a statement of moneys received for use of steam and horse rollers, water-cart and for old materials sold at public auction, and the same was deposited to the credit of the General Fund. .... \$278 83

## Macadamized Avenues, Streets, etc.

LOCATIONS.	LENGTH BY FEET.	LENGTH BY MILES.	ROAD WIDTH.	SQUARE FEET.	SQUARE FEET IN RETURNS.	SQUARE YARDS.	ACRES.	REMARKS.
Avenue A, from north side of One Hundred and Nineteenth street to south side of One Hundred and Twenty-fourth street.....	1,319.15	0.250	60.00	79,149.00	2,400.00	9,061.00	1.872	
Tenth avenue, from north curb of One Hundred and Fifty-fifth street to north side of One Hundred and Ninety-fourth street.....	10,913.66	2.067	40.00	436,546.40	.....	48,505.15	10.021	
Sixth avenue, from north curb of One Hundred and Tenth street to south curb of One Hundred and Forty-fifth street.....	9,518.88	1.803	80.00	761,510.40	18,300.00	86,645.60	17.901	
Seventh avenue, from north curb of One Hundred and Tenth street to north curb of One Hundred and Fifty-fourth street.....	11,602.35	2.198	80.00	928,188.00	12,900.00	104,565.33	21.604	
Avenue A, from north side of Fifty-seventh street to south line of Eighty-sixth street.....	7,479.07	1.415	60.00	448,204.20	6,905.00	50,567.68	10.447	
One Hundred and Twenty-second street, from west house-line of Tenth avenue to east line of Riverside Drive.....	1,293.00	0.245	42.00	54,306.00	.....	6,034.00	1.247	
One Hundred and Tenth street, from First to Eighth avenue.....	6,095.00	.....	30.00	182,850.00	1,514.00	20,484.88	4.232	
One Hundred and Tenth street, from west curb of Eighth avenue to east curb of Riverside Drive.....	3,043.00	1.730	40.00	121,720.00	.....	13,524.44	2.794	
First avenue, from south curb of One Hundred and Ninth street to north curb of One Hundred and Sixteenth street.....	1,932.81	0.367	60.00	115,968.60	1,680.00	13,072.06	2.701	
Fifth avenue, from north curb of Fifty-eighth street to south curb of One Hundred and Twentieth street.....	16,393.76	3.105	42.00	698,887.92	10,350.00	77,654.21	16.044	
Seventy-second street, from north curb of Avenue A to Fifth avenue.....	3,829.00	.....	40.00	153,160.00	1,570.00	17,192.22	3.552	
Seventy-second street, from Eighth avenue to Riverside Drive.....	2,957.00	1.285	60.00	177,420.00	600.00	19,780.00	4.086	
One Hundred and Fifty-second street, from west curb of Avenue St. Nicholas to east curb of Boulevard.....	1,433.88	0.271	30.00	43,016.40	.....	4,779.60	0.987	
Tenth avenue, from south curb of One Hundred and Fifty-first street to south curb of One Hundred and Fifty-fifth street.....	1,005.32	0.190	70.00	70,372.40	300.00	7,852.49	1.622	
One Hundred and Fifty-fifth street, from west curb of Avenue St. Nicholas to east curb of Boulevard.....	1,307.50	0.248	60.00	78,450.00	.....	8,716.66	1.800	
One Hundred and Twentieth street, from 5 feet east of east curb of Fifth avenue to west curb of Mt. Morris avenue.....	430.00	0.081	30.00	12,960.00	.....	1,433.33	0.296	
Mount Morris avenue, from south curb of One Hundred and Twentieth street to 14 feet south of south curb of One Hundred and Twenty-fourth street.....	1,048.32	0.199	60.00	62,899.20	450.00	7,038.80	1.454	
Fifth avenue, from north curb of One Hundred and Twenty-fourth street to 10 feet south of south curb of One Hundred and Thirtieth street.....	1,566.00	0.297	40.00	62,640.00	2,160.00	7,200.00	1.487	
One Hundred and Forty-fifth street, from west curb of Sixth avenue to east curb of Boulevard.....	4,243.58	0.804	60.00	254,614.80	950.00	28,396.08	5.866	
One Hundred and Sixteenth street, from Pleasant to Fourth avenue.....	2,905.50	.....	40.00	116,220.00	960.00	13,020.55	2.690	
One Hundred and Sixteenth street, from Fourth to Sixth avenue.....	2,821.00	1.085	60.00	169,260.00	500.00	18,862.22	3.898	
One Hundred and Fifty-fourth street, from west curb of Avenue St. Nicholas to east curb of Tenth avenue.....	507.88	0.096	30.00	15,236.40	.....	1,692.93	0.349	
Ninth avenue, from west curb of One Hundred and Twenty-third street to south curb of One Hundred and Twenty-fifth street.....	472.96	.....	60.00	28,377.60	300.00	3,186.40	0.658	
Ninth avenue, from north side of One Hundred and Twenty-fifth street to 12 feet north of south curb of One Hundred and Twenty-sixth street.....	263.83	0.140	60.00	15,829.80	300.00	1,792.20	0.370	
Manhattan street, from west curb of Avenue St. Nicholas to east curb of Ninth avenue.....	439.00	.....	70.00	30,730.00	.....	3,414.33	0.715	
Manhattan street, from west curb of Ninth avenue to One Hundred and Twenty-fifth street.....	250.00	0.130	Triangular.	12,671.00	.....	1,407.88	0.290	
One Hundred and Twenty-third street, from east side of Eighth avenue to west side of Mt. Morris avenue.....	217.00	0.041	30.00	65,100.00	.....	7,233.33	1.494	
One Hundred and Twenty-fourth street, from west curb of Avenue A to 5 feet west of west curb of Fifth avenue.....	3,859.00	.....	30.00	115,770.00	1,324.00	13,010.44	2.688	
One Hundred and Twenty-fourth street, from west curb of Sixth avenue to east curb of Seventh avenue.....	870.00	0.895	30.00	26,100.00	.....	2,900.00	0.599	
Grand Boulevard, from south curb of Manhattan street to north curb of One Hundred and Fifty-fifth street.....	7,202.08	.....	102.00	734,612.16	7,350.00	82,440.24	17.035	
Between Parkway curbs at street intersections.....	2,578.83	.....	22.00	56,734.26	.....	.....	.....	
Grand Boulevard, from Circle at Fifty-ninth street to south curb of Manhattan street.....	18,315.92	5.321	80.00	1,465,273.60	19,491.90	171,277.75	35.387	
St. Nicholas place, from 15 feet 5 inches south of north curb of One Hundred and Fiftieth street to 13 feet north of south curb of One Hundred and Fifty-first street.....	243.00	0.046	40.00	9,720.00	.....	1,080.00	0.223	
One Hundred and Fiftieth street, from St. Nicholas place to east curb of St. Nicholas avenue.....	78.00	0.015	15.50	1,209.00	.....	134.33	0.023	
One Hundred and Fifty-first street, from east curb of St. Nicholas avenue to west side of St. Nicholas place.....	96.50	0.018	30.00	2,895.00	.....	321.66	0.066	
Avenue St. Nicholas, from north curb of One Hundred and Twenty-fifth street to 5 feet north of north curb of One Hundred and Fifty-fifth street.....	8,149.70	.....	55.00	448,233.50	8,730.95	50,773.82	10.490	
Avenue St. Nicholas, from west house-line of Sixth avenue to south house-line of One Hundred and Eleventh street.....	85.00	.....	Triangular.	1,700.00	.....	188.88	0.039	
Avenue St. Nicholas, from south house-line of One Hundred and Eleventh street to east curb of Seventh avenue.....	1,334.00	.....	55.00	73,370.00	1,750.60	8,346.73	1.724	
Avenue St. Nicholas, from west curb of Seventh avenue to east curb of Eighth avenue.....	1,544.00	.....	55.00	84,920.00	1,584.45	9,611.60	1.955	
Avenue St. Nicholas, from west curb of Eighth avenue to 10 feet south of south curb of One Hundred and Twenty-fifth street.....	1,036.75	2.302	55.00	57,021.55	704.20	6,413.97	1.325	
Morningside avenue, east of north curb of One Hundred and Tenth street to north side of One Hundred and Twentieth street.....	.....	.....	.....	.....	.....	.....	.....	
Morningside avenue, east of north curb of One Hundred and Tenth street to north line of One Hundred and Fourteenth street.....	1,070.27	.....	42.00	49,900.41	.....	5,544.49	1.145	
Morningside avenue, east of north line of One Hundred and Fourteenth street to south line of One Hundred and Sixteenth street.....	566.85	.....	61.00	24,034.74	.....	2,670.46	0.551	
Morningside avenue, east of south line of One Hundred and Sixteenth street to north line of One Hundred and Twentieth street.....	1,932.83	0.676	60.00	128,292.39	.....	14,251.71	2.945	
St. Nicholas place, from junction of east curb of St. Nicholas avenue to north side of One Hundred and Fifty-fifth street, except where paved.....	1,490.00	0.280	40.00	59,004.00	.....	6,556.00	1.354	
Totals.....	145,732.18	27.600	.....	8,535,018.13	103,080.10	958,638.45	198.051	

N. B.—472 receiving-basins to be cleaned and maintained; 3,670 trees to be pruned, watered, and generally cared for.

GEORGE E. BABCOCK, Superintendent of Streets.

January 2, 1885.

## Document "I."

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF LAMPS AND GAS,  
NEW YORK, January 10, 1885.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—Herein I have the honor to submit a report of the transactions of the Bureau of Lamps and Gas for the quarter ending December 31, 1884, with a summary of the same for the whole year.

In Exhibit "A" will be found a statement showing the amounts paid for gas to the various public markets, offices, armories, etc., and for the fitting-up, lighting, and maintenance of the public lamps for the first, second, third and fourth quarters, and the sums total for the entire year.

In Exhibit "B" is a summary of the appropriation for "Lamps and Gas and Electric Lighting," and this shows an expenditure during the fourth quarter of two hundred and thirty-five thousand nine hundred and thirty-eight dollars and fifty-seven cents (\$235,938.57), and for the year of six hundred and forty-two thousand seven hundred and eighty-nine dollars and twenty-eight cents (\$642,789.28), leaving a balance of thirty thousand two hundred and ten dollars and seventy-two cents (\$30,210.72), of which balance thirty thousand two hundred dollars has been transferred by the Board of Estimate and Apportionment to various accounts of the Department, leaving a surplus balance of ten dollars and seventy-two cents, with no liabilities against the appropriation.

Exhibit "C" is a summary of the appropriation for "Salaries—Lamps and Gas and Electric Lighting," and this shows an expenditure during the fourth quarter of fifteen hundred and seventy-eight dollars (\$1,578), and for the year of sixty-two hundred and thirty-three dollars and twenty-two cents (\$6,233.22), leaving a surplus balance of thirty-two dollars and seventy-eight cents (\$32.78).

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 company during the quarter and the year; two hundred and seventeen new gas-lamps having been lighted, seventy-one gas-lamps relighted, and seventy-two gas-lamps discontinued during the quarter; and six hundred and sixty-five new gas-lamps lighted, five hundred and nineteen new electric-lamps lighted, one hundred and ninety-one gas-lamps relighted, and twenty-three hundred and forty-five gas-lamps discontinued during the year, of which discontinued gas-lamps twenty-one hundred and twelve were displaced by the five hundred and nineteen new electric-lamps. The total number of lamps lighted on December 31, 1884, was twenty-two thousand nine hundred and twenty-three gas, and six hundred and forty-seven electric; the net decrease of gas-lamps during the year was fourteen hundred and eighty-nine, and the increase of electric-lamps five hundred and nineteen.

Exhibit "E" is a statement showing the lowest, highest and average illuminating power of the gases supplied to the city by the New York, Manhattan, Metropolitan, New York Mutual, Municipal, Harlem and Knickerbocker Gas-light Companies during the quarter and the year.

Exhibit "F" is a copy of the contract with the New York Gas-light Company for the lighting of the public lamps in the district south of Grand street, the contracts with the other gas companies being similar in all respects, except as to districts and prices, the rates paid all the companies being shown further on.

Exhibit "G" is a copy of the time-table for lighting and extinguishing the public gas-lamps during the contract year. The electric-lamps are lighted about thirty to forty minutes after sunset, and extinguished about thirty minutes before sunrise, according to the conditions of the weather.

The following statement shows the number of new gas-lamps fitted up, lamp-posts removed, reset, straightened, etc., during the year:

BY WHAT GAS COMPANY.	NEW LAMPS FITTED UP.	LAMP-POSTS REMOVED.	LAMP-POSTS RESET.	LAMP-POSTS STRAIGHTENED.	COLUMNS REFITTED.	COLUMNS RELEADED.
New York Gas-light Co.....	19	31	39	288	37	326
Manhattan Gas-light Co.....	22	20	38	184	25	126
Metropolitan Gas-light Co.....	64	25	35	187	4	55
New York Mutual Gas-light Co.....	2	5	4	26	2	17
Harlem Gas-light Co.....	239	81	58	441	17	13
Central Gas-light Co.....	130	120	114	136	1	3
Northern Gas-light Co.....	109	2	5	249	..	5
Yonkers Gas-light Co.....	2	...	...	131	..	..
Totals.....	587	284	293	1,642	87	545

The following table will show the number of new lamps lighted by the several gas companies in each of the years from 1878 to 1884, both inclusive:

BY WHAT GAS COMPANY.	NEW LAMPS LIGHTED IN—						
	1878.	1879.	1880.	1881.	1882.	1883.	1884.
New York Gas-light Co.....	150	78	30	26	31	17	18
Manhattan Gas-light Co.....	72	131	58	41	67	53	22
Metropolitan Gas-light Co.....	148	110	137	126	146	156	67
New York Mutual Gas-light Co.....	..	152	1	..	3	..	5
Harlem Gas-light Co.....	130	134	138	99	219	255	308
Central Gas-light Co.....	89	115	42	65	105	75	134
Northern Gas-light Co.....	27	90	..	67	102	124	109
Yonkers Gas-light Co.....	..	..	16	14	187	36	2
Totals.....	615	810	422	438	860	716	566
* Brush Electric Illuminating Co.....	..	..	23	..	32	..	292
* United States Illuminating Co.....	..	..	..	..	73	..	227

\* Electric-lamps.

The following statement shows the average number of lamps lighted under the supervision of the Department of Public Works, in each of the years from 1877 to 1884, inclusive:

BY WHAT COMPANY.	AVERAGE NUMBER OF LAMPS LIGHTED IN—							
	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.
New York Gas-light Co.....	2,890	3,148	3,381	3,560	3,565	3,461	3,369	3,046
Manhattan Gas-light Co.....	5,954	6,618	6,687	6,804	6,677	6,495	6,477	6,053
Metropolitan Gas-light Co.....	3,767	3,800	4,068	4,282	4,349	4,529	4,658	4,504
New York Mutual Gas-light Co.....	1,323	587	800	1,037	986	826	768	591
Harlem Gas-light Co.....	2,554	3,960	4,280	4,682	4,774	4,950	5,157	5,422
Central Gas-light Co.....	1,509	1,649	1,764	1,834	1,874	1,938	2,007	2,072
Northern Gas-light Co.....	969	989	1,026	1,090	1,117	1,181	1,308	1,429
Yonkers Gas-light Co.....	..	72	72	76	91	207	295	325
* N. Y. and N. J. Globe Gas-light Co.....	2,106	506	510	..	..	..	..	..
† Brush Electric Illuminating Co.....	..	..	..	23	..	55	55	246
† United States Illuminating Co.....	..	..	..	..	..	73	73	243
Totals.....	21,203	21,419	22,590	23,365	23,433	23,715	24,167	23,931

\* Lighted by naphtha.

† Electric-lamps.

The decrease shown in the above statement of the average for the year 1884, of the lamps of the New York, Manhattan, Metropolitan, and New York Mutual Gas Companies, was caused by the discontinuance of gas-lamps in the respective districts in consequence of the erection of electric-lamps.

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

	Lineal feet.
By New York Gas-light Co.....	16,799
By Manhattan Gas-light Co.....	2,210
By Metropolitan Gas-light Co.....	9,470
By New York Mutual Gas-light Co.....	3,003
By Municipal Gas-light Co.....	38,596
By Harlem Gas-light Co.....	3,842
By Knickerbocker Gas-light Co.....	135,670
By Equitable Gas-light Co.....	7,743
By Central Gas-light Co.....	7,600
By Northern Gas-light Co.....	9,682
By Yonkers Gas-light Co.....	.....

Total laid in 1884, 428,178 miles, or..... 224,933

	Lineal feet.
The New York Gas-light Co. has taken up or abandoned.....	49,025
The Manhattan Gas-light Co. has taken up.....	1,645
The Municipal Gas-light Co. has taken up.....	2,091
The Harlem Gas-light Co. has taken up.....	9,682

Total taken up or abandoned, 111,443 miles, or..... 62,443

The total miles of gas-mains in the streets of this city on December 31, 1884, was as follows:

	Miles.	Feet.
New York Gas-light Co.....	106	2,750
Manhattan Gas-light Co.....	175	1,851
Metropolitan Gas-light Co.....	145	3,010
New York Mutual Gas-light Co.....	120	400
Municipal Gas-light Co.....	76	2,370
Harlem Gas-light Co.....	138	321
Knickerbocker Gas-light Co.....	68	2,947
Equitable Gas-light Co.....	44	4,066
Central Gas-light Co.....	49	5,084
Northern Gas-light Co.....	23	4,550
Yonkers Gas-light Co.....	10	2,610

Total miles of gas-mains, December 31, 1884..... 959 445 8

Of these mains 875,775 miles are on Manhattan Island, and 841,558 miles are in the annexed territory north of Harlem river.

The Equitable Gas-light Company commenced the laying of mains in this city in the month of May, 1883, and it now has, of—

Four-inch main.....	14,871' 5"
Six-inch main.....	104,126' 5"
Eight-inch main.....	41,686' 1"
Twelve-inch main.....	38,022' 0"
Sixteen-inch main.....	19,805' 8"
Twenty-inch main.....	11,591' 9"
Twenty-four-inch main.....	7,213' 0"

Total..... 237,316' 4"

—and it has paid into the City Treasury, as required in the conditions prescribed by the Gas Commission, at the rate of twenty cents per lineal foot, amounting in the aggregate to \$47,463.27. The works of this company, which are now nearly completed, are located on the two blocks of land lying between Thirty-ninth and Forty-first streets and First avenue and East river, and it is now furnishing the public with gas.

The New York Gas-light Company has mains in all that part of the city lying south of Grand street; it lights all the public gas-lamps and supplies gas to all the public buildings and nearly all the private consumers therein. Its gas-works are located at Twenty-first street, East river, and its office at corner of Hester and Elizabeth streets.

The Manhattan Gas-light Company has mains in all that part of the city lying between Grand and Thirty-fourth streets; it lights all the public gas-lamps therein and supplies gas to the public buildings, and to consumers generally throughout the district. It has two gas-works, one located at Fourteenth street, East river, and the other at Eighteenth street, North river, and its office is at Irving place and Fifteenth street.

The Metropolitan Gas-light Company has mains in all that part of the city lying between Thirty-fourth and Seventy-ninth streets; it lights nearly all the public lamps and the public buildings, and supplies gas generally throughout the district. Its gas-works are located at Forty-second street, North river, and its office is at Broadway and Forty-sixth street.

The Harlem Gas-light Company has mains in that part of the city lying between Seventy-ninth street and the Harlem river; it lights all the public lamps therein, supplies gas to the public buildings and to consumers generally throughout the district. Its gas-works are located at One Hundred and Eleventh street, East river, and its office is at One Hundred and Fourteenth street and Third avenue.

The New York Mutual Gas-light Company has mains in various streets or parts of streets between Battery place and Sixty-sixth street, and lights a small portion of the public gas-lamps in various streets between Thirty-fourth and Sixty-fifth streets. Its works are located at Eleventh street, East river, and its office is at Fourth avenue and Sixteenth street.

The Municipal Gas-light Company has mains in various streets or parts of streets between Grand street and Seventieth street, but it does not light any public lamps or public buildings. Its gas-works are located at Forty-sixth street, North river, and its office is at Fourth avenue and Twenty-sixth street.

The Knickerbocker Gas-light Company has mains in various parts of streets between Thirty-fourth street and One Hundred and Thirty-fifth street, but lights no public lamps. Its gas-works are located at Ninety-eighth street, East river, and its office at No. 2008 Third avenue.

The Equitable Gas-light Company has mains in various parts of streets between Canal street and Fifty-seventh street, but lights no public lamps. Its gas-works are at Fortieth street, East river, and its office is at Third avenue and Twenty-fifth street.

The Central Gas-light Company supplies gas to the Twenty-third Ward (formerly town of Morrisania) and lights all the public lamps therein. Its gas-works are located at One Hundred and Thirty-eighth street, Port Morris, and its office is at Alexander avenue and One Hundred and Forty-second street.

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. Its gas-works are located at West Farms, on the Bronx river, and its office is at Fourth avenue, near One Hundred and Seventy-sixth street, Tremont.

The Yonkers Gas-light Company has mains in, supplies gas to, and lights the public lamps in a small section of the Twenty-fourth Ward, formerly town of Kingsbridge. Its gas-works and office are located in the City of Yonkers.

The length of streets lighted during the year 1884 was 8,889 miles.

The total length of streets lighted on December 31, 1884, was 442,312 miles.

The total length of piers lighted on December 31, 1884, was 1,280 miles.

The total length of bridges lighted on December 31, 1884, was 1,780 miles.

The total area of parks lighted on December 31, 1884, was 61 acres.

The total area of Gansevoort Market lighted on December 31, 1884, was 3 1/4 acres.

The following streets were lighted by gas during the year:

Thirty-second street, from First avenue to the East river.

Forty-eighth street, between Tenth and Eleventh avenues.

Fifty-fifth street, from Avenue A to First avenue.

Sixty-seventh street, between Eleventh and Twelfth avenues.

Sixty-ninth street, between Eleventh and Twelfth avenues.

Seventy-second street, north side, from Eighth to Ninth avenue.

Seventy-eighth street, from Ninth to Tenth avenue.

Eightieth street, from Fourth to Madison avenue.

Eighty-first street, from the Boulevard to Riverside Drive.

Eighty-ninth street, from First to Second avenue.

Ninety-third street, from Eighth to Ninth avenue.

Ninety-seventh street, from Third to Lexington avenue.

Ninety-eighth street, from Third to Lexington avenue.

One Hundred and First street, from Boulevard to Riverside Drive.

One Hundred and Eleventh street, from St. Nicholas to Seventh avenue.

One Hundred and Nineteenth street, from Madison to Fourth avenue.

One Hundred and Twentieth street, from Madison to Fourth avenue.

One Hundred and Twenty-seventh street, from Eighth to St. Nicholas avenue.

One Hundred and Thirty-first street, from Sixth to Seventh avenue.

One Hundred and Thirty-fourth street, from Seventh to Eighth avenue.

One Hundred and Thirty-fifth street, between Fifth and Sixth avenues.

One Hundred and Thirty-fifth street, from Eighth to St. Nicholas avenue.

One Hundred and Thirty-sixth street, from Sixth to Seventh avenue.

One Hundred and Fifty-second street, from St. Nicholas avenue to St. Nicholas place.

One Hundred and Fifty-third street, from St. Nicholas avenue to St. Nicholas place.

One Hundred and Fifty-fifth street, north side, from St. Nicholas to Ninth avenue.

One Hundred and Fifty-sixth street, from Tenth avenue to the Boulevard.

One Hundred and Fifty-fourth street, from St. Nicholas to Tenth avenue.

One Hundred and Sixty-first street, between Tenth and Audubon avenues.

Fifth avenue, west side, from Ninetieth to One Hundred and Twentieth street.

Eighty-fourth street, west side, from One Hundred and Twenty-eighth to One Hundred and Forty-first street.

Ninth avenue, from Sixty-sixth to Sixty-ninth street.

Ninth avenue, from Seventy-fourth to Seventy-ninth street.

Ninth avenue, from Eighty-third to Ninety-third street.

Tenth avenue, from One Hundred and Seventh to One Hundred and Tenth street.

Tenth avenue, from One Hundred and Twenty-fifth to Manhattan street.

St. Nicholas place, from One Hundred and Fiftieth to One Hundred and Fifty-fifth street.

The following streets in Twenty-third Ward:

One Hundred and Thirty-fourth street, south side, from Willis to Brook avenue.

One Hundred and Thirty-eighth street, from Mott avenue to Madison Avenue Bridge.

One Hundred and Forty-first street, south side, from Willis to Brook avenue.

One Hundred and Forty-fourth street, south side, from Willis to Brook avenue.

One Hundred and Fifty-first street, east of Robbins avenue.

One Hundred and Sixty-first street, from St. Ann's avenue to Delmonico place.

One Hundred and Sixty-second street, from Fleetwood to Morris avenue.

One Hundred and Sixty-third street, from Third to Cauldwell avenue.

Concord avenue, west side, from Westchester avenue to One Hundred and Sixty-first street.

