

# THE CITY RECORD.

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### DEPARTMENT OF PUBLIC WORKS.

Report for the Quarter and Year ending December 31, 1893.

DEPARTMENT OF PUBLIC WORKS,  
COMMISSIONER'S OFFICE, NO. 31 CHAMBERS STREET,  
NEW YORK, January 13, 1894.

Hon. THOMAS F. GILROY, Mayor :

DEAR SIR—In compliance 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, 1893, with a brief review of the operations of the Department for the past year :

#### SUMMARY OF EXPENDITURES FOR THE QUARTER. (Being amount of requisitions drawn on the Comptroller.)

On account of appropriations raised by taxation.....	\$841,236 31
On account of Local Improvement Fund.....	471,166 88
On account of Funded Debt for Improvement and Extension of Water Supply.....	63,630 55
On account of Repavement Fund (chapters 346 of the Laws of 1889 and 35 of the Laws of 1892).....	517,587 92
On account of Criminal Court-house Fund.....	262,065 70
On account of Fund for One Hundred and Fifty-fifth Street Viaduct.....	152,198 68
On account of Special Fund for Restoring Pavements over Street Openings.....	39,822 49
On account of Revenue Bonds for Furnishing and Setting Water Meters.....	5,156 52
On account of Fund for New Harlem River Bridge at Third Avenue.....	11,895 47
On account of Fund for Bridge over Harlem Ship Canal at Kingsbridge Road.....	32,204 12
On account of Additional Croton Water Fund, authorized by chapter 189 of the Laws of 1893.....	31,109 80
On account of Fund for Additional High Service Works (chapter 38, Laws of 1892).....	16,337 55
Total.....	\$2,444,411 99

#### SUMMARY STATEMENT OF CONTRACTS. Contracts Entered into During the Quarter.

21 sewer and receiving-basin contracts, estimated cost.....	\$106,948 25
22 regulating and grading contracts, estimated cost.....	30,897 91
14 paving and repaving contracts, estimated cost.....	113,719 20
3 fencing contracts, estimated cost.....	492 60
7 miscellaneous contracts, estimated cost.....	1,310,656 23
67 contracts; total estimated cost.....	\$1,562,714 19

The construction of a bridge over the Harlem river at Third avenue, at an estimated cost of \$1,110,919.70, is included in the miscellaneous contracts in the above summary.

#### Contracts Completed during the Quarter.

28 sewer contracts, cost.....	\$153,616 07
32 regulating and grading contracts, cost.....	65,418 60
49 paving and repaving contracts, cost.....	1,035,707 19
1 contract for laying water-mains, cost.....	5,151 73
2 fencing contracts, cost.....	369 64
2 miscellaneous contracts, cost.....	681,233 08
114 contracts; total cost.....	\$1,941,496 31

One of the miscellaneous contracts was for the improvement of One Hundred and Fifty-fifth street, from St. Nicholas place to Macomb's Dam Bridge, costing \$672,326.58.

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

The Croton river has furnished a full supply of water to the Old and New Aqueducts since October 26.

The quantities of water drawn from storage reservoirs were :

	Gallons.
Boyd's Corners Reservoir.....	280,000,000
Middle Branch Reservoir.....	280,000,000
East Branch Reservoir.....	1,300,000,000
Bog Brook Reservoir.....	520,000,000
Total.....	2,380,000,000

The rainfall was as follows :

LOCATIONS.	OCTOBER. INCHES.	NOVEMBER. INCHES.	DECEMBER. INCHES.	TOTAL. INCHES.
Boyd's Corners Reservoir.....	6.42	3.32	5.34	15.08
Middle Branch Reservoir.....	5.32	3.23	5.11	13.66
Kensico Reservoir.....	5.85	3.44	3.89	13.18
Croton Dam.....	4.34	2.99	4.56	11.89
Central Park Reservoir.....	4.77	3.35	3.80	11.92

The necessary lands have been acquired for Reservoir "A" on the Muscoot river, and the construction of the reservoir has been diligently prosecuted.

A daily water supply of 10,000,000 gallons has been received through the Bronx river conduit, and for this supply 320,000,000 gallons of water were drawn from the Kensico and Rye Ponds Reservoirs.

The work of constructing a tunnel to carry the waters of the Byram river to the Kensico Reservoir has been steadily prosecuted, and an opening has been made the full length of the tunnel.

The New Aqueduct has continuously supplied water to the City, and has required no repairs.

The East Branch and Bog Brook Reservoirs have been completed, and will be turned over to this Department during the present month.

Maps have been filed of lands to be acquired for the sanitary protection of the Croton and Bronx river water-sheds, and Commissioners have been appointed to appraise the lands around Kensico Reservoir, along the outlet of Rye Ponds, in the Villages of Mount Kisco, New Castle and Kirby's, along the East Branch of the Croton river and Tonetta Brook, from East Branch Reservoir to bridge below Brewsters and around Lake Gleneida. Measures are being taken for the acquisition of lands for the same purpose at other points.

Sewers and disinfecting plant are in use at Brewsters, and several small forces of men are employed clearing away rubbish and refuse where buildings have been sold and are in course of removal.

A force of Deputy Sheriffs is employed to enforce the rules of the Board of Health as to cleanliness around barns and out-buildings that are a nuisance. These structures will also be demolished as early as practicable.

In extending the water service into new streets, 19,120 lineal feet of water-mains were laid, 104 new hydrants placed, and 61 stop-cocks set.

The abutment of the bridge across the Harlem river having been completed in June, the One Hundred and Fifty-fifth Street Viaduct has been extended thereto, and was opened to public travel October 10, 1893.

The work of constructing the bridge across the United States Ship Canal at Kingsbridge road was delayed until October by the filling of the Canal with water; by a difference between the United States Government and their contractors, and by the City having to obtain authority from the Secretary of War to carry on its work, and to build a temporary bridge across the Canal. The temporary bridge was completed in October, and the contractors for the new Draw Bridge have since carried on their work expeditiously. Owing to the flooding of the canal bed, an increased quantity of caisson and coffer dam work is required, which will necessitate application to the Legislature for increased expenditure under chapter 232 of the Laws of 1892.

A contract was entered into October 16, 1893, for the construction of a bridge over the Harlem river at Third avenue, and the work of constructing a temporary bridge has been commenced. Leases of property to be used in connection with the temporary bridge have been made. A Commission has not yet been appointed to appraise the land to be acquired for the approaches to the bridge.

On November 16 and December 7, 1893, contracts were made for the removal of the old gate-house at Tenth avenue and One Hundred and Nineteenth street, and for the building of a new gate-house. Excavations are in progress for this work, and the necessary pipes are being manufactured.

The contractor for the foundations of an engine and boiler-house for the New High Service Works has made fair progress, and will complete the rock excavation during the winter months. On December 7 a contract was entered into for the pumping engines, pumps and boilers for this service.

The old high service pumping machinery is now used to its full capacity, and on Mondays it is unequal to the demands upon it. The large extent of territory supplied from this service, and the number of new buildings lately erected and constantly increasing, have overtaxed this service. Until the new High Service Works are completed, the pressure in the mains will gradually decrease in the high service district.

During the quarter 553 additional taps were put in and 600 new meters were placed.

#### BUREAU OF WATER PURVEYOR.

35 contracts for paving and repaving streets were completed during the quarter, 20 being for granite-block pavements, 14 for asphalt pavements and 1 for macadam pavement. Of the contracts for granite-block pavements, 10 were for assessment work on streets in the upper part of the City.

The areas of the different pavements laid during the quarter are : Granite, 179,948 square yards; asphalt, 82,544 square yards; macadam, 10,950 square yards.

The force employed in making repairs to street pavements during the quarter averaged 288 mechanics, 306 laborers, 90 horses and carts and 4 teams.

The work performed by this force consisted mainly of taking up and relaying 144,666 square yards of stone-block pavement.

In repairing and renewing pipes, stop-cocks, etc., an average force of 37 mechanics, 96 laborers and 17 horses and carts was employed.

The openings made in the public streets comprised 4,862 to repair gas, steam and sewer pipes and electric conduits and subways, also for connections therewith. In connection with this work, 506 notices were sent to corporations and individuals to repair defects in pavements relaid over such excavations.

8 miles of gas-mains and 17 miles of subways were laid.

#### OFFICE OF ENGINEER IN CHARGE OF SEWERS.

25 contracts for sewers and 4 contracts for receiving-basins were completed during the quarter. The work done includes the construction of 17,748 lineal feet of sewers and 11 receiving-basins connected therewith.

The following are the principal items of work done in the maintenance and repairs of the sewerage system :

1,705 receiving-basins and culverts cleaned.

31,924 lineal feet of sewers cleaned.

68,263 lineal feet of sewers examined.

98 lineal feet of brick sewer rebuilt.

15 lineal feet of culvert rebuilt.

129 lineal feet of pipe culvert laid.

45 lineal feet of new pipe sewer laid.

4 new manholes built.

37 basins repaired.

6 manholes repaired.

126 manhole-heads reset.

21 basin-heads reset.

923 cubic feet of brick work built.

264 square feet of flagging relaid.

- 391 square yards of pavement relaid.
- 4,121 cubic feet of earth excavated and refilled.
- 3,439 cart loads of dirt removed.

BUREAU OF STREET IMPROVEMENTS.

During the quarter 4 contracts for regulating and grading streets, 33 contracts for flagging, curbing, etc., and two contracts for fencing vacant lots were completed.

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

- 9,976 cubic yards earth excavated.
- 19,425 cubic yards rock excavated.
- 53,746 cubic yards filling furnished.
- 13,534 lineal feet curb-stones set.
- 7,032 lineal feet curb-stones reset.
- 147,007 square feet flagging laid.
- 36,687 lineal feet flagging relaid.
- 901 lineal feet fencing built.
- 10,800 cubic yards retaining walls built.
- 113 lineal feet culvert built.

BUREAU OF STREETS AND ROADS.

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

- 8,159 square yards roadways repaired and resurfaced.
- 311 square yards of gutters repaired.
- 18,662 square yards roadways regulated and graded.
- 352 square feet bridge-stones relaid.
- 1,588 square feet flagging relaid.
- 942 loads stone hauled and used.
- 192 loads of gravel spread.
- 104 loads of stone broken.
- 200 trees trimmed.
- 86 miles of roadways cleaned.

BUREAU OF LAMPS AND GAS.

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

	GAS LAMPS.	ELECTRIC LAMPS.	NAPHTHA LAMPS.
In use September 30.....	24,052	2,390	152
New lamps placed.....	630	52	...
Old lamps relighted.....	75	....	...
Lamps discontinued.....	157	1	...
In use December 31.....	24,600	2,441	152

BUREAU OF REPAIRS AND SUPPLIES.

The New Criminal Court Building is practically completed, and little remains to be done to fit it for occupancy. The furnishing of the courts and offices in the building will be proceeded with as rapidly as practicable.

Repairs have been made to Washington, Fulton, Centre, Clinton, Jefferson, Tompkins and Union Markets.

The Seventh, Ninth, Twenty-second and Sixty-ninth Regiment Armories have been repaired where necessary.

The free floating baths have been stored in winter quarters at Gowanus Bay, where they will be repaired and made ready for service next summer.

BUREAU OF INCUMBRANCES.

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

- 728 complaints of obstructions received and attended to.
- 229 seizures and removals of obstructions made.
- 129 permits issued to place building material on public streets.
- 132 miscellaneous permits issued.

BUREAU OF WATER REGISTER.

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

For water rents.....	\$520,620 40
For penalties on water rents.....	6,610 60
For permits to tap water-mains.....	2,414 00
Total.....	\$529,645 00

MISCELLANEOUS REVENUE.

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

For sewer permits.....	\$3,804 69
For vault permits.....	20,742 14
For redemption of street obstructions.....	309 25
For work and materials furnished citizens.....	5,939 11
For articles sold at auction.....	3,403 85
For use of road rollers.....	42 00
For restoring pavements over street openings.....	36,049 50
For furnishing and setting water-meters.....	4,902 14
Total.....	\$75,192 68

REVIEW OF THE OPERATIONS OF THE DEPARTMENT FOR THE YEAR 1893.

SUMMARY OF EXPENDITURES.

On account of Appropriations raised by Taxation.....	\$3,067,531 52
On account of Local Improvement Fund.....	1,287,245 55
On account of Funded Debt for improvement and extension of water supply.....	250,404 04
On account of additional Croton Water Fund.....	89,249 51
On account of Fund for additional High Service Works.....	33,763 46
On account of Repavement Fund (chapter 346 of the Laws of 1889).....	98,887 29
On account of Repavement Fund (chapter 35 of the Laws of 1892).....	1,261,830 76
On account of Criminal Court House Fund.....	427,023 97
On account of Fund for One Hundred and Fifty-fifth Street Viaduct.....	219,475 06
On account of Special Fund for restoring pavements over street openings.....	88,269 71
On account of Revenue Bonds for furnishing and setting water-meters.....	18,320 51

On account of Fund for New Harlem River Bridge at Third avenue.....	\$27,008 94
On account of Fund for Bridge over Ship Canal at Kingsbridge road.....	43,104 82
On account of Fund for Public Building, Twelfth Ward.....	52,885 66

Total..... \$6,965,000 84

For expenditures under the Local Improvement Fund the City is reimbursed by the collection of assessments on adjacent and benefited property. The money expended for restoring pavements over plumbers' excavations is collected in advance on permits issued to make and repair sewer connections and water connections. For the expense incurred in furnishing and setting water meters the City is reimbursed by collecting from the owners of the property in which meters are placed. If the owners fail to pay the charges, these become liens on the property.

SUMMARY STATEMENT OF CONTRACTS FOR THE YEAR 1893.

Contracts Entered Into.

85 sewer contracts.....	\$364,313 88
98 regulating and grading contracts.....	221,704 05
110 paving and repaving contracts.....	2,219,477 94
40 fencing contracts.....	6,697 74
37 miscellaneous contracts.....	1,626,649 55
4 contracts for water-mains.....	171,478 50
1 contract for bridge over the Harlem river ship canal.....	331,181 55
375 contracts; total estimated cost.....	\$4,941,503 21

Contracts Completed.

87 sewer contracts.....	\$442,403 00
97 regulating and grading contracts.....	170,642 18
135 paving and repaving contracts.....	2,044,735 68
6 contracts for laying water-mains.....	64,828 13
27 fencing contracts.....	2,710 69
31 miscellaneous contracts.....	789,827 79
1 contract for court building, Twelfth Ward.....	178,373 00
384 contracts; total cost.....	\$3,693,520 47

WATER SUPPLY.

At present the City is receiving a daily water supply of 179,000,000 gallons, 109,000,000 gallons through the New Aqueduct, 60,000,000 gallons through the Old Aqueduct, and 10,000,000 gallons through the Bronx river conduit.

The average daily supply received during the past year was 174,000,000 gallons, while that for 1892 was 163,000,000 gallons, showing an increased daily supply of 11,000,000 gallons in 1893, with correspondingly increased pressure in the water-mains below Fourteenth street, and in the Twenty-third and Twenty-fourth Wards.

RAIN-FALL.

A rain-gauge was established at Boyd's Corners Reservoir in 1866, since which time a quarterly and annual record of rain-fall have been kept and published in the reports of this Department. This record shows that in 1891 the rain-fall was 48.19 inches, in 1892 45.37 inches and in 1893 57.83 inches. The highest rain-fall in any one year since 1866 was in 1888, when 63.51 inches were recorded, the lowest record since 1866 being 38.52 inches in 1880.

REMOVAL OF NUISANCES.

The work of acquiring land and removing nuisances at the sources of the City's water supply has been vigorously prosecuted, and an expenditure of \$88,308.87 has been incurred for services of engineer corps, laborers, deputy sheriffs, mechanics, sewerage and disinfecting plant, legal fees, advertising, scavenging, etc.

The importance of this work cannot be overestimated, as an abundant supply of pure water is essential to the good health and prosperity of the population. When the Croton water supply was introduced over fifty years ago laws were enacted for its sanitary protection. Unfortunately the methods provided for enforcing the laws rendered them practically ineffectual. When New York was threatened with invasion by cholera, the City authorities bestirred themselves to protect the water supply from defilement, and secured the passage of a law by the Legislature of 1893, giving the Department of Public Works power to enforce peremptory and summary measures for the removal and abatement of nuisances in the Croton and Bronx river water-sheds, by the acquirement of lands on the borders of streams, reservoirs and lakes tributary to the water supply, and by the demolition and removal of buildings from which impure matter found its way into the City's water.

Immediately after the passage of the law referred to (chapter 189 of the Laws of 1893), instructions were issued to the engineers and their assistants in the Croton water-shed to summarily remove the worst nuisances. This was done under the immediate direction and supervision of the Commissioner of Public Works and the Chief Engineer of the Croton Aqueduct.

Among the nuisances removed there were 356 privies, 129 barn yards, including cattle pens, pig-stys and manure heaps, five factories formerly draining into adjacent streams, and 1,000 other miscellaneous nuisances, all of which defiled the water supply more or less.

In connection with the work of removing nuisances, the difficult problem of diverting from its former channel the sewage of villages contiguous to the sources of the water supply, presented itself for solution. In this respect the Village of Brewsters first claimed attention, and a plant was established there by which the sewage was diverted in a direction where it could do no harm.

An experiment has also been made of purifying the sewage by means of the Wolfe electrozone process. The operation and effect of this system is described in a report by Mr. Edward A. Martin, Chemist to the Board of Health, accompanying the report of the Chief Engineer of the Croton Aqueduct. From this report, it appears that the effect of the system is to neutralize or render inoffensive deleterious matter which, if not subjected to the Wolfe's electrozone process, would be detrimental to health. Scientific evidence of the merits of this process is of great importance, hence Mr. Martin's report will be read with interest. The substance of the report is that the Wolfe electrozone process effects the destruction of bacteria, deodorizes and clarifies water or liquid sewage to a much higher degree than any other chemical process, divesting liquid sewage of its contaminating quality.

THE CROTON AQUEDUCT.

Under the appropriation for "Aqueduct, Repairs, Maintenance and Strengthening," the usual work on the several divisions of the Old Aqueduct was continued during the year; the items of work done, including 6,652 cubic yards of earth excavated; 6,383 cubic yards of stone quarried; 2,318 cubic yards of dry masonry built; 1,272 cubic yards stone masonry built; 6,068 cubic yards of brick masonry built; 5,759 cubic yards of concrete masonry built; 50 lineal feet of coping set; 1,561 cubic yards of filling and grading; 10,845 square feet of flagging; 8,413 square feet of flagging relaid; 2,115 square feet sodded; 11,831 lineal feet fencing placed; 9,986 lineal feet fence repaired; 7,370 lineal feet fence painted; 8 fence gates built; 268 fence posts set.

DISTRIBUTION OF WATER.

During the year large additions have been made to the system for distributing the City's water supply. These additions were necessary in consequence of the increased supply of water received through the New Aqueduct, and comprised the following items: 69,674 lineal feet of water mains laid; 144 stop-cocks set; 266 hydrants placed; 2,355 taps set, and 3,245 additional water-meters



TITLES OF APPROPRIATIONS.	BALANCES OF 1892, ON OCTOBER 1, 1893.	REQUISITIONS AND TRANSFERS OF 1892, IN FOURTH QUARTER, 1893.	BALANCES OF 1892, ON DECEMBER 31, 1893.	APPROPRIATIONS, INCLUDING TRANSFERS OF 1893.	REQUISITIONS, FIRST NINE MONTHS, 1893.	REQUISITIONS, FOURTH QUARTER, 1893.	TOTAL REQUISITIONS, 1893.	BALANCES ON DECEMBER 31, 1893.
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	\$8 97	\$8 97	.....	\$27,850 00	\$20,565 88	\$7,036 86	\$27,602 74	\$247 26
Boring Examinations for Grading and Sewer Contracts.....	75	75	.....	3,500 00	2,513 50	871 00	3,384 50	115 50
Boulevards, Roads and Avenues, Maintenance of.....	04	04	.....	90,000 00	72,670 65	16,322 88	88,993 53	1,006 47
For Resurfacing Sixth or Lenox avenue.....	4,830 18	4,830 18	.....	.....	.....	.....	.....	.....
Boulevards, Roads and Avenues, Maintenance of—Salaries.....	04	04	.....	2,500 00	1,874 97	624 99	2,499 96	04
Bronx River Works—Maintenance and Repairs.....	811 95	811 95	.....	20,000 00	13,686 33	4,728 66	18,414 99	1,585 01
Bronx River Works—Maintenance and Repairs—Salaries.....	958 62	958 62	.....	2,400 00	1,800 00	600 00	2,400 00	.....
Contingencies—Department of Public Works.....	281 62	281 62	.....	4,000 00	2,750 38	1,047 07	3,797 45	202 55
Flagging Sidewalks and Fencing Vacant Lots, etc.....	238 95	238 95	.....	3,600 00	2,080 20	1,474 41	3,554 61	45 39
For New Fire Hydrants.....	1 25	1 25	.....	5,000 00	1,138 70	2,278 40	3,417 10	1,582 90
Free Floating Baths—Care and Maintenance.....	112 76	112 76	.....	18,000 00	11,943 23	3,171 58	15,114 81	2,885 19
Free Floating Baths—Salaries.....	903 00	903 00	.....	30,000 00	24,608 50	5,147 50	29,756 00	244 00
Lamps and Gas and Electric Lighting.....	3,321 44	3,321 44	.....	894,196 59	575,121 83	228,591 37	803,713 20	90,483 39
Lamps and Gas and Electric Lighting—Salaries.....	131 92	131 92	.....	6,500 00	4,874 85	1,527 73	6,402 58	97 42
Laying Croton Pipes.....	8,500 28	5,525 37	\$2,974 91	230,290 00	106,304 61	57,086 23	163,390 84	66,899 16
Laying Croton Pipes—Salaries.....	180 02	180 02	.....	19,710 00	14,226 39	4,934 73	19,161 12	548 88
Public Buildings—Construction and Repairs.....	2,952 08	2,552 08	400 00	72,500 00	48,353 95	15,445 58	63,799 53	8,700 47
Public Drinking-hydrants.....	20 59	20 59	.....	2,000 00	1,598 31	263 71	1,862 02	137 98
Public Drinking-hydrants—Salaries.....	.....	.....	.....	1,200 00	900 00	300 00	1,200 00	.....
Removing Obstructions in Streets and Avenues.....	85 55	85 55	.....	26,500 00	21,294 90	4,025 85	25,320 75	1,179 25
Removing Obstructions in Streets and Avenues—Salaries.....	75 00	75 00	.....	7,800 00	5,992 74	1,775 00	7,767 74	32 26
Repairing and Renewal of Pipes, Stop-cocks, etc.....	981 09	735 96	245 13	215,000 00	158,384 72	49,413 54	207,798 26	7,201 74
Repairs and Renewal of Pavements and Regrading.....	8,028 66	3,000 00	5,028 66	270,000 00	149,012 81	99,908 16	248,920 97	21,079 03
Repairs and Renewal of Pavements and Regrading—Salaries.....	1,399 02	1,399 02	.....	17,000 00	11,643 94	3,466 48	15,110 42	1,889 58
Repaving Streets and Avenues.....	76,220 16	7,000 00	69,220 16	240,000 00	75,489 68	64,634 15	140,123 83	99,876 17
Repaving Streets and Avenues—Salaries.....	220 50	220 50	.....	13,000 00	7,274 09	4,651 75	11,925 84	1,074 16
Roads, Streets and Avenues Unpaved—Maintenance, etc.....	28 89	28 89	.....	30,000 00	19,044 94	10,237 24	29,282 18	717 82
Salaries—Department of Public Works.....	162 59	162 59	.....	95,000 00	71,072 20	23,712 24	94,784 44	213 56
Salaries—Engineer, Clerks, Inspectors, etc.....	1,876 55	1,876 55	.....	58,000 00	41,612 92	14,707 88	56,320 80	1,679 20
Salaries—Engineer and Inspectors—Repaving, chapter 346, Laws of 1889.....	90 05	.....	90 05	.....	.....	.....	.....	.....
Sewers—Repairing and Cleaning.....	53 11	53 11	.....	100,000 00	71,765 05	24,925 89	96,690 94	3,309 06
Sewers—Repairing and Cleaning—Salaries.....	48 08	48 08	.....	10,000 00	7,185 94	2,445 98	9,631 92	368 08
Sewerage System—Salaries.....	46 66	46 66	.....	8,400 00	6,280 00	1,800 00	8,080 00	320 00
Street Improvements—For Surveying, Monumenting, etc.....	488 50	488 50	.....	6,500 00	2,788 97	2,819 39	5,608 36	891 64
Supplies for and Cleaning Public Offices, etc.....	910 74	726 99	183 75	149,000 00	92,342 20	36,657 39	128,999 59	20,000 41
Supplies for and Cleaning Public Offices, etc.—Salaries.....	798 34	798 34	.....	21,720 00	15,797 96	5,450 03	21,247 99	472 01
Supplying Water to Shipping and for Building Purposes, etc.—Salaries.....	922 50	922 50	.....	10,000 00	7,429 00	2,457 00	9,886 00	114 00
Surveys, Maps, etc., for Street Openings, etc.—Salaries.....	08	08	.....	7,600 00	5,699 97	1,899 99	7,599 96	04
Water Supply for the Twenty-fourth Ward.....	207 03	207 03	.....	6,850 00	4,386 31	1,802 64	6,188 95	661 05
Water Supply for the Twenty-fourth Ward—Salaries.....	.....	.....	.....	1,200 00	848 39	300 00	1,148 39	51 61
Wells and Pumps—Repairing and Cleaning.....	236 45	236 45	.....	250 00	.....	.....	.....	250 00
Total.....	\$116,713 79	\$38,571 13	\$78,142 66	\$3,006,716 59	\$1,833,451 12	\$764,519 55	\$2,598,970 67	\$409,745 92

NOTE.—Requisitions drawn Fourth Quarter, 1893, on Liabilities of 1890—For Repaving Streets and Avenues, \$28,720.55; On Liabilities of 1891, on Aqueduct—Repairs, Maintenance, etc., for Concreting and Facing with Masonry Old Central Park Reservoir, \$16,281; also, Repairing and Renewal of Pipes, Stop-cocks, etc., \$123.85; also, under Special Law—For Repaving, chapter 346, Laws of 1889, for 1889, \$5,195.31; for 1890, \$20,653.95; for 1891, \$12,294.09; also, under Special Law—For Repaving, chapter 35, Laws of 1892, for the year 1892, \$45,789.03; and for the year 1893, \$433,655.54.

TITLES OF TRUST ACCOUNTS.	BALANCES FROM 1892, RETURNS TO ARREARS AND RECEIPTS OF FIRST NINE MONTHS, 1893.	RECEIPTS, FOURTH QUARTER, 1893.	TOTAL BALANCES OF 1892 AND RECEIPTS FOR 1893.	REQUISITIONS, FIRST NINE MONTHS, 1893.	REQUISITIONS, FOURTH QUARTER, 1893.	TOTAL REQUISITIONS, 1893.	BALANCES, DECEMBER 1, 1893.
Croton Water Fund.....	.....	.....	.....	\$186,773 49	\$63,630 55	\$250,404 04	.....
Street Improvement Fund.....	.....	.....	.....	816,078 67	464,554 26	1,280,632 93	.....
Restoring and Repaving—Special Fund—Department of Public Works.....	\$74,368 20	\$36,049 50	\$110,417 70	48,024 56	39,822 49	87,847 05	\$22,570 65
Water-meter Fund, No. 2.....	28,257 14	4,902 14	33,159 28	13,164 19	5,136 52	18,300 71	14,838 57
Criminal Court-house Fund.....	.....	.....	.....	164,948 27	262,065 70	427,013 97	.....
Fund for Viaduct, from St. Nicholas Place to Macomb's Dam Bridge.....	.....	.....	.....	67,276 38	152,198 68	219,475 06	.....
Public Building, Twelfth Ward, Construction of.....	.....	.....	52,912 74	52,885 66	.....	52,885 66	27 08
Foundation of Pavement, One Hundred and Fifty-fifth Street Viaduct.....	.....	.....	.....	.....	.....	.....	.....
Bridge across Harlem river at Third avenue.....	.....	.....	1,266,911 50	15,113 47	11,895 47	27,008 94	1,239,902 56
Bridge across Harlem Ship Canal at Kingsbridge road.....	.....	.....	409,325 00	10,900 70	32,204 12	43,104 82	366,220 18
Water-main Stock.....	.....	.....	250,000 00	18,644 65	16,337 55	34,982 20	215,017 80
Additional Water Fund of the City of New York.....	.....	.....	150,000 00	56,924 97	31,110 40	88,035 37	61,964 63

Statement of General Bookkeeper, D. P. W., showing all Revenues of the City received through the Department during the First Nine Months of 1893; during the Fourth Quarter, 1893; and the Total for the Year.

SOURCE OF REVENUE.	FIRST NINE MONTHS, 1893.	FOURTH QUARTER, 1893.	TOTALS.
Water rents.....	\$3,055,843 68	\$520,620 40	\$3,576,464 08
Water penalties.....	7,283 20	6,620 60	13,893 80
Pipe tapping.....	7,524 50	2,414 00	9,938 50
Sewer permits.....	15,671 93	3,804 69	19,476 62
Vault permits.....	92,412 71	20,742 14	113,154 85
Redemption of street obstructions.....	2,474 00	309 25	2,783 25
Use of road-rollers.....	23 00	42 00	65 00

SOURCE OF REVENUE.	FIRST NINE MONTHS, 1893.	FOURTH QUARTER, 1893.	TOTALS.
Sales at auction.....	\$7,340 70	\$3,403 85	\$10,744 55
Work and materials furnished citizens.....	22,217 27	5,939 11	28,156 38
Totals.....	\$3,210,790 99	\$563,886 04	\$3,774,677 03
Return of Water rents, etc., in Arrears—			
Regular Croton water rents.....		\$120,916 60	
Water by meter measurement.....		151,847 41	\$272,764 01
Meters and meter setting.....			6,473 57
			\$279,237 58

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

Document "B."

A Detailed Statement of Expenditures for which Requisitions were drawn on the Comptroller by the Commissioner of Public Works during the Quarter ending December 31, 1893.