Concord avenue, west side, from One Hundred and Sixty-fifth to One Hundred and Sixty-sixth street.

Morris avenue, from One Hundred and Thirty-eighth to One Hundred and Fifty-sixth street.

Southern Boulevard, from One Hundred and Forty-ninth street to Legget's lane.

The following in Twenty-fourth Ward:

Franklin avenue, from Fairmount avenue to Waverley place.

Grey street, from Monroe to Clinton avenue.

Jackson avenue, from Kingsbridge road to Clay street.

Kingsbridge road, from Boston avenue to Southern Boulevard.

Morris avenue, from One Hundred and Eighty-third to One Hundred and Eighty-fourth street.

Riverdale avenue, from Bailey avenue to New York City and Northern Railroad.

Rockfield street, from Williamsbridge road west 360 feet.

Summit street, from Williamsbridge road west 360 feet.

Suburban street, from Hull to Bainbridge avenue.

Sedgwick avenue, from Fordham Landing road to Boston avenue.

Waverley place, from Prospect to Franklin avenue.

One Hundred and Seventy-sixth street, from Morris to Fleetwood avenue.

The following statement will show the prices now paid the several gas-light companies, under the existing contracts, for furnishing the gas to, and lighting, extinguishing, cleaning, repairing and maintaining the public lamps for the year ending April 30th next:

GAS COMPANY.	For Gas to and Lighting, Extinguishing, etc., each Lamp, per annum.	For each Lamp-post Straightened.	For each Column Re-labeled.	For each Column Re-fitted.	For each Lamp-post Removed.	For each Lamp-post Reset.	For each New Lamp Fitted-up.
New York Gas-light Co.....	\$17 50	\$1 50	\$1 50	\$3 50	\$3 50	\$10 00	\$10 00
Manhattan Gas-light Co.....	17 50	1 50	1 50	3 50	3 50	10 00	10 00
Metropolitan Gas-light Co.....	17 50	2 00	2 00	3 00	3 00	8 00	8 00
New York Mutual Gas-light Co..	17 50	1 50	1 50	3 50	3 50	10 00	10 00
Harlem Gas-light Co.....	19 50	2 50	2 50	3 50	3 50	8 00	8 00
Central Gas-light Co.....	29 00	1 50	1 50	1 50	3 50	8 00	8 00
Northern Gas-light Co.....	32 00	1 50	1 50	3 00	3 50	8 00	8 00
Yonkers Gas-light Co.....	30 00	1 00	1 00	1 00	1 50	8 00	10 00

#### Electric-lamp Contracts.

United States Illuminating Company, for year ending April 30, 1885, at seventy cents each lamp per night, including fitting-up and every cost of maintenance, for lighting the following streets:

	Lamps.
Broadway, from Battery place to Twelfth street.....	52
East Broadway, from Chatham Square to Grand street.....	20
Bleecker street, from Bowery to Eighth avenue.....	33
Fifth avenue, from Washington Square to Fourteenth street.....	7
South street, from Whitehall to Grand street.....	64
West street, from Battery place to West Eleventh street.....	50
Battery Park.....	20
City Hall Park.....	10
Tompkins Park.....	16
Washington Park.....	15
Gansevoort Market Square.....	13
<b>Total.....</b>	<b>300</b>

Brush Electric Illuminating Company, for year ending April 30, 1885, at seventy cents each lamp per night, including fitting-up and every cost of maintenance, for lighting the following streets:

	Lamps.
Fourteenth street, from North to East river.....	40
Twenty-third street, from North to East river.....	34
Thirty-fourth street, from North to East river.....	36
Forty-second street, from North to East river.....	35
Fifty-first street, from Third to Ninth avenue.....	22
Fourth avenue, from Eighteenth to Thirty-fourth street.....	16
Park avenue, from Thirty-fourth to Forty-second street.....	9
Fifth avenue, from Fourteenth to Fifty-ninth street.....	41
Broadway, from Fourteenth to Fifty-ninth street.....	47
Seventh avenue, from Fourteenth to Fifty-ninth street.....	43
Union Park, 6 lamps on mast, equivalent to.....	12
Madison Park, 6 lamps on mast, equivalent to.....	12
<b>Total.....</b>	<b>347</b>

The 300 lamps of United States Illuminating Company displace 1,492 gas-lamps; and the 347 lamps of Brush Company displace 1,524 gas-lamps; making a total of 647 electric-lamps, costing per year \$175,308.50; displacing 3,016 gas-lamps, which cost per year \$52,780.

The contracts for lighting the public lamps on the streets, avenues, piers, parks and public places are made by the Gas Commission, consisting of the Mayor, Comptroller, and Commissioner of Public Works, under the authority of section 69, chapter 410 of the Laws of 1882; the Superintendent of Lamps and Gas acting as Secretary to said Commission.

At the last session of the State Legislature a law was enacted (chapter 367), entitled "An act to authorize the consolidation of manufacturing corporations." Under the authority of the provisions of this law, the stockholders of the New York, Manhattan, Metropolitan, Municipal, Harlem and Knickerbocker Gas-light Companies, at their several meetings in November last, voted to consolidate their respective interests into one company, under the corporate title of "The Consolidated Gas Company."

of New York," such consolidation going into effect on November 10, when the price of gas to the general public was reduced from \$2.25 per one thousand cubic feet to \$1.75 per thousand feet to consumers using 100,000 cubic feet or less per month, and \$1.50 per thousand feet to consumers using over 100,000 cubic feet per month. Prior to the consolidation of the several companies above mentioned, there were eight gas companies doing business in this city south of the Harlem river, whereas there are now three only, to wit: the Consolidated Gas Company, the New York Mutual Gas-light Company, and the Equitable Gas-light Company; and, as a consequence of this reduction in the number of companies, it is to be hoped that there will be less disturbance of the street pavements than has occurred heretofore.

On December 5 last proposals were invited by the late Commissioner of Public Works for furnishing illuminating gas to the several public markets, armories, court-rooms, public offices, etc., for the calendar year 1885. For this work two bids only were received, one of which was from the Consolidated Gas Company to furnish gas to each and all the public buildings specified in the advertisement, at the rate of one dollar and fifty cents per one thousand cubic feet; and the other was from the Equitable Gas-light Company, for such buildings as were on the line of its mains, at the rate of one dollar and forty cents per thousand cubic feet. A contract has been made with the Consolidated Gas Company for all the buildings bid for except those named in the bid of the Equitable Gas-light Company, and a contract has been made with the latter company for the following buildings, viz.: Essex Market, Jefferson Market, Tompkins Market, Third District Police Court, Fourth District Police Court, Fourth District Civil Court, Sixth District Civil Court, the Clock in Third District Court-house tower, the Twenty-second Regiment Armory, Sixty-ninth Regiment Armory, Seventy-first Regiment, and the Photometric Station at Bowery and Grand street; these buildings being the only ones at present accessible to said company.

The following statement will show the average amount of impurities found in the gases of the several companies, as determined by the analyses made by Dr. E. G. Love, our Gas Examiner, at the laboratories of this Department:

OF WHAT COMPANY.	SULPHUR. (Grs. in 100 cu. ft.)	AMMONIA. (Grs. in 100 cu. ft.)	SULPHURETTED HYDROGEN.
New York Gas-light Co.....	3.43	0.37	None.
Manhattan Gas-light Co.....	27.26	13.15	"
N. Y. Mutual Gas-light Co.....	5.19	0.39	Traces.
Metropolitan Gas-light Co.....	18.67	1.94	None.
Knickerbocker Gas-light Co.....	7.34	0.66	"
Municipal Gas-light Co.....	4.24	0.15	"

The following shows the specific gravity of the gases:

New York Gaslight Co., specific gravity.....	.588 to .616
Manhattan Gas-light Co., ".....	.402 to .422
New York Mutual Gas-light Co., ".....	.674 to .684
Metropolitan Gas-light Co., ".....	.524 to .544
Municipal Gas-light Co., ".....	.626 to .644
Knickerbocker Gas-light Co., ".....	.678 to .681

The gases manufactured by the several gas-light companies of this city are of the following kinds:

New York Gas-light Co., water gas, "Tessie du Motay" process.  
 Manhattan Gas-light Co., coal gas.  
 N. Y. Mutual Gas-light Co., pine wood, naphtha and coal, "Wilkinson's" process.  
 Metropolitan Gas-light Co., coal and naphtha.  
 Harlem Gas-light Co., coal gas.  
 Municipal Gas-light Co., water gas, "Tessie du Motay" process.  
 Knickerbocker Gas-light Co., water gas, "Tessie du Motay" process.  
 Equitable Gas-light Co., water gas, "Jergmanowski" process.  
 Central Gas-light Co., coal gas.  
 Northern Gas-light Co., coal gas.  
 Yonkers Gas-light Co., water gas, "Slade's" process, and coal gas.

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

OF WHAT COMPANY.	AVERAGE MAXIMUM PRESSURE.	AVERAGE MINIMUM PRESSURE.	WHERE TAKEN.	DISTANCE FROM GAS-WORKS.
New York Gas-light Co.....	1.86	1.57	Cor. Bowery and Grand street..	1.80
Manhattan Gas-light Co.....	2.33	1.42	" " "	1.80
N. Y. Mutual Gas-light Co.....	2.83	2.15	" " "	1.80
Municipal Gas-light Co.....	2.33	1.15	" " "	3.00
Metropolitan Gas-light Co.....	1.34	0.88	{ Seventy-ninth street, between } { Second and Third avenues. }	3.00
Harlem Gas-light Co.....	3.04	1.03	{ Seventy-ninth street, between } { Second and Third avenues. }	1.50
Knickerbocker Gas-light Co.....	2.26	1.36	{ Seventy-ninth street, between } { Second and Third avenues. }	1.50

On November 27 last the gas-mains of Harlem Gas-light Company, lying between Seventy-ninth and Eighty-sixth streets, were cut off and disconnected at the latter street, and connected with the mains of the Knickerbocker Gas Company, so that since said date gas has been supplied to the streets within the above section by the Knickerbocker Company; hence, the gas of Harlem Company has not been tested at the Seventy-ninth Street Photometric Station since the disconnection of its mains.

During the year 1884 one hundred and forty-seven resolutions were introduced in the Board of Aldermen affecting the business of the Bureau of Lamps and Gas, and on December 31 there were on file in this office resolutions of the Common Council which, when carried into effect, will require the erection of over one thousand new gas-lamps.

All of which is respectfully submitted.

S. McCORMICK, Superintendent Lamps and Gas.

#### EXHIBIT "A."

Statement showing the Amounts on Vouchers drawn for Gas to the various Public Markets, Armories, Offices, etc., and for Fitting-up, Repairing, Lighting the Public Lamps, etc., for the First, Second, Third and Fourth Quarters of the Year 1884, 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.....	\$201 00	\$177 45	\$393 15	\$630 00	\$1,311 60
Catharine Country Market.....	27 75	18 30	15 60	81 75	143 40
Catharine Meat Market.....	24 90	24 15	25 65	35 40	110 10
Fulton Meat Market.....	331 95	261 30	266 70	360 45	1,220 40
Fulton Country Market.....	481 50	345 90	335 70	475 35	1,638 45
Essex Market.....	33 45	49 50	93 00	71 25	247 20
Centre Market.....	71 25	100 80	198 90	112 95	483 90
Clinton Market.....	65 40	128 40	229 95	166 20	589 95
Union Market.....	8 85	5 70	12 90	14 40	41 85
Tompkins Market.....	108 75	230 85	428 70	325 35	1,093 65
Jefferson Market.....	.....	125 55	122 00	354 60	602 15
First District Police Court.....	215 25	162 75	148 35	206 40	732 75
Second District Police Court.....	70 35	155 55	238 50	202 20	672 60
Third District Police Court.....	33 75	64 35	104 85	14 25	217 20
Fourth District Police Court.....	40 20	87 15	158 10	140 85	436 30
Fifth District Police Court.....	54 60	30 60	7 42	47 47	140 17
Court of Special Sessions.....	11 70	2 10	.....	.....	13 80
First District Civil Court.....	1 80	45	30	1 80	4 35
Second District Civil Court.....	21 30	14 55	14 10	24 45	74 40

	FIRST QUARTER, ENDING MARCH 31.	SECOND QUARTER, ENDING JUNE 30.	THIRD QUARTER, ENDING SEPT. 30.	FOURTH QUARTER, ENDING DEC. 31.	TOTAL.
Fourth District Civil Court.....	\$5 85	\$14 70	\$19 80	\$14 70	\$55 05
Fifth District Civil Court.....	29 55	52 95	74 55	67 35	224 40
Sixth District Civil Court.....	3 00	6 30	11 10	7 65	28 05
Eighth District Civil Court.....	1 80	5 40	7 80	5 25	20 25
Ninth District Civil Court.....	6 29	4 28	45	3 38	14 40
Tenth District Civil Court.....	.....	.....	3 60	2 03	5 63
Court-room, Brown Stone Building.....	112 05	79 35	60 60	94 50	346 60
New Court-house.....	1,610 40	1,234 20	953 70	1,314 45	5,112 75
City Hall.....	444 15	321 75	260 25	452 55	1,484 70
Department of Public Works.....	508 70	181 05	139 80	310 65	940 10
Receiver of Taxes' Office.....	342 30	200 40	103 20	325 65	971 55
Corporation Attorney's Office.....	71 70	62 40	51 30	58 35	243 75
Corporation Counsel's Office.....	.....	.....	.....	18 57	18 57
Assessment Commission's Office.....	5 25	5 55	6 15	10 80	27 75
Tax Commissioners' Office.....	13 20	6 60	3 45	10 50	33 75
Pipe Yard, Rivington street.....	1 35	1 80	2 85	1 35	7 35
County Jail.....	199 35	320 55	650 75	473 10	1,658 70
Clock-tower, Third District Court-house.....	85 80	270 00	430 95	275 85	1,068 60
Engine-house, High Bridge.....	113 17	93 37	94 95	124 20	425 69
Engine-house, Ninety-eighth street.....	102 85	78 06	78 98	110 02	370 79
Photometric Room, Grand street.....	194 85	167 85	155 93	196 87	715 50
Photometric Room, Seventy-ninth street.....	30 67	17 93	17 98	33 09	105 67
Armory, Seventh Regiment.....	11 03	5 25	6 08	7 20	30 56
Armory, Eighth Regiment.....	419 85	.....	1,663 05	918 90	3,001 80
Armory, Ninth Regiment.....	85 95	.....	522 60	253 60	864 15
Armory, Eleventh Regiment.....	239 85	.....	1,020 75	424 35	1,684 95
Armory, Twelfth Regiment.....	49 35	.....	232 15	110 25	411 75
Armory, Twenty-second Regiment.....	84 30	.....	516 45	244 50	845 25
Armory, Sixty-ninth Regiment.....	122 70	.....	1,057 65	733 50	1,913 85
Armory, Seventy-first Regiment.....	61 95	.....	522 60	467 70	1,052 25
Armory, Battery E.....	91 05	.....	445 05	240 60	776 70
Armory, Battery K.....	44 70	.....	235 50	104 10	384 30
Public Bath, Battery.....	11 25	.....	58 50	30 90	100 65
Public Bath, Gouverneur Slip.....	.....	6 60	35 40	10 80	52 80
Public Bath, Duane street.....	.....	4 20	25 80	3 45	33 45
Public Bath, Horatio street.....	.....	3 00	14 40	3 12	20 52
Public Bath, Fifth street, East river.....	.....	9 90	45 60	5 25	60 75
Public Bath, Nineteenth street, East river.....	.....	11 55	31 35	6 00	48 90
Public Bath, Thirty-seventh street, East river.....	.....	2 25	28 05	5 70	36 00
Public Bath, Fifty-first street, North river.....	.....	7 95	33 60	6 42	47 97
Public Bath, One Hundred and Twelfth street, East river.....	.....	4 95	28 35	6 15	39 45
Public Bath, Harlem river.....	.....	9 25	39 89	7 42	56 56
Water Purveyor's Repair Shop, Thirtieth street.....	.....	4 95	5 85	9 15	19 95
Water Purveyor's Repair Shop, Eighty-third street.....	5 62	8 56	5 61	10 36	30 15
Water Purveyor's Repair Shop, One Hundred and Twenty-ninth street.....	13 05	19 12	9 23	24 52	65 92
Electric-lighting, Receiver of Taxes' Office.....	.....	.....	.....	461 66	461 66
Gas examinations.....	312 00	312 00	312 00	312 00	1,248 00
Lighting Public Markets (pay-rolls).....	255 00	281 33	285 00	285 00	1,106 33
Cleaning Photometric Rooms (pay-rolls).....	15 00	.....	15 00	15 00	60 00
New lamp-posts.....	.....	960 00	525 00	1,497 00	2,982 00
New lamp-posts, Twenty-third and Twenty-fourth Wards.....	.....	615 00	922 50	1,037 50	2,575 00
New street-lamps.....	435 00	435 00	797 50	441 75	2,109 25
New street-lamps, Twenty-third and Twenty-fourth Wards.....	.....	391 50	.....	.....	391 50
New boulevard-lamps.....	.....	400 00	.....	600 00	1,000 00
Ornamental lamps for Madison Avenue Bridge.....	.....	.....	625 00	625 00	1,250 00
Gas-holders for Madison Avenue Bridge.....	.....	.....	975 00	975 00	1,950 00
New cross-heads.....	.....	180 00	3 70	315 00	498 70
Iron bolts.....	.....	.....	5 25	5 25	10 50
New lamp-irons.....	.....	368 75	.....	480 00	848 75
New lamp-brackets.....	.....	.....	336 00	336 00	672 00
Street signs.....	.....	.....	2,445 25	2,445 25	4,890 50
Supplies for Photometric Rooms.....	121 07	52 00	.....	.....	173 07
Use of horse and wagon.....	.....	.....	292 50	292 50	585 00
Repairing, refitting, etc., lamps.....	.....	.....	855 50	855 50	1,711 00
Lamp, map and atlases.....	.....	195 00	75 00	270 00	540 00
Drawing materials.....	.....	.....	5 80	.....	5 80
Photometric Rooms, Grand street (rent).....	150 00	150 00	150 00	150 00	600 00
Photometric Rooms, Seventy-ninth street (rent).....	90 00	90 00	90 00	90 00	360 00
Fitting-up new lamps.....	36 00	784 00	384 00	1,650 00	2,854 00
Fitting-up new lamps, Twenty-third and Twenty-fourth Wards.....	.....	176 00	600 00	1,156 00	1,932 00
Resetting and repairing lamp-posts.....	419 50	1,518 00	1,615 50	1,979 00	5,532 00
Resetting and repairing lamp-posts, Twenty-third and Twenty-fourth Wards.....	.....	793 00	186 00	1,164 50	2,143 50
Lighting public lamps.....	62,029 50	93,013 72	86,797 06	113,706 30	355,546 58
Lighting public lamps, Twenty-third and Twenty-fourth Wards.....	18,786 54	28,246 53	28,615 50	39,513 88	115,162 45
Lighting electric-lamps.....	5,817 00	9,716 70	33,947 90	54,700 10	104,181 70
Total.....	\$95,199 35	\$143,731 73	\$167,919 63	\$235,938 57	\$642,789 28

#### RECAPITULATION.

Gas to public offices, etc.....	\$6,732 74	\$5,233 20	\$12,473 17	\$10,764 38	\$35,203 49
Electric-lighting in public offices.....	.....	.....	461 66	461 66	923 32
Supplies to public lamps.....	1,378 07	3,244 08	2,378 00	9,805 25	16,805 40
Supplies to public lamps, Twenty-third and Twenty-fourth Wards.....	.....	1,006 50	922 50	1,037 50	2,966 50
Fitting-up new lamps.....	36 00	784 00	384 00	1,650 00	2,854 00
Fitting-up new lamps, Twenty-third and Twenty-fourth Wards.....	.....	176 00	600 00	1,156 00	1,932 00
Resetting and repairing lamp-posts.....	419 50	1,518 00	1,615 50	1,979 00	5,532 00
Resetting and repairing lamp-posts, Twenty-third and Twenty-fourth Wards.....	.....	793 00	186 00	1,164 50	2,143 50
Lighting public lamps.....	62,029 50	93,013 72	86,797 06	113,706 30	355,546 58
Lighting public lamps, Twenty-third and Twenty-fourth Wards.....	18,786 54	28,246 53	28,615 50	39,513 88	115,162 45
Lighting electric-lamps.....	5,817 00	9,716 70	33,947 90	54,700 10	104,181 70
Total.....	\$95,199 35	\$143,731 73	\$167,919 63	\$235,938 57	\$642,789 28

#### EXHIBIT "B."

Summary of the Appropriation for "Lamps and Gas and Electric Lighting," for 1884, showing the Amount of Expenditure during the Year, with the Balance standing to the Credit of the Appropriation.

Amount appropriated for "Lamps and Gas and Electric Lighting," 1884.....	\$673,000 00
Amount of vouchers drawn in first quarter, ending March 31.....	\$95,199 35
Amount of vouchers drawn in second quarter, ending June 30.....	143,731 73
Amount of vouchers drawn in third quarter, ending September 30.....	167,919 63
Amount of vouchers drawn in fourth quarter, ending December 31.....	235,938 57

Total amount expended during the year 1884..... 642,789 28

Unexpended balance..... \$30,210 72

Of which there was transferred by Board of Estimate and Apportionment—

Sept. 30. To account of appropriation "For Repairs on Essex Market Building".....	\$4,500 00
Nov. 6. To account of appropriation "Contingencies—Department of Public Works".....	1,500 00
" 6. To account of appropriation "Public Drinking Hydrants".....	1,000 00
" 10. To account of appropriation "Lamps and Gas and Electric Lighting—Salaries".....	450 00
" 12. To account of appropriation "Repairing and Renewal of Pipes, Stop-cocks—Salaries".....	4,750 00
" 12. To account of appropriation "Public Buildings—Construction and Repairs".....	5,000 00
" 12. To account of appropriation "Supplies for and Cleaning Public Buildings".....	13,000 00
Total.....	30,200 00

Surplus balance..... \$10 72

## EXHIBIT "C."

Summary of the Appropriation for "Lamps and Gas and Electric Lighting—Salaries," for 1884, showing the Amount Expended during the Year, with the Balance standing to the Credit of the Appropriation.

Amount appropriated for "Lamps and Gas and Electric Lighting—Salaries," 1884.....	\$5,816 00	
Add amount transferred from appropriation for "Lamps and Gas and Electric Lighting".....	450 00	
Total appropriation.....		\$6,266 00
Amount of vouchers drawn in first quarter, ending March 31.....	\$1,553 22	
Amount of vouchers drawn in second quarter, ending June 30.....	1,518 00	
Amount of vouchers drawn in third quarter, ending September 30.....	1,584 00	
Amount of vouchers drawn in fourth quarter, ending December 31.....	1,578 00	
Total expenditures for the year.....		6,233 22
Surplus balance.....		\$32 78

## EXHIBIT "D."

Summary of the "Lamp Account," showing the Number of New Lamps Lighted, Old Lamps Relighted, and Number Discontinued by each Gas Company during the Quarter ending December 31, 1884, also a Statement for the Year.

## NEW YORK GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1884.....	2,831	
Number of new lamps lighted during the quarter.....	15	
Number of old lamps relighted during the quarter.....	6	
Less lamps discontinued during the quarter.....	2,852	13
Number of lamps lighted December 31, 1884.....		2,839

## MANHATTAN GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1884.....	5,737	
Number of new lamps lighted during the quarter.....	9	
Number of old lamps relighted during the quarter.....	3	
Less lamps discontinued during the quarter.....	5,749	1
Number of lamps lighted December 31, 1884.....		5,748

## METROPOLITAN GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1884.....	4,286	
Number of new lamps lighted during the quarter.....	16	
Number of old lamps relighted during the quarter.....	8	
Less lamps discontinued during the quarter.....	4,310	11
Number of lamps lighted December 31, 1884.....		4,299

## NEW YORK MUTUAL GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1884.....	470	
Number of new lamps lighted during the quarter.....	4	
Number of old lamps relighted during the quarter.....	0	
Less lamps discontinued during the quarter.....	474	0
Number of lamps lighted December 31, 1884.....		474

## HARLEM GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1884.....	5,479	
Number of new lamps lighted during the quarter.....	100	
Number of old lamps relighted during the quarter.....	36	
Less lamps discontinued during the quarter.....	5,624	35
Number of lamps lighted December 31, 1884.....		5,589

## CENTRAL GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1884.....	2,116	
Number of new lamps lighted during the quarter.....	30	
Number of old lamps relighted during the quarter.....	18	
Less lamps discontinued during the quarter.....	2,164	12
Number of lamps lighted December 31, 1884.....		2,152

## NORTHERN GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1884.....	1,463	
Number of new lamps lighted during the quarter.....	32	
Number of old lamps relighted during the quarter.....	0	
Less lamps discontinued during the quarter.....	1,495	0
Number of lamps lighted December 31, 1884.....		1,495

## YONKERS GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1884.....	325	
Number of new lamps lighted during the quarter.....	2	
Number of old lamps relighted during the quarter.....	0	
Less lamps discontinued during the quarter.....	327	0
Number of lamps lighted December 31, 1884.....		327

Number of lamps lighted December 31, 1884..... 327

Total number of gas-lamps lighted December 31, 1884..... 22,923

## ELECTRIC-LAMPS.

## BRUSH ELECTRIC ILLUMINATING COMPANY.

Number of lamps lighted September 30, 1884.....	347	
Number of new lamps lighted during the quarter.....	0	
Number of old lamps relighted during the quarter.....	0	
Less lamps discontinued during the quarter.....	347	0
Number of lamps lighted December 31, 1884.....		347

## UNITED STATES ILLUMINATING COMPANY.

Number of lamps lighted September 30, 1884.....	300	
Number of new lamps lighted during the quarter.....	0	
Number of old lamps relighted during the quarter.....	0	
Less lamps discontinued during the quarter.....	300	0
Number of lamps lighted December 31, 1884.....		300

Number of lamps lighted December 31, 1884..... 300

Total number of electric-lamps lighted December 31, 1884..... 647

## RECAPITULATION FOR THE QUARTER.

Number of gas-lamps lighted September 30, 1884.....	22,707	
Number of electric-lamps lighted September 30, 1884.....	647	
Number of new gas-lamps lighted during the quarter.....	217	
Number of new electric-lamps lighted during the quarter.....	0	
Number of gas-lamps relighted during the quarter.....	71	
Number of electric-lamps relighted during the quarter.....	0	
Less gas-lamps discontinued during the quarter.....	72	
Less electric-lamps discontinued during the quarter.....	0	
Total number of gas and electric lamps lighted, December 31, 1884.....		23,570

## Summary of the "Lamp Account" for the year 1884.

## NEW YORK GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1883.....	3,369	
Number of new lamps lighted during the year.....	18	
Number of old lamps relighted during the year.....	26	
Less lamps discontinued during the year.....	3,413	574
Number of lamps lighted December 31, 1884.....		2,839

## MANHATTAN GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1883.....	6,503	
Number of new lamps lighted during the year.....	22	
Number of old lamps relighted during the year.....	25	
Less lamps discontinued during the year.....	6,550	802
Number of lamps lighted December 31, 1884.....		5,748

## METROPOLITAN GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1883.....	4,752	
Number of new lamps lighted during the year.....	67	
Number of old lamps relighted during the year.....	21	
Less lamps discontinued during the year.....	4,840	541
Number of lamps lighted December 31, 1884.....		4,299

## NEW YORK MUTUAL GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1883.....	773	
Number of new lamps lighted during the year.....	5	
Number of old lamps relighted during the year.....	2	
Less lamps discontinued during the year.....	780	306
Number of lamps lighted December 31, 1884.....		474

## HARLEM GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1883.....	5,277	
Number of new lamps lighted during the year.....	308	
Number of old lamps relighted during the year.....	76	
Less lamps discontinued during the year.....	5,661	72
Number of lamps lighted December 31, 1884.....		5,589

## CENTRAL GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1883.....	2,027	
Number of new lamps lighted during the year.....	134	
Number of old lamps relighted during the year.....	41	
Less lamps discontinued during the year.....	2,202	50
Number of lamps lighted December 31, 1884.....		2,152

## NORTHERN GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1883.....	1,386	
Number of new lamps lighted during the year.....	109	
Number of old lamps relighted during the year.....	0	
Less lamps discontinued during the year.....	1,495	0
Number of lamps lighted December 31, 1884.....		1,495

## YONKERS GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1883.....	325	
Number of new lamps lighted during the year.....	2	
Number of old lamps relighted during the year.....	0	
Less lamps discontinued during the year.....	327	0
Number of lamps lighted December 31, 1884.....		327

Total number of gas-lamps lighted December 31, 1884..... 22,923

## ELECTRIC-LAMPS.

## BRUSH ELECTRIC ILLUMINATING COMPANY.

Number of lamps lighted December 31, 1883.....	55	
Number of new lamps lighted during the year.....	292	
Number of old lamps relighted during the year.....	0	
Less lamps discontinued during the year.....	347	0
Number of lamps lighted December 31, 1884.....		347

## UNITED STATES ILLUMINATING COMPANY.

Number of lamps lighted December 31, 1883.....	73	
Number of new lamps lighted during the year.....	227	
Number of old lamps relighted during the year.....	0	
Less lamps discontinued during the year.....	300	0
Number of lamps lighted December 31, 1884.....		300

Total number of electric-lamps lighted December 31, 1884..... 647

## RECAPITULATION FOR YEAR.

Number of gas-lamps lighted December 31, 1883.....	24,412	
Number of electric-lamps lighted December 31, 1883.....	128	
Number of new gas-lamps lighted during the year.....	665	
Number of new electric-lamps lighted during the year.....	519	
Number of old gas-lamps relighted during the year.....	191	
Number of electric-lamps relighted during the year.....	0	
Less gas-lamps discontinued during the year.....	1,375	
Less electric-lamps discontinued during the year.....	25,915	2,345
Total number of gas and electric lamps lighted December 31, 1884.....		23,570

## EXHIBIT "E."

Statement giving the Illuminating Power of the Gas supplied by the several Gas-light Companies during the Quarter ending December 31, 1884, as shown by the Daily Observations at the Photometrical Rooms of the Department of Public Works, with the Average for the Year.

FOR WHAT TIME.	NEW YORK GAS CO.			MUNICIPAL GAS CO.			N. Y. MUTUAL GAS CO.			METROPOLITAN GAS CO.			MANHATTAN GAS CO.			HARLEM GAS 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.		
Week Ending—	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
Oct. 4.....	23.44	25.15	24.05	27.42	29.04	28.32	28.92	31.72	30.21	22.49	23.84	23.14	17.61	17.99	17.79	18.47	19.28	18.83
" 11.....	24.34	25.86	25.23	26.12	27.75	27.25	27.86	31.06	29.54	21.81	23.52	22.51	17.76	18.86	18.29	17.76	19.22	18.31
" 18.....	23.75	25.14	24.75	26.50	27.18	26.91	27.78	30.55	29.11	20.98	23.06	21.61	18.39	19.58	18.78	18.07	18.81	18.41
" 25.....	23.54	25.03	24.37	24.22	27.89	26.26	27.20	30.41	28.70	21.92	23.29	22.52	18.27	19.92	19.10	18.11	19.22	18.70
Nov. 1.....	24.00	25.66	24.96	25.23	29.08	27.09	27.37	28.97	28.54	21.12	22.49	21.91	18.20	19.27	18.65	18.32	18.92	18.71
" 8.....	23.41	25.52	24.34	27.78	28.94	28.21	28.80	29.91	29.02	21.91	23.13	22.52	17.78	19.08	18.65	18.77	19.15	18.80
" 15.....	22.38	23.65	23.10	26.51	28.59	27.87	28.31	30.66	29.35	21.45	23.59	22.55	17.70	19.36	18.66	18.21	20.28	19.38
" 22.....	21.28	24.02	22.72	27.53	28.88	28.13	26.86	28.02	27.41	21.70	22.97	22.43	18.28	18.98	18.70	18.48	20.10	19.21
" 29.....	21.81	23.85	22.73	26.23	28.19	27.13	26.48	28.75	27.10	22.58	23.89	23.09	17.40	18.54	17.88	22.78	23.85	23.31
Dec. 6.....	22.18	23.68	22.87	27.00	28.12	27.68	27.78	28.98	28.35	22.38	23.52	23.01	18.28	18.84	18.50	22.36	23.68	22.87
" 13.....	21.91	23.81	23.29	27.30	28.64	28.22	26.01	28.79	27.47	22.32	25.31	23.38	18.44	19.63	18.82	23.00	25.23	23.75
" 20.....	18.94	23.32	21.30	26.94	29.06	28.31	25.27	30.55	27.22	22.89	24.74	23.92	18.68	19.40	19.04	22.27	26.74	23.92
" 27.....	22.36	23.37	22.83	28.41	29.78	29.07	26.20	28.45	27.43	20.35	21.92	21.17	19.35	19.86	19.63	24.09	25.85	25.08

## Average Illuminating Power, in Candles, for the Year 1884.

FOR WHAT TIME.	NEW YORK GAS CO.			MUNICIPAL GAS CO.			N. Y. MUTUAL GAS CO.			METROPOLITAN GAS CO.			MANHATTAN GAS CO.			HARLEM GAS 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.		
Month.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
January.....	20.56	24.22	22.55	27.67	29.81	28.55	24.67	29.32	27.42	19.52	22.43	21.03	17.34	19.91	18.56	17.63	19.61	19.10
February.....	20.19	25.68	22.72	27.70	30.11	28.28	25.15	29.64	27.51	20.43	22.13	21.04	17.50	19.49	18.77	18.20	19.23	18.75
March.....	20.73	28.57	24.46	27.50	30.42	28.55	26.05	30.96	28.13	18.98	21.82	21.04	17.71	19.82	18.70	18.67	19.27	18.58
April.....	22.26	27.49	25.39	26.79	30.15	28.39	26.48	31.14	28.84	20.91	22.52	21.52	17.30	19.42	18.61	18.20	19.65	18.66
May.....	23.50	27.71	24.52	25.82	31.53	28.85	26.36	33.43	29.96	21.82	25.42	22.97	17.27	20.40	18.41	17.96	20.71	19.08
June.....	22.87	26.71	24.92	26.30	28.69	27.51	25.68	33.94	29.50	21.06	24.48	22.77	17.04	19.48	18.15	17.05	19.90	18.29
July.....	22.54	28.57	24.46	25.22	29.25	27.16	25.23	32.14	28.77	20.87	23.05	21.96	17.03	20.04	17.94	16.12	20.04	17.89
August.....	23.72	26.36	25.26	26.04	29.50	27.96	25.23	32.14	28.58	20.15	24.00	22.33	17.28	20.25	18.51	17.42	20.26	18.37
September.....	21.03	26.15	24.24	26.52	31.32	28.62	26.67	30.67	28.45	21.24	24.52	22.39	17.59	20.03	18.44	17.27	20.00	18.52
October.....	23.44	25.86	24.60	24.22	29.04	27.18	27.20	31.72	29.39	20.98	23.84	22.44	17.61	19.92	18.49	17.76	19.28	18.56
November.....	21.28	25.66	23.58	25.23	29.08	27.68	26.48	30.66	28.28	21.12	23.89	22.50	17.40	19.36	18.51	18.21	20.28	19.02
December.....	18.94	23.81	21.30	26.94	29.78	28.32	25.27	30.55	27.61	20.35	25.31	22.87	18.28	19.86	18.99	.....	.....	.....
Year.....	Average 24.14			Average 28.09			Average 28.54			Average 22.07			Average 18.50			Average 18.62		
Distance from Gas-works.	1.8 Miles.			3.4 Miles.			1.1 Miles.			3.8 Miles.			1.6 Miles.			1.5 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.			Empire, 5 feet.			Empire, 5 feet.		
Gas.....	Water gas (Tessie du Motay).			Water gas (Tessie du Motay).			Pine wood and naphtha.			Coal & naphtha.			Coal gas.			Coal gas.		

## EXHIBIT "F."

## Contract with the New York Gas-light Company.

This agreement, made and entered into this twenty-ninth day of April, in the year one thousand eight hundred and eighty-four, by and between the Mayor, Aldermen and Commonalty of the City of New York, parties of the first part, by the Commissioner of Public Works of said city, acting in conjunction with the Mayor and Comptroller thereof and The New York Gas-light Company of said city, party of the second part:

A. Witnesseth, that the said party of the second part hereto has agreed and by these presents does agree with the said parties of the first part, for the consideration hereinafter mentioned, and under the penalty expressed in a bond bearing even date with these presents and hereunto annexed, to furnish illuminating gas to, and to light and extinguish the public lamps belonging to the parties of the first part in the portions of the City of New York bounded and described as follows, to wit:

In all that part of the City of New York lying south of the centre line of Grand street, from the East river to Sullivan street, though Sullivan street to Canal street; and thence through the centre line of Canal street to the Hudson river, excepting the lamps on Battery Park, City Hall Park, Broadway, from Battery place to Grand street, South street, from Whitehall street to Grand street, West street, from Battery place to Canal street, and East Broadway, from Chatham Square to Grand street, for and during the term of one year, commencing on the 1st day of May, A. D. 1884, and ending on the 30th day of April, A. D. 1885, both days inclusive. And during the same period to repair and paint the lamp-posts and lanterns of such lamps, and replace the cocks, tubes, and burners, cross-heads, lamp-irons and lanterns thereof, and clean and reglaze such lanterns; and to fit up, light and extinguish such new lamps as may be required by the said parties of the first part in said portion of said city, and to repair, paint, clean, reglaze and replace such new lamps and the appurtenances thereof.

B. And it is further agreed that the said parties of the first part shall have the right to order the pipes or conductors of the party of the second part to be extended and new lamps to be erected in and along all the streets, avenues, and public places within the limits aforesaid or adjacent thereto.

C. All the gas or materials furnished, and all the work and labor done by the party of the second part hereto, shall be of the kinds and qualities, and furnished and done in all respects in strict conformity to the terms, conditions and requirements of the hereinafter-contained specifications.

D. Should any alteration or any attachment be required to any portion of the lamps to be lighted under this agreement, for the purpose of using any other material than illuminating gas, then such alteration will be done and attachments placed and maintained on the lamps by the party of the second part hereto at its own cost and expense.

E. If the estimate or bid of the party hereto of the second part included any lamps with which the pipes or conductors of said party of the second part were not connected at the time of the making such estimate or bid, thirty days from the day of the execution of this agreement and such further time, not exceeding thirty days, as may be deemed reasonable by the Commissioner of Public Works, will be allowed the party of the second part in which to connect such pipes or conductors with such lamps; provided, the said party of the second part have or shall procure a grant or franchise from the Mayor, Aldermen and Commonalty, authorizing the laying of gas-mains or conductors in the streets or parts of streets in which the said lamps are located.

F. But no payment on account of any such lamps will be made to the party of the second part for the time so allowed, nor until the same shall have been connected with the mains or conductors of the party of the second part, nor will payment be made on account of any lamp except for the time during which all the requirements herein mentioned shall have been fully performed in accordance with the following

## Specifications:

1. Lighting.—The lamps shall be lighted during such times as the public lamps throughout the City of New York may be required to be lighted, by the regulations of the said parties of the first part, in accordance with a time-table to be furnished by the Commissioner of Public Works. Also, the Department of Public Works may direct and require, by notice to that effect, that all or any portion of said public gas-lamps shall be lighted, and kept burning, at any other time or times during the continuance of this contract; and the said party of the second part shall and will light the same, and continue them burning, in accordance with any and every direction of the Department of Public Works to that effect; provided that, if in compliance with the direction of the Department of Public Works, the whole number of hours during which the said lamps, or a portion of them, are kept burning, shall exceed the number of hours specified in the time-table to be furnished by the Commissioner of Public Works, which time-table shall aggregate a total of 4,000 hours for the term, then, in that case, the said party of the second part shall be entitled to claim and receive, for such additional number of hours, during which the public gas-lamps, or such portion of them, in the district aforesaid, are kept burning in accordance with such direction of the said Department of Public Works, an additional compensation, equivalent to a pro rata increase of the compensation hereinafter allowed, proportioned to the increased number of hours beyond the said number, and the number of lamps so kept burning. And also provided that if, in compliance with the direction of the said Department of Public Works, the number of hours during which the said lamps, or any portion of them, are kept burning, shall be less than the aforesaid number of 4,000 per term, then, in that case, there shall be deducted an amount equivalent to a pro rata decrease of the compensation hereinafter allowed, proportioned to the decrease of the number of hours below the said number, and to the decrease of the number of lamps so kept burning. And also provided, that said Department of Public Works shall have the right at any time to increase or diminish the number of lamps awarded to be lighted by the party of the second part under this contract. If the lamps are to be lighted by means of gas or naphtha, then it is expressly agreed that all the lamps shall be lighted within one hour from the time fixed in the time-table as the time for beginning; also that they shall be lighted either by the means of a torch, or the use of a ladder, and that the lamp-lighters will not be permitted to climb the lamp-posts for such purpose. The party of the second part to keep the service-pipes and stand-pipes (if any are used) of said lamps cleared of all obstructions and in good order, at its own cost and expense, except such service-pipes as shall have been broken or removed by the construction of sewers. If, however, any of the lamps should be lighted by the electric current or electric light, then all such lamps shall be lighted within ten minutes from the time for beginning, and all such electric lamps shall be kept lighted 3,818 hours during the contract.

2. Illuminating Material, Quality of.—If the material to be furnished under this agreement shall be illuminating gas, then such gas shall have an illuminating power of not less than sixteen candles, when tested at a distance of not less than one mile from the place of manufacture, on the improved form of the Bunsen Photometer, by a Sugg-Letheby 15-hole Argand burner, calculated on a consumption of five cubic feet of gas per hour. The regular daily tests, however, will be made with a burner that will obtain from the gas the greatest amount of light, and practicable for use by the consumer, and consuming at the rate of five cubic feet of gas per hour; the testing candle shall be of sperm, of six to the pound, and consuming, as near as possible, one hundred and twenty grains of spermaceti per hour; and no candle shall be used for testing which consumes less than one hundred and fourteen or more than one hundred and twenty-six grains of spermaceti per hour. And, as regards purity, the gas shall be free, within limits not injurious to the public health, from ammonia, sulphuretted hydrogen, and other sulphur and noxious compounds. In case the illuminating material shall be oil or naphtha, then the quantity of light produced by the burner used for such material shall be equal to the quantity (by photometrical test) produced by the sixteen-candle coal-gas, above described, consumed by the 3-feet gas-burners called for in this agreement. But in case the lamps, or any of them, should be lighted by what is known as the Incandescent system of electric lighting, then the quantity of light furnished by each of such lamps shall be equal to the light furnished by a 3-feet gas-burner, such as is used in the public gas-lamps of this city, when burning the sixteen-candle gas called for by this agreement. If, however, the lamps, or any of them, shall be lighted by the "Voltaic Arc" system of electric lighting, then the quantity of light produced by each of such lamps shall not be less than the light produced by eighteen of the standard sperm candles by which illuminating gas is tested, and the light shall be measured on a Bunsen Photometer.

3. Burners.—All the burners to be used for the illuminating material, commonly called illuminating gas, shall be of a capacity to burn three cubic feet of gas per hour, under a pressure of one inch, and each of said burners shall burn three cubic feet of gas per hour during all the time the lamps are required to be kept lighted. Should the illuminating material be oil or naphtha, then the burners to be used for such illuminating material shall give a light (by photometrical test) equal to the light given by the gas-burners in use in the public lamps in the City of New York. The burners are to be kept clear at all times so as to allow a free and unobstructed flow of the illuminating material, and to permit a full and normal flame.

It is agreed, however, that the parties of the first part shall have the right to require that burners of a greater consuming capacity than three cubic feet of gas per hour shall be furnished to the public gas-lamps, or any portion of them, at any time during the aforesaid term of one year; provided that the parties of the first part will pay to the party of the second part, for the lamps so furnished, an additional compensation, equivalent to a pro rata increase of the compensation hereinafter allowed, after deducting from such compensation the sum of (\$4) four dollars per lamp, for the cost of lighting, extinguishing, cleaning, repairing, reglazing and painting, and proportioned only to the increased amount of gas consumed by each burner over and above three cubic feet per hour.

4. Cleaning.—All the lamps are to be kept in a cleanly condition, and they shall be cleaned at least three times in each week, and oftener if the Department of Public Works shall direct or require the same, and at each of these cleanings all the glass shall be thoroughly cleaned both on the inside and outside of the lantern, and all dust and dirt shall be brushed from the frames.

5. Repairing and Reglazing.—The lamps are to be repaired and reglazed within twenty-four hours after any portion of the same shall be broken, and all the work or material for either of said purposes is to be furnished by the party of the second part, without cost to the city. Stained glass of a ruby color shall be placed in the tops of the gas lantern nearest to the several Fire Alarm Signal boxes, and in the tops of the gas lanterns on the street corner nearest said boxes. And in case any of such stained glass should be broken, after being placed in the lamps, then the party of the second part shall procure glass, of the same color, and place and keep the same in the lamps without cost to the city.

6. Repairing Lamp-posts.—Whenever the Department of Public Works shall require that any lamp-post or posts shall be straightened, or that any column or columns be released, or that any lamp-post or posts be repaired in any other manner in this contract specified, the same shall be done within twenty-four hours after said Department shall notify said party of the second part of such requirement.

7. Painting.—The lamp-posts, lamp-irons, brackets and lanterns used for gas or naphtha are to have one heavy coat of best paint, ground in oil, as follows: The lamp-posts, cross-heads, and stand-pipes of bracket lamps to have one coat of dark green paint, blue shade. The square lamp-irons, brackets, and outside of lanterns to have one coat of green paint, pea-green shade; the design being to make a strong contrast between lamp-posts and lanterns. The tin work on inside of lanterns to be painted in all their parts with one heavy coat of best white lead paint; the round lamp-irons and underside of the reflectors of the globe lamps to be painted with one coat of the best white lead paint, and so much of the stand-pipes as project above the lamp-posts to be painted in the same manner as the lamp-posts. The ornamental lamp-posts to be painted in at least three colors. All the material shall be of the best quality, and prepared so as to present a gloss finish. All the painting is to be completed by the first day of November next.

8. Removing Lamp-posts.—All lamp-posts to be taken down which the Department of Public Works may require to be removed for any purpose.

9. Cocks, Tubes, and Burners.—The cocks, tubes, and burners which may become worn out or useless, or which in the opinion of the Department of Public Works are worn out or useless, to be immediately replaced by the party of the second part, at its own cost and expense.

10. Fitting up New Lamps.—New lamps are to be fitted up on any street, avenue, pier, park or public place, wherever the same may be required by the Department of Public Works. The butts and columns are to be placed in a strictly perpendicular position, the socket of the butt to be calked with yarn gasket and melted lead, the lead to be tamped and then trimmed even with rim of butt. The service-pipe and stand-pipe to be of three-quarter inch wrought-iron pipe, the service-pipe to have a direct fall to the main, the service-pipe and bend on bottom of stand-pipe to rest on solid earth to prevent the same from settling and forming a trap; the earth is to be thoroughly tamped about the butt as the same is thrown into the excavation. Bracket-lamps are to be fitted up in lieu of lamp-posts, when required, the brackets and stand-pipes to be fastened to the wall in a firm and secure manner. The service-pipes, stand-pipes and fittings are to be furnished and connected by the party of the second part; the lamp-posts, lamp-irons, lanterns, and brackets will be furnished by the parties of the first part, through the Department of Public Works, to the party of the second part. New lamps, which may be required to burn any other material than illuminating gas, to be fitted up without service-pipes or stand-pipes. All new lamp-posts are to be painted immediately after the same shall have been erected.

11. Lanterns.—All lanterns used for gas or naphtha which, in the opinion of the Superintendent of Lamps and Gas, may become so worn out, broken or useless as to be unfit to be repaired, are to be removed from the posts and other lanterns substituted in lieu thereof (and globe lamps substituted for square lamps) by the party of the second part without charge to the city, when so

ordered by the said Superintendent. The lanterns and globes for that purpose will be furnished by the parties of the first part, through the Department of Public Works, to the said party of the second part.

12. Crossheads and Lamp-irons.—The crossheads and lamp-irons used for gas or naphtha lamps which, in the opinion of the Department of Public Works, may become broken or out of order, are to be replaced on the posts by the party of the second part, without charge to the city. The crossheads and lamp-irons for that purpose are to be furnished by the parties of the first part, through the Department of Public Works, to the said party of the second part.

13. Street Signs.—The glass street-signs to be placed and retained in their proper places and positions in the gas or naphtha lantern; and globes, containing street names, are to be placed upon the gas lamp-posts when required by the Department of Public Works. The signs and globes are to be furnished by the Department of Public Works to the party of the second part.

14. Electric Lamps.—The poles, wires, conductors, lamps, carbon electrodes, and each and every other article or apparatus which may be necessary for electric lighting, are to be furnished and maintained by the party of the second part at its own cost and expense; and the wires and conductors shall be thoroughly insulated and shall be placed in such locations and in such manner as will prevent them from being tampered with or handled by any unauthorized person or persons, and the Corporation of the City of New York shall not be held responsible for any injury or accident which may be occasioned by the wires or conductors. And in case clear or plain glass globes should be used on "Voltaic Arc" lights, and such globes should be deemed objectionable, then the Commissioner of Public Works shall have the right to direct that such clear globes be removed and ground glass globes substituted therefor.

15. Cartages.—All supplies which, under this agreement, may be required to be furnished by the parties of the first part, will be so furnished, but the cartage thereof shall be done by the parties of the second part.

16. Whenever in these specifications or in this agreement of which they form part, the words "party of the second part," or pronouns in place thereof are used, such words and pronouns are to be understood as meaning and referring to the party or parties (as the case may be) of the second part to this agreement.