Aqueduct—Repairs, Maintenance and Strengthening, 1893—	
Blacksmithing	\$210 45
Brick	585 00
Building stone	1,200 00
Coal	8,066 82
Cement	646 25
Hardware	560 20
Horse-hire	448 50
Lumber	1,040 76
Oils	154 50
Paints	201 13
Pay-rolls	36,106 04
Repairing roof of tower, High Bridge	3,275 00
Repairing engines and pumps, Ninety-eighth street pumping station	482 38
Repairing roof of keeper's house, Kingsbridge	75 00
Repairing roof of Ninety-eighth street pumping station	785 00
Rubber goods	186 48
Sand	240 00
Sundry supplies, etc.	100 09
Taxes	1,143 87
Telephone cable	300 00
Traveling expenses	88 53
Wire rope	80 25
<b>Total</b>	<b>\$55,976 25</b>
Aqueduct—Repairs, Maintenance and Strengthening, 1891—	
Improvement of Old Reservoir, Central Park	\$16,281 00
Boring Examinations for Grading and Sewer Contracts, 1893—	
Pay-rolls	\$871 00
Boulevards, Roads and Avenues, Maintenance of, etc., 1893—	
Pay-rolls	\$15,277 80
Rent of lot, One Hundred and Nineteenth street and St. Nicholas avenue	1,000 00
Telephone service	45 08
<b>Total</b>	<b>\$16,322 88</b>
Bronx River Works—Maintenance and Repairs, 1893—	
Pay-rolls	\$4,438 50
	290 16
<b>Total</b>	<b>\$4,728 66</b>
Contingencies—Department of Public Works, 1893—	
Analysis of asphalt	\$16 50
Drawing materials	44 97
Horse-hire	270 00
Miscellaneous incidental expenses	233 95
Postage stamps	413 00
Professional services	50 00
Traveling expenses	18 65
<b>Total</b>	<b>\$1,047 07</b>
Flagging Sidewalks and Fencing Vacant Lots, etc., in Front of City Property, 1893—	
Building fence	\$141 40
Flagging sidewalks	1,277 01
Pay-rolls	56 00
<b>Total</b>	<b>\$1,474 41</b>
For New Fire Hydrants, 1893—	
Placing fire hydrants	\$2,278 40
Free Floating Baths—Care and Maintenance, 1893—	
Cartage of anchors	\$30 00
Coal and wood	40 50
Gasfitting	120 86
Ice	72 90
Pay-rolls	273 00
Repairing baths	352 98
Recovering anchors	150 00
Skiff	35 00
Sundry supplies	45 66
Traveling expenses	95 18
Towing baths	645 00
Wharfage	1,310 50
<b>Total</b>	<b>\$3,171 58</b>
Lamps and Gas and Electric Lighting, 1893—	
Boulevard globes	\$596 25
Cast-iron fenders	105 00
Cross-heads	196 00
Fire-alarm lamps	463 00
Gas examinations	352 00
Horse-hire	525 00
Lamp-irons	359 93
Lamp posts and bases	1,694 84
Lamp brackets	123 85
Lettering globes	90 00
Lighting offices	9,833 29
Lighting streets	208,473 62
Lights of glass	52 39
Pay-rolls	814 50
Rent of photometrical rooms	240 00
Repairing guages	162 33
Repairing street lamps	684 16
Ruby glass	225 00
Street lamps	1,962 60
Street signs	1,481 49
Sundry supplies	156 12
<b>Total</b>	<b>\$228,591 37</b>
Laying Croton Pipes, 1893—	
Broken stone	\$108 00
Cast-iron water pipes	7,454 27
Changing taps	291 90
Fire-pots	118 50
Hardware	90 57
Horse-hire	270 00
Hydrant boxes	370 00
Laying Croton pipes	40,495 04
Pay-rolls	3,901 31
Stop-cocks	3,666 42
Traveling expenses	320 22
<b>Total</b>	<b>\$57,086 23</b>
Laying Croton Pipes, 1892—	
Laying Croton pipes	\$5,525 37

Public Buildings—Construction and Repairs, 1893—

Armory, Seventh Regiment	\$546 45
" Eighth Regiment	1,173 61
" Ninth Regiment	33 29
" Twelfth Regiment	304 96
" Twenty-second Regiment	367 67
" Sixty-ninth Regiment	170 95
" Seventy-first Regiment	23 65
" First Battalion	55 00
" Troop "A"	93 00
Brown-stone Building	345 13
Bureau of Repairs and Supplies	881 28
City Hall	367 91
Court-house, Harlem	946 72
" County	1,815 00
" Third District	14 47
" Seventh District	134 89
Court, First District Civil	32 88
" Second District Civil	20 70
" Fifth District Civil	1 25
" Tenth District Civil	11 56
" First District Police	20 86
" Second District Police	49 37
" Third District Police	14 46
" Fourth District Police	97 15
Dog Pound	9 41
Hall of Records	83 68
Ludlow Street Jail	198 56
Market, Catharine	49 18
" Centre	113 58
" Clinton	372 02
" Essex	8 05
" Fulton	52 20
" Jefferson	547 51
" Union	145 56
" Washington	666 44
" West Washington	692 00
Pay-rolls	3,617 00
Stewart Buildings	140 56
Staats Zeitung Building	797 34
Tombs	6 89
No. 31 Chambers street	282 28
No. 27 Chambers street	21 61
No. 5 Duane street	8 95
No. 220 Fourth avenue	55 00
No. 427 East Eighty-seventh street	22 99
No. 3368 Third avenue	6 15
Rivington Street Yard	6 30
Fifty-sixth street and Twelfth avenue	20 11
<b>Total</b>	<b>\$15,445 58</b>
Public Drinking-hydrants, 1893—	
New hydrants	\$17 10
Repairing hydrants	246 61
<b>Total</b>	<b>\$263 71</b>
Removing Obstructions in Streets and Avenues, 1893—	
Horse-hire	\$270 00
Pay-rolls	1,456 00
Removing obstructions	1,415 20
" trees	742 00
Traveling expenses	142 65
<b>Total</b>	<b>\$4,025 85</b>
Repairing and Renewal of Pipes, Stop-cocks, etc., 1893—	
Building brick stop-cock vault	\$250 00
Cement	27 00
Charcoal, coke, etc.	50 00
Hardware	367 27
Horse-hire	270 00
Hydrant boxes	545 00
" fenders	347 23
Hydrant nozzles	437 00
Laying water-mains	892 20
Pay-rolls	44,198 15
Repairing fire-hydrants	793 90
" sewer pipes	14 50
" tapping machines	99 75
Stop-cock boxes and covers	546 08
Steel	71 13
Sundry supplies, etc.	63 20
Tapping cocks	112 50
Telephone service	257 45
Traveling expenses	54 30
White lead	16 88
Wood	90 00
<b>Total</b>	<b>\$49,413 54</b>
Repairing and Renewal of Pipes, Stop-cocks, etc., 1892—	
Laying water-mains	\$123 85
Repairs and Renewal of Pavements and Regrading, 1893—	
Breaking stone for concrete	\$100 00
Crushed blue stone	380 00
Gravel	812 00
Hardware	188 50
Horse-hire	955 00
Paving cement	1,589 87
Pay-rolls	89,046 34
Rent of lot, One Hundredth street, east of First avenue	62 50
Removing rubbish	350 00
Rosendale cement	300 00
Repairing pavement	815 22
Repairing steam-roller	22 00
Repairing tools	876 50
Repairing tar-kettle	21 75
Repairing tool-box	29 75
Sand	3,361 23
Sundry supplies	45 25
Traveling expenses	412 25
Wood	540 00
<b>Total</b>	<b>\$99,908 16</b>
Repaving (chapter 346, Laws of 1889), 1891—	
Park Row, from Frankfort street to Broadway	\$12,294 09
Repaving (chapter 346, Laws of 1889), 1890—	
Broadway and Union Square, West, from Bowling Green to Thirty-second street	\$11,971 32
Eighth avenue, from Thirteenth to Fifty-ninth street	8,682 63
<b>Total</b>	<b>\$20,653 95</b>

Repaving (chapter 346, Laws of 1889), 1889—	
Broad street, from Exchange place to Wall street	\$68 25
Lexington avenue, from Twenty-first to Sixty-ninth street	4,884 56
Twenty-fifth street, south side, west of Broadway	62 50
One Hundred and Thirty-second street, from Madison to Fifth avenue	180 00
<b>Total</b>	<b>\$5,195 31</b>
Repaving (chapter 35, Laws of 1892), 1893—	
Avenue B, from Houston to Fourteenth street	\$39,442 86
Broadway, from Thirty-fifth to Forty-second street	19,052 16
Bleecker street, from Crosby street to Eighth avenue	45,717 82
Boulevard, Western, from Ninety-second to One Hundred and Eighth street	43,944 21
Canal street, from Broadway to East Broadway	25,117 12
Eleventh street, from Sixth to Seventh avenue	19,891 23
Fourth avenue, from Thirty-second to Thirty-fourth street	14,770 00
Forty-second street, from Eighth to Twelfth avenue	15,112 28
Fifty-eighth street, from Sixth to Seventh avenue	24,346 70
One Hundred and Twenty-third street, from Seventh to Eighth avenue	7,281 52
One Hundred and Twenty-seventh street, from Park to Fifth avenue	8,014 58
Stanton street, from Clinton to Cannon street	21,769 76
Sixteenth street, from Livingston place to 150 feet east of Avenue A	514 34
Seventy-sixth street, from Lexington to Third avenue	7,653 21
Third avenue, from Ninety-sixth to One Hundred and Twenty-ninth street	70,455 35
Twenty-sixth street, from Madison to Thirteenth avenue	27,230 30
Twenty-seventh street, from Fifth to Sixth avenue	11,553 36
Thirty-fourth street, from Fourth to Eighth avenue	25,785 81
Horse-hire	270 00
Pay-rolls	12,172 95
Traveling expenses	166 60
<b>Total</b>	<b>\$440,268 16</b>
Repaving (chapter 35, Laws of 1892), 1892—	
Fourth avenue, from Bowery to Thirty-second street	\$45,789 03
Repaving Streets and Avenues, 1893—	
Third avenue, from Fifty-ninth to Ninety-sixth street	\$64,634 15
Repaving Streets and Avenues, 1891—	
Bowery, from Chatham square to Sixth street	\$25,809 08
Repaving Streets and Avenues, 1890—	
Park Row, from Frankfort street to and including Chatham Square	\$28,720 55
Roads, Streets and Avenues Unpaved, etc., 1893—	
Hardware	\$137 35
Horse-hire	270 00
Pay-roll	9,558 81
Repairing roof of shop	102 71
Repairing sprinkler	67 37
Sundry supplies	101 00
<b>Total</b>	<b>\$10,237 24</b>
Sewers, Repairing and Cleaning, 1893—	
Basin heads	\$301 00
Basin grate bars	144 00
Brick	175 00
Cement	202 50
Cleaning sewers	2,160 70
Horse-hire	270 00
Hoods	126 20
Manhole heads and covers	243 33
Pay-rolls	19,946 75
Repairing sewers	175 00
Rubber goods	493 50
Sand	97 50
Spruce plank	118 00
Sundry supplies	221 51
Tools	113 35
Traveling expenses	137 55
<b>Total</b>	<b>\$24,925 89</b>
Supplies for and Cleaning Public Offices, 1893—	
Armory, Eighth Regiment	\$20 00
" Ninth Regiment	14 54
" Twelfth Regiment	9 00
" Sixty-ninth Regiment	108 60
" Seventy-first Regiment	13 50
Bureau of Repairs and Supplies	10,015 29
Brown Stone Building	65 00
City Hall	120 73
Court-house, County	37 25
" Harlem	9 00
" Third District	18 00
Court, Second District Civil	9 00
" Fourth	4 50
" Fifth	9 00
" Tenth	72 17
" Third District Police	92 00
" City	8 50
" General Sessions	132 00
" Superior	205 96
" Surrogate	61 35
Department, Building	85 20
" Finance	342 20
" Public Works	81 00
" Taxes and Assessments	70 00
Hall of Records	9 00
Ludlow Street Jail	67 00
Office, Board of Police Justices	33 25
" City Chamberlain	60 20
" Coroner	9 00
" County Clerk	10 80
" Corporation Counsel	2,134 26
" Corporation Attorney	9 00
" District Attorney	23 63
" Mayor	93 60
" Public Administrator	9 00
Pay-rolls	22,504 86
Tombs	90 00
<b>Total</b>	<b>\$36,657 39</b>
Water Supply for the Twenty-fourth Ward, 1893—	
Supply of Water	\$1,802 64

RECAPITULATION OF APPROPRIATIONS.

Aqueduct—Repairs, Maintenance and Strengthening, 1893	\$55,976 25
Aqueduct—Repairs, Maintenance and Strengthening, 1891	16,281 00
Aqueduct—Repairs, Maintenance and Strengthening—Salaries, 1893	7,036 86
Boring Examinations for Grading and Sewer Contracts, 1893	871 00
Boulevards, Roads and Avenues—Maintenance of, 1893	16,322 88
Boulevards, Roads and Avenues—Maintenance of—Salaries, 1893	624 99
Bronx River Works—Maintenance and Repairs, 1893	4,728 66
Bronx River Works—Maintenance and Repairs—Salaries, 1893	600 00
Contingencies—Department of Public Works, 1893	1,047 07

Flagging Sidewalks and Fencing Vacant Lots, 1893	\$1,474 41
For New Fire Hydrants, 1893	2,278 40
Free Floating Baths—Care and Maintenance, 1893	3,171 58
Free Floating Baths—Care and Maintenance—Salaries, 1893	5,147 50
Lamps, Gas and Electric Lighting, 1893	228,591 37
Lamps, Gas and Electric Lighting—Salaries, 1893	1,527 73
Laying Croton Pipes, 1893	57,686 23
Laying Croton Pipes, 1892	5,525 37
Laying Croton Pipes—Salaries, 1893	4,934 73
Public Buildings—Construction and Repairs, 1893	15,445 58
Public Drinking Hydrants, 1893	263 71
Public Drinking Hydrants—Salaries, 1893	300 00
Removing Obstructions in Streets and Avenues, 1893	4,025 85
Removing Obstructions in Streets and Avenues—Salaries, 1893	1,775 00
Repairing and Renewal of Pipes, Stop-cocks, 1893	49,413 54
Repairing and Renewal of Pipes, Stop-cocks, 1892	123 85
Repairs and Renewal of Pavements and Regrading, 1893	99,998 16
Repairs and Renewal of Pavements and Regrading—Salaries, 1893	3,466 48
Repaving (chapter 35, Laws of 1892), 1893	440,268 16
Repaving (chapter 35, Laws of 1892), 1892	45,789 03
Repaving (chapter 346, Laws of 1889), 1891	12,294 09
Repaving (chapter 346, Laws of 1889), 1890	20,653 95
Repaving (chapter 346, Laws of 1889), 1889	5,195 31
Repaving Streets and Avenues, 1893	64,634 15
Repaving Streets and Avenues, 1891	25,809 08
Repaving Streets and Avenues, 1890	28,720 55
Repaving Streets and Avenues—Salaries, 1893	4,651 75
Roads, Streets and Avenues Unpaved, 1893	10,237 24
Salaries—Department of Public Works, 1893	23,712 24
Salaries of Engineer, Clerks, Inspectors, etc., 1893	14,707 88
Sewers—Repairing and Cleaning, 1893	24,925 89
Sewers—Repairing and Cleaning—Salaries, 1893	2,445 98
Sewerage System—Salaries, 1893	1,800 00
Street Improvements—for Surveying, Monumenting, etc., 1893	2,819 39
Supplies for and Cleaning Public Offices, 1893	36,657 39
Supplies for and Cleaning Public Offices—Salaries, 1893	5,450 03
Supplying Water to Shipping and for Building Purposes—Salaries, 1893	2,457 00
Surveys, Maps, etc., for Street Openings—Salaries, 1893	1,899 99
Water Supply for the Twenty-fourth Ward, 1893	1,802 64
Water Supply for the Twenty-fourth Ward—Salaries, 1893	300 00
<b>Total</b>	<b>\$1,365,179 94</b>

TRUST ACCOUNTS.

Additional Water Fund of the City of New York—	
Barn (bought)	\$600 00
Building stone fence	1,530 75
Cleaning vaults	1,707 15
Coal	190 13
Drawing material	88 16
Flag-stone	55 40
Hardware	41 35
Horse-hire	409 00
Lime	15 56
Maintenance of disinfectant plant	3,085 21
Making surveys and maps	1,827 00
Pay-rolls	10,711 26
Professional services	7,622 95
Printing	40 00
Publishing notices	2,861 23
Traveling expenses	325 25
<b>Total</b>	<b>\$31,110 40</b>
Bridge across Harlem River at Third Avenue—	
Building bridge	\$4,549 05
Pay-rolls	1,844 98
Professional services	136 47
Rent of property, Third avenue and Harlem river	5,249 97
Sundry supplies	115 00
<b>Total</b>	<b>\$11,895 47</b>
Bridge across Harlem Ship Canal, at Kingsbridge Road—	
Building bridge	\$27,285 00
Building temporary bridge	2,212 75
Pay-rolls	1,468 55
Professional services	1,179 91
Travelling expenses	57 91
<b>Total</b>	<b>\$32,204 12</b>
Croton Water Fund—	
Clerical services	\$475 00
Drawing materials	151 02
Horse-hire	413 00
Land	19,962 70
Pay-rolls	17,442 28
Professional services	1,557 50
Printing	2,982 93
Reservoir near Amawalk	23,239 80
Reservoir and dam, Byram river	11,120 08
Repairing surveying instruments	65 75
Taxes	17 27
Traveling expenses	583 47
<b>Total</b>	<b>\$78,010 80</b>
Deduct requisitions Nos. 23754, 23857, 24064, cancelled	14,380 25
<b>Total</b>	<b>\$63,630 55</b>
Criminal Court-house Fund—	
Carpenter work	\$19,338 00
Heating plant	979 50
Iron work	64,257 45
Mason work	175,384 75
Pay-rolls	2,106 00
<b>Total</b>	<b>\$262,065 70</b>
Fund for Viaduct from St. Nicholas Place to Macomb's Dam Bridge—	
Bracing buildings	\$535 33
Pay-rolls	70 50
Professional services	3,925 37
Work on contract	147,667 48
<b>Total</b>	<b>\$152,198 68</b>
Restoring and Repaving—Special Fund—	
Broken stone	\$349 60
Cement	285 00
Gravel	140 00
Pay-rolls	28,363 25
Paving cement	630 74
Repairing pavement	2,175 40
Repairing pavement	7,878 50
<b>Total</b>	<b>\$39,822 49</b>

<b>Street Improvement Fund—</b>	
Curbing and flagging	\$28,200 07
Fencing	1,010 82
Horse-hire	270 00
Pay-rolls	23,036 73
Paving and crosswalks	229,509 05
Regulating, grading, etc	72,498 67
Sewers	104,120 61
Surveying	5,561 76
Traveling expenses	285 95
<b>Total</b>	<b>\$464,554 26</b>
<b>Water-main Fund—</b>	
Building foundation for high service works	\$14,129 55
Pay-rolls	2,058 00
Water pipe	150 00
<b>Total</b>	<b>\$16,337 55</b>
<b>Water Meter Fund, No. 2—</b>	
Placing Meters	\$2,366 52
Water Meters	2,790 00
<b>Total</b>	<b>\$5,156 52</b>

RECAPITULATION OF FUNDS.

Additional Water Fund of the City of New York	\$31,110 40
Bridge over Harlem River at Third Avenue	11,895 47
Bridge over Harlem Ship Canal at Kingsbridge Road	32,204 12
Croton Water Fund	63,630 55
Criminal Court-house Fund	262,065 70
Fund for Viaduct from St. Nicholas Place, etc	152,198 68
Restoring and Repaving—Special Fund	39,822 49
Street Improvement Fund	464,554 26
Water-main Fund	16,337 55
Water Meter Fund, No. 2	5,156 52
<b>Total</b>	<b>\$1,078,975 74</b>

Document "C."

STATEMENT OF CONTRACTS.

Contracts Entered Into during the Quarter ending December 31, 1893.

NATURE AND LOCATION OF WORK.	CONTRACTOR.	ESTIMATED COST.
<i>Sewer and Receiving-basin Contracts.</i>		
Sewer in One Hundred and Eighty-third street, between Amsterdam and Eleventh avenues	E. S. Van Aiken	\$10,304 50
Sewer in Eighty-fifth street, between Boulevard and Amsterdam avenue	John Slattery	2,892 00
Sewer in Twelfth and Thirteenth avenues, between Twenty-seventh and Thirtieth streets, and in Twenty-seventh, Twenty-eighth and Twenty-ninth streets	Steward & McDermott	43,869 60
Sewer in Sixty-second street, between Avenue A and First avenue	John Slattery	6,709 50
Sewer in Ninety-third street, between Harlem river and First avenue	Lawrence Martin	5,695 00
Sewer extension under Pier at Forty-sixth street, East river	Edward S. Walsh	650 00
Sewer in Seventy-seventh street, between East river and Avenue A	William F. Cunningham	11,680 00
Sewer in Eleventh avenue, east side, between One Hundred and Seventieth and One Hundred and Seventy-second streets	Thomas Murray	6,566 20
Sewer in Eleventh avenue, east side, between One Hundred and Seventy-second and One Hundred and Seventy-fifth streets	"	6,100 00
Sewer in One Hundred and Forty-first street, between Harlem river and Lenox avenue	Daniel A. Fitzpatrick	2,740 05
Sewer in One Hundredth street, between Park and Third avenues	Lawrence Martin	4,918 75
Sewer in Amsterdam avenue, west side, between Eighty-ninth and Ninety-second streets	Thomas J. Gillis	1,996 20
Receiving-basins, northeast and northwest corners of Seventy-sixth street and Columbus avenue	John Kenny	574 00
Receiving-basin, southwest corner of One Hundred and Twenty-third street and Lexington avenue	Joseph A. Devlin	338 75
Receiving-basin, southeast corner of Washington and Fourteenth streets	William F. Cunningham	236 00
Receiving-basin, southeast corner of One Hundred and Fifty-eighth street and Boulevard	Thomas Murray	252 00
Receiving-basin, northeast corner of One Hundred and Thirty-sixth street and Seventh avenue	Thomas F. Murray	206 50
Receiving basin, northeast and southeast corners of One Hundred and Twenty-sixth street and Seventh avenue (alteration and improvement)	Joseph A. Devlin	436 00
Receiving-basin, southeast corner of One Hundred and Thirty-fourth street, and northeast corner of One Hundred and Thirty-third street, and Lenox avenue	Thomas F. Murray	418 70
Receiving-basin, southeast corner of One Hundred and Fifteenth street and Lenox avenue	"	208 30
Receiving-basin, southeast corner of One Hundred and Twentieth street and Seventh avenue (alteration and improvement)	"	216 20
		<b>\$106,948 25</b>
<i>Regulating, Grading, Curbing and Flagging Contracts.</i>		
Regulating, grading, etc., One Hundred and Twenty-third street, from Tenth avenue to Boulevard	James A. Gearty	\$4,677 20
Flagging, etc., block bounded by Fourteenth and Fifteenth streets, Tenth and Eleventh avenues	Thomas J. Gillis	5,444 50
Flagging, etc., Sixty-ninth street, from Central Park, West, to Columbus avenue	"	542 50
Flagging, etc., One Hundred and Seventeenth street, from Fifth to Lenox avenue	"	614 30
Flagging, etc., Manhattan avenue, east side, from One Hundred and Thirteenth to One Hundred and Fourteenth street	"	413 56
Flagging, etc., Amsterdam avenue, east side, from One Hundred and Forty-fifth to One Hundred and Forty-seventh street	"	487 50
Flagging, etc., Fifty-second street, from Eleventh to Twelfth avenue	"	1,058 00
Flagging, etc., Seventy-sixth street, from Boulevard to Riverside Drive	"	850 94
Flagging, etc., Fifty-third street, from Tenth to Eleventh avenue	Bartholomew Dunn	1,906 75
Flagging, etc., around the New Criminal Court-house	Thomas J. Dunn	11,255 00
Flagging, etc., Ninety-second street, from Columbus avenue to Boulevard	"	412 50
Flagging, etc., Eighty-seventh street, south side from Columbus avenue to Central Park, West	"	284 00
Flagging, etc., in front of Nos. 92 and 94 First street	"	92 86
Flagging, etc., southeast corner of Eighty-fourth street and Third avenue	"	271 05
Flagging, etc., southeast corner of Second avenue and Third street	"	387 00
Flagging, etc., in front of Nos. 4 and 6 East Seventy-second street	"	165 50
Flagging, etc., Park avenue, east side, from One Hundredth to One Hundred and First street	"	34 95
Flagging, etc., Park avenue, east side, from Ninety-second to Ninety-third street, and Ninety-third street, from Park to Lexington avenue	"	409 10
Flagging, etc., One Hundred and Twenty-fourth street, north side, from Fifth to Lenox avenue	"	506 50
Flagging, etc., Boulevard, west side, from One Hundred and Thirty-first to One Hundred and Thirty-second street	"	154 50
Flagging, etc., Amsterdam avenue, west side, from One Hundred and Thirty-eighth to One Hundred and Thirty-ninth street, and on east side, from One Hundred and Thirty-seventh to One Hundred and Thirty-eighth street	Thomas F. Murray	648 90
Flagging, etc., One Hundred and Forty-third street, north side, from Amsterdam to Convent avenue	"	280 80
		<b>\$30,897 91</b>

NATURE AND LOCATION OF WORK.	CONTRACTOR.	ESTIMATED COST.
<i>Paving, Repaving and Crosswalks Contracts.</i>		
Paving Eleventh street, between Sixth and Seventh avenues, Eighth street, between Avenues B and C, and New street, between Wall and Beaver streets	Sicilian Asphalt Paving Co	\$28,051 70
Paving Seventy-sixth street, between Lexington and Third avenues, and Sixty-third street, between Madison and Park avenues	"	11,151 10
Paving Greenwich street, from Fulton street to Battery place	James Quinn	38,962 00
Paving Greenwich street, from Fulton street to Battery place (land grant)	"	709 25
Paving Eleventh street, from West street to bulkhead-line of Hudson river	John G. Smith	3,654 00
Paving Eleventh street, from West street to bulk ad-line of Hudson river (land grant)	"	3,356 00
Paving One Hundred and Forty-eighth street, from Amsterdam avenue to Boulevard	James A. Gearty	5,834 01
Paving One Hundred and First street, from Madison avenue to Park	"	3,001 19
Paving One Hundred and Eighth street, from Ninth to Tenth avenue	"	5,642 85
Paving Seventy-fifth street, from West End avenue to Riverside Drive	Sicilian Asphalt Paving Co	5,149 73
Paving One Hundred and Fifteenth street, from Lenox to St. Nicholas avenue	"	7,364 70
Crosswalk across King-bridge road at south side of One Hundred and Sixty-fifth street	Joseph A. Devlin	180 31
Crosswalk across Western Boulevard at south side of One Hundred and Forty-seventh street	"	291 92
Crosswalk across St. Nicholas avenue at north and south sides of One Hundred and Twentieth street	"	370 44
		<b>\$113,719 20</b>
<i>Fencing Contracts.</i>		
Fencing southeast corner of Ninetieth street and First avenue	R. H. Casey	\$73 10
Fencing block bounded by Madison and Fifth avenues, Eighty-seventh and Eighty-eighth streets	"	220 50
Fencing southeast corner of Ninety-third street and Park avenue	"	199 00
		<b>\$492 60</b>
<i>Miscellaneous Contracts.</i>		
Construction of a bridge over Harlem river, on line of Third avenue, between One Hundred and Twenty-ninth and One Hundred and Thirty-fifth streets	John J. Hopper	\$1,110,919 70
Removal of old gate-house at Tenth avenue and One Hundred and Nineteenth street, and construction of new gate-house and connection	Peter J. Moran	42,442 00
Iron railings, snow guards and window guards for New Criminal Court-house	Jackson Architectural Iron Works	2,490 00
Balconies, stairs, railings, gates, columns, etc., for access from City Prison Yard to bridge connecting with New Criminal Court-house	Jackson Architectural Iron Works	2,494 00
Panel partitions, railings, etc., required for the sub-division of offices and rooms on fourth story of Criminal Court Building	P. K. Lantry	3,596 00
Gas and electric combination fixtures and electric wiring for Criminal Court Building	Mitchell-Vance Co	38,714 53
Building and erecting pumping engines, boilers and appurtenances for the high service works at the New Aqueduct, between Tenth avenue and Harlem river	George F. Blake Mfg. Co	110,000 00
		<b>\$1,310,656 23</b>

RECAPITULATION.

21 Sewer and Receiving-basin Contracts	\$106,948 25
22 Regulating, Grading, Curbing and Flagging Contracts	30,897 91
14 Paving, Repaving and Crosswalks Contracts	113,719 20
3 Fencing Contracts	492 60
7 Miscellaneous Contracts	1,310,656 23
<b>67 Contracts</b>	<b>\$1,562,714 19</b>

Contracts Completed.

NATURE OF WORK.	LOCATION OF WORK.	AMOUNT.
<i>Sewer and Receiving-basin Contracts.</i>		
Sewer	In Park avenue, west side, between Ninety-fifth and Ninety-ninth streets, etc.	\$13,059 88
"	In One Hundred and Twentieth street, between Avenue A and Boulevard	8,134 00
"	In Goerck street, between Rivington and Stanton streets, etc. (alteration and improvement)	3,760 00
"	In Ninety-eighth street, between Madison and Fifth avenues	1,441 00
"	In One Hundred and Third street, between Madison and Fifth avenues, etc.	1,608 50
"	In South street, between Fulton and Wall streets, etc.	18,262 25
"	In One Hundred and Fifth street, between Central Park, West, and Manhattan avenue	5,611 50
"	In One Hundred and Eighteenth street, between Fifth and Madison avenues	5,634 67
"	In Ninety-fourth street, between Boulevard and Amsterdam avenue	2,505 52
"	In Ninety-fifth street, between Madison and Fifth avenues	1,660 00
"	In Ninety-sixth street, between Madison and Park avenues	4,968 85
"	In Ninety-seventh street, between Madison and Fifth avenues	2,902 75
"	In Ninety-eighth street, between West End avenue and Boulevard	2,185 08
"	In One Hundred and Forty-sixth street, between Boulevard and Hudson river	5,057 95
"	In Nineteenth street, between Eleventh and Thirteenth avenues	1,493 00
"	In Ninety-seventh street, between Madison and Park avenues	1,357 33
"	In North William street, between Frankfort street and Park Row	3,227 00
"	In Seventy-eighth street, between East river and Avenue A	9,622 40
"	Outlet for District (Sewerage) No. 25	17,039 20
"	In Ninety-fourth street, between West End avenue and Boulevard	2,595 00
"	In Sixty-third street, between Park and Madison avenues	4,597 30
"	In Madison avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets, etc.	5,166 00
"	In Fifth avenue, between One Hundred and Thirty-seventh and One Hundred and Thirty-eighth streets, etc.	8,476 00
"	In Burling Slip, between South and Water streets, etc.	18,347 25
"	In One Hundred and First street, between Madison and Fifth avenues	3,949 83
Receiving-basin	Southwest corner of One Hundred and Twenty-third street and Lexington avenue	227 81
"	Southeast corner of One Hundred and Fifty-eighth street and Boulevard	236 00
"	Northeast and northwest corners of Seventy-sixth street and Columbus avenue	490 00
		<b>\$153,616 07</b>

NATURE OF WORK.	LOCATION OF WORK.	AMOUNT.
<i>Regulating, Grading, Curbing and Flagging Contracts.</i>		
Regulating and grading	Convent avenue, from One Hundred and Thirty-fifth to One Hundred and Fiftieth street	\$20,685 05
"	One Hundred and Twenty-third street, between Boulevard and Twelfth avenue	9,372 51
"	One Hundred and Twenty-fourth street, between Boulevard and Amsterdam avenue	12,566 73
Flagging, etc	Fifty-ninth street, from Eleventh to Amsterdam avenue	385 61
"	Ninety-fifth street, south side, from First to Second avenue	167 45
"	Seventh avenue, east side, from Nineteenth to Twentieth street	265 96
"	One Hundred and Fifteenth and One Hundred and Sixteenth streets, from Madison to Fifth avenue	869 40
"	Lexington avenue, west side, from One Hundred and Eighteenth to One Hundred and Nineteenth street, and One Hundred and Twentieth to One Hundred and Twenty-first street	526 91
"	Boulevard, from Fifty-ninth to Sixty-third street	3,296 66
"	Sixty-sixth street, from Central Park, West, to Boulevard	2,514 82
"	Sixty-ninth street, north side, from Central Park, West, to Columbus avenue	551 16
"	Sixty-eighth street, from Amsterdam avenue to 100 feet west of West End avenue	1,790 19
"	Fifth avenue, west side, from One Hundred and Thirty-fourth to One Hundred and Thirty-fifth street	599 13
"	Ninety-sixth street, from Boulevard to Riverside Drive	3,698 62
"	Ninety-seventh street, from Boulevard to Amsterdam avenue	1,288 26
"	Manhattan avenue, east side from One Hundred and Thirtieth to One Hundred and Fourteenth street	402 82
"	Northwest corner Broadway and Thirty-fourth street	546 44
"	Sixty-third street, south side, west of Second avenue	359 52
"	Amsterdam avenue, west side, north and south of One Hundred and Forty-second street	364 56
"	One Hundred and Twenty-fourth street, from Fifth to Madison avenue	385 03
"	Sixtieth street, south side, from Tenth to Eleventh avenue	456 24
"	In front of Nos. 92 and 94 First street	115 24
"	Southeast corner Second avenue and Third street	394 75
"	Southeast corner Third avenue and Eighty-fourth street	321 81
"	West End avenue, East side, from Sixty-second to Sixty-fourth street	1,066 77
"	Amsterdam avenue, east side, from One Hundred and Forty-fifth to One Hundred and Forty-seventh street	743 88
"	One Hundred and Seventeenth street, from Fifth to Lenox avenue	210 03
"	One Hundred and Twenty-third street, north side, from First to Second avenue	875 74
"	Eighty-seventh street, south side, between Columbus avenue and Central Park, West	337 38
"	Ninety-second street, between Columbus avenue and Boulevard	520 40
"	In front of Nos. 4 and 6 East Seventy-second street	154 08
"	Boulevard, west side, from One Hundred and Thirty-first to One Hundred and Thirty-second street	185 40
		\$65,118 60
<i>Paving and Repaving Contracts.</i>		
Paving	One Hundred and Twelfth street, from Amsterdam avenue to Boulevard	\$8,355 36
"	One Hundred and Twelfth street, from Madison to Fifth avenues	3,544 37
"	One Hundred and Twenty-sixth street, from Amsterdam avenue to Boulevard	8,352 24
"	Stanton street, from Clinton to Cannon street, Columbia street, from Broome to Houston street, and Second street, from Avenue A to Avenue D	70,724 65
"	One Hundred and Fortieth street, from Seventh to Edgecombe avenue	8,815 82
"	Sixty-eighth street, from Eastern Boulevard to East river	4,979 95
"	One Hundred and Thirteenth street, from Eighth to Manhattan avenue	3,991 68
"	West End avenue, from One Hundred and Fifth to One Hundred and Seventh street	9,067 53
"	Bowery, from Chatham Square to Sixth street	83,441 08
"	Fourth avenue, from Bowery to Thirty-second street	179,223 97
"	Sixteenth street, from Livingston place to 150 feet east of Avenue A	15,707 27
"	One Hundred and Seventeenth street, from Park to Madison avenue	3,266 33
"	Eightieth street, from West End avenue to Riverside Drive	3,631 68
"	Washington street, from Battery place to Chambers street (land grant)	10,273 90
"	One Hundred and Thirty-ninth street, from Eighth to Edgecombe avenue	3,784 56
"	One Hundred and Fifty-third street, from Amsterdam avenue to Boulevard	8,401 00
"	One Hundred and Thirty-seventh street, from Lenox to Seventh avenue	6,368 50
"	Charles lane, from Washington to West street	1,624 55
"	Sixteenth street, from Avenue A to Avenue C	14,399 85
"	Forty-second street, from Eighth to Twelfth avenue	61,511 38
"	Park Row, from Frankfort street to Broadway	31,191 71
"	Broadway, from Thirty-fifth to Forty-second street	31,792 69
"	Avenue D, from Houston to Fourteenth street	56,346 94
"	One Hundred and Twenty-seventh street, from Park to Fifth avenue	11,449 39
"	Twenty-seventh street, from Fifth to Sixth avenue and Twenty-ninth street, from Third to Lexington avenue	16,504 80
"	Thirty-fourth street, from Fourth to Eighth avenue	58,011 87
"	One Hundred and Forty-fourth street, from Convent avenue to Boulevard	12,594 12
"	One Hundred and Forty-third street, from Convent to Amsterdam avenue	4,032 16
"	Manhattan avenue, from Twelfth avenue to Hudson river	2,027 11
"	One Hundred and Eighteenth street, from Madison to Fifth avenue	3,603 69
"	One Hundred and Twenty-first street, from Eighth to Ninth avenue	5,637 44
"	Canal street, from Bowery to East Broadway	26,621 50
"	Park Row, from Frankfort street to and including Chatham square	47,452 67
"	One Hundred and Twenty-third street, from Seventh to Eighth avenue	10,402 16
"	Seventy-second street, from Eastern Boulevard to East river	7,166 77
"	Ninety-seventh street, from Boulevard to West End avenue	3,729 60

NATURE OF WORK.	LOCATION OF WORK.	AMOUNT.
Paving	Bleecker street, from Crosby street to Eighth avenue	\$61,554 40
"	Amsterdam avenue, from One Hundred and Third to One Hundred and Fifth street	6,244 90
"	Sixty-fourth street, from West End avenue to Hudson River Railroad	2,270 15
"	Fifty-eighth street, from Sixth to Seventh avenue and Seventy-sixth street, from Central Park, West, to Boulevard	34,780 99
"	Boulevard, westerly side, from Ninety-second to One Hundred and Eighth street	62,777 44
"	Eleventh street, from Sixth to Seventh avenue, Eighth street, from Avenue B to Avenue C and New street, between Wall and Beaver streets	28,416 04
"	Seventy-sixth street, from Lexington to Third avenue, and Sixty-third street, from Madison to Park avenue	10,933 15
"	One Hundred and Fifty-sixth street, from Amsterdam to St. Nicholas avenue	2,902 50
Crosswalk	Across St. Nicholas avenue, at intersection with Eighth avenue and One Hundred and Twenty-first street	160 92
"	Across Sixth avenue, north side Fifty-fourth street	135 60
"	Across One Hundred and Twenty-fifth street, east and west sides of Lexington avenue	227 40
"	Across Fifty-ninth street, west side of Eighth avenue	92 70
"	Across Kingsbridge road, south side of One Hundred and Sixty-fifth street	180 90
		\$1,035,707 19
<i>Laying Water-mains Contracts.</i>		
Laying water-mains	In Rider and Prospect avenues, and in One Hundred and Twelfth, One Hundred and Fifteenth, One Hundred and Seventeenth, One Hundred and Thirty-third, One Hundred and Thirty-seventh, One Hundred and Thirty-eighth, One Hundred and Forty-fifth, One Hundred and Forty-ninth, One Hundred and Fifty-sixth, One Hundred and Fifty-eighth, One Hundred and Sixtieth, One Hundred and Sixty-sixth, One Hundred and Eighty-fourth and George streets	\$5,151 73
<i>Fencing Contracts.</i>		
Fencing	On block bounded by Boulevard, Amsterdam avenue, Ninety-first and Ninety-second streets	\$347 71
"	One Hundred and Forty-third street, west of Eighth avenue	21 93
		\$369 64
<i>Miscellaneous Contracts.</i>		
Improvement of One Hundred and Fifty-fifth street, from St. Nicholas place to Macomb's Dam Bridge		\$672,326 58
Building temporary bridge over Harlem Ship Canal		8,906 50
		\$681,233 08

RECAPITULATION.

28 Sewer and Receiving-basin Contracts	\$153,616 07
32 Regulating, Grading, Curbing and Flagging Contracts	65,418 60
49 Paving and Repaving Contracts	1,035,707 19
1 Laying Water-mains Contracts	5,151 73
2 Fencing Contracts	369 64
2 Miscellaneous Contracts	681,233 08
114 Contracts	\$1,941,496 31

Document "D."

REPORT OF CHIEF ENGINEER OF THE CROTON AQUEDUCT.

DEPARTMENT OF PUBLIC WORKS, OFFICE OF CHIEF ENGINEER, NO. 31 CHAMBERS STREET, ROOM 10, NEW YORK, January, 1894.

MICHAEL T. DALY, Esq., Commissioner of Public Works: DEAR SIR—Under your instructions dated December 16, 1893, below please find statement of the operations of this Bureau for the quarter ending December 31, 1893, and a summary of the transactions of the year 1893. Expenditures for the quarter \$501,681 09 Expenditures for the year \$1,380,405 61

SUMMARY OF EXPENDITURES FOR THE QUARTER ENDING DECEMBER 31, 1893.

Additional Water Fund	\$30,616 52
Aqueduct—Repairs, Maintenance and Strengthening	56,022 59
Aqueduct—Repairs, Maintenance and Strengthening—Completing	16,281 00
Aqueduct—Repairs, Maintenance and Strengthening—Salaries	7,036 86
Bronx River Works—Maintenance and Repairs	4,652 86
Bronx River Works—Salaries	600 00
Bridge over Harlem River at Third Avenue	13,664 46
Bridge over Harlem Ship Canal	32,270 12
Croton Water Fund	77,739 55
Fund for Viaduct	152,164 68
For New Fire-hydrants	2,278 40
Laying Croton Pipes	63,235 79
Laying Croton Pipes—Salaries	4,883 73
Repairing and Renewal of Pipes, etc.	12,911 94
Salaries—Engineer	3,928 98
Water-main Fund	16,774 55
Water Meter Fund No. 2	4,816 42
Water Supply to Twenty-fourth Ward	1,802 64
Total	\$501,681 09

SUMMARY OF EXPENDITURES FOR THE YEAR 1893.

Additional Water Fund	\$88,308 87
Aqueduct—Repairs, Maintenance and Strengthening	221,147 05
Aqueduct—Repairs, Maintenance and Strengthening—Concrete	12,960 00
Aqueduct—Repairs, Maintenance and Strengthening—Completing	31,779 80
Aqueduct—Repairs, Maintenance and Strengthening—Salaries	27,703 74
Bronx River Works—Maintenance and Repairs	20,183 05
Bronx River Works—Salaries	2,400 00
Bridge over Harlem River at Third Avenue	28,807 93
Bridge over Harlem Ship Canal	43,209 82
Croton Water Fund	300,541 86
Fund for Viaduct	219,466 06
For New Fire-hydrants	4,907 55
Laying Croton Pipes	207,111 13
Laying Croton Pipes—Salaries	19,580 12
Repairing and Renewal of Pipes, etc.	76,543 25
Salaries—Engineer	15,344 92
Water-main Fund	35,503 20
Water Meter Fund No. 2	10,016 85
Water Supply to Twenty-fourth Ward	8,890 41
Total	\$1,380,405 61

Contracts Made, Completed and Unfinished in 1893.

WORK.	CONTRACTOR.	DATE OF CONTRACT.	ESTIMATED COST.	DATE OF FINAL ESTIMATE.	AMOUNT OF FINAL ESTIMATE.	AMOUNT PAID IN 1893.
Building reservoir on Byram River	John McQuade	1889 Jan. 7	\$209,155 00			\$31,438 75
Building reservoir on Muscote River	"	July 25	540,620 00			77,189 85
Improvement of One Hundred and Fifty-fifth street	H. Steward	1890 July 14	514,423 00	1893 Oct. 2	\$672,326 58	209,515 48
Furnishing and laying mains, from Shaft No. 25 to High-bridge	Terence A. Smith	1891 Feb. 13	46,028 00			5,784 30
Improvement of Old Reservoir, Central Park	Robert Hanna	July 21	67,950 00			29,241 00
Improvement of Old Reservoir, excavation	Pietro Indelli	Oct. 3	56,000 00	July 7	57,266 00	15,498 00
Furnishing cast iron water pipe	Warren Machine and Foundry Co.	1892 Mar. 2	48,184 00	" 11	45,830 67	11,334 87
Laying water mains, Sixth avenue, etc.	Walter J. Ford	May 28	12,221 00	Aug. 18	12,104 19	4,838 54
Furnishing and laying mains, One Hundred and Third street	Martin Lipps	July 21	31,347 00	July 5	31,889 66	13,638 43
Furnishing coping stone	Walter J. Ford	Sept. 21	3,525 00	Aug. 23	3,525 00	3,525 00
Relaying mains, Southern Boulevard	Martin Lipps	Dec. 19	4,065 00	July 14	4,655 25	4,432 49
Furnishing and delivering stopcocks, etc.	John Fox	1893 Jan. 23	13,040 50	Sept. 16	13,040 50	13,040 50
Laying and relaying flaggings, Fifth avenue and Forty-second street	Jos. J. Haideman	1892 Dec. 27	3,720 00	Aug. 30	3,611 52	3,611 52
Furnishing and laying mains, Second avenue, between One Hundred and Third and Fifty-eighth streets	F. Thieleman, Jr.	1893 Jan. 27	148,180 00			92,321 51
Furnishing tapping cocks, etc.	M. J. Drummond	" 31	1,729 00	May 18	1,729 00	1,729 00
Laying mains in West End avenue, etc.	Martin Lipps	Feb. 6	7,950 00	Aug. 25	7,928 30	7,531 88
Furnishing cast iron water pipes, etc.	Camden Iron Works	" 7	23,432 50	Dec. 9	23,809 78	23,809 78
Furnishing cast iron water pipes, etc.	"	" 7	8,719 50	April 21	7,993 62	7,993 62
Furnishing stopcocks, etc.	Kennedy Valve Mfg. Co.	" 13	7,909 20			7,909 20
Building foundation, new high service works	Thomas Dwyer	Mar. 1	130,110 00			26,549 55
Furnishing coal	Theo. F. Tone	" 3	30,624 00	Dec. 15	30,624 00	30,624 00
Bridge at Kingsbridge road	A. McMullen & Co.	Apr. 13	334,926 85			27,285 00
Laying mains across East river	The Chapman, Derrick and Wrecking Co.	May 3	2,900 00	Aug. 17	3,097 00	3,097 00
Laying mains in Ryder avenue, etc.	J. S. Rogers	July 16	5,680 50	Nov. 15	5,151 73	4,894 00
Building temporary bridge at Kings-bridge	Sandford Ross	Aug. 11	8,875 00	Oct. 2	8,906 50	8,906 50
Repairing roof of tower at High Bridge	John Flanagan	" 30	3,275 00	" 25	3,275 00	3,275 00
Laying mains in Lenox avenue, etc.	J. S. Rogers	Sept. 6	9,658 00			3,742 94
Building Bridge at Third avenue	John J. Hopper	Oct. 16	1,110,919 70			4,549 75
Furnishing pipe, etc.	McNeal P. & F. Co.	Nov. 9	8,973 00			
Removing gate-house, Tenth avenue and One Hundred and Nineteenth street	P. J. Moran	" 16	42,442 00			
Pumping engines, etc., New High Service Works	The G. F. Blake Mfg. Co.	Dec. 7	110,000 00			

MONTH.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.
January	4.00	4.19	4.41	2.80	5.07	5.59	5.24	5.68	5.56	5.14	2.03	9.76	5.95	4.03
February	2.92	5.28	5.96	5.21	6.31	4.66	5.20	6.01	5.07	2.33	4.94	6.02	1.22	8.05
March	4.51	6.14	4.58	1.67	4.82	1.29	3.86	3.60	6.44	1.86	5.66	3.36	3.90	4.52
April	3.99	1.67	1.36	3.94	2.96	2.09	3.51	3.47	2.68	4.43	3.03	3.77	1.08	3.35
May	1.17	3.74	6.30	2.86	4.33	2.44	4.54	0.32	6.27	3.22	5.74	1.36	5.74	8.18
June	1.28	5.72	3.04	5.64	2.04	1.19	3.09	7.70	2.00	4.51	3.56	1.81	3.64	2.33
July	5.65	2.45	3.63	4.26	6.54	5.27	4.40	13.32	2.43	7.74	5.46	2.97	5.05	2.38
August	3.60	1.71	3.92	2.09	4.50	7.35	3.21	7.06	6.87	2.90	1.70	5.61	6.22	7.06
September	2.69	0.75	14.33	2.45	1.69	1.09	2.30	2.00	10.77	6.13	6.26	1.89	2.65	2.65
October	3.25	3.65	3.33	6.99	3.74	5.19	2.28	3.12	4.80	4.85	7.63	2.15	0.92	6.42
November	2.97	4.50	1.66	1.79	4.37	5.99	5.57	2.69	4.49	8.45	1.12	3.86	7.85	3.32
December	2.49	6.53	2.68	3.45	7.34	3.84	4.29	6.71	6.13	2.94	3.71	5.65	1.15	5.34
Total	33.52	46.33	55.20	43.15	53.71	45.99	47.59	61.68	63.51	54.50	54.44	48.19	45.37	57.83

Average, 48.65.

The work on the construction of Reservoir "A," on the Muscote river, has been steadily prosecuted, all of the lands necessary for same having been obtained and paid for.

BRONX AND BYRAM RIVERS SUPPLY.

The Commission appointed to appraise damages on the Bronx river below Williamsbridge are taking testimony. Maps of the balance of the lands affected are now being perfected. The regular force has been employed in repairing conduit, roads and fences, cleaning up new land purchased around Kensico Reservoir and outlet of Rye Ponds.

A full uninterrupted supply has been furnished to the conduit to the amount of 10,000,000 gallons per day.

Storage Drawn during the Quarter.

	Gallons.
Kensico Reservoir	200,000,000
Rye Pond Reservoir	120,000,000
Total during the quarter	320,000,000

Storage Drawn during the Year.

	Gallons.
Kensico Reservoir	880,000,000
Rye Pond Reservoir	400,000,000
Total during the year	1,280,000,000

The Contractor for tunnel, etc., to carry the waters of Byram river to the Kensico Reservoir, has steadily prosecuted the work and has an opening the whole length of the tunnel.

Lands Acquired and Damages Paid in 1893.

VOUCHER NO.	PARCEL NO.	NAME OF OWNER.	FOR WHAT PAID.	AMOUNT PAID.	REMARKS.
14	15	M. ry E. Tompkins	Land	\$6,687 18	Reservoir "A."
65	235	E. S. and Ambrose Lee	Land and damages	700 00	Bronx river.
113	18	James Parent	Land	4,500 00	Reservoir "A."
114	18	E. V. Hall	"	4,500 00	"
115	18	F. Griffin	"	4,500 00	"
244	16	Enos Lee	"	9,160 48	"
245	16	A. Ritchie and others	"	901 27	"
246	16	J. B. Horton and others	"	4,192 70	"
336	20	M. C. Green	"	4,638 32	"
337	20	A. Green	"	221 28	"
338	20	E. Green	"	1,904 51	"
339	20	County Treasurer of Westchester County	"	1,172 97	"

NEW AQUEDUCT.

The New Aqueduct has continuously supplied water to the city, and no work has been necessary on same except superintendence. The Aqueduct Commission are still in charge and doing work at Croton Dam and at Shaft No. 25.

Maps of lands required for Reservoir "D" and Cornell's have been furnished the Aqueduct Commissioners.

The East Branch and Bog Brook Reservoirs have been completed and will be turned over to this Department in January, 1894.

SANITARY PROTECTION OF THE CROTON AND BRONX RIVER WATER SHEDS.

Maps of lands, etc., required have been filed and Commissioners appointed to appraise the values around Kensico Reservoir, along outlet of Rye Ponds, in the villages of Mount Kisco, New Castle and Kerby's; along the East Branch of the Croton river and Tonaeta Brook, from East Branch Reservoir to First Bridge, below Brewsters and around Lake Glencida.

Public hearings on lands, etc., to be taken have been had for property necessary at Patterson, West Patterson, Towners, on East Branch of Croton river, from First Bridge below Brewsters to Westchester County line, on West Branch of Croton river, from Reservoir "D" to Middle Branch of Croton river, along Beargutter Creek, from outlet of Rye Ponds to tunnel, and around Byram Pond. Maps of same are being perfected and will be forwarded to the Counsel to the Corporation in a few days for the appointment of Commissioners to appraise same.

Surveys are now being made at White Pond and Farmer's Mills, at Lake Mahopac and Kirk and along Muscote river, along Middle Branch of Croton river, and on Byram river and Rye Ponds.

Sewers and disinfecting plant are operated at Brewsters, and several small forces of men are employed cleaning up at Kensico, Mount Kisco, Carmel and Brewsters where the houses, barns, etc., have been sold and are in process of removal.

A force of men deputized as sheriffs are employed to enforce the regulations as to cleanliness around barns, etc., during the winter, and until the same can be secured and abolished under regular proceedings of appraisal.

Amounts Expended in 1893 for Sanitary Protection.

For Laborers, Engineer Corps, Deputy Sheriffs, Mechanics and sewerage plant	\$32,946 40
For materials used	7,842 15
For legal fees, witnesses, etc.	12,407 20
For advertising	9,823 03
For scavenging	4,004 88
For disinfecting plant	21,285 21
Total	\$18,308 87

STORAGE RESERVOIRS.

The Croton river has furnished a full supply of water to the Aqueducts since October 26, 1893.

Storage Drawn during the Quarter.

	Gallons.
Boyd's Corner's Reservoir	280,000,000
Middle Branch Reservoir	280,000,000
East Branch Reservoir	1,300,000,000
Bog Brook Reservoir	520,000,000
Total gallons during quarter	2,380,000,000

Storage Drawn during the Year.

	Gallons.
Boyd's Corner's Reservoir	1,540,000,000
Middle Branch Reservoir	2,810,000,000
East Branch Reservoir	5,050,000,000
Bog Brook Reservoir	1,860,000,000
Kirk Lake	410,000,000
Barrett Pond	185,000,000
Total gallons	11,855,000,000

Rain-fall—Inches.

	OCTOBER.	NOVEMBER.	DECEMBER.	TOTAL FOR QUARTER.	TOTAL FOR YEAR.
Boyd's Corner's Reservoir	6.42	3.32	5.34	15.08	57.83
Middle Branch Reservoir	5.32	3.23	5.11	13.66	54.15
Kensico Reservoir	5.85	3.44	3.89	13.18	54.75
Croton Dam	4.34	2.99	4.56	11.89	51.38
Central Park Reservoir	4.77	3.35	3.80	11.92	49.52

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.
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
February	3.60	3.03	1.38	3.64	6.40	3.81	1.22	3.09	2.78	3.47	4.91	0.80	3.65	2.85
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
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
May	5.62	6.86	8.79	4.52	2.30	3.45	3.59	2.91	1.99	1.08	3.99	0.85	4.97	2.45
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
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
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
September	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
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
November	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
December	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
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

The following nuisances have been abated or abolished since last detailed report of June 30, 1893:

*Brewsters.*

No.	NAME OR PLACE OF OWNER.	DESCRIPTION AND NATURE OF WORK.
1	.....	2,000 lineal feet of Tonetta Brook paved at bottom, dry stone slope ramp constructed, reaching above the high-water mark.
2	.....	3/4 mile of Tonetta Brook cleared of brushwood and cleansed of all filth and animal remains on its border which had previously been concealed by the undergrowth.
3	Mrs. Egbert Howse.....	Cesspool cleaned out.
4	Mrs. Thomas McCabe.....	"
5	Mrs. E. C. Howse.....	"
6	Thomas Carroll.....	"
7	John M. Sloan.....	"
8	Levi A. Shove.....	"
9	Edward Cozzens.....	"
10	District School No. 13.....	3 Privies cleaned.
11	Mrs. L. B. Lent.....	2 "
12	Michael Flynn.....	1 "

*Kensico.*

No.	NAME OR PLACE OF OWNER.	DESCRIPTION AND NATURE OF WORK.
13	Underdonk Place.....	Removed dwelling and cleaned site of same and filled the cellar.
14	Burnett Place.....	2 dwellings and 1 barn removed and site of same thoroughly cleaned and filled.
15	Gale Place.....	1 dwelling removed and cellar filled.
16	Dimmock Place.....	1 dwelling removed, cellar thoroughly cleaned and filled.
17	Wycoff Place.....	1 dwelling and store and horse stable and shed removed, and the site thoroughly cleaned and cellar filled.
18	School-house.....	School-house and privies removed and the site thoroughly cleaned and ground filled and covered with earth.
19	Fisher Place.....	Cellar filled and adjoining grounds graded and covered with fresh earth.
20	Robbins Place.....	Cellar filled and grounds graded and covered with fresh earth.
21	Lester Place.....	1 dwelling torn down and removed, the debris burned, the cellar filled and grounds thoroughly cleaned and covered with fresh earth.
22	Gardner Place.....	A dwelling and barn removed, the cellar filled, the site of barn and surface of ground adjoining thoroughly cleaned and covered with fresh earth.
23	Tompkins' estate.....	Dwelling No. 1 torn down and removed, and the site thoroughly cleaned; the barn torn down and removed, and the site thoroughly cleaned and covered with fresh earth; the factory building torn down and removed; other sites on this estate have been filled.
24	Tucker place.....	A barn was removed and the site thoroughly cleaned.
25	Hart place.....	A dwelling removed and cellar filled and surface of ground covered with fresh earth.

*Carmel.*

No.	NAME OR PLACE OF OWNER.	DESCRIPTION AND NATURE OF WORK.
26	J. Shields.....	Privy removed, vault cleaned and destroyed.
27	".....	Cow barn removed; all manure in the foundation removed.
28	J. Smith.....	Privy removed, vault cleaned and destroyed.
29	Estate J. H. Merritt.....	" " " "
30	Mrs. E. Miller.....	Vault cleaned and thoroughly limed and filled with earth.
31	H. F. Miller.....	Horse barn is now being moved by purchaser.
32	E. Borel.....	Barn is now being moved by purchaser.
33	G. B. Calhoun.....	Privy removed, vault cleaned, well limed and filled with earth.
34	".....	Barn is now being removed by purchaser.
35	J. Taylor.....	Privy removed, vault cleaned and filled with earth.
36	Mrs. T. R. Ganong.....	" " " "
	".....	Barn removed by purchaser.
	".....	Privy removed by purchaser, and the vault drained and filled with earth.
	".....	Barn removed by purchaser; all manure under building has been removed.
37	Estate J. H. Merritt.....	Privy removed, vault cleaned and filled with earth.
38	Mrs. A. Merritt.....	Horse barn removed by purchaser; all manure, etc., under building has been removed.
39	D. Lockwood.....	Barn torn down and removed by purchaser.
	".....	2 privies removed; vaults cleaned and limed.
40	Susan Foshay.....	Privy-vault cleaned and limed, and filled with earth.
	".....	Barn building moved by purchaser, the foundation thoroughly cleaned.
41	C. H. Minor.....	Privy-vault cleaned.
42	C. Zickler.....	"
43	Estate of J. Raymond.....	Privy-vault cleaned, limed and filled with earth.
	".....	" " " "
	".....	Hog pen removed; foundation cleaned.
44	F. Lewis.....	Cow barn removed.
	".....	Barley pit removed.
45	School District No. 10.....	2 privy vaults cleaned, limed and destroyed.

*Mahopac Falls.*

No.	NAME OR PLACE OF OWNER.	DESCRIPTION AND NATURE OF WORK.
47	J. Mercer.....	Privy-vault cleaned.

*Kent.*

No.	NAME OR PLACE OF OWNER.	DESCRIPTION AND NATURE OF WORK.
48	J. H. Seymour.....	Cider pumice; 37 loads removed.
49	R. R. Barrett.....	Manure pile; 56 loads removed.
50	E. Merritt.....	Privy removed; new vault dug; cleaned old vault; new location, 200 feet from lake.
51	Mrs. C. Hazelton.....	Hog pen; all filth removed and kept clean.
	".....	Removed privy to new vault; cleaned old vault.
52	C. Barrett.....	Hog pen; all filth removed.
	".....	Privy; vault cleaned.
53	O. Barrett.....	Hog pen; removed to new location; all filth removed.
54	F. Ludington.....	Carcass of horse removed and buried by order of Deputy Sheriff.
55	D. Kent.....	Carcass of calf removed and buried by order of Deputy Sheriff.
56	J. E. Kent.....	Carcass of cow removed and buried by order of Deputy Sheriff.
57	F. Sprague.....	Carcass of cow found in the river removed and buried by order of Deputy Sheriff.

No.	NAME OR PLACE OF OWNER.	DESCRIPTION AND NATURE OF WORK.
58	J. Griffith.....	Carcass of cow found in the river and removed and buried by order of Deputy Sheriff.
59	S. Williams.....	Carcass of 2 horses found in river; removed and buried by order of Deputy Sheriff.
60	Nixon Estate.....	Carcass of horse found in river; removed and buried by order of Deputy Sheriff.
61	Rickey Bros.....	Carcass of horse found in river; removed and buried by order of Deputy Sheriff.
62	C. Nicholas.....	" " " "
63	L. Merritt.....	Cider mill; all pumice removed daily.
64	J. A. Bennett.....	" " " "

*Patterson.*

No.	NAME OR PLACE OF OWNER.	DESCRIPTION AND NATURE OF WORK.
65	New York and New England Railroad.....	Railroad Company removed privy, cleaned old pit, built water-tight vault for privy.
66	G. H. Brown.....	Cider mill; pumice removed 300 feet from stream.
67	C. E. Akin.....	" " " "
68	J. Stienbeck.....	Cider mill; pumice removed.

*Pawling.*

No.	NAME OR PLACE OF OWNER.	DESCRIPTION AND NATURE OF WORK.
69	J. & B. Holmes.....	Manure pile removed and barn-yard cleaned.
69	".....	Carcass calf removed from stream and buried.
70	M. Leach.....	Manure pile removed and barn-yard cleaned.
71	J. Akin.....	" " " "
72	Rev. Mr. Dolan.....	" " " "
73	L. H. Sprague.....	Slaughter-house; the owner of premises changed course of stream in order to abate this nuisance.

*Mount Kisco.*

No.	NAME OR PLACE OF OWNER.	DESCRIPTION AND NATURE OF WORK.
74	Estate of B. Travis.....	Dwelling and shed removed.
75	Mrs. T. E. Carpenter.....	Dwelling removed.
76	A. Sarles.....	Shed removed.
77	Estate of A. Sutton.....	Dwelling removed.
78	Estate of D. Moger.....	Privy pan placed; 3 pans cleaned weekly and cesspool cleaned.
79	G. W. Acker.....	Privy pan cleaned weekly and 1 cesspool cleaned.
80	T. E. Carpenter.....	2 privy pans cleaned weekly and 1 cesspool cleaned.
81	J. E. Cox.....	3 privy pans cleaned weekly and 1 cesspool cleaned; 2 privy pans placed.
82	Mrs T. E. Carpenter.....	2 privy pans cleaned weekly, 1 pan placed and cesspool cleaned.
83	R. Bochmer.....	Privy pan cleaned weekly; vault cleaned and cesspool cleaned.
84	G. McTavey.....	2 privy pans cleaned weekly; 1 pan placed and 1 cesspool cleaned; 1 dwelling, 2 barns, 1 pig-sty and 1 shed removed.
85	L. Wolf.....	2 privy pans cleaned weekly; 1 pan placed and 1 cesspool cleaned.
86	A. Ferris.....	2 privy pans cleaned weekly; 1 pan placed; 1 dwelling and 1 barn removed.
87	T. Carpenter.....	2 privy pans cleaned weekly; 1 pan placed, cesspool cleaned; 3 dwellings and 1 barn removed.
88	A. Sarles.....	2 privies abolished; 1 dwelling, 1 carriage-house and 1 chicken-house removed.
89	Estate of A. Sutton.....	1 dwelling and 1 barn removed.
90	Theo. Myers.....	1 dwelling and 1 chicken-house removed.
91	Estate of A. Sutton.....	1 dwelling removed.
92	P. Fitzgerald.....	2 privy pans placed and cleaned weekly; 1 tenant-house removed.
93	Mrs. K. Foley.....	2 privy pans placed and cleaned weekly.
94	Mrs. Malone.....	2 privy pans placed and cleaned weekly.
95	".....	Dwelling removed; cesspool cleaned.
96	John Green.....	Privy-vault cleaned.
97	W. Hatter.....	Dwelling removed.
98	C. Pelton.....	Privy cleaned and abolished; 1 dwelling and shed removed.
99	J. Donovan.....	Privy recleaned.
100	Carpenter & Hart.....	2 privy-pans placed and cleaned weekly.
101	School District No. 4.....	2 privy-pans placed and cleaned weekly.
102	Charles Dickson.....	Tight vault built.
103	Stephen Malone.....	Vault cleaned.
104	Mrs. S. Lynch.....	Vault cleaned; 2 privy-pans placed and cleaned weekly.
105	Union Free School.....	10 privy-pans placed; 12 cleaned weekly.
106	G. W. Briggs.....	Vault cleaned; 2 privy-pans placed and cleaned weekly; 1 dwelling, 1 chicken-house and one privy removed.
107	August Weber.....	Privy recleaned; 1 dwelling and 1 privy removed.
108	Harry Slosson.....	Vault cleaned; 2 privy-pans placed and cleaned weekly; cesspool cleaned and abolished; dwelling and privy removed.
109	Jacob Brower.....	2 privy pans placed and cleaned weekly; dwelling, barn and privy removed.
110	C. Hallock.....	Privy cleaned and removed.
111	Estate of D. Bennett.....	2 privy-pans placed and cleaned weekly; dwelling, barn, blacksmith shop and privy removed.
112	Estate of Z. Carpenter.....	Vault filled; carpenter shop removed.
113	D. Moger.....	Privy-pan placed; 2 pans cleaned weekly and cesspool cleaned.
114	G. W. Briggs.....	2 privy-pans placed and cleaned weekly; dwelling and privy removed.
115	R. Bochmer.....	2 privy-pans placed and cleaned weekly.
116	W. J. Halstead.....	Dwelling removed; privy removed.
117	Estate of A. Sutton.....	2 privy-pans placed and cleaned weekly.
118	Charles Ware.....	Privy-pans placed; 2 pans cleaned weekly; cesspool cleaned.
119	J. B. Wood.....	Privy pan placed; 2 pans cleaned weekly; cesspool cleaned.
120	D. F. Gorham.....	Privy pan cleaned weekly.
121	Miss T. H. Christ.....	Vault cleaned; 4 privy pans placed and cleaned weekly; cesspool put in and cleaned.
122	P. Malone.....	Privy pan placed; 2 pans cleaned weekly.
123	B. Tompkins.....	3 privy pans placed; 4 pans cleaned weekly.
124	A. L. Banks.....	5 privy pans placed; 6 pans cleaned weekly; vault cleaned and filled.
125	F. Cliff.....	Privy pan placed; 2 pans cleaned weekly; vault cleaned and filled.
126	J. H. Crane.....	Cesspool cleaned.
127	P. Diehl.....	Privy pan placed; 2 pans cleaned weekly; vault filled.
128	".....	2 privy pans placed and cleaned weekly; vault filled.
129	Close & Robinson.....	Privy pan placed; 2 pans cleaned weekly.

No.	NAME OR PLACE OF OWNER.	DESCRIPTION AND NATURE OF WORK.
130	Close & Robinson.....	Privy pan placed; 2 pans cleaned weekly.
131	F. Jeliff.....	Privy pan placed; 2 pans cleaned weekly and 1 vault filled.
132	G. W. Gorham.....	Privy pan placed; 2 pans cleaned weekly.
133	Dr. C. Chapman.....	Privy pan placed; 2 pans cleaned weekly and 4 vaults filled; 1 cesspool cleaned.
134	E. B. Hazen.....	Privy pan placed; 2 pans cleaned weekly.
135	Mrs. J. Davenport.....	Privy pan placed; 2 pans cleaned weekly; vault filled.
136	Uriah Dinger.....	" " " " " "
137	R. Banks.....	" " " " " "
138	W. T. Halstead.....	" " " " " "
139	".....	" " " " " "
140	J. H. Knapp.....	" " " " " "
141	Frank Burr.....	" " " " " "
142	T. Fletcher.....	" " " " " "
143	D. O'Leary.....	" " " " " "
144	J. H. Matthews.....	" " " " " "
145	Estate D. Moger.....	" " " " " "
146	".....	" " " " " "
147	S. Fisher.....	" " " " " "
148	D. O'Leary.....	" " " " " "
149	James Pierce.....	Privy recleaned and abolished; dwelling and store removed.
150	E. B. Hazen.....	Vaults filled; shed removed.
151	Mrs. S. Knapp.....	" " " " " "
152	Dr. Slosson.....	" " " " " "
153	Mrs. F. Platt.....	Privy-pan placed; 2 pans cleaned weekly.
154	Mrs. C. Fish.....	2 privy-pans placed; 2 pans cleaned weekly.
155	A. Saries.....	3 " " 3 " " " "
156	Miss H. Coffin.....	2 " " 2 " " " "
157	E. Lahomidern.....	1 " " 1 " " " "
158	R. W. Leonard.....	2 " " 2 " " " "
159	T. E. Carpenter.....	2 " " 1 " " " "
160	".....	2 " " 1 " " " "
161	Mrs. T. Coakley.....	1 privy-pan placed; 2 pans cleaned weekly, and dwelling removed.
162	Mrs. Simonson.....	3 privy-pans placed; 3 pans cleaned weekly; vaults filled; dwelling and chicken-house removed.
163	Walter Osborn.....	Privy-pan placed; two pans cleaned weekly.
164	S. Greenwald.....	Privy-pan placed; 1 pan cleaned weekly; dwelling removed.
165	Mrs. A. Moseman.....	2 privy-pans placed; 2 pans cleaned weekly.
166	P. Gallagher.....	" " " " " "
167	Mrs. P. Vail.....	" " " " " "
168	Charles Dawson.....	" " " " " "
169	".....	" " " " " "
170	F. Underhill.....	3 privy-pans; 3 cleaned weekly; vault filled.
171	George Dozendorf.....	1 " " 1 " " " "
172	Church Rectory.....	3 " " 3 " " " "
173	George Miller.....	3 " " 3 " " " "
174	Mrs. C. Tripp.....	Dwelling and store removed.
175	Mrs. Fallon.....	" " " " " "
176	P. Archer.....	Privy cleaned and abolished.
177	L. Wolf.....	Horse-shed removed.
178	John Cox.....	Privy-pan placed; 2 pans cleaned; vault filled.
179	Spencer Optical Works.....	1 pan cleaned.
180	H. H. Brown.....	3 pans placed; 4 pans cleaned; vault filled.
181	Mrs. Osgood.....	2 " " 2 " " " "
182	".....	Privy cleaned, filled and abolished.
183	G. Tompkins.....	" " " " " "

About 1,000 barrels of excrement and garbage have been disinfected and removed; 45 loads of manure have been removed; 250 loads of ashes and garbage removed; 230 loads of fresh and wholesome earth have been used in filling depressions holding still or stagnant water; about 2,000 feet of the channel of the main stream and 1,000 feet of its tributaries have been thoroughly cleaned.

AQUEDUCT REPAIRS, MAINTENANCE AND STRENGTHENING.

Work Done during the Quarter ending December 31, 1893.