G. The prices fixed for the various services herein provided to be performed by the party of the second part are as follows:

For furnishing the aforesaid illuminating material for each lamp, including the lighting, extinguishing, cleaning, repairing, reglazing, painting, replacing cocks, tubes, burners, crossheads, lamp-irons, and lanterns thereto, for the aforesaid period of one year, the sum of seventeen dollars and fifty cents (\$17.50).

For each lamp-post straightened, the sum of one dollar and fifty cents (\$1.50).

For each column releaded, the sum of one dollar and fifty cents (\$1.50).

For each column refitted, the sum of three dollars and fifty cents (\$3.50).

For each lamp-post removed, the sum of three dollars and fifty cents (\$3.50).

For each lamp-post reset, the sum of ten dollars (\$10.00).

For each new lamp fitted up, the sum of ten dollars (\$10.00).

H. United States Revenue Tax.—And it is hereby agreed by and between the parties to these presents, that the parties of the first part shall not be called upon to pay to the said party of the second part, any amount for any tax which the Government of the United States may assess upon the illuminating material consumed by the public lamps within the district aforesaid.

I. And it is further agreed, that the said party of the second part shall have the right to lay pipes or conductors at any time between May 1, 1884, and April 30, 1885, upon giving forty-eight hours' written notice to the Department of Public Works of its intention to break up or open any street, avenue, or public place, or part thereof, or to remove any part of the pavement thereof, for the purpose of laying or repairing the pipes or conductors, to conduct the said gas, or other illuminating material. And the party of the second part shall, whenever it shall break up or open any street, avenue, or public place, replace the earth which may be removed in so doing before sunset of the day on which such opening shall be made (the earth to be thoroughly tamped as the same is thrown into the trench or excavation), and replace the pavement, and repave and repair the same, in such reasonable time and manner as the Department of Public Works may direct, and in as good and firm a manner as such street, avenue, or public place, or part thereof, was before being broken up for the purpose aforesaid, and shall, from time to time, as required by the Department of Public Works, readjust and fill and finish the same as long as in the opinion of the Department of Public Works may be necessary on account of the settling of the earth or pavement caused by the opening. Also, all such repairs as shall at any time become necessary to said pavement, by reason of laying the said pipe or conductors, shall be made and done by said party of the second part, at its own cost and expense. And it is also agreed that the party of the second part shall furnish to the Commissioner of Public Works and his assistants may determine whether the gas-lamps are lighted and extinguished in accordance with the time-table furnished by said Commissioner, the party of the second part shall furnish to the Superintendent of Lamps and Gas a map or maps showing the lamps on the district of each lamp lighter, and designating the particular lamp at which each lighter commences to light, and also the lamp at which he completes the lighting; and in extinguishing the lamps, the lamp-lighter shall begin and finish at the same lamps as are designated for beginning and finishing the lighting; and the party of the second part shall notify the Superintendent of Lamps and Gas of any change which may be made in the beginning and finishing point on any lamp district during the term of this contract. And it is further agreed that the party of the second part shall furnish to the Superintendent of Lamps and Gas a report weekly, stating therein the number and location of all new lamps fitted up and lighted, of lamp-posts removed and reset, and of lamps discontinued during the preceding week. And it is hereby expressly provided, that nothing herein contained shall be construed or deemed as granting to the said party of the second part any sole or exclusive right or privilege, or as preventing the said parties of the first part from granting the like privileges as are hereby given to the party of the second part, to any other company, persons, or parties whatsoever, or as preventing any person or persons, residing in or adjacent, or near to any of the said streets, avenues or public places, or parts thereof, from erecting, in or upon his or their own premises, any building or apparatus, to light with gas, his or their own house, store, manufactory, or premises.

J. And it is hereby further agreed, that in case the said party hereto of the second part shall fail or neglect to keep the covenants herein contained, or any of them, or neglect to light, repair, paint, clean or fit up the public lamps as before mentioned, or any of them, it shall be lawful for the Commissioner of Public Works to cause such work to be performed by other parties, and to deduct the expense thereof from any moneys which may be due or may become due to the party of the second part, and to hold the party of the second part and its sureties liable for the amount thereof which may be in excess of the prices stipulated in this agreement.

K. And it is further agreed, that for each and every electric lamp which shall be extinguished or not lighted during any portion of the night, the party of the first part shall deduct from the bills of the party of the second part the full amount which the party of the second part would be entitled to receive if such lamp or lamps had been lighted during the whole night; and for each and every electric lamp which shall be extinguished or not lighted the whole night, the party of the first part shall deduct twice the amount which the party of the second part would be entitled to receive if such lamp or lamps had been lighted the whole night.

L. And it is further provided, that these presents are upon the express condition, that if the said party of the second part, or its successors, shall not well and truly observe, perform, fulfill and keep all and singular the covenants and conditions hereinbefore mentioned and contained, on its part and behalf to be observed, performed, fulfilled and kept according to the true intent and meaning of these presents, then and in that case it shall and may be lawful for the Commissioner of Public Works, on the part of the said parties of the first part, to declare this contract annulled and vacated, and thereupon it shall become and be thenceforth null and void.

M. And it is further agreed, that on or after the first day of each and every month from the month of June to the month of May, 1885, both months inclusive, the party of the second part shall furnish proof, to the satisfaction of the Commissioner of Public Works, that it has fully performed and fulfilled this contract in all the particulars and conditions aforesaid during the preceding month, and particularly that it has furnished the illuminating material of the quality hereinbefore specified, and that all the lanterns have been cleaned three times in each week of said month, and also that the gas-burners have consumed three cubic feet of gas, each per hour, during all the time that the lamps were required to be kept lighted. Upon so doing, the Commissioner shall certify the fact, and in his certificate state the amount to which the party of the second part shall be entitled for all the duties performed by it during such preceding month, and annex thereto a requisition upon the Comptroller to pay the party of the second part therefor the sum to which it shall be so entitled; and without such proof, to the satisfaction of the Commissioner of Public Works, he shall not make any certificate nor requisition on the Comptroller; and the party of the second part shall also furnish proof to the satisfaction of the Comptroller that it has fully performed and fulfilled this contract in all the particulars and conditions aforesaid, and without such proof the said party of

the second part shall not be or become entitled to any payment in respect to services which were required to be done, or should have been done, in such preceding month. On the requisitions aforesaid provided being presented to the Comptroller of the city, he shall, within twenty days thereafter pay to the party of the second part the amount thereof in lawful money.

N. And it is further agreed by and between the parties hereto, that if, at any time before or within thirty days after, the whole work herein agreed to be performed has been completed and accepted by the parties of the first part, any person or persons claiming to have performed any labor or furnished any materials towards the performance or completion of this contract shall file with the said Commissioner of Public Works, Mayor and Comptroller, or with the Bureau having charge of said work, and with the head of the Finance Department of the said City of New York, any such notice as is described in the act of the Legislature of the State of New York, passed May 22, 1878, entitled "An act to secure the payment of laborers, mechanics, merchants, traders and persons furnishing materials towards the performing of any public work in the cities of the State of New York," then and in every such case the said parties of the first part shall retain, anything herein contained to the contrary thereof notwithstanding, from the moneys under their control and due or to grow due under this agreement, so much of such moneys as shall be sufficient to pay off, satisfy and discharge the amount in such notice alleged or claimed to be due to the person or persons filing such notice, together with the reasonable costs of any action or actions brought to enforce such claim or the lien created by the filing of such notice. The moneys so retained shall be retained by the said parties of the first part until the lien thereon created by the said act and the filing of the said notice, shall be discharged pursuant to the provisions of the said act.

O. And it is hereby expressly agreed and understood by and between the parties hereto that the said parties of the first part, their successors and assigns, shall not, nor shall any department or officer of the City of New York be precluded or estopped by any return or certificate made or given by the Engineer, Inspector or other officer, agent, or appointee of said Department of Public Works or said parties of the first part, under or in pursuance of anything in this agreement contained, from at any time showing the true and correct amount and character of the work which shall have been done and materials which shall have been furnished by the said party of the second part, or any other person or persons under this agreement.

P. And the parties hereto declare that this contract is made with reference to the proposals hereto annexed, which are to be taken as part and parcel of the presents.

In witness whereof, the said Mayor, Comptroller and Commissioner of Public Works have hereunto set their hands and seals, on behalf of the said parties of the first part, and the said party of the second part has caused its corporate seal to be hereunto affixed, and its President and Secretary hereto to set their hands, and said parties hereto have executed triplicate copies hereof, one of which is to remain with the Commissioner of Public Works, one other to be filed with the Comptroller of the City of New York, and the third to be delivered to the said party hereto of the second part, the day and date herein first above written.

FRANKLIN EDSON,  
Mayor of the City of New York.  
S. HASTINGS GRANT,  
Comptroller of the City of New York.  
HUBERT O. THOMPSON,  
Commissioner of Public Works.  
THE NEW YORK GAS-LIGHT COMPANY,  
THOMAS K. LEES, President.  
WILLIAM J. CLARK, Secretary.

[SEAL.]

Witness:  
JOHN S. ROUTH.

#### EXHIBIT "G."

Time Table for Lighting and Extinguishing the Public Lamps, for the Year from May 1, 1884, to April 30, 1885.

MONTHS.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.	MONTHS.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.
May 1.....	H. M. 6.45	H. M. 4.00	Nov. 5.....	H. M. 4.40	H. M. 5.45
" 7.....	6.55	3.40	" 12.....	4.30	6.00
" 14.....	7.00	3.30	" 19.....	4.25	6.00
" 21.....	7.10	3.15	" 26.....	4.20	6.10
" 28.....	7.15	3.15	Dec. 3.....	4.20	6.15
June 4.....	7.25	3.15	" 10.....	4.20	6.20
" 11.....	7.25	3.15	" 17.....	4.20	6.20
" 18.....	7.30	3.15	" 24.....	4.20	6.25
" 25.....	7.30	3.15	Jan. 1.....	4.30	6.30
July 2.....	7.30	3.15	" 8.....	4.40	6.30
" 9.....	7.30	3.15	" 15.....	4.50	6.25
" 16.....	7.40	3.15	" 22.....	5.00	6.25
" 23.....	7.20	3.15	" 29.....	5.05	6.15
" 30.....	7.10	3.30	Feb. 5.....	5.10	6.10
Aug. 6.....	7.10	3.45	" 12.....	5.20	5.55
" 13.....	6.25	4.00	" 19.....	5.30	5.55
" 20.....	6.45	4.10	" 26.....	5.30	5.45
" 27.....	6.30	4.20	Mar. 5.....	5.40	5.35
Sept. 3.....	6.15	4.30	" 12.....	5.50	5.20
" 10.....	6.05	4.40	" 19.....	6.00	5.10
" 17.....	5.55	4.50	" 26.....	6.10	4.55
" 24.....	5.40	5.00	Apr. 2.....	6.15	4.40
Oct. 1.....	5.30	5.00	" 9.....	6.25	4.30
" 8.....	5.20	5.10	" 16.....	6.30	4.20
" 15.....	5.10	5.20	" 23.....	6.40	4.10
" 22.....	5.00	5.30	" 30.....	6.45	4.00
" 29.....	4.45	5.35			

Total number of hours, 4,000.

#### 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 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 the 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.

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, 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.

S. McCORMICK, Superintendent of Lamps and Gas.

#### CORPORATION ORDINANCES RELATING TO THE 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-post 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 punished by a fine not exceeding ten dollars or in default of the payment of such fine, by imprisonment not exceeding ten days.

#### Document "K."

CITY OF NEW YORK—DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF REPAIRS AND SUPPLIES,  
SUPERINTENDENT'S OFFICE, No. 31 CHAMBERS STREET, ROOM 15,  
NEW YORK, January 26, 1885.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—In compliance with your instructions, I have the honor to submit the following report of the transactions of this Bureau, for the three months ending December 31, 1884.

Among the principal items of work were the following:

#### THE NEW COURT-HOUSE.

Engine Room—The steam pumps in this building have been overhauled, new springs, valves and rings put in, the steam and water cylinders bored, and the pumps put in complete working order. The boilers have been covered with hair, felt and canvas, and painted. New water and gauge cocks have been put on all the boilers, and new furnace-bars furnished to two of them. A brass slip-joint sleeve has been put on the main steam-pipe, and a new suction-pipe put in.

Supreme Court—Carpets and linoleum have been laid in Part I., General Term, and ante-room, Part II., and Special Term, Part II. The room formerly occupied by the City Chamberlain has been fitted up for the use of the court; the walls painted, a platform and railings put up, and desks and tables furnished. Protective ventilators have been put in the windows of Part III.

Superior Court—In the Clerk's office the walls have been cleaned and painted, the furniture varnished, and the floor oiled. Part II. has been supplied with oak-bent chairs.

Common Pleas—A paneled ash partition has been put up to enclose a lobby to the Judges' room. A new brass chandelier has been put up in the Judges' room, and black walnut chairs furnished. New window-shades have been put on all the windows of this court.

Surrogate's Court—New shades have been put up in the office of this court, and desk rugs furnished.

Finance Department—The furniture and safes of the Finance Department have been removed to the Stewart Building, and two new safes furnished.

#### CITY HALL.

During the last quarter, the system of heating the building has been changed by the introduction of radiators in the several court-rooms, offices, and corridors, and a contract has been entered into with the New York Steam Company for the supply of steam.

Aldermen's Room—The Aldermen's room on the first floor has been furnished with two leather covered lounges, a new mantel mirror, and a newspaper rack. Seven new desks have been supplied for the use of the office, Board of Aldermen.

City Library—New desks and chairs have been furnished for this room.

City Court—The rooms occupied by the City Court have been newly carpeted. The jury rooms have been papered, calcimined and painted. Three soft-coal grates have been put in the rooms occupied by the Clerk and Judges. Patent automatic springs have been put on the court-room doors. New curtains have been hung behind the Judges' bench in Parts I., II., III., and Chambers. New lambrequins have been placed on the windows in Part III., and new window-shades put up in the several rooms occupied by the court. Three new desks have been furnished for the use of the Clerk and stenographers.

#### BROWN-STONE BUILDING.

The boiler has been repaired, the tubes expanded and made tight. The steam pump has been overhauled and new valves put in, and the pump put in good order. The floor tiling in the halls has been repaired. Window shades have been put up in the Clerk's office and in Parts I. and II. of the Court of General Sessions, the Grand Jury room, the Judges' and Recorder's rooms, and in the District Attorney's office. A new iron railing has been put up in the District Attorney's office, and three new self-feeding stoves furnished and put up.

#### No. 31 CHAMBERS STREET.

The two steam pumps have been put in complete working order. A new desk and carpet have been furnished for the Chief Clerk's room, and a new desk supplied for the use of the Engineer in Charge of Sewers.

#### ARMORIES.

The Ninth Regiment Armory—The boiler and furnace have been repaired and a new set of grate-bars furnished and put in place. New locks have been built for the use of the non-commissioned staff.

Sixty-ninth Regiment—The room of Company H has been repaired, the ceiling calcimined, and the walls painted and new gun racks and lockers put in to replace those destroyed by fire. The flooring in the basement has been repaired, a new storm-door put on the entrance on Hall place. The water-closets repaired and the entire basement cleaned, calcimined and painted.

Eleventh Regiment—Three new stoves have been furnished and put up.

Eighth Regiment—Two new self-feeding stoves furnished and put up.

#### MARKETS.

Union Market—The doors and windows have been put in repair, and new storm-doors have been put on the east end of the market, and wire guards put on the windows and sash doors.

Catharine Market—The flooring of the eastern section has been repaired, and new stringers put in where needed.

Tompkins Market—New drain-pipes and strainers have been put in to convey the water from the market floor to the main sewer. The window sashes repaired and glazed.

#### POLICE AND CIVIL COURTS.

Fifth District Police Court—The boiler and furnace have been overhauled and repaired, forty new tubes put in the boiler and the seams recalked, a new water gauge and new valve seat put in, and a new galvanized iron cap put on the chimney.

Fifth District Civil Court—The roof has been repaired and painted.

Seventh District Civil Court—The boiler has been repaired, and a new set of grate-bars furnished.

Eighth District Civil Court—One new self-feeding stove has been furnished and put up.

#### THE COUNTY JAIL.

The iron doors and the locks and bolts have been repaired, and new locks furnished where needed; the roof repaired, chimneys cleaned, and new galvanized iron tops put on.

#### VESEY STREET PIER.

Repairs have been made to this pier in several places; about 4,000 superficial feet of the deck planking have been relaid, and new stringers put in where needed.

#### THE FREE FLOATING BATHS.

The baths have been towed to winter quarters in Gowanus basin.

The children's departments in baths Nos. 8 and 9 have been removed and new ones built and put in their places.

For further statement of work on markets done under supervision of Douglas Smyth, Esq., Architect, I herewith submit his report:

THOMAS H. MCAVOY, Esq., Superintendent of Repairs and Supplies:

SIR—In regard to the quarter ending December 31, 1884, I have to report that the Washington Market was then completed and occupied, with the exception of a portion of the sidewalk stands.

During the year 1884, the westerly portion of Washington Market has been built.

Alterations have been made in the wing of the New Court-house, for the Judges of the Common Pleas.

The Essex Police Court has been entirely remodeled and has now improved accommodations, light and sanitary arrangements.

The Essex Market Building, which was in an unsafe condition, has had new foundations, areas and drainage, and is now safe and healthy.

An iron awning has been built around Fulton and Jefferson Markets.

Yours, etc.,

DOUGLAS SMYTH.

Not the least of the duties of the Bureau during the quarter and the year, was the furnishing of office and court supplies and furniture, and repairing the same. In this report no allusion is made to the furnishing of coal, wood and camp stools to the several courts, civil and police, and the armories of the National Guard.

Very respectfully,

THOMAS H. MCAVOY, Superintendent Repairs and Supplies.

#### Document "L."

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF INCUMBRANCES, ROOM 16, No. 31 CHAMBERS STREET,  
NEW YORK, January , 1885.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—I herewith submit the report of the operations of this Bureau, for the quarter ending December 31, 1884 (months of October, November and December), together with a condensed statement of the entire business during the year:

Number of complaints received and notices issued therefor, against obstructions and incumbrances on sidewalks, streets and avenues..... 476  
Number of removals of merchandise, wagons, trucks, carts, stands, etc., etc., to the Corporation Yard, foot of Gansevoort street, North river, or other suitable place..... 215

Expense of such removals (including 1,658 loads of dirt, stone, rubbish, etc., and 333 dead and dangerous trees, from various parts of the city)..... \$2,911 80

Total expenses for the quarter..... \$3,572 46

Received from owners, for the redemption of seized articles, etc..... \$256 99

Received from sale held at the Corporation Yard, foot of Gansevoort street, North river, Thursday, November 6, 1884..... 776 75

Total..... \$1,033 74

Which amount was duly paid over to the City Chamberlain.

Number of permits issued to builders..... 1,169  
Number of permits issued to cut down trees..... 15  
Number of permits issued for special purposes..... 102  
Number of notices issued to repair and reflag sidewalks..... 295  
Number of notices issued to repair vault covers..... 6

During the year 1884, the total number of complaints received and notices issued therefor were..... 2,398

Removals to the Corporation Yard..... 958

Removals of loads of stone, dirt, refuse, etc..... 2,828

Removals of dead and dangerous trees..... 456

Number of builders' permits issued..... 6,395

Number of special permits issued..... 605

Number of permits issued to cut down trees..... 85

Number of notices to repair and reflag sidewalks..... 768

Number of notices issued to repair vault covers..... 22

Total expenditures for the year..... \$9,555 83

Receipts for articles redeemed by owners..... \$1,096 05

Receipts from sales at Corporation Yard..... 1,137 45

Total..... \$2,233 50

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

The work of this Bureau during the past year has been largely in excess of that of any previous year, and although the demands of business and the erection and repair of buildings will always continue to create and cause obstructions, and thereby temporary inconvenience to the public, there has been a considerable improvement in the condition of many of our streets and avenues.

So much of carelessness and disregard in relation to the condition of the streets and sidewalks of this city, has grown into a habit with many, and so much of it has arisen from the varied and conflicting opinions in the different branches of the city government, that nothing short of constant and vigilant attention to these matters on the part of this Bureau, has enabled it, with the comparatively meagre means and facilities at its command, to cope with the worst violations and to remove such obstructions and incumbrances as were most objectionable and offensive.

It is to be hoped that during the coming year such measures will be adopted by the authorities having in charge the granting of permits and privileges for the use of sidewalks, that every citizen will enjoy equal rights, and that no special favors will be granted to any one.

This would satisfy the demand of every reasonable and right-thinking man, and meet with the grateful appreciation and hearty approval of the general public.

Respectfully,

JOSEPH BLUMENTHAL, Superintendent of Incumbrances.

#### Document "M."

BUREAU OF WATER REGISTER, No. 31 CHAMBERS STREET,  
NEW YORK, December 31, 1884.

Hon. ROLLIN M. SQUIRE, Commissioner of Public Works:

SIR—I herewith transmit statement of moneys received for water rents, penalties and taps, for the quarter ending December 31, 1884:

	Principal.	Penalties.	Taps.
October.....	\$69,151 61	\$1,391 40	\$1,197 00
November.....	73,531 30	2,816 95	831 50
December.....	139,310 52	4,528 20	493 00

\$281,993 43 \$8,736 55 \$2,431 50

Total..... \$293,161 48

Deposit to the credit of "Water Meter Fund, No. 2"—	
October .....	\$2,051 37
November .....	1,130 81
December .....	1,504 61
Total .....	\$4,686 79

"Special Fund—Repairing Streets"—	
October .....	\$1,220 00
November .....	766 00
December .....	654 00
Total .....	\$2,640 00

I have the honor to also submit a statement of moneys received for the year ending December 31, 1884, and placed to the credit of their respective accounts with the City Chamberlain:

Total Receipts.	
Regular water rates and penalties .....	\$1,367,175 20
Water by meter measurement .....	583,140 62
Permits for water for building purposes .....	24,820 00
	\$1,975,135 82
Regular water rates returned in arrears .....	\$143,916 10
Water by meter measurement returned in arrears .....	25,642 51
	169,558 61
Pipe-tapping receipts .....	10,193 50
	\$2,154,887 93
Restoring pavements .....	\$10,209 00
	\$21,547 76
Collections for Meters and Meter Settings—	
Water Meter Fund No. 2 .....	4,018 87
Amount returned to Bureau of Arrears for meters and meter setting .....	
	\$25,566 63

The amount received during the year for restoring pavements of \$10,209 is reserved for repairing openings in street, made for the purpose of connecting water-pipes with buildings, repairing, etc., etc.

The special water account of \$25,566.33 is reserved and set apart to reimburse the city for advances made for meters and meter settings.

The receipts for water rates and penalties, including water by meter measurement and building purposes, show an increase over the last year (1883) amounting to \$116,469.86. The amount returned to the Bureau of Arrears, in excess of last year's return, is \$68,814.80. There however has been a falling off during the year in the receipts for pipe tapping of \$659.50. The total showing an increase in the product from Croton water for the year 1884 over 1883 to be \$184,625.16.

Respectfully submitted,

J. H. CHAMBERS, Water Register.

## FIRE DEPARTMENT.

HEADQUARTERS FIRE DEPARTMENT, CITY OF NEW YORK, }  
January 30, 1885.

Present—President Cornelius Van Cott and Commissioners Henry D. Purroy and Richard Croker.

Charges against members of the Department, upon which evidence was taken on 28th instant and 17th ultimo, were disposed of as follows:

Fireman Timothy J. Crotty, of Engine Co. No. 48. Fined five days' pay, and transferred to Engine Co. No. 27.

Fireman Joseph F. Manning, of Engine Co. No. 30. Charges dismissed.

Assistant Engineer of Steamer Joseph Creagle, of Engine Co. No. 23. Fined two days' pay.

Engineer of Steamer Owen McMinney, of Engine Co. No. 34. Fined two days' pay.

Fireman James Dunn, of Engine Co. No. 34. Fined two days' pay.

Fireman Patrick H. Mullane, of Engine Co. No. 26. Fined ten days' pay on charges of "absence without leave"; charge of "incapacity for duty" not proven.

### Communications

From—

Superintendent Repairs to Buildings—Requisitions for work required at various company quarters; estimated cost, \$135, \$175, \$125, \$75, \$490, \$775, \$170, \$56.50, \$38.75, \$26, \$10, \$25.65, \$75, and \$14.50, respectively. Ordered.

Supply Clerk—Requisition for articles for fire-alarm telegraph; estimated cost, \$862. Ordered.

Foreman in charge Stables—Reports of selection and acceptance of team for Engine Co. No. 52, and recommending purchase at \$600. Ordered.

Superintendent of Telegraph—Submitting form of agreement relative to poles on Jerome and Morris avenues and Kingsbridge road. Referred back, with directions to have executed.

Same—Submitting propositions from Tooker Fire Alarm Improvement Co. and Pearce & Jones, for furnishing keyless doors. Filed, and following resolution adopted:

Resolved, That the proposition of the Tooker Fire Alarm Improvement Co. to sell the right to this Department to use and have manufactured the "Tooker Keyless Door" for fire-alarm boxes in this city, in consideration of a royalty to be paid to said company at the rate of \$30 for each of said doors, be and is hereby accepted, and that twenty of the said doors be obtained at a cost for manufacture, fitting and painting, not exceeding \$18.50 per door.