DIVISIONS.	Earth Excavated, Cubic Yards.	Dry Stone Masonry, Cubic Yards.	Stone Masonry, Cubic Yards.	Stone Quarried, Cubic Yards.	Concrete Masonry, Cubic Yards.	Brick Masonry, Cubic Feet.	Coping Set, Lineal Feet.	Flagging Laid, Square Feet.	Flagging Relaid, Square Feet.	Fence Built, Lineal Feet.	Fence Repaired, Lineal Feet.	Fence Painted, Lineal Feet.	Fence Gates Built.	Sodding, Square Feet.	Filling and Grading, Cubic Yards.
First.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Second.....	135	100	.....	.....	116	.....	.....	.....	.....	200	.....	75	.....	.....	290
Third.....	217	252	.....	150	17	272	.....	.....	.....	.....	.....	400	.....	.....	.....
Fourth.....	.....	50	.....	.....	.....	.....	.....	.....	.....	305	1,400	.....	.....	.....	.....
Fifth.....	.....	36	.....	.....	.....	.....	50	25	75	500	300	300	4	1,665	300
Sixth.....	300	.....	.....	657	.....	.....	.....	.....	.....	875	.....	2,102	.....	.....	450
Seventh.....	86	.....	30	.....	18	.....	.....	.....	.....	.....	.....	500	.....	.....	.....
Eighth.....	1,200	.....	520	2,500	2,890	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	1,938	438	550	3,307	3,041	272	50	25	75	1,880	2,000	3,377	4	1,665	1,046

The regular work on the several divisions has been continued as usual during the past quarter such as care of surface of Aqueduct, gate-houses, machinery, etc., patrolling reservoirs, etc.

First Division—The work on this division has been cutting brush along line of Old Aqueduct and around lake; repairing and painting fences; repairing highway bridge dam; putting on string pieces and covering iron work; grading in front of breast wall; cleaning out ditches and culverts along line of Old Aqueduct.

Second Division—The work on this division has been rebuilding part of stone-wall on Potter bank; excavating on top of file works arch and refilling with concrete and earth; building, repairing and painting fences and clearing up line.

Third Division—The work on this division has been rebuilding retaining-walls on arch and long bank; tearing down of old wall and excavation necessary for same; quarrying rock for walls; concrete walk built about Keeper's house; building cesspools for Keeper's house, built a brick kitchen for Keeper's house and painting. The grounds around Shaft No. 9, New Aqueduct, received a top dressing of manure; cleaning up line, etc.

Fourth Division—The work on this division has been building retaining-wall; building and repairing fences; cleaning up line; cleaning and repairs to culverts, crosswalks and drains.

Fifth Division—The work on this division has been building retaining-wall on Steward bank and north of Keeper's house. Flagging and raftering sidewalk; coping set on cement; hauling stone and earth; filling and grading and sodding; setting gate-posts; building, repairing and painting fences; cleaning and repairs to crosswalks, gutters and drains, etc.

Sixth Division—The work on this division has been building and painting fences; quarrying stones; repairing cross-roads; filling and grading; cleaning up line; cleaning and repairs to culverts, drains, gutters, etc.

Seventh Division—The work on this division has been cleaning and repairs to all the approaches to High Bridge; cleaning culverts, drains, etc.; repairing and painting fencing; reservoir is cleaned daily and kept free of leaves, scum, etc.; the gate-houses have been kept clean and the screws well greased; fire is kept in tower; finished cleaning reservoir October 3, and refilled the cracks and stopped all leaks both in bottom and sides; the water was turned on October 12; the iron railing around reservoir has been painted; painting in tower and gate-houses; a new flooring was laid on coal dock; wasteway from engine-house was built, also cesspool; spreading ashes along line of Aqueduct; hoisting coal for engine-house, gate-house and tower, as required; cleaning up lines and culverts, drains, etc.

Eighth Division—The work on this division has been cleaning and repairs of Central Park and Forty-second Street Reservoirs, gate-houses, chambers and outside mains; cleaning, repairs and maintenance of high service works, Ninth and Tenth avenue gate-houses and grounds; gathering leaves around reservoirs and from the water; making new screen frames; doing odd jobs of mason and painting; patrolling Central Park reservoirs and pipes lines. The work for the improvement of the Old Central Park Reservoir is still in progress.

Work Done during the Year 1893.

DIVISION.	Earth Excavated, Cubic Yards.	Stone Quarried, Cubic Yards.	Dry Masonry, Cubic Yards.	Stone Masonry, Cubic Yards.	Brick Masonry, Cubic Feet.	Concrete Masonry, Cubic Yards.	Coping Set, Lineal Feet.	Pointing, Square Feet.	Filling and Grading, Cubic Yards.
First.....	.....	.....	10	.....	.....	.....	.....	.....	.....
Second.....	435	.....	1,061	.....	810	134	.....	.....	306
Third.....	514	250	588	.....	1,682	17	.....	.....	30
Fourth.....	33	.....	135	.....	261	.....	.....	.....	.....
Fifth.....	288	.....	128	.....	1,928	.....	50	725	705
Sixth.....	608	1,113	396	.....	1,327	.....	.....	.....	450
Seventh.....	174	.....	.....	30	.....	18	.....	.....	70
Eighth.....	4,600	5,020	.....	1,240	.....	5,590	.....	.....	.....
Total.....	6,652	6,383	2,318	1,270	6,068	5,759	50	725	1,561

DIVISION	Flagging Laid, Square Feet.	Flagging Relaid, Square Feet.	Sodding, Square Feet.	Fence Built, Lineal Feet.	Fence Repaired, Lineal Feet.	Fence Painted, Lineal Feet.	Fence Gates Built.	Fence Posts Set.
First.....	.....	.....	.....	.....	300	.....	.....	.....
Second.....	.....	.....	.....	1,260	.....	150	.....	.....
Third.....	.....	.....	.....	720	.....	2,663	.....	.....
Fourth.....	.....	.....	.....	1,208	4,650	.....	.....	.....
Fifth.....	25	75	2,115	4,000	1,500	1,250	8	.....
Sixth.....	.....	.....	.....	4,343	2,026	2,102	.....	226
Seventh.....	.....	.....	.....	300	910	1,200	.....	42
Eighth.....	10,820	8,338	.....	.....	.....	.....	.....	.....
Total.....	10,845	8,413	2,115	11,831	9,986	7,370	8	268

The above is a summary of the work done along the Croton Aqueduct during the year 1893. The general character of the work has been maintenance and strengthening, with the result of considerable improvement all along the line; the more particular work has been abating nuisances around the Croton Lake; extensive repairs in tunnel of Aqueduct, from Sing Sing to and including Kingsbridge, the water being shut off from May 19 to July 11, the prison at Sing Sing being supplied from the water supply of Sing Sing village during this time; a new iron fence was built on Seventh Division; the High Bridge Reservoir was thoroughly cleaned and repaired; the improvement of the Old Central Park Reservoir is still in progress; excavating and filling with concrete on top of File Works Arch at Sing Sing; a new extension kitchen was built for Keeper's house on Third Division.

First Division—The work on this division has been cleaning out ditches; building and repairing fences; abating nuisances; grading in front of breast wall, new gate-house; cleaning tunnel; working highway; placing stone at toe of apron; cutting grass; painting and repairing highway bridge below Dam.

Second Division—The work on this division has been building stone walls; cleaning up line, ditches and drains; shoveling snow; building and repairing fences; repairs in tunnel Aqueduct; cleaning tunnel from upper to lower end of division; rebuilt part of invert on "File Works Arch"; excavated on top of "File Works Arch" and refilled the same with earth and concrete; building, repairing and painting fences, and cleaning up line, ditches, etc.

Third Division—The work on this division has been building stone walls, with all the necessary excavation for same; quarrying stone; spreading manure; hauling stone; shoveling snow; building, repairing and painting fences; built a large shed for storage of brick; repairs and cleaning Aqueduct tunnel; cutting grass and building on Church Bank; building new kitchen and cesspool for Keeper's house; painting in Keeper's house and keeping line and drain clean.

Fourth Division—The work on this division has been building and repairing fences; repairs to banks; cleaning crosswalks of snow; repairs and cleaning Aqueduct tunnel; building retaining-wall near Keeper's house; cleaning Aqueduct grounds, and repairs to culverts, drains, etc.

Fifth Division—The work on this division has been building, repairing and painting fences; filling and grading; building fence-gates; shoveling snow; repairing and cleaning Aqueduct tunnel; pointing up masonry; sodding; building stone walls; excavation for stone walls; hauling stone; building brick basin for drain in Garden street; coping set in cement; flagging and reflagging; cleaning up line, ditches, crosswalks, etc.

Sixth Division—The work on this division has been quarrying stone; rebuilding stone fences; building, repairing and painting fences; setting fence-posts; repairing and cleaning Aqueduct tunnel; built an additional room over kitchen in Keeper's house; opened the road at One Hundred and Eighty-fourth street and put two rings of brick over Aqueduct; refilled, curbed and flagged the street; cleaning up line of Aqueduct, drains, culverts and crosswalks; cutting grass, etc.

**Seventh Division**—The work on this division has been cleaning screws in gate-houses and keeping them well greased; painting tank in tower (fire has been kept in tower during the winter to prevent freezing of the pipes); shoveling snow; putting new bagging on pumps; painting in engine-room; the mason from the Eighth Division has been putting new bars in furnace, spreading manure, spreading limestone screenings, building, repairing and painting fences, hoisting coal, cutting grass and having same hauled away, painting at keeper's house and gate-houses, excavation for and mason-work to hold drainage-pipe from engine-house to Harlem river; water was run off the reservoir September 5 and 6 into the aqueduct until nearly empty and the remaining water turned into the Harlem river. The reservoir was all cleaned and repaired; repairs to tower, repairing walks, ditches, culverts, etc.; water was turned on for reservoir October 12th; new floor was laid on coal dock; cleaning up line, roadways and all approaches to bridge.

**Eighth Division**—The work on this division has been cleaning and repairs of Central Park and Forty-second street reservoirs, gate-houses and outside mains; cleaning, maintenance and repairs of high-service works, Ninth and Tenth avenue gate-houses and grounds; shoveling snow around reservoir; doing odd jobs of mason-work; painting at high-service works, chamber of gate-house and keeper's house; patrolling Central Park reservoirs and pipe-line; continuing the improvement of old Central Park reservoir; painting gate-house doors, roof, windows and iron-work; pointing slopes on old reservoir, repairing windows and doors of gate-houses, building new frames for screens, cutting grass around reservoir, gathering leaves around reservoir and from the water. Contracts for repairing roof of tower at High Bridge and for furnishing coal have been completed.

LAYING CROTON PIPES.

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

Rider avenue, between One Hundred and Forty-second and One Hundred and Forty-fourth streets.

- Prospect avenue, between One Hundred and Forty-ninth street and Westchester avenue.
- One Hundred and Twelfth street, between Madison and Fifth avenues.
- One Hundred and Fifteenth street, between Lenox and Seventh avenues.
- One Hundred and Seventeenth street, between Park and Madison avenues.
- One Hundred and Thirty-third street, between Trinity and Willow avenues.
- One Hundred and Thirty-third street, between Amsterdam avenue and Boulevard.
- One Hundred and Thirty-seventh street, between Lenox and Seventh avenues.
- One Hundred and Thirty-eighth street, between Walnut and Willow avenues.
- One Hundred and Forty-fifth street, between Boulevard and Hudson River Railroad.
- One Hundred and Forty-ninth street, between Boulevard and Hudson River Railroad.
- One Hundred and Fifty-sixth street, between St. Ann's and Eagle avenues.
- One Hundred and Fifty-eighth street, between Mott and Gerard avenues.
- One Hundred and Sixty-sixth street, between Amsterdam avenue and Kingsbridge road.
- One Hundred and Eighty-fourth street, between Tiebout and Webster avenues.
- George street, between Boston and Forest avenues.
- One Hundred and Thirty-second street, between St. Ann's and Trinity avenues.
- One Hundred and Fifty-fifth street, between Amsterdam and St. Nicholas avenues.
- One Hundred and Fifty-seventh street, between Third and Elton avenues.
- Tinton avenue, between George and Home streets.

One contract for laying pipe has been made; one contract for pipe and one contract for stop-cocks, hydrants, etc., completed.

STREETS AND AVENUES IN WHICH WATER-MAINS HAVE BEEN LAID IN 1893.

48-inch Pipe.

- One Hundred and Third street, between Madison and Second avenues.
- Second avenue, between One Hundred and Third and Eighty-sixth streets.
- Second avenue, between Fifty-eighth and Seventy-eighth streets.

36-inch Pipe.

- From 600 feet south of Shaft No. 25, New Aqueduct, to 1,080 feet south of same.
- Southern Boulevard, from Home street, 400 feet south.
- Sixth avenue, between Forty-first and Forty-second streets.

30-inch Pipe.

- Sixth avenue, crossing Forty-first street.

20-inch Pipe.

- Sixth avenue, between Thirty-eighth and Forty-first streets.

12-inch Pipe.

- Southern Boulevard, between One Hundred and Sixty-seventh and Home streets.
- Baxter street, between Park Row and Canal street.
- Twelfth avenue, between Fifty-fifth and Fifty-eighth streets.
- Park avenue (west side), between Ninety-fourth and One Hundredth streets.
- One Hundred and Thirty-third street, between Amsterdam avenue and Boulevard.
- One Hundred and Thirty-eighth street, between Willow and Walnut avenues.
- Third avenue, between One Hundred and Thirty-sixth and One Hundred and Forty-first streets.

6-inch Pipe.

- Thirteenth avenue, between Thirteenth and Fourteenth streets.
- One Hundred and Second street, between Amsterdam and West End avenues.
- Hamilton place, between One Hundred and Forty-first and One Hundred and Forty-fourth streets.
- One Hundred and Eighty-first street, between Amsterdam and Eleventh avenues.
- One Hundred and Forty-eighth street, between Morris and Railroad avenues.
- One Hundred and Fifty-third street, between Morris and Railroad avenues.
- One Hundredth street, between Third and Lexington avenues.
- Topping street, between One Hundred and Seventy-third and One Hundred and Seventy-fourth streets.
- Chisholm street, between Jennings street and Stebbins avenue.
- West End avenue, between One Hundred and Fifth and One Hundred and Seventh streets.
- Ninety-third street, between Boulevard and West End avenue.
- One Hundred and Fifteenth street, between Boulevard and Riverside avenue.
- One Hundred and Forty-first street, between Amsterdam and St. Nicholas avenues.
- Veris avenue (First street, Woodlawn), between Eastchester avenue and City Line.
- Clinton avenue, between Tremont avenue (One Hundred and Seventy-seventh street) and Samuel street.
- Ninety-first street, between Amsterdam avenue and Boulevard.
- One Hundred and Seventieth street, between Webster avenue and Harlem Railroad.
- Railroad avenue (west), between One Hundred and Sixtieth and One Hundred and Sixty-first streets.
- One Hundred and Fiftieth street, between Morris and Railroad avenues.
- Madison avenue, between One Hundred and Thirty-seventh and One Hundred and Thirty-eighth streets.
- One Hundred and Thirty-eighth street, between Madison avenue and Harlem river.
- Ninety-third street, between First avenue and Avenue A.
- Avenue A, between Ninety-second and Ninety-third streets.
- Kelly street, between Robbins and Wales avenues.
- Union avenue, between One Hundred and Sixty-first street and Westchester avenue.
- Beach avenue, between Kelly street and Westchester avenue.
- Eagle avenue, between Westchester avenue and Cedar place.
- Travers street, between Jerome and Creston avenues.
- One Hundred and Forty-eighth street, between St. Nicholas and Amsterdam avenues.
- Edgecombe avenue, between One Hundred and Forty-fifth and One Hundred and Forty-sixth streets.
- One Hundred and Twelfth street, between Madison and Fifth avenues.
- One Hundred and Fifteenth street, between Lenox and Seventh avenues.
- Alexander avenue, between One Hundred and Thirty-second street and Southern Boulevard.
- One Hundred and Thirty-seventh street, between Lenox and Seventh avenues.
- One Hundred and Forty-fifth street, between Boulevard and Hudson River Railroad.
- One Hundred and Forty-ninth street, between Boulevard and Hudson River Railroad.
- One Hundred and Seventeenth street, between Madison and Park avenues.
- Across East river, between One Hundred and Fortieth street and Locust avenue and North Brother Island.
- One Hundred and Fiftieth street, between Walton and River avenues.
- Eighty-third street, between Avenue B and East river.
- One Hundred and Sixty-sixth street, between Amsterdam avenue and Kingsbridge road.
- Prospect avenue, between One Hundred and Forty-ninth street and Westchester avenue.
- George (One Hundred and Sixty-sixth) street, between Boston and Forest avenues.
- One Hundred and Thirty-third street, between Trinity and Willow avenues.
- One Hundred and Forty-eighth street, between Amsterdam avenue and Boulevard.

One Hundred and Fifty-sixth street, between St. Ann's and Eagle avenues.  
Rider avenue, between One Hundred and Forty-second and One Hundred and Forty-fourth streets.

- Fairmount place, between Prospect avenue and a point 550 feet west.
- One Hundred and Eighty-fourth street, between Tiebout and Webster avenues.
- One Hundred and Thirty-second street, between St. Ann's and Trinity avenues.
- One Hundred and Fifty-fifth street, between Amsterdam and St. Nicholas avenues.
- One Hundred and Fifty-eighth street, between Mott and Gerard avenues.
- One Hundred and Seventy-second street, between Third and Vanderbilt avenues.
- One Hundred and Seventy-third street, between Third and Vanderbilt avenues.
- One Hundred and Fifty-seventh street, between Third and Elton avenues.
- One Hundred and Forty-fourth street, between Mott and Morris avenues.
- Oakland place, between Clinton and Prospect avenues.
- Prospect avenue, between Oakland place and Grote street.
- Tinton avenue, between George and Home streets.
- Van Corlears place, between Kingsbridge avenue and a point 455 feet south.
- Van Corlears place, between Wicker place and a point 427 feet south.
- Wicker place, between Kingsbridge and Jansen avenues.
- Jansen avenue, between Terrace View avenue and a point 620 feet south.
- Tinton avenue, between Westchester avenue and Denman place.
- Wales avenue, between Westchester avenue and Kelly street.

"A" HYDRANTS PLACED DURING YEAR 1893.

Northwest corner of One Hundred and Second street and Boulevard	1
North side of One Hundred and Second street, between West End avenue and Boulevard	1
Northeast corner of One Hundred and Second street and Boulevard	1
Northwest corner of One Hundred and Second street and Amsterdam avenue	1
Northwest corner of Southern Boulevard and One Hundred and Sixty-seventh street	1
West side of Southern Boulevard, south of Home street	1
West side of Hamilton place, between One Hundred and Forty-first and One Hundred and Forty-second streets	1
West side of Hamilton place, between One Hundred and Forty-second and One Hundred and Forty-third streets	1
Northeast corner of One Hundred and Eighty-first street and Audubon avenue	1
Northeast corner of One Hundred and Eighty-first street and Eleventh avenue	1
Northeast corner of One Hundred and Fifty-third street and Railroad avenue	1
Northwest corner of One Hundred and Fifty-third street and Morris avenue	1
Northeast corner of One Hundred and Forty-eighth street and Railroad avenue	1
North side of One Hundred and Forty-eighth street, between Railroad and Morris avenues	1
Northwest corner of One Hundred and Forty-eighth street and Morris avenue	1
West side of Topping street, between One Hundred and Seventy-third and One Hundred and Seventy-fourth streets	1
Northwest corner of Chisholm street and Stebbins avenue	1
Northwest corner of Chisholm and Freeman street	1
Northwest corner of One Hundred and Sixth street and West End avenue	1
Northwest corner of One Hundred and Seventh street and West End avenue	1
Northeast corner of Ninety-third street and West End avenue	1
Northwest corner of One Hundred and Fifteenth street and Boulevard	1
Northeast corner of One Hundred and Forty-first street and Amsterdam avenue	1
Southeast corner of One Hundred and Forty-first street and Convent avenue	1
Northwest corner of Hamilton Terrace and One Hundred and Forty-first street	1
North side of One Hundred and Forty-first street, between Hamilton Terrace and St. Nicholas avenue	1
West side of Verio avenue, between Eastchester avenue and Clifford street	1
Northwest corner of Verio avenue and Willard street	1
Northwest corner of Verio avenue and Clifford street	1
West side of Verio avenue, between Opdyke and Oakley streets	1
Northwest corner of Verio avenue and Kemble street	1
West side of Verio avenue, at northerly City line	1
Northwest corner of Clinton and Tremont avenues	1
Northeast corner of Elmwood place and Clinton avenue	1
Northeast corner of Lebanon street and Clinton avenue	1
Northeast corner of Oakland place and Clinton avenue	1
West side of Clinton avenue, north of Oakland place	1
Northwest corner of Ninety-first street and Amsterdam avenue	1
North side of One Hundred and Seventieth street, between Brook and Railroad avenues	1
West side of Railroad avenue, between One Hundred and Sixtieth and One Hundred and Sixty-first street	1
Northeast corner of One Hundred and Fiftieth street and Railroad avenue	1
North side of Ninety-third street, east of First avenue	1
North side of Ninety-third street, west of Avenue A	1
Northeast corner of Fifty-seventh street and Twelfth avenue	1
North side of Fifty-seventh street, between Eleventh and Twelfth avenues	1
Northeast corner of Fifty-sixth street and Twelfth avenue	1
East side of Union avenue, between One Hundred and Sixty-first street and Denman place	1
East side of Union avenue, north of Denman place	1
Southeast corner of Union and Westchester avenues	1
Northwest corner of Beach avenue and Dawson street	1
Southwest corner of Beach avenue and Hewitt place	1
Southwest corner of Beach avenue and One Hundred and Fifty-sixth street	1
Northwest corner of Eagle and Westchester avenues	1
West side of Eagle avenue, between Westchester avenue and One Hundred and Fifty-sixth street	2
Southwest corner of Eagle avenue and One Hundred and Fifty-sixth street	1
Southwest corner of Eagle avenue and Cedar place	1
Northeast corner of One Hundred and Forty-eighth street and Amsterdam avenue	1
North side of One Hundred and Forty-eighth street, between Amsterdam and St. Nicholas avenue	1
Northwest corner of One Hundred and Forty-eighth street and St. Nicholas avenue	1
West side of Edgecombe avenue, north of One Hundred and Forty-fifth street	1
Northwest corner of One Hundred and Twelfth street and Madison avenue	1
Northeast corner of One Hundred and Fifteenth street and St. Nicholas avenue	1
North side of One Hundred and Fifteenth street, between St. Nicholas and Lenox avenues	1
Northwest corner of Park avenue and Ninety-fourth street	1
Northwest corner of Park avenue and Ninety-sixth street	1
Northwest corner of Ninety-seventh street and Park avenue	1
Northwest corner of Ninety-eighth street and Park avenue	1
Northwest corner of Ninety-ninth street and Park avenue	1
West side of Alexander avenue, between One Hundred and Thirty-second street and Southern Boulevard	1
Northwest corner of One Hundred and Thirty-seventh street and Lenox avenue	1
North side of One Hundred and Thirty-seventh street, between Lenox and Seventh avenues	1
North side One Hundred and Thirty-third street, between Amsterdam avenue and Boulevard	1
Northwest corner of One Hundred and Forty-fifth street and Boulevard	1
North side of One Hundred and Forty-fifth street, between Boulevard and Hudson River R. R.	1
North side of One Hundred and Seventeenth street, east of Madison avenue	1
Northwest corner of One Hundred and Forty-ninth street and Boulevard	1
North side of One Hundred and Forty-ninth street, between Boulevard and Hudson River R. R.	1
Northeast corner of One Hundred and Fiftieth street and River avenue	1
Northwest corner of One Hundred and Fiftieth street and Walton avenue	1
Northeast corner of Eighty-third street and Avenue B	1
North side Eighty-third street, near East river	1
Northeast corner of One Hundred and Sixty-sixth street and Kingsbridge road	1
Northeast corner of One Hundred and Sixty-sixth street and Audubon avenue	1
Northwest corner of One Hundred and Sixty-sixth street and Amsterdam avenue	1
West side of Prospect avenue, between One Hundred and Forty-ninth and One Hundred and Fiftieth streets	1
West side of Prospect avenue, between One Hundred and Fiftieth and One Hundred and Fifty-first streets	1
West side of Prospect avenue, between One Hundred and Fifty-first and Kelly streets	1
West side of Prospect avenue, between Kelly and Dawson streets	1
West side of Prospect avenue, south of One Hundred and Fifty-sixth street	1
West side of Prospect avenue, between One Hundred and Fifty-sixth street and Westchester avenue	1
North side of One Hundred and Thirty-eighth street, near Willow avenue	1
North side of One Hundred and Thirty-eighth street, between Willow and Walnut avenues	2
North side of George (One Hundred and Sixty-sixth) street, between Boston and Trinity avenues	1
North side of George (One Hundred and Sixty-sixth) street, between Jackson and Forest avenues	1
North side of One Hundred and Thirty-third street, near Trinity avenue	1

North side of One Hundred and Thirty-third street, between Trinity and Willow avenues... I  
 North side of One Hundred and Forty-eighth street, between Amsterdam avenue and Boulevard... I  
 Northwest corner of One Hundred and Forty-eighth street and Amsterdam avenue... I  
 West side of Third avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets... I  
 West side of Third avenue, between One Hundred and Thirty-seventh and One Hundred and Thirty-eighth streets... I  
 Northeast corner of Third avenue and One Hundred and Thirty-eighth street... I  
 Northeast corner of One Hundred and Thirty-ninth street and Third avenue... I  
 East side of Third avenue, between One Hundred and Thirty-ninth and One Hundred and Fortieth streets... I  
 North side of Fairmount place, near Prospect avenue... I  
 North side of Fairmount place, near Franklin avenue... I  
 Northeast corner of One Hundred and Eighty-fourth street and Bainbridge avenue... I  
 East side of One Hundred and Eighty-fourth street, between Bainbridge and Webster avenues... I  
 Northwest corner of One Hundred and Eighty-fourth street and Webster avenue... I  
 North side of One Hundred and Thirty-second street, east of St. Ann's avenue... I  
 Northwest corner of One Hundred and Fifty-eighth street and Mott avenue... I  
 North side of One Hundred and Seventy-second street, between Washington and Vanderbilt avenues... I  
 North side of One Hundred and Seventy-third street, near Vanderbilt avenue... I  
 Northeast corner of One Hundred and Seventy-third street and Washington avenue... I  
 Northeast corner of One Hundred and Seventy-third street and Bathgate avenue... I  
 Northwest corner of Oakland place and Prospect avenue... I  
 Northwest corner of Samuel street and Prospect avenue... I  
 Northwest corner of John street and Prospect avenue... I  
 Southwest corner of Prospect avenue and Grote street... I  
 West side of Tinton avenue, north of George street... I  
 Southwest corner of Tinton avenue and Home street... I  
 East side of Van Corlears place, south of Kingsbridge avenue... I  
 West side of Van Corlears place, south of Kingsbridge avenue... I  
 Northeast corner of Wicker place and Jansen avenue... I  
 North side of Wicker place, near Van Corlears place... I  
 West side of Van Corlears place, south of Wicker place... I  
 Southwest corner of Jansen and Terrace View avenues... I  
 West side of Jansen avenue, south of Wicker place... I  
 Northwest corner of Tinton and Westchester avenues... I  
 Southwest corner of Tinton avenue and Cedar place... I  
 West side of Tinton avenue, near Denman place... I  
 Northwest corner of Second avenue and Sixtieth street... I  
 Southwest corner of Second avenue and Sixtieth street... I  
 Southwest corner of Wales and Westchester avenues... I  
 West side of Wales avenue, between Westchester avenue and Kelly street... I  
 West side of Lincoln avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets... I  
 East side of Lincoln avenue, between One Hundred and Thirty-seventh and One Hundred and Thirty-eighth streets... I

NO. "I" HYDRANTS PLACED DURING YEAR 1893.

Southeast corner of Southern Boulevard and Home street... I  
 Southeast corner of Home street and Southern Boulevard... I  
 West side of Chisholm street near Jennings street... I  
 One Hundred and Thirty-eighth street and Harlem river... I  
 East side of Sixth avenue, between Thirty-eighth and Thirty-ninth streets... I  
 Northeast corner of Eagle avenue and One Hundred and Fifty-sixth street... I  
 Northeast corner of Travers street and Jerome avenue... I  
 North side of Travers street, near Creston avenue... I  
 Southeast corner of One Hundred and Thirty-seventh street and Seventh avenue... I  
 Northwest corner of Tiebout avenue and One Hundred and Eighty-fourth street... I  
 North side of One Hundred and Thirty-second street, between St. Ann's and Trinity avenues... I  
 Northwest corner of Jane and West streets... I  
 North side of Jane street, between West and Washington streets... I  
 North side of Hamilton street, near Market street... I  
 Northeast corner of One Hundred and Fifteenth street and Lenox avenue... I

DOUBLE NOZZLE HYDRANTS PLACED DURING YEAR 1893.

Northeast corner of One Hundred and Forty-second street and Morris avenue... I  
 Northeast corner of One Hundred and Forty-fourth street and Morris avenue... I  
 Northeast corner of One Hundred and Forty-sixth street and Morris avenue... I  
 Northeast corner of One Hundred and Forty-eighth street and Morris avenue... I  
 Northwest corner of One Hundred and Fiftieth street and Morris avenue... I  
 Northwest corner of One Hundred and Fifty-first street and Morris avenue... I  
 Northeast corner of One Hundred and Forty-third street and Brook avenue... I  
 Southwest corner of One Hundred and Seventy-eighth street and Railroad avenue... I  
 Northeast corner of Forty-ninth street and First avenue... I  
 Northwest corner of Forty-ninth street and First avenue... I  
 Northwest corner of Fiftieth street and First avenue... I  
 Northeast corner of Fiftieth street and First avenue... I  
 Northeast corner of Fifty-first street and First avenue... I  
 Northeast corner of Fifty-second street and First avenue... I  
 Southwest corner of Baxter and Walker streets... I  
 West side of Baxter street, near White street... I  
 Northwest corner of White and Baxter streets... I  
 West side of Baxter street, near Bayard street... I  
 East side of Baxter street, near Franklin street... I  
 East side of Baxter street, between Leonard and Franklin streets... I  
 Northwest corner of Leonard and Baxter streets... I  
 East side of Baxter street, opposite Leonard street... I  
 West side of Baxter street, between Worth and Leonard streets... I  
 Northwest corner of Baxter and Worth streets... I  
 West side of Baxter street, between Park Row and Worth street... I  
 Southwest corner of Baxter street and Park Row... I  
 West side of First avenue, between Forty-second and Forty-third streets... I  
 West side of First avenue, between Forty-third and Forty-fourth streets... I  
 Southwest corner of Forty-fourth street and First avenue... I  
 Northwest corner of Forty-fifth street and First avenue... I  
 Southwest corner of Forty-sixth street and First avenue... I  
 Northeast corner of Forty-sixth street and First avenue... I  
 Northeast corner of Forty-seventh street and First avenue... I  
 Northwest corner of Forty-seventh street and First avenue... I  
 Northwest corner of Forty-eighth street and First avenue... I  
 Northeast corner of Forty-eighth street and First avenue... I  
 Southeast corner of One Hundred and Third street and Fifth avenue... I  
 East side of Sixth avenue, near Forty-first street... I  
 Southwest corner of Elizabeth and Canal streets... I  
 South side of Canal street, near Elizabeth street... I  
 South side of Canal street, near Mulberry street... I  
 Southwest corner of Canal and Mulberry streets... I  
 Southeast corner of Canal and Baxter streets... I  
 Northeast corner of Canal and Baxter streets... I  
 Northeast corner of Canal and Centre streets... I  
 Northwest corner of Canal and Mott streets... I  
 Southwest corner of Walker and Baxter streets... I  
 Southwest corner of Walker and Centre streets... I  
 Northeast corner of Walker and Centre streets... I  
 Northeast corner of Walker and Elm streets... I  
 East side of Mott street, between Canal and Hester streets... I  
 Northeast corner of One Hundred and Thirty-eighth street and Third avenue... I  
 East side of Third avenue, between One Hundred and Fortieth and One Hundred and Forty-first streets... I  
 Northwest corner of Greenwich and West Eleventh streets... I  
 South side of Bethune street, between Greenwich and Washington streets... I  
 Northeast corner of Bethune and Washington streets... I  
 Northwest corner of Bank and Greenwich streets... I  
 Southeast corner of Bank and Washington streets... I  
 Northeast corner of Hudson and West Eleventh streets... I  
 Northeast corner of West Twelfth and Washington streets... I

Northwest corner of West Twelfth and Greenwich streets... I  
 Northeast corner of Hudson and Bethune streets... I  
 Southwest corner of Hudson and Bank streets... I  
 Northwest corner of Hudson and West Twelfth streets... I  
 Southeast corner of Gansevoort and Greenwich streets... I  
 Southwest corner of Gansevoort and Hudson streets... I  
 Southeast corner of Gansevoort and Hudson streets... I  
 North side of Gansevoort street at intersection with West Thirteenth street... I  
 Southwest corner of One Hundred and Fifty-fifth street and St. Nicholas avenue... I  
 South side of One Hundred and Fifty-fifth street, near Amsterdam avenue... I  
 Northeast corner of One Hundred and Forty-fourth street and Mott avenue... I  
 Northeast corner of One Hundred and Forty-fourth street and Spencer place... I  
 Northeast corner of One Hundred and Forty-fourth street and Railroad avenue... I  
 North side of One Hundred and Forty-fourth street, near Rider avenue... I  
 Northeast corner of Franklin and Hudson streets... I  
 Southwest corner of North Moore and Varick streets... I  
 Northwest corner of Greenwich and Beach streets... I  
 East side of Greenwich street, between Beach and Hubert streets... I  
 Northeast corner of Greenwich and Hubert streets... I  
 West side of Greenwich street, between Hubert and Laight streets... I  
 Southeast corner of Greenwich and Vestry streets... I  
 East side of Greenwich street, between Vestry and Desbrosses streets... I  
 Southwest corner of Greenwich and Desbrosses streets... I  
 Northeast corner of Canal and Hudson streets... I  
 North side of Canal street, between Hudson and Varick streets... I  
 Northeast corner of Laight and Varick streets... I  
 North side of Laight street, near St. John's Lane... I  
 Northwest corner of Ninth avenue and Fourteenth street... I  
 Southeast corner of Ninth avenue and Fifteenth street... I  
 Northeast corner of Ninth avenue and Fifteenth street... I  
 Southwest corner of Ninth avenue and Sixteenth street... I  
 West side of Ninth avenue, between Sixteenth and Seventeenth streets... I  
 Southeast corner of Ninth avenue and Seventeenth street... I  
 Northeast corner of Bleecker street and South Fifth avenue... I  
 Southwest corner of Bleecker and Wooster streets... I  
 Northeast corner of Bleecker and Wooster streets... I  
 Southeast corner of Bleecker and Greene streets... I  
 Northeast corner of Bleecker and Greene streets... I  
 Northeast corner of Bleecker and Mercer streets... I  
 Southwest corner of Bleecker street and Broadway... I  
 East side of Thirteenth avenue, between Bethune and West Twelfth streets... I  
 Northeast corner of Thirteenth street and Thirteenth avenue... I  
 East side of Thirteenth avenue, between Thirteenth and Fourteenth streets... I  
 Northwest corner of Second avenue and Sixty-eighth street... I  
 East side of Second avenue, between One Hundredth and One Hundred and First streets... I  
 North side of West Twelfth street, between West and Washington streets... I  
 Northwest corner of Horatio and West streets... I  
 North side of Horatio street, between West and Washington streets... I  
 West side of West street (at bulkhead), between Dey and Vesey streets... I  
 North side of Thirtieth street, between Eleventh and Thirteenth avenues... I

Amount of Pipe Laid, Stop-cocks Set and Hydrants Placed in 1893.

PIPES.			STOP-COCKS.		HYDRANTS.			
Diameter.	Lineal Feet Laid during Quarter ending December 31, 1893.	Lineal Feet Laid During Year 1893.	Diameter.	Set during Quarter ending December 31, 1893.	Set during Year 1893.	Pattern.	Placed during Quarter ending December 31, 1893.	Placed during Year 1893.
48-inch.	3,513	11,215	48-inch.	1	1	No. 1.	7	15
36-inch.	.....	1,120	36-inch.	.....	1	"A" Hydrants	41	141
30-inch.	.....	61	30-inch.	.....	.....	Double Nozzle.	56	110
20-inch.	.....	727	20-inch.	.....	1	Totals.....	104	266
12-inch.	1,818	8,268	12-inch.	17	26			
6-inch.	13,711	48,138	6-inch.	42	112			
4-inch.	78	118	4-inch.	1	3			
Totals..	19,120	69,647	Totals..	61	144			

Summary, 1893.

PIPES.				STOP-COCKS.			HYDRANTS.				
Diameter.	Lineal Feet Laid to Dec. 31, 1892.	Lineal Feet Laid from Dec. 31, 1892, to Dec. 31, 1893.	Total Lineal Feet laid to Dec. 31, 1893.	Diameter.	Set to Dec. 31, 1892.	Set from Dec. 31, 1892, to Dec. 31, 1893.	Total Set to Dec. 31, 1893.	Pattern.	Set to Dec. 31, 1892.	Set from Dec. 31, 1892, to Dec. 31, 1893.	Total Set to Dec. 31, 1893.
48-inch.	8,4771	11,215	95,986	48-inch.	19	1	20	Nos. 1, 2 and 3..	3,621	15	*3,629
36-inch.	115,182	1,120	*115,865	36-inch.	47	1	*47	Victor.....	139	.....	139
30-inch.	41,773	61	41,834	30-inch.	29	.....	29	"A".....	3,349	141	†3,473
24-inch.	11,542	.....	11,542	24-inch.	13	.....	13	"B".....	1,788	.....	1,788.
20-inch.	200,035	727	200,762	20-inch.	190	1	191	Double Nozzle.	134	110	244
16-inch.	17,130	.....	17,130	16-inch.	22	.....	22	Totals..	9,031	266	9,273
12-inch.	904,779	8,268	†910,578	12-inch.	1,669	26	†1,692				
10-inch.	6,629	.....	6,629	10-inch.	15	.....	15				
6-inch.	2,274,921	48,138	‡2,314,923	6-inch.	5,179	112	‡5,275				
4-inch.	31,387	118	§30,859	4-inch.	129	3	§131				
Totals..	3,688,149	69,647	3,746,108	Totals..	7,312	144	7,435				
Miles..	698.51	13.19	709.49								

\* Less 1 36-inch stop-cock discontinued.  
 † Less 3 12-inch stop-cocks discontinued.  
 ‡ Less 16 6-inch stop-cocks discontinued.  
 § Less 1 4-inch stop-cock discontinued.

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

A gang of men have been employed relaying mains, changing taps, etc., during the quarter, as follows:

- Pearl street and Broadway.
- One Hundred and Fortieth street, between Third and Alexander avenues.
- One Hundred and Thirty-ninth street, between Third and Alexander avenues.
- Lincoln avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-eighth streets.

One Hundred and Thirty-seventh street, between Third and Lincoln avenues.  
 One Hundred and Tenth street, between intersection of Park avenue.  
 Thirtieth street, between Eleventh and Thirteenth avenues.  
 Seventieth street, between Eleventh avenue and Hudson River Railroad.  
 Bank street, between West and Washington streets.  
 Bethume street, between West and Washington streets.  
 Seventeenth street, between Tenth and Eleventh avenues.  
 Sixty-second street, between intersection of Avenue A.

ONE HUNDRED AND FIFTY-FIFTH STREET VIADUCT.

The abutment of the bridge across the Harlem river having been completed in June, the viaduct structure was extended to same and opened for travel October 10, 1893.

BRIDGE ACROSS SHIP CANAL AT KINGSBRIDGE ROAD.

This work was delayed until October by the filling of the canal with water, the settlement between the United States Government and their contractors on the canal work, and obtaining consent of the Secretary of War allowing the City to carry on their work and to build a temporary bridge across the canal.

The temporary bridge was completed in October, and the contractors for the new draw-bridge have since carried on their work expeditiously, and will continue during the winter with the caisson work. Owing to the change in conditions from a dry canal bed to the same filled with water, the increased amount of caisson and coffer-dam work under the contract prices will necessitate the application to the Legislature for an increased amount to be expended under chapter 232, Laws of 1892.

BRIDGE ACROSS HARLEM RIVER AT THIRD AVENUE.

A contract was entered into for this work October 16, 1893, and work has commenced on the temporary bridge. Leases of the property necessary for the temporary bridge have been made. The Commission to appraise the values of land necessary to be taken for the approaches has not as yet been appointed. The completion of the bridge depends on obtaining control of these lands.

BUILDING NEW GATE-HOUSE AND REMOVAL OF OLD GATE-HOUSE AT TENTH AVENUE AND ONE HUNDRED AND NINETEENTH STREET.

Plans and specifications for this work have been made and contracts for same were entered into November 16, 1893, and December 7, 1893, and work has commenced on the excavation and on the manufacture of the pipes.

NEW HIGH SERVICE WORKS.

The contractor for foundations of engine and boiler-house has continued work, and during this winter will complete the rock excavation for same. A contract was entered into on December 7 for the pumping engines, pumps and boilers.

HIGH SERVICE.

The pumping machinery is now used to its full capacity, and on Mondays is not able to keep up pressures. The large extent of territory supplied and the large number of new buildings has outgrown the pumping facilities, so that until the New High Service Works are completed the pressure will gradually decrease in the High Service district.

TAPS.

Number of taps put in during the quarter.....	553
Number of taps put in during the year.....	2,355

METERS.

Number of meters placed during the quarter.....	600
Number of meters placed during the year.....	3,245
Number of meters now in use.....	30,286

WASTE AND USE OF WATER.

The supply to the city at present is as follows:	
Through New Aqueduct.....	Gallons per day. 109,000,000
Through Old Aqueduct.....	60,000,000
Through Bronx river conduit.....	10,000,000
Total gallons per day.....	179,000,000
Average gallons per day during 1893.....	174,000,000
1892.....	163,000,000

—being an increase of use of 11,000,000 gallons per day, the pressures having been increased below Fourteenth street and in the Twenty-third and Twenty-fourth Wards.

The supply to the city now depends on the laying of large mains and new pumping machinery. As the streets and avenues are largely filled with subways, vaults, sewers, gas-pipes, etc., it is not practicable to increase the mains in the lower part of the city, necessitating the continuing of metering all buildings so as to stop waste and keep up pressures.

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

HEALTH DEPARTMENT, NO. 301 MOTT STREET,  
 NEW YORK, December 6, 1893.

(Enclosure.)

Hon. MICHAEL T. DALY, Commissioner of Public Works, New York City:

SIR—In compliance with your request I have to forward herewith a report of our Chemist, Edward W. Martin, on the effect of electrozone (hypo-chlorite of soda solution) upon the Croton water and upon the sewage of the town of Brewsters. You will remember that in the early part of this year I recommended that the electrozone plant be placed at the town of Brewsters, and so arranged as to treat, by means of electrozone, the sewage of the aforesaid town. The treatment of the sewage by means of a sewage disposal plant had been previously determined upon, and it had been found that the cost of a disposal plant, based upon known scientific principles, would be \$15,000. It occurred to me that the electrozone treatment would be, if anything, more efficacious for the purpose in question at Brewsters than the old method of sewage disposal, and that the cost would be considerably less. Acting upon this opinion I recommended the application of the electrozone method to the sewage disposal for the town. The cost of the plant, completed and doing the work for which it was designed, was, I believe, about \$5,000. Just one-third the proposed expenditure for the sewage plant at first contemplated.

During the months of July and August the Croton acquired a very unpleasant taste, smell and appearance. To correct this, experiments were made to ascertain the effect of electrozone solution on the affected water. The result of these experiments justified the erection of a plant, which I recommended, at Brewsters for the purpose of water purification. The report of the Chemist fully verifies the opinion formed from the preliminary tests.

I have the honor to be, respectfully yours,  
 (Signed) CYRUS EDSON, Commissioner.

HEALTH DEPARTMENT—OFFICE OF THE CHEMIST,  
 No. 301 MOTT STREET, NEW YORK.

CYRUS EDSON, M. D., Commissioner:

SIR—I have the honor to make the following report as to the effect upon Croton water and sewage of electrozone (hypo-chlorite of soda).

First—Upon water, the use of hypo-chlorite of soda as a disinfectant is not new. Of late years it has been proven that the hypo-chlorites of the alkaline earths, as lime and magnesia, and of the alkies, as soda potash and ammonia, are not only germicides, but that they rank in efficiency with bi-chloride of mercury, carbolic acid, etc., and under certain conditions are even superior, that is, 1 per cent. solution of hypo-chlorite of soda will prove more efficacious than 1 per cent. solution of bi-chloride of mercury or carbolic acid, and for these reasons:

1. Bi-chloride and carbolic acid tend to form insoluble compounds with albuminous substances. The result is that where a mass of material of this nature is brought in contact with these disinfectants that while the outside layer is disinfected, yet the very process of disinfection forms a wall beyond which the disinfectant cannot penetrate. The result is that the subsequent contact with some solvent, as water, and the breaking up of the mass, permits those bacteria, which were tuated in the interior, to propagate and produce their characteristic disease if brought in contact with man or animals.

Hypo-chlorites, on the other hand, do not tend to coagulate albuminous matter, and, therefore, their penetration is much greater.

2. Carbolic acid and bichloride often merely affect the albuminous material only physically and not chemically.

Hypochlorite, on the other hand, when brought into contact with organic matter of any kind, at once decomposes. Nascent chloride and O<sub>2</sub> is liberated, which unites with a portion of the hydrogen contained in the organic matter, and a true chemical compound is formed.

It is easy to see, therefore, that whether the organic matter be organized, as in the form of bacteria, or unorganized, as in sewage, the media upon which they feed, that it is decomposed and a new chemical compound formed. This is undoubtedly its action, either as a germicide or deodorizer.

The questions then arise: Would it be possible to add hypochlorite to a polluted water supply so as to render the water suitable for domestic uses? Would it be possible to add hypochlorite to a water supply rendered unpleasant to taste and smell (as in storage water), so as to render the water palatable? Would it be possible to add hypochlorite to sewage, or to so treat sewage so as to render it sterile?

As hypochlorites have heretofore been produced, the cost would have forbidden its use; but by means of the action of a current of electricity on a solution of salt or sea-water, hypochlorites can be produced in any quantity, dependent only upon the amount of electricity used.

This is the so-called "Electrozone," and is made by passing a current of electricity, by means of suitable electrode, through a solution of salt in water or through sea-water.

According to your instructions I proceeded to Brewsters, Putnam County, New York, in August last, fitted up a bacteriological laboratory and a chemical laboratory at the Brewsters house in that village, and have from that time until the first of November made an exhaustive series of experiments and analyses, both bacteriological and chemical, to determine the value of the electrozone as a purifier of the Croton water, and as a means of preventing sewage from contaminating our water supply.

The plant for the production of the electrozone is situated in the Village of Brewsters, about 500 feet from the depot of the Harlem River Railroad, and about 1,000 feet from the East Branch of the Croton river, and consists of the engines and dynamos necessary to produce the desired current and tanks in which to produce the electrozone. A pipe was laid from the tanks to the Croton river, at a point about 200 feet above the Red bridge. This pipe was continued across the river, about 100 feet wide at this point. This part of the pipe was perforated with small holes, about 1/8 of an inch in diameter. A meter was placed in the pipe line, so that the amount of electrozone used could be measured. A branch from this pipe connected with a perforated pipe across Tonetta Brook, about 500 feet from its junction with the Croton, and by a suitable arrangement of valves the electrozone could be measured, and discharged either into Tonetta Brook or into the East Branch (see diagram). On Tonetta Brook, about 100 feet below the pipe, a dam was constructed containing two 12-inch pipes; this enabled me to accurately measure the flow of water in the brook at the time experiments were made or samples taken. I was, therefore, enabled to determine: First, the amount of electrozone which passed into either the East Branch or Tonetta Brook, and, of course, by chemical analyses of samples taken at time of experiment, of the amount of available chlorine contained in the electrozone; approximately the amount of water flowing down the East Branch, and accurately the amount of water flowing down Tonetta Brook at any given time.

Tonetta Brook was selected as giving such varying conditions as would not be obtained in the East Branch. Besides, Tonetta Brook contained a very much larger number of bacteria, and would, therefore, be a more severe test of the efficacy of the electrozone than a purer stream, such as the East Branch, would.

The conclusion drawn in this report are from the result of many hundred chemical and bacteriological analysis made almost daily, so that all possible variations of summer and fall weather were obtained. From the results of the bacteriological and chemical analysis it is evident that the action of electrozone added to water in suitable quantities, dependent of course upon its character:

1. Renders it sterile.
2. Induces sedimentation.
3. Removes completely the odor and taste due to the decomposition of organic matter, as in storage water.
4. Tends to render water colored from peaty bogs, or from the decomposition of organic matter, colorless.
5. The electrozone is transformed by its action upon the organic matter to ordinary salt.

Therefore, I am of the opinion that if plants for the production of electrozone are erected at the reservoirs, and at Croton lake, when the water enters the old and new aqueducts, and the electrozone is discharged into the water at these points, that the water will be purified, as follows:

1. Removal of the intensely disagreeable odor and taste, common to all storage water.
2. Removal of the greater part of the yellow color due to storage water and to water from peaty bogs.
3. Removal of a very large amount of the suspended matter by means of the sedimentation induced.
4. Oxidation of much of the nitrogenous organic matter, with a marked effect in the destruction of bacteria.

Second—As to the action of the electrozone upon sewage. Experiments were made as to the action of the electrozone upon sewage in two ways.

1. The additions of certain amounts to the sewage in the sewer.
2. Submitting the sewage to the action of the electric current.

First—Addition to the sewage in the sewer. The main sewer of Brewsters runs past the electric station. In the station a tank was built of a capacity of 1,000 gallons. This was filled with water, salt was added in sufficient quantities to make the solution one containing 2 per cent. of salt. The electric current was now passed through until the solution in the tank contained about 40 grains of hypochlorite to the gallon. After this the solution was run into the sewer at the rate of about 50 gallons per hour, the flow of the sewer being about 200 gallons per hour.

The sewage, after this addition of the electrozone, as it was discharged upon the surface of the ground and into the ditches which acted as conduits to the filter bed, was almost sterile and perfectly odorless.

Second—The tank was filled with sewage, sufficient salt added so that the sewage contained about 2 per cent. of salt. The electric current was passed through and the following results were obtained, samples being taken for bacteriological analyses every 15 minutes:

- a. Before treatment 10 million bacteria per c. c.
- b. After 1 hour and 30 minutes the sewage contained no bacteria, or, in other words, was sterile.

These experiments and analyses were repeated many times with the same results. Therefore, as to the sewage, I am of the opinion that by the addition of electrozone to the effluent from settling tanks, or by the treatment of the strained sewage to which salt has been added by a current of electricity, as in the manufacture of electrozone, that the said effluent or the strained sewage can be rendered odorless and sterile, or nearly so, that in either case it could be run upon the surface of the ground at points even contiguous to the Croton river or its tributaries. The results as given and the conclusions reached are not from one or two experiments, but from the results of many experiments and analyses under conditions as to temperature and rainfall which would give every possible variation, and such a large number of facts, as to render the conclusions reached nearly positive.

Respectfully submitted,  
 (Signed) EDWARD A. MARTIN, Chemist.

Document "E."

REPORT OF THE WATER PURVEYOR.

DEPARTMENT OF PUBLIC WORKS,  
 WATER PURVEYOR'S OFFICE, NO. 31 CHAMBERS STREET, ROOM 1,  
 NEW YORK, January 1, 1894.

Hon. MICHAEL T. DALY, Commissioner of Public Works:

SIR—I respectfully submit the following report of the transactions of the Bureau of Water Purveyor for the quarter ending December 31, 1893, followed by a summary of the work of the bureau for the same year.

REPORT FOR THE QUARTER.

RECEIPTS.

The following amounts have been received and deposited with the City Chamberlain:

For the construction of vaults.....	\$20,742 14
For work and materials furnished.....	5,939 11
Total.....	\$26,681 25

Vouchers in payment for work, materials and salaries, amounting in the aggregate to one million sixty-three thousand one hundred and sixty-four dollars and ninety-eight cents, were transmitted and charged to the following accounts:

EXPENDITURES.	
Repairs and Renewal of Pavements and Regrading	\$106,332 92
Repairs and Renewal of Pavements and Regrading—Salaries, 1893	3,616 48
Repaving Streets and Avenues, 1890	28,720 55
Repaving Streets and Avenues, 1891	25,809 08
Repaving Streets and Avenues, 1893	64,634 15
Repaving Streets and Avenues—Salaries	4,686 75
Public Drinking-hydrants	263 71
Public Drinking-hydrants—Salaries	300 00
Repairing and Renewal of Pipes, Stop-cocks, etc.	31,601 59
Repaving (chapter 346, Laws of 1889), 1889	5,340 34
Repaving (chapter 346, Laws of 1889), 1890	20,186 05
Repaving (chapter 346, Laws of 1889), 1891	12,294 09
Repaving (chapter 35, Laws of 1892), 1892	45,789 03
Repaving (chapter 35, Laws of 1892), 1893	440,340 11
Street Improvement Fund	234,558 04
Restoring and Repaving—Special Fund—Department of Public Works	38,679 09
Contingencies—Department of Public Works	13 00
<b>Total</b>	<b>\$1,063,164 98</b>

**PERMITS ISSUED.**  
 43 for the construction of vaults.  
 55 for repairs to vaults.  
 44 for the erection of guy posts.  
 102 for building fires on the streets.  
 23 for repairs to pavements at owners expense.  
 53 for building fires under boilers for hoisting purposes.  
 And under resolution of the Board of Aldermen, approved April 7, 1893, to Joseph Sloan, to lay a crosswalk across Columbus avenue, in front of No. 309, at his own expense.

**REPAIRS AND RENEWAL OF PAVEMENTS AND REGRADING.**  
 The force employed in making repairs to street pavements averaged as follows:  
 In October 235 mechanics, 269 laborers, 81 horses and carts, 4 teams.  
 In November 270 " 322 " 94 " 4 "  
 In December 271 " 321 " 95 " 4 "  
 The work done by this force consisted mainly in taking up and relaying 144,666 square yards of stone-block pavement. Under orders given to the various asphalt paving companies, 843 square yards of asphalt pavement were repaired.

**REPAIRING AND RENEWAL OF PIPES, STOP-COCKS, ETC.**  
 The force employed averaged as follows:  
 In October 37 mechanics, 96 laborers, 17 horses and carts.  
 In November 37 " 96 " 17 "  
 In December 36 " 96 " 17 "  
 The following is a summary of the principal work performed by this force:  
 193 old fire-hydrants were taken out and new ones put in place.  
 3 new fire-hydrants were put in.  
 1,095 fire-hydrants were repaired.  
 319 stop-cocks were repaired.  
 263 taps were shut off.  
 424 defects in Croton water-mains were repaired.  
 1,455 square yards of pavement were repaired.  
 298 feet of old water-mains were relaid.  
 36 feet of new water-mains were laid.

**PUBLIC DRINKING-HYDRANTS.**  
 12 public drinking-hydrants were repaired, and water was shut off from all public drinking-hydrants in the City, late in December, so as to prevent damage to them by frost.

**STREET OPENINGS.**  
 The following is a statement of work done under the supervision of the General Inspector of Street Openings:  
 4,862 openings in the pavement were made to repair mains other than Croton water-mains, and to make repairs to connections for gas, steam, sewer, electric-lights and subways and to put in new connections therewith.  
 506 notices were sent to corporations and others to repair bad places in the pavements where such openings had been made.  
 368 such places were repaired.  
 8.12 miles of gas-mains were laid.  
 17 miles of subways were laid.

**CONSTRUCTION OF NEW PAVEMENTS.**  
 The following is a list of paving and repaving contracts completed, classified according to the kind of pavement laid, and the fund or appropriation under which the work was authorized:

**REPAVING STREETS AND AVENUES.**  
*With Granite Blocks.*

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Third avenue	Fifty-ninth to Ninety-sixth street	46,930.0	9,840.0
Park Row	Frankfort street to and including Chatham Square	10,841.0	1,904.5
Eleventh street	West street to Hudson river (where not under land grant)	947 0	312.0
<b>Total (including crosswalks)</b>		<b>58,718.0</b>	<b>12,056.5</b>

Length in miles, 2.283.

**REPAVING (CHAPTER 449, LAWS 1889).**  
*With Granite Blocks.*

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Eleventh street	West street to Hudson river	883.1	256.0
<b>Total</b>		<b>883.1</b>	<b>256.0</b>

Length in miles, .048.

**REPAVING (CHAPTER 346, LAWS OF 1889).**  
*With Granite Blocks.*

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Park Row	Frankfort street to Broadway	5,583.2	977.8
Beekman street	Park Row to Pearl street	3,340.2	1,525.0
<b>Total (including crosswalks)</b>		<b>8,923.4</b>	<b>2,502.8</b>

Length in miles, .474.

**REPAVING (CHAPTER 35, LAWS OF 1892).**  
*With Granite Blocks.*

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Third avenue	Ninety-sixth to One Hundred and Twenty-ninth street	46,194.7	8,784.7
Fourth avenue	Thirty-second to Thirty-fourth street, and from Fortieth to Forty-second street	7,155.5	1,101.3
Broadway	Thirty-fifth to Forty-second street	9,358.0	1,900.0
Bleecker street	Crosby street to Eighth avenue	16,701.4	5,069.4
Canal street	Bowery to East Broadway	7,660.0	1,708.4
<b>Total (including crosswalks)</b>		<b>87,069.6</b>	<b>18,563.8</b>

Length in miles 3.516.

*With Asphalt.*

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
One Hundred and Twenty-third street	Seventh to Eighth avenue	2,682.2	820.9
One Hundred and Twenty-seventh street	Park to Fifth avenue	2,940.2	884.0
Fifty-eighth street	Sixth to Seventh avenue	2,770.2	831.6
Seventy-sixth street	Central Park, West, to Boulevard	6,624.9	1,986.6
Twenty-seventh street	Fifth to Sixth avenue	2,957.8	905.6
Twenty-ninth street	Third to Lexington avenue	1,409.4	442.0
Boulevard (westerly side)	Ninety-second to One Hundred and Eighth street	16,265.4	4,396.0
Thirty-fourth street	Fourth to Eighth avenue	14,848.8	3,438.2
Avenue B	Houston to Fourteenth street	11,079.7	3,304.8
Eleventh street	Sixth to Seventh avenue	2,689.3	856.9
Eighth street	Avenue B to Avenue C	2,331.3	697.3
New street	Wall to Beaver street	1,976.4	860.6
Seventy-sixth street	Lexington to Third avenue	1,446.4	434.0
Sixty-third street	Madison to Park avenue	1,446.5	431.8
<b>Total</b>		<b>71,468.5</b>	<b>20,240.3</b>

Length in miles, 3.833.

**STREET IMPROVEMENT FUND.**  
*With Granite Blocks.*

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Sixty-fourth street	West End avenue to Hudson River Railroad	765.7	235.0
One Hundred and Fortieth street	Seventh to Edgecombe avenue	3,926.8	1,182.7
One Hundred and Twenty-first street	Eighth to Ninth avenue	2,528.0	759.0
Seventy-second street	Eastern Boulevard to East river	2,942.3	662.0
One Hundred and Eighteenth street	Madison to Fifth avenue	1,483.0	445.0
One Hundred and Fifty-sixth street	Amsterdam to St. Nicholas avenue	1,161.0	356.0
Sixty-sixth street	Columbus avenue to Boulevard	323.2	98.4
One Hundred and Forty-eighth street	Amsterdam avenue to Boulevard	2,690.0	807.4
One Hundred and Forty-sixth street	" " "	2,685.5	808.0
One Hundred and Thirty-sixth street	Fifth to Seventh avenue	5,848.5	1,767.5
<b>Total (crosswalks included)</b>		<b>24,355.0</b>	<b>7,121.0</b>

Length in miles, 1.348.

*With Asphalt.*

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Manhattan avenue	One Hundred and Third to One Hundred and Fifth street	1,970.0	422.1
Ninety-seventh street	Boulevard to West End avenue	1,184.0	355.3
One Hundred and Forty-third street	Convent to Amsterdam avenue	1,264.0	380.0
One Hundred and Forty-fourth street	Convent avenue to Boulevard	3,948.0	1,185.1
One Hundred and Fifty-third street	Amsterdam avenue to Boulevard	2,710.0	809.0
<b>Total</b>		<b>11,076.0</b>	<b>3,151.5</b>

Length in miles, .597.

*Macadam Pavement.*

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Fort George avenue	Amsterdam to Eleventh avenue	10,950.0	1,775.0
<b>Total</b>		<b>10,950.0</b>	<b>1,775.0</b>

Length in miles, .336.

**SUMMARY OF THE BUSINESS OF BUREAU FOR THE YEAR 1893.**  
**RECEIPTS.**  
 The following is a statement of money received; all of which has been deposited with the City Chamberlain:  
 For the construction of vaults \$113,154 65  
 For work done and materials furnished 30,156 38  
**Total \$143,311 03**

This amount is more than \$50,000 in excess of the sum which was required to pay the salaries of the following employees of the department in this bureau for the whole of the year 1893, viz.:  
 The Water Purveyor and three clerks in the Water Purveyor's office; the Consulting Engineer and the Assistant Engineer and all the employees in that office; the General Inspector of Street Openings and the clerks and inspectors in his office; the inspectors of vaults and public drinking hydrants and all the inspectors of paving—about sixty in number—engaged on paving contracts, etc.

**EXPENDITURES.**  
 Vouchers in payment for work done, materials furnished, salaries of officers, wages of employees, etc., were drawn and charged to the following accounts, viz.:

Repairing and Renewal of Pipes, Stop-cocks, etc., 1892	\$2,597 12
Repairing and Renewal of Pipes, Stop-cocks, etc., 1893	117,906 52
Repairs and Renewal of Pavements and Regrading, 1892	37,261 49
Repairs and Renewal of Pavements and Regrading, 1893	255,554 09
Repairs and Renewal of Pavements and Regrading—Salaries, 1892	147 00
Repairs and Renewal of Pavements and Regrading—Salaries, 1893	15,260 42
Repaving Streets and Avenues, 1890	45,432 35

Repaving Streets and Avenues, 1891.....	\$56,103 70
Repaving Streets and Avenues, 1892.....	18,883 35
Repaving Streets and Avenues, 1893.....	140,123 83
Repaving Streets and Avenues—Salaries, 1892.....	87 50
Repaving Streets and Avenues—Salaries, 1893.....	11,960 74
Public Drinking Hydrants, 1892.....	215 76
Public Drinking Hydrants, 1893.....	1,862 02
Public Drinking Hydrants—Salaries, 1893.....	1,200 00
Repaving (chapter 346, Laws of 1889), 1889.....	17,766 23
Repaving (chapter 346, Laws of 1889), 1890.....	47,267 37
Repaving (chapter 346, Laws of 1889), 1891.....	29,498 69
Repaving (chapter 35, Laws of 1892), 1892.....	259,084 15
Repaving (chapter 35, Laws of 1892), 1893.....	1,009,343 23
Street Improvement Fund.....	482,375 23
Restoring and Repaving—Special Fund—Department of Public Works.....	84,389 12
Boulevards, Roads and Avenues, Maintenance of—For Resurfacing Sixth Avenue.....	27,305 36
Contingencies—Department of Public Works.....	55 25
<b>Total.....</b>	<b>\$2,661,680 52</b>

PERMITS ISSUED.

214 for the construction of vaults.  
 203 for repairs to vaults.  
 205 for setting guy-posts.  
 446 for building fires in the streets for heating tar, etc.  
 239 for placing engines on the streets, for building purposes.  
 63 for repairing pavements at applicant's expense.  
 Also the following special permits, authorized by the Board of Aldermen :  
 Resolution of March 27, 1893, to Gerson Stein, to lay a crosswalk, at his own expense, across One Hundred and Twenty-fifth street, in front of No. 149.  
 Resolution of December 30, 1892, to Yonkers City Ice Company, to place a platform scale at the bulkhead-line on the south side of Pier 43, East river.  
 Resolution of June 29, 1893, to C. V. Halsey, to lay a crosswalk, at his own expense, across Twenty-third street, between Fifth and Sixth avenues.  
 Resolution of June 15, 1893, to Brokaw Brothers, to lay crosswalks, at their own expense, across Fourth avenue, from their store to Cooper Union, and across Livingston place, south of Astor place.  
 Resolution of August 23, 1893, to the Sicilian Asphalt Paving Company, to lay an asphalt pavement in Cedar street, from William street to a point 150 feet easterly, at property owners' expense.  
 Resolution of April 7, 1893, to Joseph Sloan, to lay a crosswalk, at his own expense, across Columbus avenue, in front of No. 309.

REPAIRS AND RENEWAL OF PAVEMENTS AND REGRADING.

The force employed in making repairs to stone-block pavements during 1893 averaged as follows :  
 162 mechanics, 179 laborers, 53 horses and carts, 3 teams.  
 The principal work done by this force consisted in taking up and relaying 302,642 square yards of pavement at 6,894 different locations and repairing 659 crosswalks. 1,136.7 square yards of asphalt pavement were repaired by the different asphalt paving companies where damaged by bon-fires, etc., and under contracts awarded in the latter part of the year 1892, 30,616.7 square yards of stone-block pavement were taken up and relaid in the following-named streets :

	Square Yards.
Pearl street, from Fulton street to Hanover Square.....	6,790.8
Rector street, from Broadway to Church street.....	513.0
Warren street, from Broadway to College place.....	3,326.6
Murray street, from Broadway to College place.....	3,234.9
Dey street, from Broadway to Church street.....	995.7
Spruce street, from Nassau to William street.....	821.9
Maiden lane, from Broadway to William street.....	2,237.2
Nassau street, from Beekman to Fulton street.....	960.6
Ann street, from Park Row to Nassau street.....	798.9
Roosevelt street, from New Chambers to Cherry street.....	949.0
Seventeenth street, from First to Second avenue.....	1,854.7
Twentieth street, from Fourth avenue to Broadway.....	1,891.6
Twenty-second street, from Fourth to Lexington avenue.....	1,455.9
Twenty-second street, from Fifth avenue to Broadway.....	408.3
Thirty-first street, from Lexington to Fifth avenue.....	4,377.6
<b>Total.....</b>	<b>30,616.7</b>

Making the total area of pavement relaid during the year 334,395.4 square yards.  
 The following is a list of locations of places repaired by the street repair force :

Streets Relaid.

Nineteenth street, between Broadway and Fifth avenue.  
 Nineteenth street, between Eleventh and Thirteenth avenues.  
 Twenty-first street, between Eleventh and Thirteenth avenues.  
 Twenty-second street, between Eleventh and Thirteenth avenues.  
 Twenty-fifth street, between Fourth and Lexington avenues.  
 Twenty-fifth street, between Third and Lexington avenues.  
 Twenty-seventh street, between Second and Third avenues.  
 Thirty-second street, between Fifth avenue and Broadway.  
 Thirty-second street, between Sixth avenue and Broadway and intersection Sixth avenue, east side.  
 Thirty-sixth street, between Broadway and Seventh avenue.  
 Thirty-sixth street, between Seventh and Eighth avenues.  
 Thirty-sixth street, between Lexington and Park avenues.  
 Fortieth street, between Broadway and Sixth avenue.  
 Fiftieth street, between Lexington and Third avenues.  
 Fifty-fourth street, between Broadway and Eighth avenue.  
 Fifty-sixth street, between Broadway and Seventh avenue.  
 Sixty-third street, between Columbus and Amsterdam avenues.  
 Seventy-fourth street, between Third and Lexington avenues.  
 Seventy-sixth street, between Second and Third avenues.  
 Seventy-eighth street, between Second and Third avenues.  
 Eighty-fifth street, between Amsterdam and Columbus avenues.  
 One Hundred and Third street, between Park and Lexington avenues.  
 One Hundred and Third street, between Lexington and Third avenues.  
 Broadway, between Fiftieth and Fifty-first streets, east side.  
 Broadway, between Fifty-seventh and Fifty-eighth streets, east side.  
 Elm street, between Worth and Pearl streets.  
 Pelham Square, between Monroe and Cherry streets, with second-hand granite blocks.