Chairman Committee on Apparatus and Telegraph—Returning report of Chief of Department of apparatus and hose required for equipment of companies, with recommendation that 20,000 feet of hose and one steam fire-engine be purchased. Approved, with directions to prepare forms of contract and advertise for proposals.

Comptroller—Statement of condition of appropriation to 24th instant. Filed.

Chief of Department—Stating that hose-reel, etc., for Engine No. 51 is necessary. Referred for estimate of cost.

Same—Reporting that ladders called for are necessary for the proper equipment of Hook and Ladder No. 1. Referred to Committee on Apparatus and Telegraph.

Examining Board for Engineers—Report of examination of Assistant Engineer of Steamer John J. Naughton, of Engine Co. No. 16, on application for promotion. Filed, and promotion to rank of Engineer of Steamer, at \$1,200 per annum, ordered from 1st proximo.

Assistant Foreman commanding Engine Co. No. 33—Reporting loss of key and badges at Harrigan & Hart's Theatre. Filed.

Christopher Parks and others, employees on Engine No. 43—Petition for adjustment of rates of pay. Referred to the President.

N. Le Brun & Son, architects—Report and recommendation relative to house of Hook and Ladder Co. No. 4. Referred to Committee on Repairs and Supplies.

Inspector of Combustibles—Recommending remission of penalties. Approved.

Inspector of Buildings—Report of operations for quarter ending December 31, 1884. Filed.

Same—Forwarding reports of Examiners: on fire-escapes (17), on violations (1), on unsafe buildings (3), with recommendation and form of notice in each case. Approved and referred back, with directions.

Same—Returning report of violation of law at Academy of Music, with recommendation that the matter be referred to the Attorney for opinion. Returned, with the information that the Inspector is authorized to confer with the Attorney on any doubtful points of law.

Same—Returning petition of James H. Mapleson, for discontinuance of actions brought against him, with additional statement. Filed.

Attorney—Recommending acceptance of offer of Guggenheimer & Untermeyer, attorneys, to adjust claim of the Department against Mary Duffy for the sum of \$150. Approved.

Superintendent of Telegraph—Requesting appointment of an additional lineman. Filed.

Same—Forwarding, with recommendation, communication from Baltimore & Ohio Telegraph Co. relative to setting poles and stringing Department wires thereon on line of Williamsbridge road. Approved.

Same—Forwarding, with recommendation, application of Automatic Fire Alarm and Extinguisher Co. for permission to run a wire from their office to Headquarters, for transmission of alarms for fire. Granted.

Same—Reporting that a new combination fire-alarm signal and gas-lamp has been erected at entrance of new Cotton Exchange, and alarm-box 15 attached thereto. Filed.

Same—Relative to protection of the fire-alarm system against damage resulting from contact with electric light wires (laid over January 19). Filed, requisition for articles required having been authorized.

Medical Officers—Report of examination of Fireman John J. Haley, of Engine Co. No. 32. Filed.

Same—Recommending examination of Assistant Foreman Matthew D. Conry, of Engine Co. No. 47, as to his ability to perform duty. Filed, and following resolution adopted:

Resolved, That under the provisions of section 519, chapter 410 of the Laws of 1882, Assistant Foreman Matthew D. Conry, of Engine Co. No. 47, is hereby ordered to be examined by the medical officers as to his physical or mental qualifications to perform his duties.

D. S. Lamont, Private Secretary, Executive, Albany—Requesting to be informed what notaries connected with the Department are necessary to the proper transaction of its business. Referred to the Secretary.

Comptroller—Relative to vouchers in favor of Frost & Wood and J. R. Shields. Filed.

Counsel to the Corporation—Opinion as to probationary appointments in the uniformed force, and payment of salaries of persons so employed therein. Filed.

Civil Service Advisory and Examining Boards—Relative to blank forms of application for appointment. Filed.

Same—Returning application for promotion of Assistant Foreman Thomas A. Kenny, approved. Filed, and promotion to rank of Foreman Engine Co. 7 ordered from 1st proximo.

President Academy of Music—Requesting to be relieved from penalties in suits brought against that corporation. Referred to the Attorney for recommendation.

Thomas H. Edsall—Requesting that an alarm-box be placed at Spuyten Duyvil. Referred to Superintendent of Telegraph for compliance.

J. U. J. Bentley—Applying for an alarm-box key. Filed.

Mayor's Office, Brooklyn—Acknowledging receipt of Report. Filed.

American Forcite Powder Co.—Application for permit to locate a boat for storage of powder in Harlem river. Referred to Inspector of Combustibles.

S. F. Hayward, general agent—Offering to place a four-wheel tender in service for trial without expense to the Department or obligation to purchase. Accepted.

Gould's Manufacturing Co.—Relative to Silsby engine. Laid over.

T. J. Jordan—Applying for appointment as Fireman. Filed.

William H. Josselyn—Requesting that action be taken on proposition relative to swinging-bits. Laid over.

Frank Larrabee—Complaining of alleged misconduct of members of uniformed force. Filed, having been answered.

Charles P. Miller, attorney—Relative to premises Twenty-third street and Broadway. Filed.

E. E. Thorpe—Applying for appointment as Engineer of Steamer. Filed.

William H. Tooker—Claim for articles alleged to have been taken from premises Nos. 11-15 Vandewater street. Referred to Chief of Department for investigation.

### Transfer.

—to take effect 1st proximo:

Fireman Thomas A. Hopkins, Hook and Ladder Co. No. 10 to Engine Co. No. 50.

The minutes of meetings held from 2d to 29th instant, inclusive, were read and approved.

On motion, adjourned.

CHARLES DE F. BURNS, Assistant Secretary.

JANUARY 31, 1885.

Present—President Cornelius Van Cott, Commissioners Henry D. Purroy and Richard Croker.

### Communications

From—

Examining Board—Report of examination of Assistant Foreman Daniel Lawler, of Engine Co. No. 33, upon application for promotion. Filed, and promotion to rank of Foreman, same company, ordered from 1st proximo.

Fireman John J. Haley, of Engine Co. No. 6—Tendering his resignation. Accepted, and charges preferred against Fireman Haley, upon which evidence was taken on 21st instant, filed.

Inspector of Buildings—Forwarding reports of Examiners: on fire-escapes (16), on violations (3), on unsafe buildings (5), with recommendation and form of notice in each case. Approved, and referred back with directions.

Same—Requesting that 500 copies of report of operations of his bureau be printed for distribution. Filed, with directions to inform that it will be published as a part of the Department report.

Superintendent of Telegraph—Suggesting that Department of Public Works be requested to grant such permit as may be necessary to open streets in vicinity of Headquarters for the purpose of putting fire-alarm wires underground. Laid over.

Supreme Court—Writ of certiorari in the matter of Robert L. Kent against Fire Commissioners. Referred to the Attorney.

### Resolution.

Resolved, That Foreman John Binns, of Engine Co. No. 32, be recommended to the trustees of the Bennett Medal Fund to receive the Bennett medal for the year 1884, for meritorious conduct rendered (while in Hook and Ladder Co. No. 3) in the rescue of Louis Castaignan at the fire which occurred in the St. George Flats on April 7, 1884. Adopted.

### Pay-rolls

—audited and transmitted to the Comptroller for payment:

#### For the Current Year—Schedule No. 2.

Extra Telegraph Force, pay-roll January, apparatus, supplies, etc. ....	\$1,658 80
Headquarters, pay-roll for January .....	3,736 18
Attorney to the Fire Department, pay-roll for January .....	333 33
Telegraph Force, .....	1,746 28
Repair Shops, .....	4,578 52
Bureau of Combustibles, .....	843 81
Bureau of Inspection of Buildings, .....	5,780 84
Bureau of Inspection of Buildings, No. 2, .....	400 00
Bureau of Fire Marshal, .....	491 66
Hospital Stables, .....	410 00
Chief of Department, .....	3,433 33
Engine and Hook and Ladder Companies, .....	93,089 42
	\$116,502 14

On motion, adjourned.

CARL JUSSEN, Secretary.

## FINANCE DEPARTMENT.

Abstract of transactions of the Finance Department for the week ending February 21, 1885:

### Deposited in the Treasury.

To the Credit of the Sinking Fund .....	\$56,843 93
City Treasury .....	173,712 48
Total .....	\$230,556 41

### Warrants Registered for Payment.

The Mayoralty—	
Contingencies—Mayor's Office .....	\$59 96
The Finance Department—	
Contingencies—Comptroller's Office .....	98 81
Interest on the City Debt .....	5,557 50
Aqueduct Commissioners—	
Additional Water Fund .....	790 02
The Law Department—	
Contingencies—Law Department .....	\$575 89
To Defray the Expenses of Proceedings in Street Openings .....	416 66
	992 55

## The Department of Public Works—

Aqueduct—Repairs, Maintenance and Strengthening.....	\$8,673 23
Boulevards, Roads and Avenues, Maintenance of.....	1,879 03
Contingencies—Department of Public Works.....	546 08
Croton Water Fund.....	4,987 62
For Repairs on Essex Market Building.....	402 24
Gansevoort Market Fund.....	263 10
Lamps and Gas and Electric Lighting.....	592 85
Laying Croton Pipes (Chapter 381, Laws 1879).....	1,224 00
Public Buildings—Construction and Repairs.....	1,341 05
Removing Obstructions in Streets and Avenues.....	623 30
Repairing and Renewal of Pipes, Stop-cocks, etc.....	4,476 15
Repairs and Renewal of Pavements and Regrading.....	795 60
Restoring and Repaving—Special Fund—Department of Public Works.....	1,591 00
Roads, Streets and Avenues Unpaved—Maintenance of and Sprinkling.....	444 25
Salaries—Department of Public Works.....	108 00
Sewers—Repairing and Cleaning.....	822 87
Street Improvements above Fifty-ninth Street—June 9, 1880.....	16,803 53
Street Improvements Authorized, etc., after June 9, 1880.....	34,968 92
Supplies for and Cleaning Public Offices, etc.....	1,748 25
Water Meter Fund, No. 2.....	1,760 14

\$84,051 21

## The Department of Public Parks—

Central Park Construction.....	\$2 75
Drainage and Irrigation of Central Park.....	407 88
Entrances into Central Park on Eighth Avenue at Seventy-seventh and Eighty-first Streets, Completion of.....	1 38
For Erecting and Improving Ladies' and Gentlemen's Cottages.....	1,336 50
Harlem River Bridges—Repairs, Improvements and Maintenance.....	364 45
Maintenance and Government of Parks and Places.....	5,760 26
Maintenance—Twenty-third and Twenty-fourth Wards.....	115 64
Morningside Park—Improvement Fund.....	4 85
Riverside Avenue.....	82
Riverside Park.....	83
Surveying, Laying-out, etc.—Tax and Assessment Maps—Twenty-third and Twenty-fourth Wards.....	15 40
Surveys, Maps and Plans—Twenty-third and Twenty-fourth Wards.....	65 80

8,076 56

## The Department of Public Charities and Correction—

Public Charities and Correction.....	10,452 15
--------------------------------------	-----------

## The Health Department—

Health Fund.....	\$149 02
Hospital Fund—For Completion of Hospital Building at foot of Sixteenth Street, East River.....	125 04
Hospital Fund—For Erection of Hospital Buildings at North Brother Island.....	225 00
Hospital Supplies and Transportation for Care of Contagious Diseases.....	608 17
Storage Building for Disinfectants.....	197 49

1,304 72

## The Department of Street Cleaning—

Cleaning Streets—Department of Street Cleaning.....	41,024 63
---	-----------

## The Fire Department—

Fire Department Fund.....	4,331 50
---------------------------	----------

## The Department of Taxes and Assessments—

Contingencies—Department of Taxes and Assessments.....	36 00
--	-------

## The Dock Department—

Dock Fund.....	5,775 91
----------------	----------

## The Board of Education—

College of the City of New York.....	\$457 75
Public Instruction.....	7,859 99

8,317 74

## The Judiciary—

Salaries—Judiciary.....	194 76
-------------------------	--------

## Charitable Institutions—

Association for Befriending Children and Young Girls.....	\$1,034 57
Foundling Asylum of the Sisters of Charity.....	20,999 41
New York Infant Asylum.....	5,919 26
New York Infirmary for Women and Children.....	200 00

28,153 24

## Advertising, Printing, Stationery and Blank Books—

Advertising.....	\$807 60
Printing, Stationery and Blank Books.....	7,904 07

8,711 67

## Miscellaneous—

American Society for Prevention of Cruelty to Animals.....	\$143 00
Assessment Commission, Expenses of.....	388 50
Charges on Arrears of Assessments.....	109 20
Charges on Arrears of Taxes.....	141 00
Civil Service of the City of New York, Expenses of.....	251 85
Contingencies—District Attorney's Office.....	136 23
Election Expenses.....	7,520 95
For Burial of Honorably Discharged Soldiers, Sailors or Marines.....	35 00
For Claim of John J. Burns, Clerk, and Peter Seery, Inspector of Combustibles in Fire Department.....	2,003 16
For Deficiencies of 1883 and Previous Years.....	48 25
For the Preservation of Public Records.....	152 48
Judgments.....	9,682 43
New York Society for Prevention of Cruelty to Children.....	160 00
Real Estate, Expenses of.....	3 80
Refunding Assessments Paid in Error.....	3 35
Refunding Taxes Paid in Error.....	394 01

21,173 81

Total ..... \$229,102 74

## SUITS, ORDERS OF COURT, JUDGMENTS, ETC.

COURT.	NAME OF PLAINTIFF.	AMOUNT.	NATURE OF ACTION.	ATTORNEY.
Supreme..	Sheppard Knapp.....	\$809 00	Petition and notice of motion for payment into court of award made to unknown owners by No. 252, in matter of opening Morris avenue.....	Eugene F. Daly.
"	Brian McKenney agst. David De Venny, Michael McGrath, The Mayor, etc., and others.....	15,000 00	Proceedings to foreclose mortgage on premises known as Map No. 361, on map of lands devised to William H. Morris and descendants, filed in Register's office, Westchester County.....	Turner, Lee & McClure.
Superior..	John Ward and others	101 17	Transcript of judgment for \$449.66, and demand for balance due on account thereof, \$101.17.....	Vedder Van Dyck.
"	Henry M. Bradhurst.	108 27	Transcript of judgment for \$496.53, and demand for balance due on account thereof, \$108.27.....	"

## CLAIMS FILED.

DATE.	NAME OF CLAIMANT.	AMOUNT.	NATURE OF CLAIM.	ATTORNEY.
1885. Feb. 16..	Robert Eason, proprietor Hussey's Special Message Express.....	\$162 73	Claim and demand. For services to the Commissioner of Jurors in delivering jury notices, between September 8, 1884, and January 1, 1885.....	
" 17..	Lawrence Odell.....	1,678 50	Demands of the following-named persons for amounts paid for assessments, viz.: For Sixty-sixth street outlet sewer— Lots Nos. 2 to 4, Block 106, paid August 19 and 20, 1875.....	C. C. Higgins.
" 17..	John Paine.....	3,444 40	Paid August 4, 1873.....	"
" 17..	James A. Roosevelt, executor.....	942 17	For Seventh avenue sewer, between Greenwich avenue and Fifty-ninth street— Paid October 2, 1874.....	"
" 17..	John F. Kavanagh, No. 82 Nassau st.,	24 75	Notice of a lien on award made by the Assessment Commission on February 5, 1885, to Anna Stafford, for \$232.59, on account of payment of an assessment for regulating, grading, etc., Ninth avenue, from Eighty-sixth to One Hundred and Tenth street, upon Ward No. 30, Block 1026, for services rendered in said matter.....	
" 18..	John McManus.....	800 00	Claim. For injury sustained by him while driving over road at foot of Fordham Hill, on November 30, 1884.....	John Whalen.
" 19..	Michael Tracy—John C. Shaw, assignee.	353 30	Claims and demands of the following-named persons for amounts paid for assessments, viz.: Seventy-eighth street regulating and grading, Ninth avenue to Boulevard— Ward No. Block No. Paid. 61 166 May 19, 1883	John C. Shaw.
" 19..	Michael Tracy—John C. Shaw, assignee.	3,664 79	Tenth avenue regulating and grading, Seventieth to Eighty-first street— Ward No. Block No. Paid. 1 to 4, 61 to 64 166 May 19, 1883	"
" 20..	Philip and Daniel E. Van Volkenburgh.	1,696 00	Claims and demands for repayment of the following sums paid for assessments, viz.: For Riverside Park opening, etc.— Ward Nos. Block Nos. Paid. 5A 1141 1303 March 7, 1883	T. H. Baldwin.
" 20..	Philip and Daniel E. Van Volkenburgh.	202 90	Underground drains, between Ninety-sixth and One Hundred and Eleventh streets, Tenth and Eleventh avenues— Ward Nos. Block No. Paid. 9 to 13 1141 Mar. 17, 1876	"
" 20..	John Winston Murray	20,000 00	Claim and demand. For damages for personal injuries sustained while a passenger on one of the trains of the New York and Brooklyn Bridge on February 8, 1885.....	Hart & Price.
" 21..	Charles Merritt.....	416 00	Claim and demand. For balance due for salary as an Inspector—Department of Public Works—of laying steam-pipes, June to September, 1883.....	William King Hall.
" 21..	Isaiah Meyer.....	641 30	Demands for the repayment of amounts overpaid for assessments, to wit: Broadway widening, etc., between Thirty-fourth and Fifty-ninth streets— Ward Nos. Block Nos. Paid. { 10 to 13, 20, 45, } 18 } Dec. 30, 1876 52 to 55, 19 68 538	Shipman & Acker.
" 21..	Broadway Tabernacle Society.....	18,642 15	615 to 618 .... Jan. 29, 1876	"
" 21..	Estate J. C. Remsen..	494 95	2 1/2, 3 43 Aug. 23, 1883	"
" 21..	Ann Marshall.....	7,144 82	One Hundred and Fourth, One Hundred and Fifth and One Hundred and Sixth streets regulating, between Eighth avenue and Public Drive— Ward Nos. Block Nos. Paid. 61 915 916 { 1 and 61 } 916 18 to 22, 5, 6, } 917 Aug. 4, 1875 43 to 47, 59 } and 60 } 36 1030 29 1031	"
" 21..	Isabella Brandon.....	2,922 22	Seventy-fifth street regulating, etc., from Fifth avenue to East river— Ward Nos. Block No. Paid. 31 to 33 366 Aug. 2, 1879	"
" 21..	J. Lagowitz & Co....	290 00	Riverside Park opening, etc., between Forty-second and One Hundred and Fifty-fifth streets— Ward Nos. Block No. Paid. 47 to 51 1014 Feb. 18, 1883	"

## CONTRACTS REGISTERED FOR THE WEEK ENDING FEBRUARY 21, 1885.

NO.	DATE OF CONTRACT	DEPARTMENT.	NAMES OF CONTRACTORS.	DESCRIPTION OF WORK.
6962	Jan. 21, 1885	Board of Education..	Patrick J. Walsh..... (Sureties: Francis O'Neill, James J. Lyons. Bond, \$25,000.)	Erection of a new school-house on south side of West Tenth street, between Greenwich and Washington streets, in Ninth Ward. Total, \$67,000.
6963	" 31, "	Public Charities and Correction.....	Horace Ingersoll..... (Sureties: Benjamin G. Mitchell, Samuel Ingersoll. Bond, \$1,000.)	Furnishing 1,000 bushels oats, 500 bales rye straw, and 150 bushels rye, and 100 bags bran. Total, \$1,459.25.

Certificates of the Commissioners of Taxes and Assessments of the Remission by them of Taxes of 1884, received, as follows:

## ON REAL ESTATE.

DATE.	WARD.	WARD NO.	BLOCK NO.	STREET NUMBER.	ASSESSED VALUATION.	CORRECTED VALUATION.	TAX REMITTED.
Feb. 17...	22	51	52	236 West Fifty-second street..	\$16,000 00	\$14,500 00	\$33 75

## ON PERSONAL ESTATE.

DATE.	NAME.	ADDRESS.	RECEIVER'S BOOK.	TAX REMITTED.
Feb. 17...	Raymond S. Perrin.....	73 Little West Twelfth street.....	\$3,000 00	\$67 50
" 17...	John Chadwick.....	215 West Fifty-fourth street.....	2,000 00	45 00
" 17...	Thomas M. Nichol.....	29 New street.....	10,000 00	225 00
" 21...	Edmund Stephenson.....	50 shares Home Bank.....	4,650 00	104 62
" 21...	John B. Cornell and another, ex'rs.....	141 Centre street.....	12,260 00	275 85
" 21...	James Hawes.....	128 West Twentieth street.....	2,000 00	45 00

## Opening of Proposals.

February 17. The Comptroller (by representative) attended the opening of proposals at the Health Department, for building extension of a sea-wall on North Brother Island.

## Approval of Sureties.

The Comptroller approved of the adequacy and sufficiency of the sureties on the following proposals, viz.:

February 16. For furnishing rye straw, hay, etc., for use of the Department of Public Charities and Correction.

Horace Ingersoll, No. 634 West Thirty-fourth street, Principal.  
Benjamin G. Mitchell, No. 384 West Thirty-second street, } Sureties.  
Samuel Ingersoll, No. 384 West Thirty-second street, }

February 16. For furnishing dry goods, hardware and lumber, for use of the Department of Public Charities and Correction.

Rowland A. Robbins, No. 290 Fifth avenue, Principal.  
James S. Barron, No. 329 West Twenty-second street, } Sureties.  
William H. Barron, No. 329 West Twenty-second street, }

February 18. For furnishing 1,000 sides sole leather, 1,000 sides waxed upper leather and 1,000 sides waxed kip leather, for use of the Department of Public Charities and Correction.

Charles H. Hyde, No. 32 Spruce street, Principal.  
Eugene B. Sanger, No. 37 West Fifty-first street, } Sureties.  
James Stewart, No. 123 West Eleventh street, }

February 18. For laying thirty-six-inch waste weir and appurtenances in the City of Yonkers, from Croton Aqueduct to Hudson river, under Department of Public Works.

Richard Feore, No. 414 East One Hundred and Fourteenth street, Principal.  
Jacob Blendermann, No. 100 West street, } Sureties.  
Henry Blendermann, No. 100 West street, }

February 20. For furnishing hardware, etc., for use of the Department of Public Works.

Fox & Drummond, No. 68 Wall street, Principals.  
M. O'Brien, No. 163 Monroe street, } Sureties.  
John Keresy, No. 85 Pearl street, }

February 20. For furnishing 7,000 pounds of butter, for use of the Department of Public Charities and Correction.

M. Folsom, No. 306 West Fifty-fifth street, Principal.  
Thomas H. Newman, No. 7 East One Hundred and Twenty-fourth street, } Sureties.  
M. B. Miller, No. 52 West Forty-eighth street, }

February 20. For regulating, grading, setting curb and gutter stones, flagging and laying cross-walks in East One Hundred and Thirty-seventh street, between North Third avenue and Brook avenue.

Allen, O'Grady & Co., No. 1062 Forest avenue, Principals.  
Joseph Kuntz, corner of One Hundred and Sixty-eighth street } Sureties.  
and Third avenue, }  
James Bowen, One Hundred and Thirty-third street and }  
Third avenue, }

## Return of Proposals.

February 20. Proposal of Francis H. Smith, for extension of sea-wall on North Brother Island, returned to the Health Department for action on the proposed substitution of Horace Russell, No. 49 Park place, as a surety thereon in the place of James Symington, No. 18 Exchange place, one of the original sureties.

February 21. Proposal of Winant & Terhune, for furnishing coal to the Department of Public Works, returned to said Department for action on the proposed substitution of George B. Deane, No. 277 West Eleventh street, as a surety thereon in place of Thomas McKie, No. 5 Bank street, one of the original sureties.

## Received.

February 17. Bond of the New York and Harlem Railroad Co., to The Mayor, etc., of the City of New York, conditioned to pay one-half of cost of construction, etc., of an iron bridge for foot passengers over Fourth avenue, at Ninety-eighth street, under provisions of chapter 371, Laws of 1884. Penalty \$5,000. Dated, February 13, 1885. Also map or plan of said bridge over viaduct at Ninety-eighth street.

EDWARD V. LOEW, Comptroller.

## APPROVED PAPERS.

Whereas, Many years' experience has proven that to secure a full enforcement of the Excise law, it must be modified to make it more practicable and certain of the support of all respectable dealers; and

Whereas, We believe that the attainment of such result will be advanced by the adoption of amendments to the Excise law as suggested by the Mayor, in a message presented in this Board, February 2, 1885, which, while providing for a strict enforcement of said law, will permit all public places to be opened only after 2 o'clock P. M., on Sundays; be it, therefore,

Resolved, That the members of the Legislature from this city be and they are hereby requested to do or cause to be done whatever may be necessary and proper for the prompt passage of an act providing for such amendments; and be it further

Resolved, That a copy of these resolutions be sent by the Clerk of this Board to each Senator and Member of Assembly from this city, and to the President of the Senate and Speaker of the Assembly.