Streets Relayed One-half the Block.

Catharine street, between Division street and East Broadway, south side.  
 Catharine street, between East Broadway and Henry street, south side, and intersection Henry street.  
 Duane street, between Elm and Centre streets, one-half south side.  
 Lawrence street, between Amsterdam avenue and One Hundred and Twenty-sixth street, north side.  
 Thirty-second street, between Third and Lexington avenues, west one-half.  
 Thirty-ninth street, between Broadway and Sixth avenue, north one-half.  
 One Hundred and Eighth street, between Lexington and Third avenues, east one-half.

Avenues Relayed.

Central Park, West, between Eighty-sixth and Eighty-seventh streets, west side.  
 Central Park, West, between Eighty-seventh and Eighty-eighth streets, west side.  
 Central Park, West, between Eighty-eighth and Eighty-ninth streets, west side.  
 Central Park, West, between One Hundred and Third and One Hundred and Fourth streets, west side.  
 West End avenue, between Eighty-eighth and Eighty-ninth streets.  
 Amsterdam avenue, between Eightieth and Eighty-first streets, west side.  
 Amsterdam avenue, between Eighty-first and Eighty-second streets, east and west sides.  
 First avenue, between Fifty-seventh and Fifty-eighth streets.  
 First avenue, between Seventy-seventh and Seventy-eighth streets.  
 First avenue, between Seventy-eighth and Seventy-ninth streets.  
 First avenue, between Seventy-ninth and Eightieth streets, west side.  
 First avenue, between Ninety-ninth and One Hundredth streets, west side.  
 Second avenue, between Twenty-third and Twenty-fourth streets, east and west sides.

Second avenue, between Ninety-second and Ninety-third streets.  
 Fifth avenue, between Fifty-seventh and Fifty-eighth streets.  
 Tenth avenue, between Forty-first and Forty-second streets.  
 Tenth avenue, between Forty-second and Forty-third streets, west side.  
 Twelfth avenue, between Thirty-fourth and Thirty-fifth streets.  
 Thirteenth avenue, between Thirteenth and Fourteenth streets, east side.  
 Park avenue, between Eighty-second and Eighty-third streets, east side.

Intersections Relaid.

First avenue and Seventy-seventh street.  
 First avenue and Seventy-ninth street.  
 First avenue and Seventh street.  
 First avenue and Eighth street.  
 Second avenue and Seventy-ninth street.  
 Second avenue and Ninety-first street, west side.  
 Fifth avenue and Thirty-fourth street, south side.  
 Fifth avenue and Fifty-seventh street, west side.  
 Fifth avenue and Fifty-eighth street, west side.  
 Sixth avenue and Nineteenth street.  
 Sixth avenue and Twentieth street.  
 Sixth avenue and Twenty-first street.  
 Sixth avenue and Twenty-second street.  
 Sixth avenue and Twenty-third street, east side.  
 Sixth avenue and Forty-second street, west side.  
 Sixth avenue and Thirty-eighth street.  
 Sixth avenue and Waverley place.  
 Ninth avenue and Forty-eighth street, east side.  
 Tenth avenue and Fifty-second street.  
 Twelfth avenue and Gansevoort street.  
 Twelfth avenue and Seventy-ninth street.  
 Eleventh avenue and Twenty-first street.  
 Eleventh avenue and Twenty-sixth street.  
 Thirteenth avenue and Twelfth street.  
 Amsterdam avenue and Eighty-first street, east and west sides.  
 West End avenue and Eighty-first street, east and west sides.  
 Madison avenue and Thirty-fourth street, south side.  
 Lexington avenue and Ninety-first street, south side.  
 Lexington avenue and Eighty-seventh street.  
 Lexington avenue and One Hundred and Twenty-fourth street, north side.  
 Greenwich and Liberty streets.  
 Greenwich avenue and Eleventh street, east side.  
 Washington and Fourteenth streets, south side.  
 Duane and Elm streets.  
 Park Row and New Chambers street, east side.  
 Canal street and East Broadway, north side.  
 Sullivan and Watts streets.  
 Greenwich and Chambers streets.  
 Greenwich and Franklin streets.  
 Grand and Orchard streets.  
 Grand and Forsyth streets.  
 West and Jane streets, east and west sides.  
 West and Horatio streets.  
 West and Gansevoort streets.

Streets Repaired.

Astor place, between Broadway and Lafayette place.  
 Bank street, between West street and Thirteenth avenue.  
 Bethune street, between West street and Thirteenth avenue.  
 Broom street, between Mott and Mulberry streets.  
 Beekman place, between Forty-ninth, Fiftieth and Fifty-first streets.  
 Broadway, between Waverly and Clinton places, west side.  
 Broadway, between Ninth and Tenth streets, east side.  
 Broadway, between Twenty-second and Twenty-third streets, west side.  
 Broadway, between Twenty-third and Twenty-fourth street, west side.  
 Broadway, between Twenty-fourth and Twenty-fifth street, west side.  
 Broadway, between Fifty-second and Fifty-third street, west side.  
 Broadway, between Fifty-seventh and Fifty-eighth streets, east side.  
 Broadway, between One Hundred and Thirty-first and One Hundred and Thirty-second street, east side.  
 Broadway, between One Hundred and Thirty-second and One Hundred and Thirty-third street, east side.  
 Center Market place, between Grand and Broome streets.  
 Catharine street, between Division street and East Broadway.  
 Catharine street, between East Broadway and Henry street.  
 Cliff street, between John and Fulton streets.  
 Clinton place, between Broadway and Mercer street.  
 Cherry street, between Market and Pike streets.  
 Collister street, between Huber and Laight streets.  
 Center street, between Grand and Broome streets.  
 College place, between Chambers and Warren street.  
 Church street, between Chambers and Murray streets.  
 Duane street, between Broadway and Church street.  
 Dey street, between Washington and Greenwich streets.  
 Dey street, between Washington and West streets.  
 Elm street, between Howard and Canal streets.  
 Greenwich street, between Liberty and Cortlandt streets.  
 Great Jones street, between Broadway and Bowery.  
 Gouverneur slip, between Water and Front streets.  
 Hudson street, between Spring and Canal streets.  
 Houston street, between Greenwich and Washington streets.  
 Houston street, between Washington and West streets.  
 Jay street, between Hudson and Greenwich streets.  
 James Slip, between Cherry and South streets.  
 James Slip, between Front and South streets.  
 Little West Twelfth street, between West street and Thirteenth avenue.  
 North William street, between Park Row and Frankfort street.  
 Nassau street, between Beekman and Ann streets.  
 Nassau street, between Spruce and Beekman streets.  
 Nassau street, between John and Fulton streets.  
 Pearl street, between Fulton and Beekman streets.  
 Pearl street, between Elm and Centre streets.  
 Pearl street, between Park Row and Park place.  
 Platt street, between William and Gold streets.  
 Prince street, between Mott and Mulberry streets.  
 South Fifth avenue, between Third and Fourth streets.  
 South Fifth avenue, between Third and Bleeker streets.  
 Shinbone alley, between Bleeker and Bond streets.  
 St. Mark's place, between Second and Third avenues.  
 Temple street, between Liberty and Thames streets.  
 Worth street, between West Broadway and Church street.  
 Wall street, between William and Pearl streets.  
 Wall street, between Hanover and Pearl streets.  
 White street, between West Broadway and Church street.  
 Third street, between Avenues B and C.  
 Third street, between Goerck street and East river.  
 Fourth street, between Bowery and Second avenue.  
 Eighth street, between Second and Third avenues.  
 Ninth street, between Broadway and University place.  
 Tenth street, between Third and Fourth avenues.  
 Eleventh street, between Third and Fourth avenues.  
 Twelfth street, between Third and Fourth avenues.  
 Fourteenth street, between First and Second avenues.  
 Fifteenth street, between First avenue and Avenue A.  
 Seventeenth street, between Broadway and Fifth avenue.  
 Seventeenth street, between Eighth and Ninth avenues.  
 Eighteenth street, between Sixth and Seventh avenues.  
 Nineteenth street, between Sixth and Seventh avenues.  
 Nineteenth street, between Tenth and Eleventh avenues.  
 Nineteenth street, between Eleventh and Thirteenth avenues.  
 Twentieth street, between Sixth and Seventh avenues.  
 Twentieth street, between Tenth and Eleventh avenues.

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

Ninety-second street, between Fifth and Madison avenues.  
 Ninety-second street, between Madison and Park avenues.  
 Ninety-third street, between Amsterdam and Columbus avenues.  
 Ninety-third street, between First avenue and Avenue A.  
 Ninety-fourth street, between Lexington and Park avenues.  
 Ninety-fifth street, between Central Park, West, and Columbus avenue.  
 Ninety-fifth street, between Amsterdam and Columbus avenues.  
 Ninety-fifth street, between Madison and Park avenues.  
 Ninety-fifth street, between Park and Lexington avenues.  
 Ninety-fifth street, between Lexington and Third avenues.  
 Ninety-sixth street, between West End avenue and Riverside Drive.  
 Ninety-sixth street, between Lexington and Third avenues.  
 Ninety-ninth street, between First and Second avenues.  
 One Hundred and Fourth street, between Riverside Drive and West End avenue.  
 One Hundred and Fourth street, between Boulevard and West End avenue.  
 One Hundred and Fourth street, between Lexington and Third avenues.  
 One Hundred and First street, between First and Second avenues.  
 One Hundred and Fourteenth street, between First and Pleasant avenues.  
 One Hundred and Sixteenth street, between Eighth and St. Nicholas avenues.  
 One Hundred and Nineteenth street, between Manhattan avenue and Morningside Drive.  
 One Hundred and Twentieth street, between Fifth and Madison avenues.  
 One Hundred and Twenty-first street, between Park and Madison avenues.  
 One Hundred and Twenty-second street, between Lexington and Third avenues.  
 One Hundred and Twenty-second street, between Second and Third avenues.  
 One Hundred and Twenty-fifth street, between Second and Third avenues.  
 One Hundred and Twenty-sixth street, between First and Second avenues.  
 One Hundred and Twenty-sixth street, between Second and Third avenues.  
 One Hundred and Twenty-ninth street, between Broadway and Boulevard.  
 One Hundred and Twenty-ninth street, between Lexington and Park avenues.  
 One Hundred and Thirty-third street, between Fifth and Lenox avenues.  
 One Hundred and Thirty-third street, between Seventh and Lenox avenues.  
 One Hundred and Thirty-eighth street, between Southern Boulevard and New Haven Railroad.  
 One Hundred and Thirty-eighth street, between Boulevard and Hudson River Railroad.

*Avenues Repaired.*

First avenue, between Fourth and Fifth streets.  
 First avenue, between Seventh and Eighth streets.  
 First avenue, between Twenty-first and Twenty-second streets.  
 First avenue, between Thirty-fifth and Thirty-sixth streets.  
 First avenue, between Thirty-eighth and Thirty-ninth streets.  
 First avenue, between Thirty-ninth and Fortieth streets.  
 First avenue, between Fortieth and Forty-first streets.  
 First avenue, between Fiftieth and Fifty-first streets.  
 First avenue, between Fifty-first and Fifty-second streets.  
 First avenue, between Fifty-second and Fifty-third streets.  
 First avenue, between Fifty-third and Fifty-fourth streets.  
 First avenue, between Fifty-seventh and Fifty-eighth streets.  
 First avenue, between Sixty-first and Sixty-second streets.  
 First avenue, between Sixty-fifth and Sixty-sixth streets.  
 First avenue, between Seventieth and Seventy-first streets.  
 First avenue, between Eightieth and Eighty-first streets.  
 Second avenue, between Fifty-fourth and Fifty-fifth streets.  
 Second avenue, between Fifty-seventh and Fifty-eighth streets.  
 Second avenue, between Ninety-second and Ninety-third streets.  
 Second avenue, between One Hundred and Twenty-third and One Hundred and Twenty-fourth streets.  
 Second avenue, between One Hundred and Twenty-fourth and One Hundred and Twenty-fifth streets.  
 Fourth avenue, between Twenty-third and Twenty-fourth streets, west side.  
 Fifth avenue, between Fourteenth and Fifteenth streets.  
 Fifth avenue, between Thirty-fourth and Thirty-fifth streets.  
 Fifth avenue, between Thirty-fifth and Thirty-sixth streets.  
 Fifth avenue, between Fortieth and Forty-first streets.  
 Fifth avenue, between Forty-first and Forty-second streets.  
 Fifth avenue, between Forty-third and Forty-fourth streets.  
 Fifth avenue, between Forty-fourth and Forty-fifth streets.  
 Fifth avenue, between Forty-fifth and Forty-sixth streets.  
 Fifth avenue, between Forty-fourth and Forty-fifth streets.  
 Fifth avenue, between Fifty-sixth and Fifty-seventh streets.  
 Fifth avenue, between Fifty-eighth and Fifty-ninth streets.  
 Sixth avenue, between Twenty-seventh and Twenty-eighth streets.  
 Sixth avenue, between Thirtieth and Thirty-first streets.  
 Sixth avenue, between Thirty-fifth and Thirty-sixth streets.  
 Sixth avenue, between Thirty-eighth and Thirty-ninth streets.  
 Sixth avenue, between Forty-first and Forty-second streets.  
 Sixth avenue, between Forty-second and Forty-third streets.  
 Sixth avenue, between Forty-fifth and Forty-sixth streets.  
 Sixth avenue, between Fifty-second and Fifty-third streets.  
 Sixth avenue, between Fifty-third and Fifty-fourth streets.  
 Seventh avenue, between Nineteenth and Twentieth streets.  
 Seventh avenue, between Twenty-first and Twenty-second streets.  
 Seventh avenue, between Forty-second and Forty-third streets.  
 Eighth avenue, between One Hundred and Twenty-fourth and One Hundred and Twenty-fifth streets.  
 Eighth avenue, between One Hundred and Thirty-first and One Hundred and Thirty-second streets.  
 Eighth avenue, between One Hundred and Fifty-fifth and One Hundred and Fifty-sixth streets.  
 Eighth avenue, between One Hundred and Fifty-sixth and One Hundred and Fifty-seventh streets.  
 Ninth avenue, between Forty-third and Forty-fourth streets.  
 Tenth avenue, between Twenty-sixth and Twenty-seventh streets.  
 Tenth avenue, between Twenty-seventh and Twenty-eighth streets.  
 Tenth avenue, between Forty-sixth and Forty-seventh streets.  
 Tenth avenue, between Forty-seventh and Forty-eighth streets.  
 Tenth avenue, between Forty-eighth and Forty-ninth streets.  
 Tenth avenue, between Fifty-sixth and Fifty-seventh streets.  
 Eleventh avenue, between Twenty-seventh and Twenty-eighth streets.  
 Eleventh avenue, between Thirty-fourth and Thirty-fifth streets.  
 Amsterdam avenue, between Eightieth and Eighty-first streets.  
 Amsterdam avenue, between Eighty-first and Eighty-second streets.  
 Amsterdam avenue, between Fifty-ninth and Sixtieth streets.  
 Amsterdam avenue, between Eighty-fourth and Eighty-fifth streets.  
 Amsterdam avenue, between One Hundred and Forty-seventh and One Hundred and Forty-eighth streets.  
 Amsterdam avenue, between One Hundred and Forty-eighth and One Hundred and Forty-ninth streets.  
 Amsterdam avenue, between One Hundred and Forty-ninth and One Hundred and Fiftieth streets.  
 Amsterdam avenue, between One Hundred and Fiftieth and One Hundred and Fifty-first streets.  
 Central Park, West, between Eighty-eighth and Eighty-ninth streets.  
 Central Park, West, between Ninety-fourth and Ninety-fifth streets.  
 Central Park, West, between Ninety-fifth and Ninety-sixth streets.  
 Central Park, West, between One Hundred and First and One Hundred and Second streets.  
 Central Park, West, between One Hundred and Third and One Hundred and Fourth streets.  
 Columbus avenue, between Sixtieth and Sixty-first streets.  
 Columbus avenue, between Sixty-fifth and Sixty-sixth streets.  
 Columbus avenue, between Sixty-eighth and Sixty-ninth streets.  
 Columbus avenue, between Eighty-second and Eighty-third streets.  
 Columbus avenue, between Eighty-third and Eighty-fourth streets.  
 Columbus avenue, between Ninety-sixth and Ninety-seventh streets.  
 Depew avenue, between Forty-second and Forty-third streets.  
 East End avenue, between Eighty-third and Eighty-fourth streets.  
 Lexington avenue, between Thirty-third and Thirty-fourth streets.  
 Lexington avenue, between Sixty-fourth and Sixty-fifth streets.  
 Lexington avenue, between One Hundred and Ninth and One Hundred and Tenth streets.  
 Lexington avenue, between One Hundred and Eighteenth and One Hundred and Nineteenth streets.

Lexington avenue, between One Hundred and Twenty-third and One Hundred and Twenty-fourth streets.  
 Madison avenue, between One Hundred and Seventh and One Hundred and Eighth streets.  
 Park avenue, between Ninety-fourth and Ninety-fifth streets.  
 Park avenue, between One Hundred and Ninth and One Hundred and Tenth streets.  
 West End avenue, between Seventy-sixth and Seventy-seventh streets.  
 West End avenue, between Eighty-fourth and Eighty-fifth streets.  
 West End avenue, between Eighty-eighth and Eighty-ninth streets.  
 West End avenue, between Ninety-eighth and Ninety-ninth streets.

*Intersections Repaired.*

First avenue and Twenty-eighth street.  
 Fifth avenue and Twenty-sixth street.  
 Fifth avenue and Fifty-seventh street.  
 Sixth avenue and Twenty-sixth street.  
 Sixth avenue and Fifty-fourth street.  
 Seventh avenue and Forty-second street, west side.  
 Third avenue and Fifty-first street, west side.  
 Third avenue and Forty-fourth street, east side.  
 Avenue A and Fourth street.  
 Avenue A and Fifty-fourth street.  
 Avenue A and Fifty-fifth street.  
 Avenue B and Nineteenth street.  
 Avenue B and Eightieth street.  
 Avenue C and Sixth street.  
 Avenue D and Houston street.  
 Broadway and Twenty-second street, west side.  
 Broadway and Twenty-seventh street.  
 Broadway and Twenty-eighth street.  
 Broadway and Twenty-fifth street.  
 Broadway and Thirty-first street.  
 Broadway and Thirty-sixth street.  
 Broadway and Thirty-ninth street.  
 Broadway and Thirty-fourth street.  
 Broadway and Forty-eighth street.  
 Columbus avenue and Seventy-first street, east side.  
 Columbus avenue and Seventy-fourth street, west side.  
 Central Park, West, and One Hundred and Second street, west side.  
 Central Park, West, and One Hundred and Fourth street, west side.  
 Lexington avenue and Eighty-fourth street.  
 Madison avenue and One Hundred and Fourth street.  
 Madison avenue and One Hundred and Eighth street.  
 Park avenue and Sixty-second street.  
 Park avenue and Sixty-sixth street.  
 Park avenue and Fifty-seventh street.  
 West End avenue and Ninety-third street.  
 Bank and West streets.  
 Bethune and West streets.  
 Broadway and Franklin street, east and west.  
 East Broadway and Market street.  
 East Broadway and Pike street.  
 East Broadway and Jefferson street.  
 East Broadway and Montgomery street.  
 East Broadway and Gouverneur street.  
 Elizabeth and Spring streets.  
 Fulton and Nassau streets.  
 Fulton and Gold streets.  
 Houston and Hudson streets.  
 Perry and Fourth streets.  
 Pike and Monroe streets.  
 Wooster and Fourth streets.  
 Washington and Warren streets.  
 Washington and Chambers streets.

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

The force employed under this appropriation, engaged in making repairs to Croton water mains and pipes, fire hydrants, stop-cocks, etc., averaged during the year as follows:  
 37 mechanics, 95 laborers, and 17 horses and carts, and the principal work which this force accomplished was as follows:

- 3 new fire hydrants were put in where none existed before.
- 858 old fire hydrants were taken out and new ones put in place.
- 5,162 fire hydrants were repaired.
- 1,002 water stop-cocks were repaired.
- 747 water taps were shut off.
- 1,585 defects in water mains were repaired.
- 1,198 feet of water mains were relaid.
- 644 feet of water mains (new) were laid.
- 3,916 square yards of pavement were repaired.

PUBLIC DRINKING HYDRANTS.

148 public drinking hydrants were repaired.  
 No new ones were erected, because the appropriation made for 1893, \$2,000, was not more than enough to keep in repair such as already existed.

STREET OPENINGS.

The following is a summary of work done under the supervision of the General Inspector of Street Openings:  
 18,640 openings were made in the pavements for the purpose of repairing all mains, except Croton water mains, and to make repairs and connections for gas, sewer, water, electric lights and subways.

- 4,175 notices were sent to corporations and others to repair bad places in the pavements where such openings had been made.
- 3,258 such places were repaired.
- 21 miles of gas mains were laid.
- 35 3/8 miles of subway were laid.
- 1,994 feet of Fire Department subsidiary ducts were laid.
- 4,270 feet of Police Department subsidiary ducts were laid.
- 7.95 miles of cable railroad were built.

CONSTRUCTION OF NEW PAVEMENTS.

The following is a list of streets and avenues paved under contracts, and shows under what appropriation or fund the work was authorized:

REPAVING STREETS AND AVENUES.

*With Granite Blocks.*

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Thirteenth street	Washington street to Tenth avenue	211.3	87.5
Perry street	Washington to West street	699.8	265.8
Bethune street	Greenwich to West street	850.3	312.8
Thirty-fourth street	Eleventh avenue to Hudson river	400.7	75.0
Twenty-seventh street	Tenth to Eleventh avenue	663.3	200.0
Bowery	Chatham Square to Sixth street	24,963.5	5,600.0
Third avenue	Fifty-ninth to Ninety-sixth street	46,930.0	9,840.0
Park Row	Frankfort street to and including Chatham Square	10,481.1	1,904.5
Eleventh street	West street to Hudson river	910.0	312.0
Total		86,110.0	18,597.6

Length in miles, 3.522.

*With Asphalt.*

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Thirty-fifth street	Madison to Fourth avenue	1,452.6	438.4
Seventy-sixth street	Madison to Fifth avenue	1,501.7	452.0
One Hundred and Fifteenth street	Fifth to Sixth avenue	3,173.2	954.8
One Hundred and Twenty-second street	Sixth to Seventh avenue	2,723.3	820.0
One Hundred and Twenty-eighth street	Sixth to Madison avenue	4,797.2	1,417.9
Total		13,558.0	4,089.1

Length in miles, .774.

REPAVING (CHAPTER 35, LAWS OF 1892).

*With Granite Blocks.*

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Cedar street	Greenwich to West street	1,041.2	422.8
Rector street	Greenwich to Washington street	494.5	200.7
Morris street	Greenwich street to 102 feet east of West street	477.4	533.0
Carlisle street	Greenwich to Washington street	362.3	216.8
Fulton street	Greenwich to West street	1,413.9	451.8
Albany street	"	846.6	406.5
Battery place	"	6,394.0	396.6
Barclay street	College place to Greenwich street	626.9	180.8
Vestry street	Varick to Greenwich street	3,106.5	799.1
Howard street	Broadway to Centre street	1,678.6	459.0
Park place	Greenwich to West street	1,684.4	459.2
Cortlandt street	"	1,899.5	451.5
Worth street	Broadway to Park Row	5,556.9	1,700.7
University place	Waverley place to Fourteenth street	8,062.0	1,900.5
Washington street	Battery place to Murray street	10,629.3	3,518.9
Forty-second street	Eighth to Twelfth avenue	19,034.3	3,288.6
Fourth avenue	Bowery to Thirty-second street	52,791.7	7,202.1
"	{ Thirty-second to Thirty-fourth street and } { Fortieth to Forty-second street }	7,155.5	1,101.3
Broadway	Thirty-fifth to Forty-second street	9,358.0	1,900.0
Canal street	Bowery to East Broadway	7,660.0	1,708.4
Third avenue	{ Ninety-sixth to One Hundred and Twenty- } { ninth street }	46,194.7	8,784.7
Bleecker street	Crosby street to Eighth avenue	16,701.4	5,069.4
Twenty-eighth street	Tenth to Eleventh avenue	822.1	254.6
Total		203,901.7	41,407.0

Length in miles, 7.842.

*With Asphalt.*

Forty-first street	Fourth to Fifth avenue	2,960.3	896.2
Forty-third street	Third to Lexington avenue	1,484.2	449.0
Forty-eighth street	Seventh to Eighth avenue	2,520.2	759.0
Irving place	Fourteenth to Twentieth street	6,517.0	1,472.5
Ninth street	Fifth to Sixth avenue	3,118.0	945.8
Sixteenth street	Livingston place to 150 feet east of Avenue A	3,827.7	1,154.6
Thirtieth street	Madison to Fourth avenue	1,483.5	450.0
Ninety-second street	Columbus to Amsterdam avenue	2,762.3	829.8
One Hundred and Twenty-first street	Lenox to Seventh avenue	2,725.5	819.4
One Hundred and Twenty-sixth street	Fifth to Seventh avenue	5,896.7	1,777.3
One Hundred and Thirtieth street	Lenox to Seventh avenue	2,700.4	820.0
Fifty-second street	Broadway to Eighth avenue	1,849.1	557.7
Fifty-fifth street	Third to Madison avenue	4,293.7	1,726.4
Fifty-sixth street	Fifth to Sixth avenue	3,150.5	953.1
Fifty-eighth street	Madison to Lexington avenue	2,817.9	852.4
Nineteenth street	Fifth to Sixth avenue	3,133.1	945.6
Twenty-eighth street	"	2,827.1	881.9
Thirtieth street	Broadway to Sixth avenue	982.7	298.0
Park avenue	Sixty-eighth to Seventy-first street	5,091.0	772.7
Madison avenue	Seventy-second to Seventy-ninth street	7,144.2	1,895.0
Stanton street	Clinton to Cannon street	4,602.7	1,717.6
Columbia street	Broome to Houston street	4,370.8	1,758.1
Second street	Avenue A to Avenue D	6,740.3	2,097.3
Fifty-ninth street	Madison to Eighth avenue	13,060.7	2,875.3
Seventy-fourth street	Madison to Fourth avenue	1,246.5	382.1
Seventy-seventh street	Fourth to Lexington avenue	1,160.9	349.2
Seventy-eighth street	Madison to Fifth avenue	1,500.5	452.1
Seventy-ninth street	"	1,998.0	452.5
"	Second avenue to Avenue A	5,900.9	1,323.0
Henry street	Oliver to Rutgers street	7,362.4	2,113.4
Rutgers street	Henry street to East Broadway	834.3	238.0
Forsyth street	Grand to Houston street	5,270.0	1,975.7
Mulberry street	Broome to Bleecker street	5,321.1	1,966.7
Sixty-second street	Fifth to Madison avenue	1,499.4	452.7
Seventieth street	Lexington to Madison avenue	2,807.6	850.2
Seventy-first street	Third to Madison avenue	4,319.5	1,296.8
Seventy-third street	Eighth avenue to Boulevard	5,851.7	1,759.3
One Hundred and Twenty-third street	Seventh to Eighth avenue	2,682.2	820.9

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
One Hundred and Twenty-seventh street.	Park to Fifth avenue.....	2,940.2	884.0
Fifty-eighth street.....	Sixth to Seventh avenue.....	2,770.2	831.6
Seventy-sixth street.....	Central Park, West, to Boulevard.....	6,624.9	1,986.6
Twenty-seventh street.....	Fifth to Sixth avenue.....	2,957.8	905.6
Twenty-ninth street.....	Third to Lexington avenue.....	1,409.4	442.0
Boulevard, west side.....	{ Ninety-second to One Hundred and Eighth } street.....	16,265.4	4,396.0
Thirty-fourth street.....	Fourth to Eighth avenue.....	14,848.8	3,438.2
Avenue B.....	Houston to Fourteenth street.....	11,079.7	3,304.8
Eleventh street.....	Sixth to Seventh avenue.....	2,689.3	806.9
Eighth street.....	Avenue B to Avenue C.....	2,331.3	697.3
New street.....	Wall to Beaver street.....	1,976.4	860.6
Seventy-sixth street.....	Lexington to Third avenue.....	1,446.4	434.0
Sixty-third street.....	Madison to Park avenue.....	1,446.5	431.8
Total.....		212,800.9	61,556.7

Lengths in miles, 11.658

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

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Twenty-seventh street.....	Tenth to Eleventh street.....	2,039.0	610.0
Cedar street.....	Greenwich to West street.....	285.0	185.6
Rector street.....	" ".....	457.0	284.8
Morris street.....	" ".....	162.0	130.0
Perry street.....	Washington to West street.....	347.0	130.0
Bethune street.....	Greenwich to West street.....	1,272.0	485.5
Carlisle street.....	" ".....	318.0	187.0
Albany street.....	" ".....	434.0	412.5
Twenty-eighth street.....	Tenth to Eleventh avenue.....	1,857.0	575.7
Thirteenth avenue.....	Eighteenth to Twenty-third street.....	8,270.0	1,225.0
Thirty-fourth street.....	Eleventh avenue to Hudson river.....	3,637.2	823.0
Cortlandt street.....	Greenwich to West street.....	245.0	167.0
Washington street.....	Battery place to Chambers street.....	2,446.5	712.0
Thirteenth street.....	Washington street to Thirteenth avenue.....	3,181.4	1,005.0
Eleventh street.....	West street to Hudson river.....	883.1	256.0
Total.....		25,834.2	7,089.1

Length in miles, 1.342.

REPAVING—(CHAPTER 346, LAWS OF 1889).

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Park row.....	Frankfort street to Broadway.....	5,583.2	977.8
Beekman street.....	Park Row to Pearl street.....	3,340.2	1,585.0
Total.....		8,923.4	2,562.8

Length in miles, .474.

STREET IMPROVEMENT FUND.

Streets paved for the first time. Cost of work assessed upon adjacent property.

With Granite Blocks.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
One Hundred and First street.....	Boulevard to Riverside Drive.....	2,718.3	822.3
One Hundred and Seventeenth street.....	Fifth to Lenox avenue.....	3,156.5	937.9
Eighty-eighth street.....	Avenue A to Avenue B.....	2,200.2	677.0
Seventy-third street.....	Avenue B to East river.....	3,479.4	743.5
Charles lane.....	Washington to West street.....	639.5	411.8
Manhattan street.....	Twelfth avenue to Hudson river.....	893.0	275.0
One Hundred and Seventeenth street.....	Park to Madison avenue.....	1,366.6	410.0
One Hundred and Thirty-seventh street.....	Lenox to Seventh avenue.....	2,168.6	812.0
One Hundred and Twelfth street.....	Madison to Fifth avenue.....	1,483.0	445.8
One Hundred and Twentieth street.....	Eighth to Manhattan avenue.....	1,302.0	391.2
Sixty-eighth street.....	Eastern Boulevard to East river.....	1,844.3	559.3
Forty-third street.....	First avenue to retaining wall west of First avenue.....	182.6	55.7
One Hundredth street.....	Third to Lexington avenue.....	1,474.3	443.0
Ninety-third street.....	Amsterdam to West End avenue.....	2,372.4	711.5
Ninety-first street.....	Amsterdam avenue to Riverside Drive.....	3,694.7	1,109.0
One Hundred and Second street.....	" ".....	3,747.2	1,124.0
One Hundred and Sixty-first street.....	Amsterdam avenue to Boulevard.....	2,739.0	830.0
One Hundred and Forty-fourth street.....	Seventh to Eighth avenue.....	2,700.6	817.0
Twenty-seventh street.....	Eleventh to Twelfth avenue.....	2,072.4	694.0
Sixty-fourth street.....	West End avenue to Hudson River Railroad.....	765.7	235.0
One Hundred and Fortieth street.....	Seventh to Edgecombe avenue.....	3,026.8	1,182.7
One Hundred and Twenty-first street.....	Eighth to Ninth avenue.....	2,528.0	759.0
Seventy-second street.....	Eastern Boulevard to East river.....	2,942.3	662.0
One Hundred and Eighteenth street.....	Madison to Fifth avenue.....	1,483.0	445.0
One Hundred and Fifty-sixth street.....	Amsterdam to St. Nicholas avenue.....	1,161.0	356.0

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Sixty-sixth street.....	Columbus avenue to Boulevard.....	323.2	98.4
One Hundred and Forty-eighth street.....	Amsterdam avenue to Boulevard.....	2,690.0	807.4
One Hundred and Forty-sixth street.....	" ".....	2,686.5	808.0
One Hundred and Thirty-sixth street.....	Fifth to Seventh avenue.....	5,848.5	1,767.5
Total.....		64,639.6	19,391.0

Length in miles, 3.672.

With Trap Blocks.

Avenue B.....	Eighty-sixth to Eighty-ninth street.....	5,363.2	785.9
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Length in miles, .148.

With Asphalt.

One Hundred and Nineteenth street.....	Eighth to St. Nicholas avenue.....	970.0	292.5
Sixteenth street.....	Avenue A to Avenue C.....	4,477.0	1,325.0
One Hundred and Thirty-ninth street.....	Eighth to Edgecombe avenue.....	1,213.0	365.0
One Hundred and Thirteenth street.....	Eighth to Manhattan avenue.....	1,296.0	389.0
West End avenue.....	{ One Hundred and Fifth to One Hundred and } { Seventh street.....	1,302.0	564.8
One Hundred and Twelfth street.....	Amsterdam avenue to Boulevard.....	2,678.0	803.5
One Hundred and Twenty-sixth street.....	" ".....	2,677.0	803.5
Eightieth street.....	West End avenue to Riverside Drive.....	1,164.0	349.8
Manhattan avenue.....	{ One Hundred and Third to One Hundred and } { Fifth street.....	1,970.0	422.1
Ninety-seventh street.....	Boulevard to West End avenue.....	1,184.0	355.3
One Hundred and Forty-third street.....	Convent to Amsterdam avenue.....	1,264.0	380.0
One Hundred and Forty-fourth street.....	Convent avenue to Boulevard.....	3,948.0	1,185.1
One Hundred and Fifty-third street.....	Amsterdam avenue to Boulevard.....	2,710.0	809.0
Total.....		26,793.0	8,044.6

Length in miles, 1.523.

With Macadam.

Fort George avenue.....	Amsterdam to Eleventh avenue.....	10,950.0	1,775.0
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Length in miles, .336.

BOULEVARDS, ROADS AND AVENUES—MAINTENANCE OF—FOR RESURFACING SIXTH AVENUE.

With Macadam.

STREET.	FROM	SQUARE YARDS.	LINEAL FEET.
Sixth (Lenox) avenue.....	{ One Hundred and Tenth to One Hundred and } { Forty-fifth street.....	70,342.3	8,800.0
Total.....		26,793.0	8,044.6

Length in miles, 1.510.

Summary of Paving Work for Year 1893.

	GRANITE.		ASPHALT.		MACADAM.	
	Square Yards.	Miles.	Square Yards.	Miles.	Square Yards.	Miles.
Repaving streets and avenues.....	86,110.0	3.522	13,558.0	.774	.....	.....
Repaving (chapter 35, Laws 1892)....	203,901.7	7.842	212,800.9	11.658	.....	.....
Repaving (chapter 449, Laws 1889)....	25,834.2	1.342	.....	.....	.....	.....
Repaving (chapter 346, Laws 1889)....	8,923.4	.474	.....	.....	.....	.....
Boulevards, roads and avenues.....	.....	.....	.....	.....	70,342.3	1.510
Street Improvement Fund.....	64,639.6	3.672	26,793.0	1.523	10,950.0	.336
Total.....	389,408.9	16.852	253,151.9	13.955	81,292.3	1.846

	TRAP.		TOTAL.	
	Square Yards.	Miles.	Square Yards.	Miles.
Repaving streets and avenues.....	.....	.....	99,668.0	4.296
Repaving (chapter 35, Laws 1892)....	.....	.....	416,702.6	19.500
Repaving (chapter 449, Laws 1889)....	.....	.....	25,834.2	1.342
Repaving (chapter 346, Laws 1889)....	.....	.....	8,923.4	.474
Boulevards, roads and avenues.....	.....	.....	70,342.3	1.510
Street Improvement Fund.....	5,363.2	.148	107,745.8	5.679
Total.....	5,363.2	.148	729,216.3	32.800

Table of Areas and Lengths of the Different Kinds of Pavement in New York City Below the Harlem River January 1, 1894.

KIND OF PAVEMENT.	SQUARE YARDS.	MILES.
Specification granite.....	3,359,677.57	153.67
Square granite.....	596,036.30	21.82
Specification trap.....	1,173,808.03	62.81
Belgian trap.....	1,715,316.77	66.93
Cobble.....	35,080.64	.27
Asphalt.....	1,017,505.16	52.26
Macadam.....	984,527.70	20.80
Total.....	8,861,932.17	378.56

Respectfully,  
MAURICE FEATHERSON, Water Purveyor.

Document "F."  
REPORT OF CONSULTING ENGINEER ON PAVEMENTS.

DEPARTMENT OF PUBLIC WORKS,  
OFFICE OF THE CONSULTING ENGINEER ON PAVEMENTS,  
NO. 31 CHAMBERS STREET,  
NEW YORK, January 2, 1894.

Hon. MICHAEL T. DALY, Commissioner of Public Works:

DEAR SIR—In compliance with your instructions I would submit a statement of the work done in connection with the new pavements laid during the past year.

The following table shows the extent of the different kinds of pavement laid:

KIND OF PAVEMENT.	SQUARE YARDS OF PAVEMENT.	MILES OF PAVEMENT.
Stone.....	294,772.1	17.00
Asphalt.....	253,151.9	13.95
Macadam.....	81,293.3	1.86
Total.....	729,216.3	32.81

The total length of pavements in the city, exclusive of the Twenty-third and Twenty-fourth Wards, are as follows:

KIND OF PAVEMENT.	EXTENT IN MILES.
Stone.....	305.50
Asphalt.....	52.26
Macadam.....	20.80
Total.....	378.56

The work has progressed without interruption from strikes or want of materials.

Several main thoroughfares have been completed, among them, on the east side, Third avenue, from Fifty-ninth street to the Harlem river; the Bowery and Park Row. On the west side, Tenth avenue, from One Hundred and Fifty-fifth street northward to the Washington Bridge.

The completion of these two routes now afford to the upper part of the city and to the annexed district direct communications with the lower part of the city by well paved thoroughfares.

The benefit to manufacturers and business men will be great.

The completion of the new pavements on the avenues parallel with Broadway and Fifth avenue has drawn to them a very large traffic, that heretofore used Broadway and Fifth avenue on account of their superior pavements. This has had the effect to relieve these avenues from overcrowding and preventing "vehicles jamb" so common to them.

The cable cars are now run quicker and safer, and Fifth avenue is greatly relieved, as the heavy loaded and slow moving trucks now use the newer pavements. The extension of the new pavement has had the effect of relieving whole districts from the delays from overcrowding and jams.

This is particularly noticeable on the business streets in the lower part of the city and streets leading to ferries and depots.

Merchants, manufacturers and truckmen all bear witness to the great benefit and profit these new pavements have been to their business.

Of the 14 miles of asphalt pavement laid during the year the greater portion was in the tenement districts, east of the Bowery—

- Stanton street, from Clinton to Cannon street.
- Columbia street, from Broome to Houston street.
- Second street, from Avenue A to Avenue D.
- Henry street, from Oliver to Rutgers street.
- Rutgers street, from Henry street to East Broadway.
- Forsyth street, from Grand to Houston street.
- Mulberry street, from Broome to Bleeker street.
- Avenue B, from Houston to Fourteenth street.

These streets are occupied by the most ignorant of emigrants, whose unclean habits were a constant menace to the public health.

This danger was increased by the condition of the old pavements, which were very old and worn out and quite past repairing. The ruts and hollows were filled with decomposing filth, thrown on the pavements by the tenants, and which the most thorough Health and Police supervision could not prevent or street cleaning remove.

This liquid waste had soaked through the pavement into the gravel beneath it, which it kept saturated to a depth of several inches, giving off unwholesome and foul gas, to great danger to health.

The new asphalt pavement is waterproof, rendering this saturation impossible. The pavements can be kept clean at a fraction of the cost of cleaning the old ones, which at best were only partially cleaned.

Besides cleaning, the new pavements were flushed with water daily during the summer. Not only were these pavements a comfort to the poor people, but they were aids to the Health Department and to the Street Cleaning Department.

The asphalt paving of Twenty-sixth street, from Bellevue Hospital to Ninth avenue, has proved a great advantage and comfort to the sick people while being carried in ambulances to the hospital. The Hospital Directors claim that the ease and quickness with which patients can now be brought to them has been the means of saving lives.

Respectfully,  
STEVENSON TOWLE, Consulting Engineer.

Document "G."  
REPORT OF ENGINEER IN CHARGE OF SEWERS.

DEPARTMENT OF PUBLIC WORKS,  
OFFICE OF ENGINEER IN CHARGE OF SEWERS,  
NO. 31 CHAMBERS STREET, ROOM 9,  
NEW YORK, January 5, 1894.

Hon. MICHAEL T. DALY, Commissioner of Public Works:

DEAR SIR—In compliance with your instructions I hand you herewith my report of the transactions of the Office of the Engineer in Charge of Sewers for the quarter ending December 31, 1893.

17,748 linear feet of new sewers and 11 receiving-basins connected therewith have been built, making the present total length of the sewerage of the City 2,406,647 linear feet (455.80 miles), with 5,432 receiving-basins, which number includes 4 built under special contract as hereafter stated.

In the schedule accompanying this report you will find a detailed statement showing the status of the several contracts under charge of this office.

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

- Sewer in Nineteenth street, between Eleventh and Thirteenth avenues.
- Sewer in Seventy-eighth street, between Avenue A and East river.
- Sewer in Ninety-fourth street, between Boulevard and Amsterdam avenue.
- Sewer in Ninety-fourth street, between West End avenue and Boulevard.
- Sewer in Ninety-fifth street, between Fifth and Madison avenues.

- Sewer in Ninety-sixth street, between Madison and Park avenues.
- Sewer in Ninety-seventh street, between Madison and Park avenues.
- Sewer in Ninety-seventh street, between Madison and Fifth avenues.
- Sewer in Ninety-eighth street, between Madison and Fifth avenues.
- Sewer in Ninety-eighth street, between West End avenue and Boulevard.
- Sewer in One Hundred and First street, between Madison and Fifth avenues.
- Sewer in One Hundred and Third street, between Madison and Fifth avenues.
- Sewer in One Hundred and Fifth street, between Central Park, West, and Manhattan avenue.
- Sewer in One Hundred and Eighteenth street, between Fifth and Madison avenues.
- Sewer in One Hundred and Twentieth street, between Amsterdam avenue and Boulevard.
- Sewer in Madison avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets, and in One Hundred and Thirty-seventh, between Madison and Fifth avenues.

Sewer in Fifth avenue, between One Hundred and Thirty-seventh and One Hundred and Thirty-eighth streets, and in One Hundred and Thirty-eighth street, between Fifth and Lenox avenues.

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

Sewer in South street, between Fulton and Wall streets, etc.  
Sewer in One Hundred and Forty-sixth street, between Hudson river and Boulevard.  
Outlet sewer for Sewerage District, No. 25, through One Hundred and Sixty-seventh street and acquired lands to Harlem river.

Alteration and improvement to sewer in Goerck street, between Rivington and Stanton streets.

Alterations and improvements to sewer in North William street, between Frankfort street and Park Row.

Alteration and improvement to sewer in Sixty-third street, between Park and Madison avenues.  
Alteration and improvement to sewer in Bowling Slip, between South and Water streets, in Wall street, between South and Pearl streets, and in Front street, between Bowling slip and Wall street, and outlet sewer through Pier, old 20, East river.

Receiving basin on the southwest corner of One Hundred and Twenty-third street and Lexington avenue.

Receiving basin on the northwest and northeast corners of Seventy-sixth street and Columbus avenue.

Receiving basin on the southeast corner of One Hundred and Fifty-eighth street and Boulevard.

There are now in progress 23 contracts for new sewers, and 1 basin contract.  
1,343 receiving basins and 42,325 linear feet of sewer have been cleaned.

Yours, respectfully,

HORACE LOOMIS, Engineer in Charge of Sewers.

REPORT OF THE TRANSACTIONS OF THE OFFICE OF THE ENGINEER IN CHARGE OF SEWERS FOR THE QUARTER ENDING DECEMBER 31, 1893.

Credit to General Fund—  
Amount received for 162 permits for sewer connections ..... \$3,923 17

Engineers' Fees—  
Amount of Engineers' fees assessed on property benefited and charged to Street Improvement Fund..... \$12,173 90

Sewers—Repairing and Cleaning—  
Balance on hand, September 30, 1893..... \$26,219 29  
Vouchers transmitted to the Commissioner of Public Works—  
Pay-roll of Laborers, etc..... \$19,786 75  
Cleaning..... 1,772 31  
Material and sundries..... 3,023 94  
Outstanding liabilities (estimated)..... 1,592 16  
Balance, December 31, 1893..... 44 13  
26,219 29

Sewers—Repairing and Cleaning—Salaries—  
Balance on hand September 30, 1893..... \$2,694 06  
Vouchers transmitted to the Commissioner of Public Works—  
Pay-roll of Inspectors, etc..... \$2,425 98  
Balance, December 31, 1893..... 268 08  
2,694 06

Sewerage System—Salaries—  
Balance on hand, September 30, 1893..... \$2,120 00  
Vouchers transmitted to the Commissioner of Public Works—  
Pay-roll of Engineer, etc..... \$1,800 00  
Balance, December 31, 1893..... 320 00  
2,120 00

Boring Examinations for Grading, etc.—  
Balance on hand, September 30, 1893..... \$2,419 50  
Vouchers transmitted to the Commissioner of Public Works—  
Pay-roll of Assistant Foreman, etc..... \$2,361 50  
Balance, December 30, 1893..... 58 00  
2,419 50

Restoring and Repaving—Special Fund—  
Amount received for permits for street openings..... \$30,757 50

Street Improvement Fund—  
Vouchers transmitted to the Commissioner of Public Works—  
Pay-roll of Engineers, etc..... \$5,674 98  
Pay-roll of Inspectors, etc..... 9,321 25  
Contracts, etc..... 129,880 47  
\$144,876 70

- Work done by Mechanics and Laborers—
- 362 receiving-basins relieved.
  - 1,343 receiving-basins and culverts cleaned.
  - 22,074 linear feet of sewer cleaned.
  - 9,850 linear feet of sewer relieved.
  - 68,263 linear feet of sewer examined.
  - 98 linear feet of brick sewer rebuilt.
  - 15 linear feet of brick culvert rebuilt.
  - 129 linear feet of pipe culvert laid.
  - 45 linear feet of new pipe sewer laid.
  - 12 linear feet of spur pipe laid.
  - 23 linear feet of new curb set.
  - 4 new manholes built.
  - 1 new basin built.
  - 37 basins repaired.
  - 6 manholes repaired.
  - 126 manhole heads reset.
  - 21 basin heads reset.
  - 9 new basin heads and covers put on.
  - 28 new manhole heads and covers put on.
  - 39 new manhole covers put on.
  - 20 new basin covers put on.
  - 42 new basin grates put in.
  - 4 new basin hoods put in.
  - 932 cubic feet of brickwork built.
  - 264 square feet of flagging relaid.
  - 391 square yards of pavement relaid.
  - 4,121 cubic feet of earth excavated and refilled.
  - 109 cart-loads of earth filling.
  - 3,439 cart-loads of dirt removed.

Statement Showing the Amount of Work Done on Uncompleted Contracts for the Quarter ending December 31, 1893.

DATE.	NATURE AND LOCATION OF WORK.	ESTIMATED COST.	ESTIMATED AMOUNT OF WORK DONE.	DAYS.			REMARKS.
				Allowed.	Consumed.	Remaining.	
1893. Mar. 25	Alteration and improvement to sewer in Thirty-third street, between East river and First avenue, connecting with sewers built by the Department of Docks, and in First avenue, between Thirty-third and Thirty-fifth streets, etc.	\$18,369 00	\$7,793 25	150	103	47	
Aug. 3	Alteration and improvement to wooden box sewer at foot of Forty-second street, North river.	7,386 00	6,900 00	25	40	....	
Nov. 21	Extension of sewer outlet under Pier at foot of Forty-sixth street, East river	650 00	650 00	30	28	....	Completed but not accepted.
" 17	Receiving-basin on southeast corner Washington and Fourteenth streets	236 00	208 00	4	4	....	Completed but not accepted.
1892. Oct. 26	Sewer in Kingsbridge road, east side, between Naegle avenue and One Hundred and Seventy-fifth street, with curves in One Hundred and Seventy-fifth, One Hundred and Eighty-first and One Hundred and Eighty-fifth streets.	61,244 50	45,048 50	900	395	505	
Nov. 4	Sewer in Kingsbridge road, between Dyckman street and Naegle avenue	45,983 00	18,615 00	600	263	337	
" 7	Outlet sewer in Dyckman street, between Hudson river and Kingsbridge road.	41,076 00	700 00	500	86	414	
1893. July 8	Sewer in One Hundred and Sixtieth street, between Eleventh and Amsterdam avenues.	5,128 80	4,505 20	140	120	20	
" 13	Sewer in Twelfth avenue, east side, between Fifty-fifth and Fifty-sixth streets, and alteration and improvement to sewer in Fifty-fifth street, between Eleventh and Twelfth avenues.	7,073 50	4,628 50	100	60	40	
Oct. 10	Sewer in Eighty-fifth street, between Boulevard and Amsterdam avenues	2,892 00	2,241 60	60	50	10	
" 12	Sewer in One Hundred and Eighty-third street, between Amsterdam and Eleventh avenues.	10,304 50	1,845 00	200	52	148	
Nov. 21	Sewer in Eleventh avenue, east side, between One Hundred and Seventieth and One Hundred and Seventy-second streets.	6,556 20	500 00	150	24	126	
" 28	Sewer in Amsterdam avenue, west side, between Eighty-ninth street and Ninety-second streets	1,996 20	.....	60	16	44	
1892. Aug. 6	Sewer in Amsterdam avenue, west side, between One Hundred and Seventy-third street and a point about 316.5 feet north of One Hundred and Seventy-eighth street, and on north and south sides of One Hundred and Seventy-fifth street, between Amsterdam and Wadsworth avenues.	40,659 00	15,761 50	900	554	346	
Oct. 4	Sewer in Ninety-ninth street, between Third and Park avenues.	8,857 30	8,612 50	150	270	....	Question of over-time not settled.
Aug. 28	Sewer in Avenue St. Nicholas, west side, between One Hundred and Thirty-seventh and One Hundred and Forty-first streets, and alterations and improvements to curve in One Hundred and Thirty-seventh street and Avenue St. Nicholas.	9,497 20	3,112 50	200	87	113	
" 28	Sewer in One Hundred and Thirty-eighth street, between Lenox and Seventh avenues, and in Seventh avenue, east side, between One Hundred and Thirty-eighth and One Hundred and Thirty-ninth streets.	8,120 00	7,010 00	200	92	108	
" 29	Sewer in One Hundred and Second street, between Madison and Fifth avenues	3,680 00	3,300 00	90	82	8	
Nov. 8	Sewer in Ninety-third street, between Harlem river and First avenue.	5,695 00	200 00	120	34	86	
" 10	Sewer in Sixty-second street, between Avenue A and First avenue.	6,709 50	4,112 50	150	27	123	
" 17	Sewer in One Hundredth street, between Park and Third avenues.	4,918 75	.....	120	22	98	
" 22	Sewer in One Hundred and Forty-first street, between Harlem river and Lenox avenue.	2,740 05	300 00	90	26	64	
" 24	Sewer in Seventy-seventh street, between East river and Avenue A.	11,680 00	300 00	275	8	267	Work just commenced.
Dec. 14	Sewer in Twelfth and Thirteenth avenues, between Twenty-seventh and Thirtieth streets, and in Twenty-seventh, Twenty-eighth and Twenty-ninth streets, between Eleventh and Thirteenth avenues, and alterations, etc., to sewer in Thirtieth street, between Eleventh avenue and North river	43,869 60	.....	200	8	192	Work just commenced.

NEW YORK, January 5, 1894.

Hon. MICHAEL T. DALY, Commissioner of Public Works:

DEAR SIR—Agreeable to your instructions I transmit the following as my report of the transactions of this office for the year 1893:

There have been built

Brick sewer.....	24,154 feet.
Pipe sewer.....	13,700 "
Wooden barrel sewer.....	889 "
Culvert.....	2,184 "
Total.....	40,928 feet, or 7 <sup>7</sup> / <sub>100</sub> miles.

The cost of these works, including 27,165 cubic yards of rock excavated from the sewer trenches and 68 receiving-basins connected therewith, for surface drainage, was \$375,649.78.

At the present time there is under construction

Brick sewer.....	20,990 feet.
Pipe sewer.....	5,122 "

Wooden box sewer.....	158 feet.
Culvert.....	1,202 "
Total.....	27,472 feet.

Estimated to cost \$354,238.90.

Petitions have been received for and plans and specifications are in various stages of progress for the construction of 15,910 feet of new sewer, connected with which there will be 621 feet of culvert and 20 receiving-basins.

The accompanying schedules marked A, B, C and D, etc., gives all the data with reference to work completed and in progress and proposed.

The most important of those completed during the year are the following:

One Hundred and Eighty-first street, between Amsterdam and Eleventh avenues.  
Park avenue, west side, between Ninety-fifth and Ninety-ninth streets, and in Ninety-eighth and Ninety-ninth streets, between Park and Madison avenues.

Ninety-eighth street, between Third and Park avenues.  
One Hundred and Forty-seventh street, between Boulevard and Amsterdam avenues.

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

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

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

South street, between Fulton and Wall streets, with curves in Wall street, Maiden Lane and Burling Slip, and curve to outlet sewer.

Outlet sewer for Sewerage District No. 25, through One Hundred and Sixty-seventh street and acquired lands to Harlem river.

One Hundred and Seventeenth street, between Lenox and Seventh avenues.  
One Hundred and Thirty-sixth street, between Fifth and Lenox avenues.

Fifth avenue, between One Hundred and Thirty-seventh and One Hundred and Thirty-eighth streets, and in One Hundred and Thirty-eighth street, between Fifth and Lenox avenues.

Of alteration and improvement to existing sewers, the following are worthy of mention:

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

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

Alteration and improvement to existing sewers in Burling Slip, between South and Water streets, and in Wall street, between South and Pearl streets, and in Front street at Burling Slip and Wall street, and outlet sewer through Pier, old 20, East river.

Alteration and improvement to sewer in Columbia street, between Houston and Stanton streets.  
Alteration and improvement to sewer in Goerck street, between Rivington and Stanton streets.

Alteration and improvement to sewer in Lewis street, between Rivington and Stanton streets.  
Alteration and improvement to sewer in Willett street, between Rivington and Stanton streets.

Alteration and improvement to sewer in Sixty-third street, between Park and Madison avenues.  
Alteration and improvement to wooden box sewer at Forty-second street, North river.

The latter class of work, styled alteration and improvement to existing sewers, is of more importance in a sanitary point of view than the construction of new sewers, since it consists for the most part in substituting brick sewers for those originally constructed of pipe, many years ago, in an imperfect manner. These having fallen into decay, and being very inefficient in operation and often subject to stoppages and overflows, have been a great source of annoyance, inconvenience and damage. The re-building of all of this class of sewer should be carried on as speedily as circumstances will permit, since they are located in thickly populated portions of the City, and their bad condition is a danger to the public health.

The changes of the system along the water-front consists in adapting it to the new outlets built under new piers, constructed by the Department of Docks and in pursuance of a plan adopted several years ago for removal of nuisances from the river front.

This plan has been so far accomplished that I can report that the Hudson river front is protected from the Battery to Forty-second street and the East river, with the exception of the Broad street outlet, as far east as Montgomery street.

Of the new sewers completed, I take pleasure in noting that the outlet sewer of District No. 25, through One Hundred and Sixty-seventh street and acquired lands to Harlem river, has been completed. Proceedings looking to the accomplishment of this work were started five years ago and have finally been brought to a conclusion to the great advantage of the district in question. While most of the other new works are local, yet it is proper to call attention to them, as showing that vacant property is being rapidly improved, buildings are being erected thereon and all other improvements made, which are required by a growing population.

Of the marginal sewer work which has been progressing for a number of years past, the most important is the one in South street, between Fulton and Wall streets, and the readjustment thereto of sewers in the neighboring streets.

In this portion of the City only one outlet remains to be built, viz., at Broad street. Plans for this work are made and will be commenced early in the spring.

The total length of the sewer system is now 455<sup>8</sup>/<sub>100</sub> miles, being an increase of the length reported one year ago of 6<sup>4</sup>/<sub>100</sub> miles, and connected therewith there are 5,432 basins for surface drainage.

The most important contracts now under way are as follows:

Outlet sewer in Dyckman street, between Hudson river and Kingsbridge road.  
Sewer in Kingsbridge road, between Dyckman street and Naegle avenue.

Sewer in Kingsbridge road, between Naegle avenue and One Hundred and Seventy-fifth street, with curves in One Hundred and Seventy-fifth, One Hundred and Eighty-first and One Hundred and Eighty-fifth streets.

These three together form one large outfall sewer draining about 356 acres. The total length is about 1.8 miles and is the largest sewer work undertaken for many years.

The completion of this improvement will open up for settlement and building the region around Fort George and the surrounding territory as far north as Dyckman street.

Other large works worthy of mention are:

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

Sewer in Avenue St. Nicholas, between One Hundred and Thirty-seventh and One Hundred and Forty-first streets, and alteration and improvement to curve in One Hundred and Thirty-seventh street and Avenue St. Nicholas.

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

Altogether there are now about five miles of sewer under contract; a detailed statement of all the material facts connected therewith may be found in schedule.

This is a great falling off from the amount of work being done last year at a corresponding date, when there was nearly nine (9) miles under contract, due to the fact that the sewer system is nearly completed in many portions of the city, and also to the business depression of the past season, which prevented any very extensive operations.

Three contracts have been abandoned during the year and were re-advertised and relet, viz.:

Ninety-eighth street, between West End avenue and Boulevard.  
Amsterdam avenue, west side, between Eighty-ninth and Ninety-second streets.

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

The first mentioned failure was due to the death of the original contractor, while the other two were caused by various difficulties which the contractors were unable to overcome.

The most vexatious question to decide in the final settlement of all contracts is that of overtime, so-called. This has been particularly troublesome during the past year, for the reason that there have been a greater number of such cases than usual and a greater number of days to be accounted for. In certain cases, the Department would have been justified in vacating the contracts, but where the contractor showed a disposition to finish the same, it was considered better policy to allow him to do so than to bear the expense and loss of time of reletting.

In many of these cases the alleged causes of delay urged by the contractor were frivolous and unreasonable, and were not recognized in the contract, and could not truthfully be certified to by the officers of this Department. But the impression is so strong among contractors that these charges are illegal, that they have been contested in every case when the amount is considerable. Several suits are now pending in which this is the only issue. If these charges are illegal and cannot be maintained in a Court of Law, it seems to me some other means of enforcing the time clause of sewer contracts should be adopted.

In order to settle this question, I recommend that the opinion of the Corporation Counsel be obtained as to the advisability of continuing this clause as a part of the contract.

I would further request an opinion as to whether this Department has power to extend the time of contracts beyond that named therein, before the same has expired; this being intended to meet cases where it is plain that the work will not be finished at the time agreed, but where a fair consideration of the circumstances would justify such extension.

MAINTENANCE.

The sewer system undercharge of this Department has been cleaned and kept in repair by the usual force of laborers and mechanics.

A statement of the classification of this force and the work performed by it will appear in its proper place. The contracts for cleaning of brick sewers at agreed prices have been continued, and under the same 92,963 feet of brick sewer have been cleaned; the cost of which was \$13,243.45, being an average of 14.100 cents per linear foot.

The amount spent for this class of work in 1892 was \$11,186.18.

The greater amount of work done this year is accounted for by the fact that no cleaning of any account was done in the last quarter of 1892, for lack of funds. During that time dirt accumulated, which had to be removed as soon as the new appropriation became available.

It is safe to say, that the sewer system is now in as good condition as it ever has been, but it needs constant attention to keep it so.

To afford this office information as to the general condition of the system as to cleanliness, so that funds may be spent judiciously, one gang of men has been employed in examinations.

This party examined 497,974 feet of sewer, or about 94 miles, in addition to assisting in the work of cleaning pipe-sewers, when not so employed.

The Department laborers also cleaned, by flushing, 75,244 feet of pipe-sewer, at a cost of \$6,776 or an average of 9.00 cents per foot. Altogether about 31.7 miles of sewers were cleaned at a cost of about \$20,000, averaging 12 cents per foot.

The appropriation for the year was expended as follows:

Appropriation	\$100,000 00
Pay-roll of laborers, etc.	\$77,991 00
Material, etc.	7,950 85
Work done under orders	12,421 86
Liabilities outstanding	1,592 16
	<u>99,955 87</u>
Balance	\$44 13

The laboring force is classified as follows:

Foremen	14
Assistant Foremen	2
Bricklayers	5
Timekeeper	1
Horses and wagons	6
Horses and carts	21
Laborers	48
Skilled laborer	1
Total	<u>98</u>

This force is 1/10 less than stated in my last annual report.

The reduction was made necessary by a smaller appropriation than the previous year. Furthermore, to enable the Department to meet any emergency that might call for an extra force during the summer months, when it was predicted that the cholera epidemic would break out afresh, the following members of the force were laid off for the winter months, viz.: 2 bricklayers, 2 foremen, 2 horses and wagons, 6 horses and carts, 2 skilled laborers and 14 common laborers.

A detailed statement of the services rendered and various items of work of mechanics and laborers will be found in its proper place in this report.

An examination of the complaint book shows that 1,211 complaints were received, against 1,283 for the previous year, classified as follows:

Sewers stopped	226
Basins stopped	804
Miscellaneous	181
Total	<u>1,211</u>

Of these 131 were found to be without cause or belonging to other departments or bureaus. The labor of investigation and report, however, was thrown upon our men, which caused much loss of time.

The following is a statement of the number of permits issued to connect buildings with the public sewers, and the number of permits to repair or relay old house connections.

Also the amount of money received for connecting with sewers and drains, and for restoring and repaving over sewer connections, and for restoring new pavement taken up by gas companies, subways, electric light companies, vaults, guy posts, etc., for the year 1893:	
Permits for sewer connections	803
Permits for repairing old connections	1,032
Number of buildings in the above	<u>2,619</u>

Moneys received for sewer permits	\$19,476 62
Moneys received for restoring and repaving	74,424 30
Total	<u>\$94,900 92</u>

The Draftsmen employed in this office have made 30 filed plans containing the legal data for the 126 contract plans, 82 of which were for sewers and 44 for receiving-basins, which were furnished in connection therewith. They also furnished 88 assessment lists, containing 320 maps, covering 14,516 separate pieces of property and 98 Inspector's books.

The Inspector of Cement reports as follows:

Number of specimens tested for the Water Purveyor	1,742
Number of specimens tested for the Engineer in Charge of Sewers	604
Number of specimens tested for the Bureau of Repairs and Supplies	7
Number of specimens tested for the Bureau of Street Improvements	4
Total	<u>2,357</u>

Of these, 136 samples were rejected as not complying with the specifications. The number of specimens submitted for examination exceeded those of 1892 by 76.

The party engaged in estimating the amount of rock to be excavated in sewer and grading contracts by boring, tested, in this way, 18,200 linear feet of sewer work, besides several works of street grading.

The party engaged in a re-examination, by field surveys, of the recorded levels upon our office maps, and obtaining other useful data as to sewers, having completed their labors as far as needed for the present, were discharged.

In conclusion, I desire to return thanks to the Assistant Engineers, and the members of their several parties, to the Clerks, Inspectors and other employees of this office for faithful and efficient services during the year.

Respectfully submitted,

HORACE LOOMIS, Engineer in Charge of Sewers.

WORK DONE BY LABORERS, MECHANICS, ETC., FOR YEAR ENDING DECEMBER 31, 1893.

- 1,518 receiving-basins relieved.
- 5,420 receiving-basins and culverts cleaned.
- 75,244 lineal feet of sewer cleaned.
- 22,020 lineal feet of sewer relieved.
- 497,974 lineal feet of sewer examined.
- 362 lineal feet of brick sewer rebuilt.
- 19 lineal feet of brick culvert rebuilt.
- 256 lineal feet of new pipe culvert laid.
- 66 lineal feet of new pipe sewer laid.
- 9 lineal feet of new pipe sewer relaid.
- 54 lineal feet of spur pipe laid.
- 75 lineal feet of new curb set.
- 15 lineal feet of new curb reset.
- 5 new manholes built.
- 3 new basins built.
- 100 basins repaired.
- 15 manholes repaired.
- 345 manhole-heads reset.
- 35 basin heads reset.
- 21 new basin heads and covers put on.
- 109 new manhole-heads and covers put on.
- 108 new manhole covers put on.
- 86 new basin covers put on.
- 116 new basin grates put in.
- 26 new basin hoods put in.
- 3,612 cubic feet of brickwork built.
- 716 square feet of flagging relaid.
- 1,145 square yards of pavement relaid.
- 10,754 cubic feet of earth excavated and removed.
- 278 cart loads of earth filling.
- 16,475 cart loads of dirt removed.

Contracts completed during the Year 1893.