Adopted by the Board of Aldermen, February 9, 1885.  
Approved by the Mayor, February 16, 1885.

Resolved, That the Commissioner of Public Works be and he is hereby requested to include in the list of streets to be repaved during the present year, as provided in chapter 476, Laws of 1875, Thirty-first street, between Ninth and Tenth avenues.

Adopted by the Board of Aldermen, February 9, 1885.  
Approved by the Mayor, February 16, 1885.

Resolved, That the Commissioner of Public Works be and is hereby requested to include in the list of streets to be repaved this year Washington street, from Canal to Thirteenth street, as provided in chapter 476, Laws of 1875.

Adopted by the Board of Aldermen, February 9, 1885.  
Approved by the Mayor, February 16, 1885.

Resolved, That permission be and the same is hereby given to Richard Uffelmann to place and keep a watering-trough on the sidewalk near the curb-stones, in front of No. 24 Varick street, the work to be done and water supplied at his own expense, under the direction of the Commissioner of Public Works; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, February 9, 1885.  
Approved by the Mayor, February 16, 1885.

Resolved, That the south side of Sixty-second street, between First and Second avenues, be flagged full width, where not already done, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, February 9, 1885.  
Approved by the Mayor, February 16, 1885.

Resolved, That the Commissioner of Public Works be and he is hereby authorized to lay water-mains in the Southern Boulevard, between St. Ann's avenue and Lincoln avenue, pursuant to the New York City Consolidation Act of 1882, sections 189 and 194.

Adopted by the Board of Aldermen, February 9, 1885.  
Approved by the Mayor, February 16, 1885.

## DEPARTMENT OF PUBLIC PARKS.

## Abstract of Proceedings for the Week ending February 21, 1885.

WEDNESDAY, FEBRUARY 18, 1885.—REGULAR MEETING—10 A. M.

Present—Commissioners Crimmins (President), Wales, and Powers.

T. H. Edsall, Esq., appeared before the Board, and was heard in relation to a proposed bill to alter and amend the laying-out of the Twelfth and Twenty-fourth Wards, in connection with the new channel line, as adopted by the United States Government authorities.

Mr. S. S. Randall appeared and was heard in relation to sinking the tracks of the New York and Harlem R. R. Co. in the Twenty-third and Twenty-fourth Wards, and stating that the property-owners of that vicinity do not approve of the plans now on exhibition, and suggesting that the tracks be sunken or tunneled to the present grade of One Hundred and Sixty-seventh street.

Messrs. Speck, Hanlon, Magoff and others, property-owners, appeared, and were heard in relation to changing the grade of Washington avenue, and a petition was received from Edward Baker, H. C. Hackman and others, property-owners on One Hundred and Sixty-sixth and One Hundred and Sixty-seventh streets, and on Washington avenue, between said streets, in relation to the same subject.

The subject of the alteration of the grades of Washington avenue and the streets and avenues crossing said avenue was referred to the Engineer of Construction and the Topographical Engineer, to examine into and report upon, with such plans, showing all such changes and alterations, as they may deem necessary.

The following communications were received:

From the Secretary of the Health Department, transmitting a copy of a report upon the sanitary condition of the Mott Haven Canal. Ordered filed.

From the City Paymaster, stating his inability to pay Henry Bertholf the money due him, on account of his illness, and asking authority to pay the same to Mrs. Bertholf.

The City Paymaster was requested to pay to the wife of Mr. Bertholf the salary due or to become due him from time to time during his sickness, in order that Mrs. Bertholf may pay the men employed by him to maintain the Bridge Service.

From W. Stebbins Smith, Henry McGough and others, petitioning for a change in the grade of Brook avenue, from North Third avenue to One Hundred and Sixty-fifth street. Referred to the Topographical Engineer to report upon.

From the General Manager of the Metropolitan Telephone and Telegraph Company, relative to the cost of removing the telephone from Eighth-eighth street and Riverside avenue to Ninety-sixth street and North river.

The President stated that it would be necessary to make arrangements for a renewal of the agreement with the Telephone Company for a continuance of the service. The whole subject of continuing the telephone service and the removing of the line from Eighty-eighth street to Ninety-sixth street and Riverside avenue was referred to the President, with power.

From William Bayne, Band Master of the Sixty-ninth Regiment, offering to furnish music to the Department during the coming concert season. Ordered filed.

From B. C. Murray, asking for a reduction in the amount of penalty for overtime on his contract for constructing a sewer in One Hundred and Thirty-ninth street, between Brook avenue and the summit between Willis and Alexander avenues. Referred to the Engineer of Construction to report upon.

From Charles H. Graham, Assistant, asking to be allowed pay for five days' lost time on account of sickness.

Pay was allowed Charles H. Graham for the five days' time lost by him on account of sickness.

From F. S. Dodge, Assistant Engineer, asking that a portion of his vacation for 1885 be granted him for the first week in the coming month. Referred to the Topographical Engineer to report upon.

From Thomas Cullen, asking to be restored to duty as Steam Engineer. Ordered filed.

From the Superintendent of Parks, inclosing an application of James McCabe for an increase of pay. Laid over.

From the Topographical Engineer, reporting adversely upon a communication from A. Newbold Morris approving of the bill proposed to be submitted to the Legislature for adoption for discontinuing that portion of Morris avenue, Twenty-third Ward, adjoining Fleetwood Park. Ordered filed.

From the Superintendent Twenty-third and Twenty-fourth Wards:

1st. Reporting the suspension of three double teams, one blaster, and eleven laborers, by order of the President.

On motion, the action of the Superintendent Twenty-third and Twenty-fourth Wards was approved.

2d. Reporting that he had restored Louis Roussel and Wm. Carroll to duty, with the rank and pay of laborers, and asking that his action be approved.

On motion, the action of the Superintendent Twenty-third and Twenty-fourth Wards was approved.

A communication was received from the Engineer of Construction, transmitting the final estimate of Bernard Mahon, amounting to \$3,777.94, for constructing sewer across Eighth avenue, together with a bill of the Consolidated Gas Company, amounting to \$45.70, for work done in repairing gas-pipes claimed to have been broken by Mahon. Mr. Mahon appeared before the Board and denied the justice of the claim.

On motion, said estimate was ordered signed and transmitted to the Finance Department, together with the bill of the gas company and the communication of Engineer Kellogg, for such final settlement as the Comptroller may deem proper.

Commissioner Wales, to whom was referred the bills of Henry Bertholf, amounting to \$292.50, for extra services in opening the draw of the McComb's Dam Bridge, presented a report stating that he had examined into the matter and found, from the statement of Mr. Bertholf, that the President instructed him in September last, verbally, to put on such an additional force of men as was necessary to open the draw when required during the night; that upon receiving such orders he employed additional forces to the amount of the bills submitted; that on September 4th the President notified him that complaints were made that the bridge was not opened at night, and directing him to open it at all hours; that Mr. Bertholf acted in good faith, and should be reimbursed to the amount expended by him; that the balance to the credit of the account, "Harlem River Bridges," is not sufficient to pay this claim, and recommending that the matter be referred to the President, with power to apply to the Board of Estimate and Apportionment and secure a transfer from the account, "Maintenance—Twenty-third and Twenty-fourth Wards," sufficient to pay this claim. Adopted.

Commissioner Powers, to whom was referred the subject of the repairs necessary to be made to the bridge over the Mott Haven Canal at One Hundred and Thirty-eighth street, made a verbal report, stating that he had examined the same and found it to be in need of repair.

On motion, the further consideration of the subject was laid over.

Commissioner Powers, to whom was referred the subject of the present condition of the heating apparatus at the Conservatory in Central Park, at One Hundred and Fifth street and Fifth avenue, made a verbal report, recommending that the present building be enlarged and the heating apparatus repaired, and that the old walls adjoining the building be taken down.

On motion, the subject was referred back to Commissioner Powers to obtain from the Architect plans and estimates for doing the work recommended in his report.

Commissioner Powers, to whom was referred the application of Clark & O'Brien for permission to erect a temporary storehouse on a piece of land situated on the site of the proposed suspension bridge and east of Sedgwick avenue, reported adversely thereon. Adopted.

The Counsel to the Corporation was authorized and directed to commence and prosecute proceedings on behalf of the Mayor, Aldermen and Commonalty of the City of New York, for acquiring title, wherever the same has not been heretofore acquired, to that part of East One Hundred and Fifty-seventh street, lying between Elton and North Third avenues, as the same has been heretofore laid out as a public street or avenue, and the Commissioners of this Department were authorized to sign a petition to the Supreme Court for that purpose.

The following-named assessment lists, together with the statements of the amounts and costs of the works therein mentioned, were approved and ordered transmitted to the Board of Assessors:

"For regulating and grading Alexander avenue, and also setting curb-stones, flagging the sidewalks, laying crosswalks and paving the roadway therein with trap-blocks, from the Southern Boulevard to North Third avenue"; "for regulating and grading Morris avenue, and also setting curb and gutter stones and flagging the sidewalks four feet wide therein, from One Hundred and Thirty-eighth to One Hundred and Fifty-sixth street"; "for regulating and grading Lincoln avenue, and also setting curb-stones and flagging the sidewalks from the northern curb-line of the Southern Boulevard to the eastern curb-line of North Third avenue"; "and for regulating and grading Courtland avenue, and also setting curb and flagging therein from North Third avenue to East One Hundred and Fifty-sixth street."

Plans for the improvement of Jeannette Park were adopted, and a form of contract and specifications for doing the work on said park between Front and South streets was ordered prepared and printed, and the work ordered advertised.

It was ordered that the Foreman and Assistant Foreman on the Central Park engaged overtime in cleaning the ice be paid per hour for such overtime at the same rate of pay they now receive.

The Treasurer was authorized to issue an order to Baker, Smith & Co., for furnishing a steam-heating apparatus at Claremont, on Riverside Park, in accordance with a proposal submitted by them, for the sum of \$966, and the whole subject was referred to the Treasurer, with power.

J. F. Flynn and John McGuire were reappointed Parkkeepers, in accordance with Regulation 35 of the Civil Service Regulations.

The services of Henry H. Doherty, as Clerk, were dispensed with from 18th instant.

#### Appointed.

Samuel Collins, Parkkeeper, at \$2.75 per day.

Patrick J. Flynn, Parkkeeper, at \$2.75 per day.

Bills amounting to \$5,528.77 were approved and transmitted to the Finance Department for payment.

E. P. BARKER, Secretary.

## DEPARTMENT OF PUBLIC WORKS.

Report of Photometrical Examinations of Illuminating Gas, for the week ending February 14, 1885, made at the Photometrical Rooms of the Department of Public Works.

DATE.	TIME.	Thermometer.	Barometer.	GAS COMPANY.	BURNER.	Pressure as Delivered to Burner.	Consumption of Gas, Rate per hour.	Consumption of Candle, Grs. per hour.	ILLUMINATING POWER.	
									Observed.	Corrected.
Feb. 9	4:30 P.M.	67.	29.98	Manhattan	Empire 5 ft. ....	.90	5.00	120.0	19.60	19.60
" 10	12:30 P.M.	72.	29.24	"	"	.90	5.00	123.0	18.12	18.57
" 11	4 P.M.	69.	30.13	"	"	.90	5.00	123.6	18.20	18.74
" 12	5:30 P.M.	74.	30.21	"	"	.90	5.00	121.2	19.94	20.14
" 13	2:30 P.M.	69.	30.14	"	"	.89	5.00	124.2	18.78	19.44
" 14	6 P.M.	72.	30.00	"	"	.90	5.00	126.0	18.96	19.91
									Average.	19.40
Feb. 9	4 P.M.	67.	29.98	New York	Bray's Split Union, 7	.98	5.00	120.0	25.73	25.73
" 10	1 P.M.	72.	29.24	"	"	.96	5.00	120.0	24.92	24.92
" 11	4:30 P.M.	69.	30.13	"	"	.98	5.00	120.0	23.98	23.98
" 12	5 P.M.	74.	30.21	"	"	.98	5.00	126.0	22.82	23.96
" 13	3 P.M.	69.	30.14	"	"	.98	5.00	126.0	23.08	24.23
" 14	4 P.M.	69.	30.00	"	"	.98	5.00	124.2	23.04	23.84
									Average.	24.44
Feb. 9	1 P.M.	62.	29.98	N. Y. Mutual	"	1.01	5.00	120.6	26.44	26.57
" 10	2 P.M.	74.	29.24	"	"	1.01	5.00	124.2	30.06	31.11
" 11	5 P.M.	69.	30.13	"	"	1.01	5.00	118.8	29.48	29.18
" 12	4:30 P.M.	72.	30.21	"	"	1.02	5.00	124.2	29.10	30.12
" 13	4 P.M.	70.	30.14	"	"	1.01	5.00	126.0	27.66	29.04
" 14	5:30 P.M.	71.	30.00	"	"	1.00	5.00	120.6	29.74	29.89
									Average.	29.32
Feb. 9	3:30 P.M.	65.	29.98	Municipal	"	.99	5.00	117.6	30.68	30.66
" 10	3:30 P.M.	75.	29.24	"	"	.97	5.00	120.0	30.92	30.92
" 11	2:30 P.M.	66.	30.13	"	"	.99	5.00	120.0	29.62	29.62
" 12	4 P.M.	72.	30.21	"	"	1.00	5.00	123.0	30.02	30.77
" 13	3:30 P.M.	70.	30.14	"	"	1.00	5.00	123.0	29.94	30.69
" 14	4:30 P.M.	69.	30.00	"	"	.98	5.00	124.2	28.12	29.10
									Average.	30.19
Feb. 9	3 P.M.	65.	29.98	Equitable	"	.96	5.00	124.2	29.94	30.99
" 10	1:30 P.M.	74.	29.24	"	"	.95	5.00	124.2	29.42	30.45
" 11	5:30 P.M.	70.	30.13	"	"	.96	5.00	117.0	30.56	29.79
" 12	3:30 P.M.	72.	30.21	"	"	.95	5.00	120.0	30.98	30.98
" 13	4:30 P.M.	70.	30.14	"	"	.95	5.00	120.0	31.70	31.70
" 14	5 P.M.	70.	30.00	"	"	.96	5.00	119.4	32.56	32.39
									Average.	31.05
Feb. 9	2 P.M.	66.	29.96	Metropolitan	" No. 6.	.65	5.00	120.6	21.48	21.59
" 10	10 A.M.	74.	29.20	"	"	.66	5.00	120.0	22.02	22.62
" 11	5 P.M.	60.	30.17	"	"	.67	5.00	126.0	19.90	20.89
" 12	2:30 P.M.	58.	30.25	"	"	.67	5.00	121.8	23.02	23.36
" 13	4 P.M.	60.	30.15	"	"	.67	5.00	120.0	21.70	21.70
" 14	11 A.M.	60.	30.13	"	"	.67	5.00	120.0	21.76	21.76
									Average.	21.88
Feb. 9	3 P.M.	68.	29.96	Knickerbocker	"	.84	5.00	124.2	25.20	26.08
" 10	9:30 A.M.	72.	29.20	"	"	.81	5.00	124.2	24.82	25.69
" 11	5:30 P.M.	60.	30.17	"	"	.84	5.00	124.2	23.86	24.69
" 12	2 P.M.	57.	30.25	"	"	.84	5.00	123.0	24.14	24.74
" 13	4:30 P.M.	61.	30.15	"	"	.83	5.00	120.0	25.06	25.06
" 14	11:30 A.M.	62.	30.13	"	"	.84	5.00	117.6	28.30	27.73
									Average.	25.66

E. G. LOVE, PH. D., Gas Examiner.

## COMMISSIONERS OF ACCOUNTS.

OFFICE OF THE COMMISSIONERS OF ACCOUNTS, ROOMS 114 AND 115 STEWART BUILDING, NEW YORK, Feb. 25, 1885.

THOMAS COSTIGAN, Esq., Supervisor City Record.

SIR: Pursuant to section 68, chapter 3, of the Consolidation Act of 1882, we hereby report the appointment, on February 18th inst., of M. H. Gilchrist, Temporary Assistant, at \$4.00 per day.

Very respectfully,

W. P. SHEARMAN,  
J. B. ADAMSON,

Commissioners of Accounts.

## OFFICIAL DIRECTORY.

STATEMENT OF THE HOURS DURING WHICH all the Public Offices in the City are open for business, and at which each Court regularly opens and adjourns, 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, 10 A. M. to 3 P. M.  
WILLIAM R. GRACE, Mayor; RICHARD J. MORRISON, Secretary; WILLIAM L. TURNER, Chief Clerk.

#### Mayor's Marshal's Office.

No. 1 City Hall, 9 A. M. to 4 P. M.  
THOMAS W. BYRNES, First Marshal.  
GEORGE W. BROWN, JR., Second Marshal.

#### Permit Bureau Office.

No. 13 City Hall, 9 A. M. to 4 P. M.  
HENRY WOLTMAN, Registrar.

### COMMISSIONERS OF ACCOUNTS.

Rooms 114 and 115 Stewart Building, 9 A. M. to 4 P. M.  
WM. PITT SHEARMAN, J. B. ADAMSON.

### AQUEDUCT COMMISSIONERS.

Room 78, Tribune Building, 9 A. M. to 5 P. M.  
THE MAYOR, President; JAMES W. McCULLOUGH, Secretary; BENJAMIN S. CHURCH, Chief Engineer.

### LEGISLATIVE DEPARTMENT.

#### Office of Clerk of Common Council.

No. 8 City Hall, 10 A. M. to 4 P. M.  
ADOLPH L. SANGER, President Board of Aldermen.  
FRANCIS J. TWOMEY, Clerk Common Council.

#### City Library.

No. 12 City Hall, 10 A. M. to 4 P. M.

### DEPARTMENT OF PUBLIC WORKS.

#### Commissioner's Office.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
ROLLIN M. SQUIRE, Commissioner; DAVID LOWBER SMITH, Deputy Commissioner.

#### Bureau of Chief Engineer.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
GEORGE W. BIRDSALL, Chief Engineer.

#### Bureau of Water Register.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
JOHN H. CHAMBERS, Register.

#### Bureau of Street Improvements.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
GEORGE A. JEREMIAH, Superintendent.

#### Engineer-in-Charge of Sewers.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
STEVENSON TOWLE, Engineer-in-Charge.

#### Bureau of Repairs and Supplies.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
THOMAS H. McAVOY, Superintendent.

#### Bureau of Water Purveyor.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
ALSTON CULVER, Water Purveyor.

#### Bureau of Lamps and Gas.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
STEPHEN McCORMICK, Superintendent.

#### Bureau of Streets.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
GEO. E. BABCOCK, Superintendent.

#### Bureau of Incumbrances.

No. 31 Chambers street, 9 A. M. to 4 P. M.  
JOSEPH BLUMENTHAL, Superintendent.

#### Keeper of Buildings in City Hall Park.

MARTIN J. KEESE, City Hall.

### FINANCE DEPARTMENT.

#### Comptroller's Office.

No. 15 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
EDWARD V. LOEW, Comptroller; RICHARD A. STORRS, Deputy Comptroller.

#### Auditing Bureau.

Nos. 19, 21, 23 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
WM. J. LYON, Auditor of Accounts.  
DAVID E. AUSTEN, Deputy 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.  
ARTEMAS S. CADY, Collector of Assessments and Clerk of Arrears.

#### 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.  
FRANCIS TOMES, Collector of the City Revenue and Superintendent of Markets.

#### Bureau for the Collection of Taxes.

First floor, Brown-stone Building, City Hall Park.  
MARTIN T. MCMAHON, Receiver of Taxes; ALFRED VREDENBURG, Deputy Receiver of Taxes.

#### Bureau of the City Chamberlain.

Nos. 25, 27 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
HENRY B. LAIDLAW, City Chamberlain.

#### Office of the City Paymaster.

Room 1, New County Court-house, 9 A. M. to 4 P. M.  
MOOR FALLS, City Paymaster.

### LAW DEPARTMENT.

#### Office of the Counsel to the Corporation.

Staats Zeitung Building, third floor, 9 A. M. to 5 P. M.  
Saturdays, 9 A. M. to 4 P. M.  
E. HENRY LACOMBE, Counsel to the Corporation  
ANDREW T. CAMPBELL, Chief Clerk.

#### Office of the Public Administrator.

No. 49 Beekman street, 9 A. M. to 4 P. M.  
ALGERNON S. SULLIVAN, Public Administrator.

#### Office of the Corporation Attorney.

No. 49 Beekman street, 9 A. M. to 4 P. M.  
WILLIAM A. BOYD, Corporation Attorney.

### POLICE DEPARTMENT.

#### Central Office.

No. 300 Mulberry street, 9 A. M. to 4 P. M.  
STEPHEN B. FRENCH, President; WILLIAM H. KIPP, Chief Clerk; JOHN J. O'BRIEN, Chief Bureau of Elections.

### DEPARTMENT OF CHARITIES AND CORRECTION.

#### Central Office.

No. 66 Third avenue, corner Eleventh street, 8.30 A. M. to 5.30 P. M.  
JACOB HESS, President; GEORGE F. BRITTON, Secretary.

### FIRE DEPARTMENT.

Office hours for all except where otherwise noted from 9 A. M. to 4 P. M. Saturdays, to 3 P. M.

#### Headquarters.

Nos. 155 and 157 Mercer street.  
CORNELIUS VAN COTT, President; CARL JUSSEN, Secretary.

#### Bureau of Chief of Department.

CHARLES O. SHAY, Chief of Department.

#### Bureau of Inspector of Combustibles.

PETER SEERY, Inspector of Combustibles.

#### Bureau of Fire Marshal.

GEORGE H. SHELDON, Fire Marshal.

#### Bureau of Inspection of Buildings.

ALBERT F. D'ONCH, Inspector of Buildings.

#### Attorney to Department.

WM. L. FINDLEY, Nos. 155 and 157 Mercer street.

#### Fire Alarm Telegraph.

J. ELLIOT SMITH, Superintendent of Telegraph, Nos. 155 and 157 Mercer street.  
Central Office Fire Alarm Telegraph open at all hours.

#### Repair Shops.

Nos. 128 and 130 West Third street.  
JOHN CASTLES, Foreman-in-Charge, 8 A. M. to 5 P. M.

#### Hospital Stables.

Ninety-ninth street, between Ninth and Tenth avenues.  
JOSEPH SHEA, Foreman-in-Charge.  
Open at all hours.

### HEALTH DEPARTMENT.

#### No. 301 Mott street, 9 A. M. to 4 P. M.

ALEXANDER SHALES, President; EMMONS CLARK, Secretary.

### DEPARTMENT OF PUBLIC PARKS.

#### No. 36 Union Square, 9 A. M. to 4 P. M.

JOHN D. CRIMMINS, President; EDWARD P. BARKER, Secretary.

#### Civil and Topographical Office.

Arsenal, Sixty-fourth street and Fifth avenue, 9 A. M. to 5 P. M.

#### Office of Superintendent of 23d and 24th Wards.

One Hundred and Forty-sixth street and Third avenue, 9 A. M. to 5 P. M.

### DEPARTMENT OF DOCKS.

#### Nos. 117 and 119 Duane street, 9 A. M. to 4 P. M.

LUCIUS J. N. STARK, President; JOHN T. CUMING, Secretary.

## DISTRICT ATTORNEY'S OFFICE.

Second floor, Brown-stone Building, City Hall Park, 9 A. M. to 4 P. M.  
 RANDOLPH B. MARTINE, District Attorney; JOHN M. COMAN, Chief Clerk.

## THE CITY RECORD OFFICE.

And Bureau of Printing, Stationery, and Blank Books.  
 No. 2 City Hall, 8 A. M. to 5 P. M., except Saturdays, on which days 8 A. M. to 3 P. M.  
 THOMAS COSTIGAN, Supervisor; R. P. H. ARELL, Book-keeper.

## CORONERS' OFFICE.

Nos. 13 and 15 Chatham street, 8 A. M. to 5 P. M. Sundays and holidays, 8 A. M. to 12:30 P. M.  
 PHILIP MERKLE, FERDINAND LEVY, BERNARD F. MARTIN and WILLIAM H. KENNEDY, Coroners; JOHN T. TOAL, Clerk of the Board of Coroners.

## SUPREME COURT.

Second floor, New County Court-house, 10½ A. M. to 3 P. M.  
 General Term, Room No. 9.  
 Special Term, Room No. 10.  
 Chambers, Room No. 11.  
 Circuit, Part I., Room No. 12.  
 Circuit, Part II., Room No. 13.  
 Circuit, Part III., Room No. 14.  
 Judges' Private Chambers, Room No. 15.  
 NOAH DAVIS, Chief Justice; PATRICK KEENAN, Clerk.

## SUPERIOR COURT.

Third floor, New County Court-house, 11 A. M.  
 General Term, Room No. 35.  
 Special Term, Room No. 33.  
 Chambers, Room No. 33, 10 A. M.  
 Part I., Room No. 34.  
 Part II., Room No. 35.  
 Part III., Room No. 36.  
 Judges' Private Chambers, Room No. 30.  
 Naturalization Bureau, Room No. 32.  
 Clerk's Office, Room No. 31, 9 A. M. to 4 P. M.  
 JOHN SEDGWICK, Chief Judge; THOMAS BOESE, Chief Clerk.

## COURT OF COMMON PLEAS.

Third floor, New County Court-house, 11 A. M.  
 Assignment Bureau, Room No. 23, 9 A. M. to 4 P. M.  
 Clerk's Office, Room No. 22, 9 A. M. to 4 P. M.  
 General Term, Room No. 24, 11 o'clock A. M. to adjournment.  
 Special Term, Room No. 21, 11 o'clock A. M. to adjournment.  
 Chambers, Room No. 21, 10:30 o'clock A. M. to adjournment.  
 Part I., Room No. 25, 11 o'clock A. M. to adjournment.  
 Part II., Room No. 26, 11 o'clock A. M. to adjournment.  
 Part III., Room No. 27, 11 o'clock A. M. to adjournment.  
 Naturalization Bureau, Room No. 23, 9 A. M. to 4 P. M.  
 CHARLES P. DALY, Chief Justice; NATHANIEL JARVIS, Jr., Chief Clerk.

## COURT OF GENERAL SESSIONS.

No. 32 Chambers street. Parts I. and II. Court opens at 11 o'clock A. M.  
 FREDERICK SMYTH, Recorder; HENRY A. GILDER-SLEEVE and RUFUS B. COWING, Judges of the said Court. Terms, first Monday each month.  
 JOHN SPARKS, Clerk. Office, Room No. 11, 10 A. M. till 4 P. M.

## CITY COURT.

City Hall.  
 General Term, Room No. 20.  
 Trial Term, Part I., Room No. 20.  
 Part II., Room No. 19.  
 Part III., Room No. 15.  
 Special Term, Chambers, Room No. 21, 10 A. M. to 4 P. M.  
 Clerk's Office, Room No. 10, City Hall, 9 A. M. to 4 P. M.  
 DAVID MCADAM, Chief Justice; JOHN REID, Clerk.

## OVER AND TERMINER COURT.

New County Court-house, second floor, southeast corner, Room No. 13. Court opens at 10½ o'clock A. M.  
 Clerk's 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.  
 Clerk's Office, Tombs.

## DISTRICT CIVIL COURTS.

First District—First, Second, Third, and Fifth Wards, southwest corner of Centre and Chambers streets.  
 MICHAEL NORTON, Justice.  
 Clerk's office open from 9 A. M. to 4 P. M.  
 Second District—Fourth, Sixth, and Fourteenth Wards corner of Pearl and Centre streets, 9 A. M. to 4 P. M.  
 CHARLES M. CLANCY, Justice.  
 Third District—Ninth and Fifteenth Wards, southwest corner Sixth avenue and West Tenth street. Court open daily (Sundays and legal holidays excepted), from 9 A. M. to 4 P. M.  
 GEORGE W. PARKER, Justice.  
 Fourth District—Tenth and Seventeenth Wards, No. 30 First street, corner Second avenue. Court opens 9 A. M. daily; continues to close of business.  
 ALFRED STECKLER, Justice.  
 Fifth District—Seventh, Eleventh, and Thirteenth Wards, No. 154 Clinton street.  
 JOHN H. MCCARTHY, Justice.  
 Sixth District—Eighteenth and Twenty-first Wards, No. 61 Union place, Fourth avenue, southwest corner of Eighteenth street. Court opens 9 A. M. daily; continues to close of business.  
 WILLIAM H. KELLY, Justice.  
 Seventh District—Nineteenth and Twenty-second Wards, No. 151 East Fifty-seventh street. Court opens every morning at 9 o'clock (except Sundays and legal holidays), and continues to the close of business.  
 AMBROSE MONELL, Justice.  
 Eighth District—Sixteenth and Twentieth Wards, southwest corner of Twenty-second street and Seventh avenue. Court opens at 9 A. M. and continues to close of business. Clerk's office open from 9 A. M. to 4 P. M., each court day.  
 FREDERICK G. GEDNEY, Justice.  
 Ninth District—Twelfth Ward, No. 225 East One Hundred and Twenty-fifth street.  
 HENRY P. MCGOWN, Justice.  
 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, 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.  
 JAMES R. ANGELL, Justice.  
 Eleventh District—No. 919 Eighth avenue; Twenty-second Ward, and all that part of the Twelfth Ward lying south of One Hundred and Tenth street and west of Sixth avenue. Court open daily (Sundays and legal holidays excepted) from 9 A. M. to 4 P. M.  
 LEO C. DESSAR, Justice.

## POLICE COURTS.

Judges—MAURICE J. POWER, J. HENRY FORD, JACOB PATTERSON, JR., JAMES T. KILBRETH, JOHN J. GORMAN, HENRY MURRAY, SOLON B. SMITH, ANDREW J. WHITE, CHARLES WELDE, DANIEL O'REILLY, PATRICK G. DUFFY.

GEORGE W. CREGIER, Secretary.  
 Office of Secretary, Fifth District Police Court, One Hundred and Twenty-fifth street, near Fourth avenue.  
 First District—Tombs, Centre street.  
 Second District—Jefferson Market.  
 Third District—No. 69 Essex street.  
 Fourth District—Fifty-seventh street, near Lexington avenue.  
 Fifth District—One Hundred and Twenty-fifth street, near Fourth avenue.  
 Sixth District—One Hundred and Fifty-eighth street and Third avenue.

## FIRE DEPARTMENT.

HEADQUARTERS  
 FIRE DEPARTMENT, CITY OF NEW YORK,  
 155 AND 157 MERCER STREET,  
 NEW YORK, February 16, 1885.

## SEALED PROPOSALS FOR FURNISHING THIS

Department with the following articles, to wit:  
 3,000 tons Egg Coal.  
 1,500 tons Stove Coal.  
 500 tons Nut Coal.

—to be of the best quality of Pitston, Scranton, or Lackawanna Valley, weigh 2,000 pounds to the ton, and be well screened and free from slate, will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 155 and 157 Mercer street, in the City of New York, until 11 o'clock A. M., Saturday, February 28, 1885, at which time and place they will be publicly opened by the head of said Department and read.

All of the coal is to be delivered and weighed upon scales furnished by the Department (which are to be transported from place to place by the contractor), in the presence of an Inspector to be designated by the Department for that purpose, at the various houses, etc., of the Department, in such quantities and at such times as may be from time to time directed.

No estimate will be received or considered after the hour named.

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 articles 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 articles 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 his sureties for its faithful performance in the sum of ten thousand dollars (\$10,000); 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 national banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five hundred dollars (\$500). 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-book, 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 re-advertised and relet as provided by law. Bidders will write out the amount of their estimate in addition to inserting the same in figures.

The form of the agreement showing the manner of payment for the coal may be seen and forms of proposals may be obtained at the office of the Department.

CORNELIUS VAN COTT,  
 HENRY D. PURROY,  
 RICHARD CROKER,  
 Commissioners.

HEADQUARTERS  
 FIRE DEPARTMENT, CITY OF NEW YORK,  
 155 AND 157 MERCER STREET,  
 NEW YORK, Nov. 21, 1883.

NOTICE IS HEREBY GIVEN THAT THE Board of Commissioners of this Department will meet daily, at 10 o'clock A. M., for the transaction of business.

By order of  
 CORNELIUS VAN COTT, President.  
 HENRY D. PURROY,  
 RICHARD CROKER,  
 Commissioners.  
 CARL JUSSSEN,  
 Secretary.

## POLICE DEPARTMENT.

POLICE DEPARTMENT OF THE CITY OF NEW YORK,  
 300 MULBERRY STREET,  
 NEW YORK, Feb. 21, 1885.

PUBLIC NOTICE IS HEREBY GIVEN THAT a horse, the property of this Department, will be sold at public auction, on Friday, March 6, 1885, at 10 o'clock A. M., at the stables of Van Tassel & Kearney, Auctioneers, No. 110 East Thirteenth street.

By order of the Board.  
 WM. H. KIPP,  
 Chief Clerk.

POLICE DEPARTMENT—CITY OF NEW YORK,  
 OFFICE OF THE PROPERTY CLERK (Room No. 39),  
 No. 300 MULBERRY STREET,  
 NEW YORK, 1884.

OWNERS WANTED BY THE PROPERTY Clerk of the Police Department of the City of New York, No. 300 Mulberry street, Room No. 39, 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.

## THE CITY RECORD.

COPIES OF THE CITY RECORD CAN BE obtained at No. 2 City Hall (northwest corner basement). Price three cents each.

## SUPREME COURT.

In the matter of the application of the Department of Public Works for and in behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of One Hundred and Forty-second street, between Boulevard and Tenth avenue, in the City of New York.

NOTICE IS HEREBY GIVEN THAT THE BILL of the 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 at the City Hall, in the City of New York, on the thirteenth day of March, 1885, at 10½ 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, February 25, 1885.  
 HAROLD MORGAN SMITH,  
 E. HOGAN,  
 JOHN WHALEN,  
 Commissioners.

In the matter of the application of the Commissioners of the Department of Public Parks, for and in behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of Rider avenue, from East One Hundred and Thirty-fifth street to East One Hundred and Thirty-sixth street, in the City of New York.

NOTICE IS HEREBY GIVEN THAT THE BILL of the 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, at the City Hall, in the City of New York, on the thirteenth day of March, 1885, at 10½ 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, February 25, 1885.  
 WILLIAM H. BARKER,  
 JOHN WHALEN,  
 WM. V. I. MERCER,  
 Commissioners.

In the matter of the application of the Department of Public Works, for and in behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of One Hundred and Sixtieth street between Kingsbridge road and Eleventh avenue, in the City of New York.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners, occupant or occupants, of all houses and lots and improved or 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 these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 73 William street (third floor), in the said city, on or before the second day of March, 1885, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said second day of March, 1885, and for that purpose will be in attendance at our said office on each of said ten days at 2½ o'clock P. M.

Second—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the third day of March, 1885.

Third—That the limits embraced by the assessment aforesaid are as follows, to wit: 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.: Westerly by the easterly line or side of Eleventh avenue; northerly by the centre line of the blocks between One Hundred and Sixtieth and One Hundred and Sixty-first streets, from the easterly line or side of Eleventh avenue to the westerly line or side of Kingsbridge road; easterly by the westerly line or side of the blocks between One Hundred and Fifty-ninth and One Hundred and Sixtieth streets from the westerly line or side of Kingsbridge road to the easterly line or side of Eleventh avenue, excepting therefrom all the streets and avenues within said area.

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, at the City Hall, in the City of New York, on the twentieth day of March, 1885, 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, January 27, 1885.  
 DANIEL LORD, JR.,  
 JOHN KELLY,  
 J. DANA JONES,  
 E. HOGAN,  
 Commissioners.

ARTHUR BERRY, Clerk.

In the matter of the application of the Department of Public Works, for and in behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of One Hundred and Sixty-first street, between Tenth and Eleventh avenues, in the City of New York.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners, occupant or occupants, of all houses and lots and improved or 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 these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 73 William street (third floor), in the said city, on or before the 2d day of March, 1885, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said 2d day of March, 1885, and for that purpose will be in attendance at our said office on each of said ten days at three o'clock P. M.

Second—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the 3d day of March, 1885.

Third—That the limits embraced by the assessment aforesaid are as follows, to wit: 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.: Westerly by the easterly line or side of Eleventh avenue; northerly by a straight line drawn from a point on the easterly line or side of Eleventh avenue, ninety-nine feet eleven inches northerly from the northerly line of One Hundred and Sixty-first street easterly to a point on the westerly line or side of Tenth avenue, distant ninety-nine feet eleven inches northerly from the northerly line of One Hundred and Sixty-first street; easterly by the westerly line or side of Tenth avenue; and southerly by the centre line of the block between One Hundred and Sixtieth and One Hundred and Sixty-first streets, from Tenth avenue to Eleventh avenue, excepting therefrom all of the streets and avenues within said area.

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, at the City Hall, in the City of New York, on the 20th day of March, 1885, 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, January 27, 1885.

JOHN WHALEN,  
 J. DANA JONES,  
 E. HOGAN,  
 Commissioners.

ARTHUR BERRY, Clerk.

## DEPARTMENT OF TAXES AND ASSESSMENTS.

DEPARTMENT OF TAXES AND ASSESSMENTS,  
 STAATS ZEITUNG BUILDING,  
 NEW YORK.

IN COMPLIANCE WITH SECTION 817 OF THE City Consolidation Act of 1882, it is hereby advertised that the books of "The Annual Record of the Assessed Valuations of Real and Personal Estate" of the City and County of New York, for the year 1885, will be open for examination and correction from the second Monday of January, 1885, until the first day of May, 1885.

All persons believing themselves aggrieved must make application to the Commissioners of Taxes and Assessments, at this office, during the period said books are open, in order to obtain the relief provided by law.

Applications for correction of assessed valuations on personal estate must be made by the person assessed, to the said Commissioners, between the hours of 10 A. M. and 2 P. M. at this office during the same period.

THOMAS B. ASTEN,  
 EDWARD C. DONNELLY,  
 THOMAS L. FEITNER,  
 Commissioners of Taxes and Assessments.

## DEPARTMENT OF PUBLIC PARKS.

CITY OF NEW YORK,  
 DEPARTMENT OF PUBLIC PARKS,  
 36 UNION SQUARE,  
 December 26, 1884.

PROPERTY-OWNERS INTERESTED IN THE proposed change of the grades of the streets and avenues intersecting and crossing the tracks of the Harlem Railroad Company, in the Twenty-third and Twenty-fourth Wards, are requested to call at the office of the Topographical Engineer of the Department of Public Parks, at the Arsenal building, Sixty-fourth street and Fifth avenue, Central Park, and examine plans, as prepared by the Department of Public Parks, showing a system of proposed over grade crossings, and make known their views in relation to the same with the view of securing such legislation as may be necessary in order to secure such change of grades.

By order of the Department of Public Parks.  
 E. P. BARKER,  
 Secretary.

## AQUEDUCT COMMISSION.

COMMISSIONERS OF APPRAISAL OF REAL ESTATE  
 TO BE TAKEN FOR THE NEW  
 AQUEDUCT WITHIN THE COUNTY OF NEW YORK.

EVERY OWNER OR PERSON IN ANY WAY interested in any real estate between the Harlem river and the northern boundary of the City and County of New York, intended to be taken or entered upon and used and occupied for the purposes of the new Aqueduct; also any owner or person interested in any real estate contiguous thereto, and which may be affected by the construction and maintenance of said aqueduct, or of any of the works connected therewith, is hereby required to present his claim to the Commissioners of Appraisal appointed for the purpose of appraising such lands and easements, or ascertaining such damages, at the offices of said Commissioners, Room 803, in the Mutual Life Insurance Building, No. 32 Nassau street, in the City of New York.

All said claims may be filed on and after the first day of October, 1884. The maps showing the location of the Aqueduct, and the lands and interests to be acquired will be on file at the said office on and after that date.

E. ELLERY ANDERSON,  
 HENRY F. SPAULDING,  
 ROBERT MURRAY,  
 Commissioners.

## ASSESSMENT COMMISSION.

NOTICE IS HEREBY GIVEN, THAT A MEETING of the Commissioners under the act, chapter 550 of the Laws of 1880, entitled "An act relating to certain assessments for local improvements in the City of New York," passed June 9, 1880, will be held at their office, No. 27 Chambers street, on Friday, February 27, 1885, at 3 o'clock P. M.

DANIEL LORD, JR.,  
 JOHN KELLY,  
 ALLAN CAMPBELL,  
 JOSEPH GARRY,  
 Commissioners under the Act.

JAMES J. MARTIN, Clerk.

## DEPARTMENT OF PUBLIC WORKS.

DEPARTMENT OF PUBLIC WORKS,  
COMMISSIONER'S OFFICE,  
No. 31 CHAMBERS STREET,  
NEW YORK, Nov. 1, 1884.

**PUBLIC NOTICE IS HEREBY GIVEN TO** property-owners of the City of New York that, by the New York City Consolidated Act of 1882, among other matters relating to Croton water rates and affecting all properties liable for Croton water charges, is embraced the following, in "Title 2, Duties and Powers of the Department of Public Works as to Procuring and Distributing Water":

§ 350. The Commissioner of Public Works shall, from time to time, establish scales of rents. \* \* \* \* \*

Such rents shall be collected from the owners or occupants of all such buildings, respectively, which shall be situated upon lots adjoining any street or avenue in said city in which the distributing water-pipes are or may be laid, and from which they can be supplied with water, said rents shall become a charge and lien upon such houses and lots, respectively, as provided by law.

It becomes my duty to state that on and after the first day of April, 1885, all extra charges, such as steam-engines, bakeries, barbers, bathing-tubs, boarding-houses, boarding-schools, building purposes, horses, horse-troughs, hotels, porter-houses, taverns, etc., printing-offices, stone cutting or dressing, slaughter-houses, dyeing, water-closets and urinals, laundries, restaurants, soda fountains, extra families, oyster and coffee saloons, water by meter measurement, meters and meter setting, and all other purposes for which the use of Croton water is chargeable according to law, are liens, and unless paid on or before the 30th day of April next must be returned to the Clerk of Arrears, with the amount due on each lot.

HUBERT O. THOMPSON,  
Commissioner of Public Works.

## DEPARTMENT OF DOCKS.

DEPARTMENT OF DOCKS,  
117 AND 119 DUANE STREET,  
NEW YORK CITY.

## NOTICE TO MARINERS IN THE PORT OF NEW YORK, PILOTS, AND ALL OTHERS TO WHOM IT MAY CONCERN.

**PLEASE TAKE NOTICE THAT THIS DEPARTMENT** has placed off the Battery and south of Pier, new 1, North river, two wooden floats or buoys, cubical in shape, six feet on each side, painted black, and anchored on a line bearing S. 7½° east from southwest corner of Pier, new 1, North river, the first float being anchored about 209 feet and the second about 335 feet distant therefrom.

By order of the Board.

JOHN T. CUMING,  
Secretary.

## DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
No. 66 THIRD AVENUE,  
NEW YORK, February 24, 1885.

## PROPOSALS FOR 500 TONS OF FRESH MINED WHITE ASH STOVE COAL FOR THE OUT-DOOR POOR.

**PROPOSALS, SEALED AND INDORSED AS** above, will be received by the Commissioners of Public Charities and Correction, at their office, until 9.30 o'clock A. M. of Monday, March 9, 1885, at which time they will be publicly opened and read by the head of said Department, for 500 tons Fresh Mined White Ash Stove Coal, of the best quality; each ton to consist of two thousand pounds, to be well screened, and delivered in half tons and in such parts of the city as may be required and ordered from time to time, south of Eighty-fourth street, to be subject to such inspection as the Commissioners may direct, and to meet their approval as to the quality, quantity, time, and manner of delivery in every respect.

The award of the contract will be made as soon as practicable after the opening of the bids.

No proposal will be considered unless 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 under that proposal, they will, on its being so awarded, become bound as sureties in one thousand and two hundred (\$1,200) dollars each for its faithful performance; which consent must be verified by the justification of each of the persons signing the same for double the amount of surety required. The adequacy and sufficiency of such security to be approved by the Comptroller.

No bid or 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 included in the sealed envelope containing the estimates, 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 his deposit will be returned to him.

The Board of Public Charities and Correction reserves the right to reject all bids if deemed for the best interests of the city; and no proposal will be accepted from, or a 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.

Blank forms of proposals and specifications, which are to be strictly complied with, can be obtained on application at the office of the Department, and all in ornation furnished.

THOMAS S. BRENNAN,  
HENRY H. PORTER,  
JACOB HESS,  
Commissioners of the Department of  
Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
No. 66 THIRD AVENUE.

## TO CONTRACTORS.

## PROPOSALS FOR FLOUR.

**SEALED BIDS OR ESTIMATES FOR FURNISH-** ing and delivering free of all expense at the Bake-house dock, Blackwell's Island (east side), 4,000 barrels extra Wheat Flour, in lots of 500 to 1,000 barrels, one-half of each quality, as follows:

2,000 barrels of sample marked No. 1.  
2,000 barrels of sample marked No. 2.

—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 9.30 o'clock A. M., of Saturday, February 28, 1885. The person or persons making any

bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Flour," 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 contractor shall furnish a certificate of inspection by the Flour Inspector of the New York Produce Exchange, also an award from the Committee on Flour of the Exchange that the flour offered is equal to the standards of the Department and which certificate shall accompany each delivery of flour, the expense of such inspection and award to be borne by the contractor, also certificate of weight and tare to be furnished with each delivery.

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 a 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.

Delivery will be required to be made from time to time, and in such quantities as may be directed by the said Commissioners.

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 fifty (50) per cent. of the ESTIMATED amount of the contract.

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; 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 to 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 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 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 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. The adequacy and sufficiency of the security offered to be approved by the Comptroller of the City of New York.

No bid or estimate will be 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 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 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.

The quality of the articles, supplies, goods, wares, and merchandise must conform in every respect to the samples of the same, respectively, at the office of the said Department. Bidders are cautioned to examine the specifications for particulars of the articles, etc., required, before making their estimates.

Bidders will state the prices 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, issued on the completion of the contract, or from time to time, as the Commissioners may determine.

Bidders are informed that no deviation from the specifications will be allowed, unless under the written instruction of the Commissioners of Public Charities and Correction.

The form of the agreement, including specifications, and showing the manner of payment, can be obtained at the office of the Department.

Dated New York, February 17, 1885.

THOMAS S. BRENNAN,  
HENRY H. PORTER,  
JACOB HESS,  
Commissioners of the Department of  
Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
No. 66 THIRD AVENUE.

## TO CONTRACTORS.

## PROPOSALS FOR GROCERIES, DRY GOODS, HARDWARE, ROPE AND LUMBER.

**SEALED BIDS OR ESTIMATES FOR FURNISH-** ing

GROCERIES.  
7,500 pounds Dairry Butter; sample on exhibition Thursday, February 26, 1885.  
10,000 pounds Barley, to include packages.  
2,000 pounds Cheese.  
200 pounds Farina (one pound papers).  
8,000 pounds Wheaten Grits, including packages.  
50,000 pounds Brown Sugar.

500 barrels good sound Irish Potatoes, to weigh 168 pounds net per barrel, to be delivered at Blackwell's Island.  
150 barrels Prime Carrots, 120 pounds net per barrel.  
150 barrels Prime Russia Turnips, 135 pounds net per barrel.  
50 barrels Prime Red Onions.  
10 barrels first quality Sal Soda, to average about 350 pounds (in original packages).  
100 bags Bran, 50 pounds each.  
100 prime city cured Smoked Tongues, to average 6 pounds each.  
33,000 fresh Eggs, all to be candled.

## DRY GOODS.

100 pairs colored Blankets.  
10,000 yards dark Calico.  
40,000 Needles, 10,000 each No. 3, 4, 5, 6.  
200 pounds Machine Thread, dark blue, No. 50.  
100 pieces Crinoline.

## HARDWARE.

1 dozen Butcher's Cleavers, 7 pounds.  
2 dozen Butcher's Steels.  
1 gross Razors.  
½ gross Trimmers, 8-inch.  
4 gross Spectacles.  
20 gross Patent Peg Awns.  
10 gross Sewing Awns.

## ROPE.

20 coils, best quality, Manila Rope, 9-thread.  
4 " " " " 2-in.  
1 " " " " 2½-in.  
1 " " " " 3-in.  
1 " " " " 3½-in.

## LUMBER.

75,000 feet B. M., 1-in. good Shipping Box Boards, 12 to 13 inches wide, 12 to 16 feet long, dressed one side.  
250 Hemlock Joists, 3 x 4 in. x 13 feet.  
250 Hemlock Wall Strips, 2 x 4 in. x 13 feet.  
10,000 feet, prime quality Georgia Yellow Pine Flooring, 1½ x 3½ in., dressed, tongued and grooved.  
500 pieces Spruce Flooring, 1½ x 9 in. by 13 feet, dressed, tongued and grooved.  
500 good merchantable Worked Pine Boards, tongued and grooved, 1 x 10 in. by 13 feet.  
All Lumber to be delivered at Blackwell's Island.

—will be received at the office of the Department of Public Charities and Correction, in the City of New York, until 9.30 o'clock A. M., of Friday, February 27, 1885. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Groceries, Dry Goods, Hardware, Rope and Lumber," 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 a 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.

Delivery will be required to be made from time to time, and in such quantities as may be directed by the said Commissioners.

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, in the penal amount of fifty (50) per cent. of the estimated amount of the contract.

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; 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 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 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 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 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. The adequacy and sufficiency of the security offered to be approved by the Comptroller of the City of New York.

No bid or estimate will be 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 included 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 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.

The quality of the articles, supplies, goods, wares, and merchandise must conform in every respect to the samples of the same, respectively, at the office of the said

Department. Bidders are cautioned to examine the specifications for particulars of the articles, etc., required, before making their estimates.

Bidders will state the prices 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, issued on the completion of the contract, or from time to time, as the Commissioners may determine.

Bidders are informed that no deviation from the specifications will be allowed, unless under the written instruction of the Commissioners of Public Charities and Correction.

No bid or estimate will be accepted from, or a 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 form of the agreement, including specifications, and showing the manner of payment, can be obtained at the office of the Department.

Dated New York, February 16, 1885.

THOMAS S. BRENNAN,  
HENRY H. PORTER,  
JACOB HESS,  
Commissioners of the Department of  
Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
COMMISSIONERS' OFFICE,  
No. 66 THIRD AVENUE,  
NEW YORK, February 6, 1885.

**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 Charity Hospital, Blackwell's Island—Frank Flecker; aged 62 years; 5 feet 5 inches high; gray hair, brown eyes. Had on when admitted gray coat, black pants, white shirt, derby hat, slippers.

At Workhouse, Blackwell's Island—Samuel Prynes; aged 38 years; committed December 9, 1884.

George DeMott; aged 33 years; committed November 25, 1884.

Rosanna Hustis aged 66 years; committed December 28, 1884.

Martha Watson, aged 57 years; committed October 15, 1884.

At Lunatic Asylum, Blackwell's Island—Alvine Moll; aged 22 years; 5 feet 3 inches high; brown eyes and hair.

At Homoeopathic Hospital, Ward's Island—Mary Neeland; aged 60 years; 4 feet 11 inches high; gray eyes, brown hair. Had on when admitted black shawl, dark skirt and sash, laced shoes.

Thaddeus O'Brien; aged 64 years; 5 feet 6 inches high; gray eyes and hair. Had on when admitted black coat and vest, blue overcoat, gaiters, black hat.

Patrick O'Leary; aged 32 years; 5 feet 9 inches high; blue eyes, brown hair. Had on when admitted black coat, blue pants and vest, laced shoes, brown derby hat.

James Howard; aged 36 years; 5 feet 9 inches high; brown eyes, black hair. Had on when admitted black coat and vest, dark striped pants, gaiters, black derby hat.

Mary Kelly; aged 47 years; 5 feet 3 inches high; gray eyes, black hair. Had on when admitted white striped shawl, red calico wrapper, black hood.

At Hart's Island Hospital—Mary Dolan; aged 63 years.

Nothing known of their friends or relatives.

By order.

G. F. BRITTON,  
Secretary.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
COMMISSIONERS' OFFICE,  
No. 66 THIRD AVENUE,  
NEW YORK, February 11, 1885.

**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 Workhouse, Blackwell's Island—Ann Slater; aged 60 years; committed January 5, 1885.

Sarah Waters; aged 59 years; committed December 11, 1884.

Francis Bowen; aged 59 years; committed January 27, 1885.

George Goettizer; aged 62 years; committed January 31, 1885.

At Lunatic Asylum, Blackwell's Island—Caroline Banter; aged 50 years; 5 feet 1½ inches high; gray hair, brown eyes.

At Homoeopathic Hospital, Ward's Island—Thomas Bennett; aged 21 years; 5 feet 9 inches high; blue eyes, red hair. Had on when admitted dark coat, blue flannel vest, gray pants, gaiters, black derby hat.

At Randall's Island Hospital—John Deacon; aged 65 years; 5 feet 6 inches high; gray hair, blue eyes.

Nothing known of their friends or relatives.

By order.

G. F. BRITTON,  
Secretary.

## JURORS

## NOTICE

## IN RELATION TO JURORS FOR STATE COURTS.

OFFICE OF THE COMMISSIONER OF JURORS,  
ROOM 127, STEWART BUILDING,  
CHAMBERS STREET AND BROADWAY,  
NEW YORK, June 1, 1883.

**APPLICATIONS FOR EXEMPTIONS WILL BE** heard here, from 10 to 3 daily, from all persons hitherto liable or recently serving who have become exempt, and all needed information will be given.

Those who have not answered as to their liability, or proved permanent exemption, will receive a "jury enrollment notice," requiring them to appear before me this year. Whether liable or not, such notices must be answered (in person, if possible, and at this office only) under severe penalties. If exempt, the party must bring proof of exemption; if liable, he must also answer in person, giving full and correct name, residence, etc., etc. No attention paid to letters.

Persons "enrolled" as liable must serve when called or pay their fines. No mere excuse will be allowed or interference permitted. The fines if unpaid will be entered as judgments upon the property of the delinquents.

All good citizens will aid the course of justice, and secure reliable and respectable juries, and equalize their duty by serving promptly when summoned, allowing their clerks or subordinates to serve, reporting to me any attempt at bribery or evasion, and suggesting names for enrollment. Persons between sixty and seventy years of age, summer absentees, persons temporarily ill, and United States and District Court jurors are not exempt.

Every man must attend to his own notice. It is a misdemeanor to give any jury paper to another to answer. It is also punishable by fine or imprisonment to give or receive any present or bribe, directly or indirectly, in relation to a jury service, or to withhold any paper or make any false statement, and every case will be fully prosecuted.

GEORGE CAULFIELD,  
Commissioner of Jurors,  
Room 127, Stewart Building,  
Chambers street and Broadway.

## CORPORATION NOTICE.

**PUBLIC NOTICE IS HEREBY GIVEN TO THE** owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 1987, No. 1. Regulating and paving with granite block pavement Fourth avenue, on the west side from One Hundred and Twenty-fourth to One Hundred and Thirty-third street and on the east side from One Hundred and Twenty-fourth to One Hundred and Thirty-second street.

List 2027, No. 2. Paving Fourth avenue, from One Hundred and Sixteenth to One Hundred and Twenty-fourth street with granite block pavement.

The limits embraced by such assessments includes all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Fourth avenue, from One Hundred and Twenty-fourth to One Hundred and Thirty-third street and to the extent of half the block at the intersecting streets.

No. 2. Both sides of Fourth avenue, from One Hundred and Sixteenth to One Hundred and Twenty-fourth street and to the extent of half the block at the intersecting streets.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 30th day of March ensuing.

JOHN R. LYDECKER,  
JOHN W. JACOBUS,  
JOHN MULLALLY,  
HENRY A. GUMBLETON,  
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,  
No. 11½ CITY HALL,  
NEW YORK, February 26, 1885.

**PUBLIC NOTICE IS HEREBY GIVEN TO THE** owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 2129, No. 1. Receiving-basins on the northeast and southeast corners of Frankfort and Cliff streets.

List 2130, No. 2. Setting curb and flagging sidewalks four feet wide on One Hundred and Seventy-fifth street, from Tenth avenue to Kingsbridge road.

List 2135, No. 3. Fencing vacant lots on the east side of Fourth avenue, between Sixty-fourth and Sixty-fifth streets, and on south side Sixty-fifth street, between Fourth and Lexington avenues.

List 2137, No. 4. Receiving-basins on the northwest corner of One Hundred and Fourth street and Fourteenth street and Lexington avenue.

List 2138, No. 5. Sewer in Ninety-fifth street, between Eighth and Ninth avenues.

List 2140, No. 6. Sewer in Avenue B, between Fourth and Fifth streets.

List 2143, No. 7. Sewer in Lexington avenue, between One Hundred and Eighth and One Hundred and Ninth streets.

List 2089, No. 8. Sewer in Riverside avenue, between Ninety-second and One Hundred and Sixth streets.

List 1922, No. 9. Sewer in Riverside avenue, between One Hundred and Sixth and One Hundred and Eleventh streets.

List 2145, No. 10. Sewer in One Hundred and Forty-sixth street, between Boulevard and Tenth avenue, and in Tenth avenue, west side, between One Hundred and Forty-sixth and One Hundred and Forty-seventh streets.

List 1854, No. 11. Sewer in Twelfth and Riverside avenues, between One Hundred and Twenty-second and Manhattan streets.

The limit embraced by such assessments includes all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Property bounded by Cliff and Pearl streets Hague and Ferry streets.

No. 2. Both sides of One Hundred and Seventy-fifth street, between Tenth avenue and Kingsbridge road.

No. 3. East side of Fourth avenue, between Sixty-fourth and Sixty-fifth streets, and south side Sixty-fifth street, between Fourth and Lexington avenues.

No. 4. North side of One Hundred and Fourth street, between Fourth and Madison avenues, and extending fifty feet on the west side of Fourth avenue, north of One Hundred and Fourth street; also, north side of One Hundred and Seventeenth street, between Lexington and Fourth avenues, and east side of Fourth avenue, between One Hundred and Seventeenth and One Hundred and Eighteenth streets.

No. 5. Both sides of Ninety-fifth street, between Eighth and Ninth avenues.

No. 6. Both sides of Avenue B, between Fourth and Fifth streets.

No. 7. Both sides of Lexington avenue, between One Hundred and Eighth and One Hundred and Ninth streets.

No. 8. Property situated between Ninety-second and One Hundred and Sixth streets, West End avenue and Hudson river.

No. 9. Property situated between One Hundred and Sixth and One Hundred and Eleventh streets, Boulevard and Hudson river.

No. 10. Both sides of One Hundred and Forty-sixth street, between Boulevard and Tenth avenue, and west side Tenth avenue, between One Hundred and Forty-sixth and One Hundred and Forty-seventh streets.

No. 11. Property situated between One Hundred and Twenty-second and One Hundred and Twenty-seventh streets, Clermont avenue and Hudson river, and also property situated between One Hundred and Twenty-seventh and Manhattan streets, Boulevard and Riverside avenue.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 16th day of March ensuing.

JOHN R. LYDECKER,  
JOHN W. JACOBUS,  
JOHN MULLALLY,  
HENRY A. GUMBLETON,  
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,  
No. 11½ CITY HALL,  
NEW YORK, February 12, 1885.

**PUBLIC NOTICE IS HEREBY GIVEN TO THE** owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 1378, No. 1. Regulating, grading, setting and resetting curb, flagging and reflagging and paving with Telford pavement, in One Hundred and Tenth street, from First avenue to Riverside Drive.

List 1408 A No. 2. Tree planting on Eastern Boulevard, One Hundred and Tenth street, from First avenue to Riverside Drive.

The limit embraced by such assessments includes all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of One Hundred and Tenth street, from First avenue to Riverside Drive and to the extent of one-half the block at the intersecting avenues.

No. 2. Both sides of One Hundred and Tenth street, from First avenue to Riverside Drive.

All persons whose interests are affected by the above-

named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 12th day of March ensuing.

JOHN R. LYDECKER,  
JOHN W. JACOBUS,  
JOHN MULLALLY,  
HENRY A. GUMBLETON,  
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,  
No. 11½ CITY HALL,  
NEW YORK, February 10, 1885.

**PUBLIC NOTICE IS HEREBY GIVEN TO THE** owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 2122, No. 1. Setting curb and flagging and gutter stones on and along the western sidewalk of St. Ann's avenue, from seventy-five feet north of One Hundred and Thirty-ninth to One Hundred and Forty-first street.

List 2133, No. 2. Sewer in One Hundred and Seventh street, between Third and Lexington avenues.

List 2139, No. 3. Sewer in Broadway, west side, between Battery place and Morris street.

List 2028, No. 4. Sewer in Riverside avenue, between Seventy-sixth and Ninety-second streets and outlet through Riverside Park and Ninety-first street to Hudson river.

List 1855, No. 5. Sewer in Riverside avenue, between One Hundred and Eleventh and One Hundred and Twenty-second streets, with outlet through Riverside Park and One Hundred and Fifteenth street to Hudson river.

The limit embraced by such assessments includes all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. West side of St. Ann's avenue, from One Hundred and Thirty-ninth to One Hundred and Forty-first street.

No. 2. Both sides of One Hundred and Seventh street, between Third and Lexington avenues.

No. 3. West side of Broadway, between Battery place and Morris street.

No. 4. Property situated between Seventy-sixth and Ninety-second streets, West End avenue and Hudson river.

No. 5. Property situated between One Hundred and Tenth and One Hundred and Twenty-second streets, Boulevard and Hudson river.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 12th day of March ensuing.

JOHN R. LYDECKER,  
JOHN W. JACOBUS,  
JOHN MULLALLY,  
HENRY A. GUMBLETON,  
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,  
No. 11½ CITY HALL,  
NEW YORK, February 10, 1885.

**PUBLIC NOTICE IS HEREBY GIVEN TO THE** owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 1512, No. 1. Regulating, grading, setting curb and gutter stones, and flagging Forty-second street, from Second avenue to the East river.

List 1590, No. 2. Paving Forty-second street, from First avenue to the East river.

List 1602, No. 3. Construction of retaining walls, arches, steps, railing, and for the filling and grading necessary for the support and protection of the forty-foot roadway excavated in the centre of Forty-second street, between First and Second avenues.

List 1848, No. 4. Regulating and paving with granite-block pavement Forty-second street, from Second to First avenue, and setting curb and gutter stones, and flagging sidewalks therein.

List 1853, No. 5. Sewer in Twentieth street, between Fourth avenue and Irving place, from end of present sewer in Twentieth street, east of Irving place.

List 1925, No. 6. Sewer in Eighty-second street, between Eighth and Tenth avenues.

List 1929, No. 7. Regulating, grading, setting curb-stones and flagging One Hundred and Fifty-ninth street, from Tenth to Eleventh avenue.

List 2005, No. 8. Sewer in Tenth avenue, east side, between One Hundred and Fourteenth and One Hundred and Sixteenth streets, with branch in One Hundred and Sixteenth street.

List 2058, No. 9. Regulating and grading One Hundred and Seventy-fifth street, between Tenth avenue and Kingsbridge road.

List 2075, No. 10. Regulating, grading, setting curb-stones and flagging One Hundred and Thirty-sixth street, from Fifth to Eighth avenue, except between Sixth and Seventh avenues.

List 2091, No. 11. Crosswalks in East One Hundred and Fifty-eighth street, at the intersection of Melrose, Courtland, College and Railroad avenues.

List 2092, No. 12. Sewer in Chatham street, between New York and Brooklyn Bridge and Frankfort street, with alterations and improvements to sewer in Frankfort street, between Chatham and William streets.

List 2093, No. 13. Sewer in One Hundred and Fourth street, between Eighth and Ninth avenues.

List 2118, No. 14. Crosswalks in Lincoln avenue, at the southerly intersection of Southern Boulevard and at the intersection of each street from the Southern Boulevard to and including One Hundred and Thirty-seventh street, also, across each street within the aforesaid limits at the intersection of Lincoln avenue.

The limit embraced by such assessments includes all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Forty-second street, from Second avenue to East river.

No. 2. Both sides of Forty-second street, from First avenue to East river and to the extent of half the block at the intersection of First avenue.

No. 3. Both sides of Forty-second street, from Fifth avenue to East river; both sides of Forty-first and Forty-third streets, from Second avenue to East river; both sides of First and Second avenues, from Fortieth to Forty-fourth street.

No. 4. Both sides of Forty-second street, from Fifth avenue to East river; both sides of Forty-first and Forty-third streets, from Second avenue to East river; both sides of First and Second avenues, from Fortieth to Forty-fourth street.

No. 5. Both sides of Twentieth street, between Irving place and Fourth avenue.

No. 6. Both sides of Eighty-second street, between Eighth and Tenth avenues; east side of Ninth avenue, between Eighty-first and Eighty-second streets; east side of Tenth avenue, between Eighty-second and Eighty-third streets.

No. 7. Both sides of One Hundred and Fifty-ninth street, between Tenth and Eleventh avenues.

No. 8. East side of Tenth avenue, between One Hundred and Fourteenth and One Hundred and Sixteenth streets; north side of One Hundred and Fourteenth street, between Morningside avenue and Tenth avenue; both sides of One Hundred and Sixteenth street, between Morningside avenue and Tenth avenue, and east side of Tenth avenue extending 100 feet 11 inches north of One Hundred and Sixteenth street.

No. 9. Both sides of One Hundred and Seventy-fifth

street, between Tenth avenue and Kingsbridge road, and to the extent of half the block at intersecting avenues.

No. 10. Both sides of One Hundred and Thirty-sixth street, from Fifth to Eighth avenue, except between Sixth and Seventh avenues.

No. 11. To the extent of half the block at the intersections of Melrose, Courtland, College and Railroad avenues with One Hundred and Fifty-eighth street.

No. 12. Easterly side of Chatham street, between Frankfort street and north end of New York and Brooklyn Bridge.

No. 13. Both sides of One Hundred and Fourth street, between Eighth and Ninth avenues, and to the extent of half the block at the intersection of Eighth and New avenues.

No. 14. To the extent of half the block at the intersections of Lincoln avenue with the Southern Boulevard, One Hundred and Thirty-fourth, One Hundred and Thirty-fifth, One Hundred and Thirty-sixth, and One Hundred and Thirty-seventh streets.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 28th day of February ensuing.

JOHN R. LYDECKER,  
JOHN W. JACOBUS,  
JOHN MULLALLY,  
HENRY A. GUMBLETON,  
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,  
No. 11½ CITY HALL,  
NEW YORK, January 26, 1885.

## FINANCE DEPARTMENT.

CITY OF NEW YORK,  
FINANCE DEPARTMENT,  
COMPTROLLER'S OFFICE,  
February 24, 1885.

## NOTICE TO PROPERTY-OWNERS.

**IN PURSUANCE OF SECTION 916 OF THE** "New York City Consolidation Act of 1882," the Comptroller of the City of New York hereby gives public notice to all persons, owners of property affected by the following assessment lists, viz.:

Avenue A sewer, between Ninety-second street and Harlem river.

Third avenue sewer, between Eighty-eighth and Eighty-ninth streets.

Fifth avenue sewer, east side, between Thirteenth and Fourteenth streets.

Sixth avenue sewer, east side, between Fifty-third and Fifty-fourth streets.

Lexington avenue sewer, between Eighty-fifth and Eighty-sixth streets.

Washington avenue sewer and appurtenances, between One Hundred and Sixty-ninth and One Hundred and Seventieth streets.

Beekman street sewer, between Water and South street.

Front street sewer, between Broad and Whitehall streets.

Spring street sewer, between Broadway and Mercer street.

Tenth street, West, sewer, between Greenwich and Sixth avenues.

Fifty-sixth street sewer, alteration and improvement to, between Fifth and Sixth avenues.

Seventieth street sewer, between Eighth and Ninth avenues, from end of present sewer, west of Ninth avenue.

Seventy-third street sewer, between First and Third avenues.

Ninetieth street sewers, north and south sides, between Eighth and Ninth avenues.

Ninety-second street sewer, between Avenue A and First avenue.

One Hundred and Twenty-eighth street sewer, between Eighth and St. Nicholas avenues.

One Hundred and Thirty-fourth street sewer, between Eighth and St. Nicholas avenues.

One Hundred and Thirty-fifth street sewer, between Eighth and St. Nicholas avenues.

One Hundred and Thirty-seventh street, East, sewer and appurtenances, from Third avenue to summit east of Willis avenue, with branches in Lincoln, Alexander and Willis avenues.

One Hundred and Forty-sixth street sewer and appurtenances, between Brook and St. Ann's avenues, with a branch in St. Ann's avenue, between One Hundred and Forty-sixth and One Hundred and Forty-seventh streets.

Basins on northeast and southeast corners of Fourteenth street and Avenue A, and on southeast corner of Goerck and Stanton streets.

Basin and sewer connection at the northeast corner of Alexander avenue and One Hundred and Thirty-sixth street.

Basins on the west side of Eighth avenue, between Seventy-seventh and Eighty-first streets.

Sixty-first street paving, from easterly curb of Avenue A, ninety-six feet easterly, with trap-blocks and setting curb thereon.

Eighty-ninth street paving, between Avenues A and B, with granite-block pavement.

One Hundred and Eleventh street paving, between First and Second avenues, with trap-block pavement.

Lexington avenue regulating and grading, from Ninety-sixth to Ninety-seventh street, which was confirmed by operation of law on February 6, 1882, under section 1 of chapter 308 of the Laws of 1881.

Eighty-first street regulating, grading, setting curb and flagging, from Boulevard to Riverside Drive.

One Hundred and Fifty-third street regulating, grading, setting curb and flagging, from Tenth avenue to Boulevard.

First avenue flagging sidewalks, between Fifty-sixth and Sixty-fifth streets.

Second avenue flagging sidewalks, east side, between Ninety-fifth and Ninety-sixth streets, and west side, between Ninety-fifth and Ninety-seventh streets.

Fifth avenue flagging, east side, from Sixty-sixth to Sixty-seventh street and north side of Sixty-sixth street, from Madison to Fifth avenue.

Fifth avenue flagging, east side, from Sixty-seventh to Sixty-eighth street, and south side of Sixty-eighth street, from Madison to Fifth avenue.

Eleventh avenue flagging parts of sidewalks, on both sides, between Fifty-eighth and Fifty-ninth streets, and on north side of Fifty-eighth street, between Tenth and Eleventh avenues.

Sixty-eighth street flagging, between First and Second avenues.

One Hundred and Eighteenth street flagging, between First and Second avenues.

One Hundred and Nineteenth street flagging, between Seventh and Eighth avenues.

One Hundred and Fifty-first street flagging, curb and gutter and laying crosswalks on south side, from Courtland to Morris avenue.

—which were confirmed by the Board of Revision and Correction of Assessments, February 12, 1885, and entered on the same date 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 assessments, interest will be collected thereon as provided in section 917 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," between the hours of 9 A. M. and 2 P. M., and all payments made thereon, on or before April 28, 1885, will be exempt from interest as above provided, and after that date will be subject to a charge of interest at the rate of seven per cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

EDWARD V. LOEW,  
Comptroller.

## PROPOSALS FOR \$1,500,000 ADDITIONAL WATER STOCK OF THE CITY OF NEW YORK.

## EXEMPT FROM CITY TAXATION.

**SEALED PROPOSALS WILL BE RECEIVED AT** the office of the Comptroller of the City of New York until Thursday, the 26th day of February, 1885, at 2 o'clock P. M., when they will be publicly opened by the Comptroller in the presence of the Commissioners of the Sinking Fund, or such of them as shall attend, for the whole or any part of an issue of One Million Five Hundred Thousand Dollars, Registered Stock, denominated

## ADDITIONAL WATER STOCK OF THE CITY OF NEW YORK.

New York, the principal payable on the first day of October, 1904, and the interest thereon, at the rate of three and one-half per centum per annum, payable semi-annually, on the first day of April and October, in each year.

The said stock is authorized by chapter 490 of the Laws of 1883, an act entitled

"An act to provide new reservoirs, dams and a new aqueduct, with the appurtenances thereto, for the purpose of supplying the City of New York with an increased supply of pure and wholesome water."

Pursuant to section 34 of said act, and as authorized by an Ordinance of the Common Council, approved by the Mayor, October 2, 1880, and as provided by section 137 of the New York City Consolidation Act of 1882, the said stock will be

## FREE FROM CITY AND COUNTY TAXATION,

under a resolution passed by the Commissioners of the Sinking Fund, September 3, 1883.

For the redemption of said stock a sinking fund has been created by the Commissioners of the Sinking Fund, under a resolution adopted February 6, 1885, by raising annually a sum sufficient with the accumulation of interest thereon, to meet and discharge the amount of the principal at maturity, as provided by the Amendment of the State Constitution adopted at the general election held November 4, 1884.

Proposals will be received for any amount of said stock in sums of One Thousand Dollars, or multiples thereof.

## CONDITIONS.

Section 146, New York City Consolidation Act of 1882, provides that "The Comptroller, with the approval of the Commissioners of the Sinking Fund, shall determine what, if any, part of said proposals shall be accepted, and upon the payment into the City Treasury of the amounts due by the persons whose bids are accepted, respectively, certificates therefor shall be issued to them as authorized by law"; and also "that no proposals for bonds or stocks shall be accepted for less than the par value of the same."

Those persons whose bids are accepted will be required to deposit with the City Chamberlain the amount of stock awarded to them at its par value, together with the premium thereon, within three days after notice of such acceptance.

The proposals should be inclosed in a sealed envelope, indorsed "Proposals for Additional Water Stock of the City of New York," and each proposal should also be inclosed in a second envelope, addressed to the Comptroller of the City of New York.

EDWARD V. LOEW,  
Comptroller.

CITY OF NEW YORK—FINANCE DEPARTMENT,  
COMPTROLLER'S OFFICE, February 12, 1885.

## NOTICE OF POSTPONEMENT OF SALE OF LANDS AND TENEMENTS FOR UNPAID TAXES AND CROTON WATER RENTS IN THE CITY OF NEW YORK.

**PURSUANT TO SECTION 928 OF THE NEW** York City Consolidation Act of 1882, the Comptroller of the City of New York hereby gives public notice that the sale at public auction of lands and tenements in said city for unpaid taxes levied in the year 1880, and Croton Water Rents paid for the year 1879, and now remaining due and unpaid, which sale is advertised to be held at the County Court-house, in the City Hall Park, in the City of New York, on Monday, December 22, 1884, at 12 o'clock noon, has been and is hereby postponed by him until Monday, May 11, 1885, to be held on that day at the same hour and place.

A pamphlet containing a detailed statement of the property advertised for sale may be obtained at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents.

EDWARD V. LOEW,  
Comptroller.

CITY OF NEW YORK—FINANCE DEPARTMENT,  
COMPTROLLER'S OFFICE, Dec. 20, 1884.