LOCATION OF WORK.	5' cir.	BRICK. 4' cir.	WOODEN BARREL.		4'x2'8"	3'6" cir.	3'3" cir.	3'6"x2'4"	3'6"x2'	WOODEN BARREL. 3' cir.	BRICK 3' cir.	2'10"x2'6"	3'x2'	BOX. 2x2	RUBBLE CULVERT. 2x2	IRON PIPE. 16"	PIPE SEWER.		CUL- VERTS 12"	Basins.	ROCK.	TOTAL COST.	
			4' cir.	4'6"x3'8"													15"	12"					
One Hundred and Eighty-first street, between Amsterdam and Eleventh avenues, with curves in Audubon and Eleventh avenues..	....	....	....	....	....	....	....	1,175	....	....	....	....	....	....	....	....	....	....	48	2	3,458	\$14,096 00	
Alteration and improvement to sewers in Gansevoort and Horatio streets, between Thirteenth avenue and West street, and in Thirteenth avenue, between Gansevoort and Bloomfield streets. New sewer in Thirteenth avenue, between Gansevoort and Horatio streets, with outlet through pier at Gansevoort street, North river.....	....	110	....	131	1,190	....	....	401	....	....	....	....	....	....	....	....	....	3	105	182	..	....	22,985 00
Alteration and improvement to sewers in Jane and West Twelfth streets, between Thirteenth avenue and Washington street, and in Bethune street, between Thirteenth avenue and West street. New sewer in Thirteenth avenue, between Bethune and Horatio streets, with outlet through pier at West Twelfth street, North river.....	....	1,113	....	124	747	....	....	121	....	1,113	....	93	....	....	....	....	....	....	133	..	....	31,553 62	
Park avenue, west side, between Ninety-fifth and Ninety-ninth street, and in Ninety-eighth and Ninety-ninth streets, between Park and Madison avenues.....	....	....	....	....	....	....	....	....	....	....	....	....	876	....	....	....	....	....	36	2	1,707	13,059 88	
Ninety-eighth street, between Third and Park avenues.....	....	....	....	....	....	....	....	....	....	....	....	....	857	....	....	....	....	....	..	..	1,302	8,348 78	
One Hundred and Forty-seventh street, between Boulevard and Amsterdam avenue..	....	....	....	....	....	....	....	678	....	....	....	....	....	....	....	....	....	....	..	..	1,152	6,445 20	
Twelfth avenue, between Fiftieth and Fifty-second streets, connecting with outlet sewer under pier at Fiftieth street, North river, and connections with existing sewers in Fifty-first and Fifty-second streets, North river.....	....	....	....	....	668	....	253	....	....	....	51	....	....	....	....	....	....	....	47	2	....	10,192 50	

LOCATION OF WORK.	5' cir.	BRICK. 4' cir.	WOODEN BARREL.		4'x2'8"	3'6" cir.	3'3" cir.	3'6"x2'4"	3'6"x2'	WOODEN BARREL 3' cir.	BRICK 3' cir.	2'10"x2'6"	3' x 2'	Box. 2 x 2	RUBBLE CULVERT. 2 x 2	IRON PIPE, 16"	PIPE SEWER.		CUL- VERTS 12"	Basins.	ROCK.	TOTAL COST.	
			4' cir.	4'6"x3'8"													15"	12"					
One Hundred and Thirty-eighth street, between Hamilton place and Amsterdam avenue.....									58								430				969	\$5,012 21	
Alteration and improvement to sewer in Third street, connecting with sewer built by Department of Docks.....	335																		9			5,210 50	
Thirtieth avenue, east side, between Twentieth and Twenty-third streets, and alteration and improvement to sewers in Twenty-first and Twenty-second streets, between Eleventh and Thirteenth avenues.....					518			849											99	5		13,794 75	
One Hundred and Sixth street, between West End and Riverside avenues.....																	357				892	4,744 30	
One Hundred and Seventh street, between Riverside avenue and Boulevard.....									26								307				982	5,227 58	
One Hundred and Seventh street, between Manhattan and Amsterdam avenues.....									513								630		32		419	5,893 25	
One Hundred and Ninth street, between Manhattan and Columbus avenues.....																	343		30	2	514	3,602 75	
Columbus avenue, west side, between One Hundred and Eighth and One Hundred and Tenth streets, and in One Hundred and Eighth street, between Columbus and Amsterdam avenues.....									572								665		30	2	2,390	12,435 20	
Ninetieth street, between Boulevard and Amsterdam avenue.....									26								197				526	2,907 05	
Ninety-first street, between Boulevard and Amsterdam avenue.....									27								198				475	2,786 50	
One Hundred and Seventh street, between Boulevard and Amsterdam avenue.....									23								574				79	2,627 30	
One Hundred and Sixty-sixth street, between Amsterdam and Audubon avenues, with curves in Audubon avenue.....									500										54	2	3	2,938 50	
One Hundred and Ninth street, between Riverside avenue and Boulevard.....									29								240				697	3,767 10	
One Hundred and Eighteenth street, between Fifth and Madison avenues.....													400						6		1,086	5,634 67	
One Hundred and Twentieth street, between Amsterdam avenue and Boulevard.....									50								715				1,567	8,134 03	
Wooster street, east side, between West Fourth street and Washington place, and in Washington place, between Wooster and Green streets.....									280								152					2,504 00	
Seventy-eighth street, between East river and Avenue A.....														710							2,297	9,622 40	
One Hundred and Forty-eighth street, between Avenue St. Nicholas and Amsterdam avenue.....									36								688				759	4,655 93	
South street, between Fulton and Wall streets, with curves in Wall street, Maiden lane and Burling Slip, and curve to outlet sewer One Hundred and Thirty-sixth street, between Fifth and Lenox avenues.....		1,233																				18,262 25	
Outlet sewer for Sewerage District No. 25, through One Hundred and Sixty-seventh street and acquired lands to Harlem river.....		10			717			88			377					141	18				1,596	17,139 20	
Ninety-eighth street, between West End avenue and Boulevard.....									32							303					217	2,185 08	
William street, between Cedar and Pine streets.....									36								71		12	1		853 00	
Ninety-fourth street, between Boulevard and Amsterdam avenue.....									36								192				391	2,505 52	
Ninety-fifth street, between Fifth and Madison avenues.....																	391				24	1,660 00	
Ninety-seventh street, between Madison and Park avenues.....																	339					1,357 33	
Ninety-eighth street, between Madison and Fifth avenues.....																	313				6	1,441 00	
One Hundred and Third street, between Madison and Fifth avenues, with alteration and improvement to existing sewer across Madison avenue, in One Hundred and Third street.....																	357					1,608 50	
One Hundred and Forty-sixth street, between Hudson river and Boulevard.....																312	435				64	5,057 95	
Alteration and improvement to sewer in North William street, between Frankfort street and Park Row.....									396												43	3,227 00	
Nineteenth street, between Eleventh and Thirteenth avenues.....									38								120		190	1		1,493 00	
Ninety-eighth street, between West End avenue and Boulevard.....									32								303				217	2,185 08	
Ninety-third street, between Boulevard and Amsterdam avenue.....									27								200					545	2,702 00
One Hundred and First street, between Madison and Fifth avenues.....																							
Ninety-fourth street, between West End avenue and Boulevard.....									54								204					382	2,595 00
Alteration and improvement to sewer in Sixty-third street, between Park and Madison avenues.....									460										12		116	4,597 30	
Fifth avenue, between One Hundred and Thirty-seventh and One Hundred and Thirty-eighth streets, and in One Hundred and Thirty-eighth street, between Fifth and Lenox avenues.....									1,103											19	1	8,476 00	
Madison avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets, and in One Hundred and Thirty-seventh street, between Madison and Park avenues.....									646													5,166 00	
Alteration and improvement to wooden box sewer at foot of Forty-second street, North river.....																							
Extension of sewer outlet under Pier at foot of Forty-sixth street, East river.....														130								650 00	
Alteration and improvement to curve of sewer in Leonard street, between Centre and Baxter streets.....																						424 00	
Alteration and improvement to existing sewers in Burling Slip, between South and Water streets, and in Wall street, between South and Pearl streets, and in Front street, at Burling Slip and Wall street, and outlet sewer through Pier, old 20, East river.....		924	400		65			63												154		18,847 25	
Ninety-sixth street, between Madison and Park avenues.....									337												1,005	4,968 85	
One Hundred and Fifth street, between Central Park, West, and Manhattan avenue.....									50								320		18	1	1,135	5,611 50	
One Hundred and Seventeenth street, between Lenox and Seventh avenues.....									662													2,851 10	
One Hundred and Forty-second street, between Lenox avenue and Harlem river.....									33								292					1,982 32	
Alteration and improvement to sewer in One Hundred and Eleventh street, between Harlem river and First avenue.....									338											30		2,446 00	
One Hundred and Forty-first street, between Lenox and Seventh avenues.....																	660				7	2,321 28	
One Hundred and Forty-second street, between Lenox and Seventh avenues.....																	660				16	2,343 04	
One Hundred and Forty-third street, between Lenox and Seventh avenues.....																	658				46	2,421 04	
Thirty-seventh street, between East river and First avenue.....									242	103												3,579 00	
University place, between Ninth and Tenth streets.....													40				103					743 50	
University place, between Tenth and Eleventh streets.....													34				143					917 25	
University place, between Clinton place and Ninth street.....													29				161					887 25	
Alteration and improvement to sewer in Columbia street, between Houston and Stanton streets.....																						3,177 80	
Alteration and improvement to sewer in Goerck street, between Rivington and Stanton streets.....																						3,760 00	
Alteration and improvement to sewer in Lewis street, between Rivington and Stanton streets.....																						4,271 00	
Alteration and improvement to sewer in Willet street, between Rivington and Stanton streets.....																						3,805 75	
Ninety-seventh street, between Madison and Fifth avenues.....																	308		15	1	345	2,902 75	
Totals.....	335	3,391	524	131	3,905	377	253	24,693	4,417	103	51	93	2,947	130	141	312	13,283	105	2,184	68	27,165	\$375,649 78	

Basins.

Table with columns: LOCATION, BASINS, CULVERT, ROCK, TOTAL COST. Lists various receiving-basin projects and their associated costs.

Recapitulation.

Table with columns: NATURE OF WORK, NEW, ALTERATION AND IMPROVEMENT. Summarizes the types of sewer work and their quantities.

There were also built 68 receiving-basins and 27,165 1/4 yards of rock excavated and removed.

Contracts Now in Progress.

Table with columns: LOCATION OF WORK, SEWER (Size, Linear Feet), Culvert, Receiving Basins, Rock, ESTIMATED COST. Lists ongoing sewer projects.

LOCATION OF WORK.

Table with columns: LOCATION OF WORK, SEWER (Size, Linear Feet), Culvert, Receiving Basins, Rock, ESTIMATED COST. Lists completed sewer projects.

The following Surveys have been Made, and Plans and Specifications are Now in Course of Preparation.

Table with columns: LOCATION, SEWER, CULVERT, RECEIVING BASINS. Lists surveys in progress.

Document "H."

REPORT OF THE SUPERINTENDENT OF STREET IMPROVEMENTS.

DEPARTMENT OF PUBLIC WORKS, BUREAU OF STREET IMPROVEMENTS, No. 31 CHAMBERS STREET, ROOM 5, NEW YORK, December 31, 1893.

Hon. MICHAEL T. DALY, Commissioner of Public Works:

SIR—In accordance with your instructions, I have the honor to herewith submit my report of the operations of the Bureau of Street Improvements for the quarter ending December 31, 1893, also my yearly report showing all the expenditures of this Bureau, for the year ending December 31, 1893, together with a statement of the amount of work done and also balances of the appropriations.

On the commencement of the year 12 contracts were in existence; during the year 1893 144 contracts were entered into and 132 contracts were completed, at a cost of \$192,593.60, for which assessment lists have been transmitted to the Chief Clerk.

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

REGULATING, GRADING, CURBING, FLAGGING, ETC.

- List of street improvement projects: One Hundred and Forty-fifth street, from Boulevard to Twelfth avenue. One Hundred and Sixty-second street, from Eleventh avenue to Kingsbridge road. Ninetieth street, from Avenue A to East river. Ninety-first street, from Avenue A to East river. One Hundred and Forty-fourth street, from Boulevard to Twelfth avenue. One Hundred and Sixtieth street, from Eleventh avenue to Kingsbridge road. One Hundred and Thirty-seventh street, from Convent avenue to St. Nicholas terrace. Convent avenue, from One Hundred and Thirty-fifth to One Hundred and Fiftieth street. One Hundred and Twenty-fourth street, from Boulevard to Amsterdam avenue. One Hundred and Thirty-third street, from Boulevard to Twelfth avenue. Claremont avenue, from One Hundred and Twenty-second to One Hundred and Twenty-seventh street.

The following are the most important unfinished contracts, viz.: Regulating, grading, etc., Boulevard, from One Hundred and Fifty-sixth to Inwood street. This is a very large contract and there remains a vast amount of work to complete same; it consists mainly of earth and rock excavation and building of retaining-walls, and will not be finished before next Fall. Regulating, grading, etc., St. Nicholas terrace, from One Hundred and Thirtieth street to Convent avenue. This is also a very large work, consisting mainly of earth filling and rock excavation, also the building of retaining-walls, and will be completed the latter part of this year.

Regulating, grading, etc., Dyckman street, from Hudson river to Exterior street. This was a large contract, the excavation has been very nearly completed, but there remains a great quantity of filling to be furnished before the work can be finished, which will be about next August.

Regulating, grading etc., One Hundred and Twenty-third street, from Tenth avenue to Boulevard. This work will be completed this month, the weather permitting.

Regulating, grading, etc., One Hundred and Thirtieth street, from Amsterdam to Convent avenue. This was a large filling contract and will be finished early in the spring of this year.

Regulating, grading, etc., One Hundred and Fiftieth street, from Amsterdam avenue to Boulevard. After this contract was let the property-owners petitioned for a change of grade, which will necessitate the contractor furnishing a larger amount of filling than originally called for in the contract. This work will be completed about April, 1893.

Regulating, grading, etc., One Hundred and Eighty-seventh street, from Amsterdam avenue to Kingsbridge road.

Regulating, grading, etc., One Hundred and Ninetieth street, from Audubon to Eleventh avenue. The work consists mainly of rock excavation, and will be completed about the middle of this year.

APPROPRIATIONS.

Street Improvements, for surveying, monumenting and numbering of streets. The amount appropriated this year was \$6,500, which included the sum of \$3,500 for expenses of surveying, laying out and monumenting north of One Hundred and Sixty-fifth street west of Kingsbridge road, which work was done under the supervision of Mr. J. O'B. Webster, Assistant Engineer. The amount expended for numbering of streets, etc., has been \$2,520.50, outstanding liability \$56, leaving a balance of \$423.50. The amount expended for surveying, etc., north of One Hundred and Sixty-fifth street and west of Kingsbridge road has been \$3,270.86, leaving a balance of \$229.14, making a total balance in this fund of \$652.64.

Flagging sidewalks and fencing vacant lots in front of City property. The appropriation for this purpose was \$3,600, which included the amount of \$1,600 for fencing City property at Fifty-sixth street and Exterior street, North river. The amount expended has been \$3,554.61, liability outstanding of \$36.50, leaving a balance of \$8.89.

In regard to defective sidewalks in accordance with the provisions of section 321, chapter 410, Laws of 1882, as amended by chapter 569, Laws of 1887, I would state that 1,834 complaints have been received at this Bureau, which have been promptly examined and notices served on the owners or occupants of the premises complained of, notifying them to make the necessary repairs, when the sidewalks were dangerous, and upon re-examination we found they were not repaired, the usual certificates and ordinances were then transmitted to the Common Council to enable this Department to do the work. The number of certificates and ordinances transmitted to the Common Council during the year was 172, of which there was passed and approved 148.

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

STATEMENT OF AMOUNT OF WORK DONE DURING THE QUARTER ENDING DECEMBER 31, 1893

Earth excavation.....cubic yards.	9,976
Rock excavation....."	19,425
Filling furnished....."	53,746
Curb set.....linear feet.	13,534
Curb reset....."	7,032
Flagging laid.....square feet.	147,007
Flagging relaid....."	36,687
Fence.....linear feet.	901
Retaining-wall.....cubic yards.	10,800
Culvert.....linear feet.	113

AMOUNT OF VOUCHERS DRAWN.

Street Improvement Fund.....	\$117,990 04
Street Improvements—For Surveying, Monumenting, etc.....	762 00
Street Improvement Fund—For Surveying, etc., north of One Hundred and Sixty-fifth street, etc.....	2,192 89
Flagging Sidewalks, etc., in front of City Property.....	1,453 41
Contingencies—Department of Public Works.....	333 47

APPROPRIATIONS.

Street Improvements—For Surveying, Monumenting, etc.....	\$3,000 00
Amount of vouchers drawn during first quarter.....	\$588 50
Amount of vouchers drawn during second quarter.....	585 00
Amount of vouchers drawn during third quarter.....	585 00
Amount of vouchers drawn during fourth quarter.....	762 00
Outstanding liability.....	56 00
Balance (estimated).....	423 50
<b>Total</b> .....	<b>3,000 00</b>
Street Improvements—For Surveying, etc., north of One Hundred and Sixty-fifth street, etc.....	\$3,500 00
Amount of vouchers drawn during third quarter.....	\$1,127 97
Amount of vouchers drawn during fourth quarter.....	2,192 89
Balance (estimated).....	229 14
<b>Total</b> .....	<b>3,500 00</b>
Flagging Sidewalks and Fencing in front of City Property.....	\$3,600 00
Amount of vouchers drawn during first quarter.....	.....
Amount of vouchers drawn during second quarter.....	\$2,073 20
Amount of vouchers drawn during third quarter.....	28 00
Amount of vouchers drawn during fourth quarter.....	1,453 41
Outstanding liability.....	36 50
Balance (estimated).....	8 89
<b>Total</b> .....	<b>3,600 00</b>
Contingencies—Department of Public Works—	.....
Amount of vouchers drawn during first quarter.....	\$285 40
Amount of vouchers drawn during second quarter.....	353 25
Amount of vouchers drawn during third quarter.....	288 15
Amount of vouchers drawn during fourth quarter.....	333 47
<b>Total</b> .....	<b>\$1,260 27</b>
Retaining Walls in East Fifty-first street and East Forty-second street—	.....
Amount of voucher drawn.....	\$858 75
Flagging Sidewalks and Fencing in front of City Property, 1892—	.....
Amount of vouchers drawn.....	\$312 08

WORKS COMPLETED DURING THE QUARTER.

Regulating, Grading, etc.—	.....
Convent avenue, from One Hundred and Thirty-fifth to One Hundred and Fiftieth street.....	\$22,189 51
One Hundred and Twenty-fourth street, from Boulevard to Amsterdam avenue.....	13,956 93
One Hundred and Thirty-third street, from Boulevard to Twelfth avenue.....	10,069 54
Claremont avenue, from One Hundred and Twenty-second to One Hundred and Twenty-seventh street.....	27,314 21
<b>Total</b> .....	<b>\$73,530 19</b>
Flagging, Curbing, etc.—	.....
North side Fifty-ninth street, from Amsterdam to Eleventh avenue.....	\$425 56
South side Ninety-fifth street, from First to Second avenue.....	180 44
East side Seventh avenue, from Nineteenth to Twentieth street.....	290 06
One Hundred and Fifteenth and One Hundred and Sixteenth streets, between Madison and Fifth avenues.....	914 34
Boulevard, from Fifty-ninth to Sixty-third street.....	3,449 31
West side Lexington avenue, from One Hundred and Eighteenth to One Hundred and Nineteenth street.....	559 01

Flagging, Curbing, etc.—

Sixty-sixth street, from Central Park, West, to Boulevard.....	\$2,674 35
North side Sixty-ninth street, from Central Park, West, to Columbus avenue.....	585 65
Sixty-eighth street, from Amsterdam avenue to west of West End avenue.....	1,294 81
West side Fifth avenue, from One Hundred and Thirty-fourth to One Hundred and Thirty-fifth street.....	636 24
Ninety-sixth street, from Boulevard to Riverside Drive.....	3,889 83
Ninety-seventh street, from Amsterdam avenue to Boulevard.....	1,366 13
South side Sixty-third street, from Second avenue, West.....	384 53
Northwest corner Thirty-fourth street and Broadway.....	584 49
East side Manhattan avenue, from One Hundred and Thirteenth to One Hundred and Fourteenth street.....	424 03
West side Amsterdam avenue, north and south of One Hundred and Forty-second street.....	387 39
One Hundred and Twenty-fourth street, from Fifth to Madison avenue.....	414 07
Nos. 92 and 94 First street.....	125 39
Southeast corner Eighty-fourth street and Third avenue.....	344 99
Southeast corner Second avenue and Third street.....	421 17
One Hundred and Seventeenth street, from Fifth to Lenox avenue.....	255 15
East side Amsterdam avenue, from One Hundred and Forty-fifth to One Hundred and Forty-seventh street.....	795 76
East side West End avenue, from Sixty-second to Sixty-fourth street.....	1,125 14
South side Sixtieth street, from Tenth to Eleventh avenue.....	492 49
Nos. 4 and 6 East Seventy-second street.....	168 33
Ninety-second street, from Columbus avenue to Boulevard.....	593 51
Eighty-seventh street, from Columbus avenue to Central Park, West.....	360 24
West side Boulevard, from One Hundred and Thirty-first to One Hundred and Thirty-second street.....	222 79
North side One Hundred and Twenty-third street, from First to Second avenue.....	942 15
East side Park avenue, from One Hundredth to One Hundred and First street.....	51 53
Fourteenth and Fifteenth streets, between Tenth and Eleventh avenues.....	5,042 35
One Hundred and Fourth street, from Columbus to Amsterdam avenue.....	735 14
North side One Hundred and Forty-third street, from Amsterdam to Convent avenue.....	293 28
<b>Total</b> .....	<b>\$30,429 65</b>

Fencing Vacant Lots, etc.—

North side One Hundred and Forty-third street, west of Eighth avenue.....	\$28 53
Amsterdam avenue, Boulevard, Ninety-first and Ninety-second streets.....	421 23
<b>Total</b> .....	<b>449 76</b>
<b>Total</b> .....	<b>\$104,409 60</b>

RECAPITULATION.

4 Contracts, Regulating, Grading, etc.....	\$73,530 19
33 Contracts, Flagging, Curbing, etc.....	30,429 65
2 Contracts, Fencing Vacant Lots, etc.....	449 76
<b>39 Contracts. Total</b> .....	<b>\$104,409 60</b>

Annual Statement.

NATURE OF WORK.	JANUARY 1 TO MARCH 31.	APRIL 1 TO JUNE 30.	JULY 1 TO SEPTEMBER 30.	OCTOBER 1 TO DECEMBER 31.	TOTALS.
Earth excavation, cubic yards.....	\$5,300	\$13,089	\$15,742	\$9,976	\$44,107
Rock excavation, cubic yards.....	11,482	19,726	18,702	19,425	69,335
Filling furnished, cubic yards.....	13,040	31,117	39,259	53,746	137,162
Curbstones set, lineal feet.....	3,278	5,787	12,131	13,534	34,730
Curbstones reset, lineal feet.....	1,340	1,923	5,954	7,032	16,249
Flagging laid, square feet.....	27,452	43,143	121,514	147,007	339,116
Flagging relaid, square feet.....	6,128	21,845	24,461	36,687	89,121
Retaining-wall, cubic yards.....	700	3,579	6,800	10,800	21,879
Fence built, lineal feet.....	.....	3,712	5,122	901	9,735
Pavement laid, square yards.....	6	4	750	.....	760
Crosswalk laid, square feet.....	348	236	.....	.....	584
Culvert built, lineal feet.....	125	288	273	113	799

Amount of Vouchers Drawn during the Year 1893.

ON ACCOUNT OF	JANUARY 1 TO MARCH 31.	APRIL 1 TO JUNE 30.	JULY 1 TO SEPTEMBER 30.	OCTOBER 1 TO DECEMBER 31.	TOTALS.
Street Improvement Fund.....	\$30,917 74	\$59,364 74	\$86,421 76	\$117,990 04	\$294,694 28
Street Improvement—Surveying, etc.....	588 50	585 00	585 00	762 00	2,520 50
Street Improvement—Surveying (Special).....	.....	.....	1,127 97	2,192 89	3,320 86
Flagging, etc., in front of City Property.....	.....	2,073 20	28 00	1,453 41	3,554 61
Contingencies—Department of Public Works.....	285 40	353 25	288 15	333 47	1,260 27
Retaining-walls in East Fifty-first street, etc.....	.....	858 75	.....	.....	858 75
Flagging, etc., in front of City property, 1892.....	.....	312 08	.....	.....	312 08

WORKS COMPLETED DURING THE YEAR 1893.

Regulating, Grading, etc.—

One Hundred and Forty-fifth street, from Boulevard to Twelfth avenue.....	\$8,024 00
One Hundred and Sixty-second street, from Eleventh avenue to Kingsbridge road.....	11,592 33
Ninetieth street, from Avenue A to East river.....	4,274 83
Ninety-first street, from Avenue A to East river.....	1,254 79
One Hundred and Forty-fourth street, from Boulevard to Twelfth avenue.....	7,818 52
One Hundred and Sixtieth street, from Eleventh avenue to Kingsbridge road.....	7,807 06
One Hundred and Thirty-first street, from Amsterdam to Convent avenue.....	1,442 44
Bethune street, from Greenwich to Hudson street.....	919 57
One Hundred and Thirty-sixth street, from Fifth avenue to Harlem river.....	2,056 97
One Hundred and Thirty-seventh street, from Convent avenue to St. Nicholas terrace.....	4,744 58
One Hundred and Forty-sixth street, from Convent avenue 150 feet east.....	1,006 37
Convent avenue, from One Hundred and Thirty-fifth to One Hundred and Fiftieth street.....	22,189 51

Regulating, Grading, etc.—

One Hundred and Twenty-fourth street, from Boulevard to Amsterdam avenue.....	\$13,956 93
One Hundred and Thirty-third street, from Boulevard to Twelfth avenue.....	10,069 54
Claremont avenue, from One Hundred and Twenty-second to One Hundred and Twenty-seventh street.....	27,314 21
	<u>\$124,471 65</u>

Flagging, Curbing, etc.—

Thirty-seventh street, from Tenth to Eleventh avenue.....	\$2,381 54
Sixty-third street, from Central Park West to Boulevard.....	1,865 78
One Hundred and Thirty-second street, from Amsterdam avenue to Broadway.....	1,067 13
South side One Hundred and Twentieth street, east of Seventh avenue.....	309 62
Nos. 160 and 186 East One Hundred and Sixteenth street.....	135 74
South side Seventy-third street, east of Columbus avenue.....	94 50
No. 414 East Sixty-sixth st.....	50 42
North side One Hundred and Eleventh street, from Seventh to St. Nicholas avenue.....	278 16
North side One Hundred and Tenth street, east of Fifth avenue.....	141 27
One Hundred and Fifteenth street, from First avenue to Avenue A.....	427 63
No. 120 East One Hundred and Nineteenth street.....	50 59
Eighty-fifth street, southeast corner Columbus avenue.....	338 58
South side Sixty-first street, east of Eleventh avenue.....	429 49
Ninety-eighth street, from First to Second avenue.....	146 88
Nos. 108 to 104 East Forty-third street.....	238 18
One Hundred and Forty-first street, from Seventh to Eighth avenue.....	203 60
Nos. 206 to 212 West Sixteenth street.....	170 49
Nos. 403 to 413 East One Hundred and Nineteenth street.....	333 92
One Hundred and Sixth street, from First to Third avenue.....	1,357 01
West End avenue, from Eighty-seventh to Eighty-eighth street.....	156 83
Amsterdam avenue, from Eighty-third to Eighty-fourth street.....	146 64
East side Boulevard, from Eighty-seventh to Eighty-eighth street.....	262 13
No. 23 Jones street.....	62 37
West side First avenue, from One Hundred and Eighteenth to One Hundred and Nineteenth street.....	158 78
North side Seventy-seventh street, from Amsterdam avenue to Boulevard.....	427 82
South side Ninety-fourth street, from Central Park, West, to Columbus avenue.....	114 74
South side Ninety-ninth street, from Amsterdam avenue to Boulevard.....	223 37
West side Columbus avenue, from Seventy-ninth to Eightieth street.....	177 09
One Hundred and Forty-first street, from Amsterdam to St. Nicholas avenue.....	657 54
Eighty-third street, from Columbus to Amsterdam avenue.....	292 04
Nos. 229 to 247 East One Hundred and Seventeenth street.....	240 21
Sixty-first street, from Central Park, West, to Columbus avenue.....	1,666 47
First street, from Bowery to Second avenue.....	1,591 04
South side Ninety-second street, from Central Park, West, to Columbus avenue.....	632 08
Seventy-seventh street, from Madison to Fifth avenue.....	997 48
Sixty-eighth street, from Columbus to Amsterdam avenue.....	879 36
East side Amsterdam avenue, from One Hundred and Forty-third to One Hundred and Forty-fourth street.....	353 24
Sixty-seventh street, from Central Park, West, to Columbus avenue.....	2,405 64
Sixty-second street, from Amsterdam to Eleventh avenue.....	1,450 63
North side Eighty-seventh street, east of Park avenue.....	157 00
South side Sixty-ninth street, from Eighth to Columbus avenue.....	942 53
West side, Boulevard, from Sixty-third to Sixty-seventh street.....	799 62
Southeast corner Forty-fourth street and Fifth avenue.....	252 92
Seventy-eighth street, from Riverside Drive to West End avenue.....	567 80
Twenty-fifth street, from Sixth to Seventh avenue.....	2,762 33
Southeast corner Sixth avenue and Fortieth street.....	402 60
Northeast corner Bowery and Fifth street.....	439 65
West side Central Park, West, from Eighty-sixth to Ninety-third street.....	3,987 33
North side Fifty-ninth street, from Amsterdam to Eleventh avenue.....	425 56
South side Ninety-fifth street, from First to Second avenue.....	180 44
East side Seventh avenue, from Nineteenth to Twentieth street.....	290 06
One Hundred and Fifteenth and One Hundred and Sixteenth streets, from Madison and Fifth avenues.....	914 34
Boulevard, from Fifty-ninth to Sixty-third street.....	3,449 31
West side Lexington avenue, from One Hundred and Eighteenth to One Hundred and Nineteenth street, etc.....	559 01
Sixty-sixth street, from Central Park, West, to Boulevard.....	2,674 35
North side Sixty-ninth street, from Central Park, West, to Columbus avenue.....	585 65
Sixty-eighth street, from Amsterdam avenue to west of West End avenue.....	1,294 81
West side Fifth avenue, from One Hundred and Thirty-fourth to One Hundred and Thirty-fifth street.....	636 24
Ninety-sixth street, from Boulevard to Riverside Drive.....	3,889 83
Ninety-seventh street, from Amsterdam avenue to Boulevard.....	1,366 13
South side Sixty-third street, Second avenue west.....	384 53
Northwest corner Thirty-fourth street and Broadway.....	584 49
East side Manhattan avenue, from One Hundred and Thirteenth to One Hundred and Fourteenth street.....	424 03
West side Amsterdam avenue, north and south of One Hundred and Forty-second street.....	387 39
One Hundred and Twenty-fourth street, from Fifth to Madison avenue.....	414 07
Nos. 92 and 94 First street.....	125 39
Southeast corner Eighty-fourth street and Third avenue.....	344 99

Flagging, Curbing, etc.—

East side Second avenue and Third street.....	\$421 17
One Hundred and Seventeenth street, from Fifth to Lenox avenue.....	255 15
East side Amsterdam avenue, from One Hundred and Forty-fifth to One Hundred and Forty-seventh street.....	795 76
East side West End avenue, from Sixty-second to Sixty-fourth street.....	1,125 14
South side Sixtieth street, from Tenth to Eleventh avenue.....	492 49
Nos. 4 and 6 East Seventy-second street.....	168 33
Ninety-second street, from Columbus avenue to Boulevard.....	593 51
Eighty-seventh street, from Columbus avenue to Central Park, West.....	360 24
West side Boulevard, from One Hundred and Thirty-first to One Hundred and Thirty-second street.....	222 79
North side One Hundred and Twenty-third street, from First to Second avenue.....	942 15
East side Park avenue, from One Hundredth to One Hundred and First street.....	51 53
Fourteenth and Fifteenth streets, between Tenth and Eleventh avenues.....	5,042 35
One Hundred and Fourth street, from Columbus to Amsterdam avenue.....	735 14
North side One Hundred and Forty-third street, from Amsterdam to Convent avenue.....	293 28
	<u>\$63,667 96</u>

Fencing Vacant Lots, etc.—

One Hundred and Fourth and One Hundred and Fifth streets, from Madison to Park avenue.....	\$43 75
East side Fifth avenue, from One Hundred and Fourth to One Hundred and Fifth street.....	61 23
South side One Hundred and Seventh street, from Madison to Park avenue.....	157 63
South side One Hundred and Twentieth street, east of Seventh avenue.....	50 27
One Hundred and Twelfth and One Hundred and Thirteenth streets, between Madison and Fifth avenues.....	218 89
East side Madison avenue, from One Hundred and Fourteenth to One Hundred and Fifteenth street.....	135 19
One Hundred and Fifteenth and One Hundred and Sixteenth streets, from Madison to Fifth avenue.....	230 16
Fifty-third street, from Tenth to Eleventh avenues.....	201 32
North side Eightieth street, from Columbus to Amsterdam avenue.....	76 37
South side One Hundred and Tenth street, from Park to Madison avenue.....	42 25
North side One Hundred and Twenty-third street, from Lenox to Seventh avenue.....	25 02
Southwest corner Eighty-ninth street and avenue B.....	120 14
Northeast corner Seventy-second street and West End avenue.....	118 68
Nos. 237 and 239, West One Hundred and Thirty-third street.....	29 50
North side One Hundred and Nineteenth street, Nos. 104 to 145.....	205 50
South side Eighty-fifth street, west of Second avenue.....	32 87
One Hundred and Nineteenth and One Hundred and Twentieth streets, between Fifth and Lenox avenues.....	263 66
South side One Hundred and Fifteenth street, from Madison to Fifth avenue.....	73 10
South side One Hundred and Fourteenth street, from Park to Madison avenue.....	115 00
Southeast corner Seventy-third street and Riverside avenue.....	136 60
West side West End avenue, from Seventieth to Seventy-first street.....	199 40
Southeast corner Eighty-ninth street and Madison avenue.....	115 53
North side One Hundred and Fifth street, from Madison to Park avenue.....	80 63
Northwest corner Eighty-ninth street and Avenue B.....	114 75
Nos. 224 to 230 West Seventy-eighth street.....	30 35
South side Eighty-ninth street, west of Second avenue.....	50 50
One Hundred and Forty-first and One Hundred and Forty-second streets, Seventh and Eighth avenues.....	284 88
Southwest corner Fifth avenue and One Hundred and Thirty-third street.....	105 47
Southeast corner Fifth avenue and One Hundred and Twelfth street.....	153 97
Northwest corner Fifth avenue and One Hundred and Thirty-second street.....	76 35
Northwest corner Fifth avenue and One Hundred and Thirty-first street.....	83 51
Northeast corner Fifth avenue and One Hundred and Tenth street, etc.....	236 95
North side One Hundred and Thirty-first street, from Park to Madison avenue.....	27 96
North sides One Hundred and First and One Hundred and Second streets, Lexington and Park avenues.....	106 85
North side One Hundred and Forty-third street, west of Eighth avenue.....	28 53
Amsterdam avenue, Boulevard, Ninety-first and Ninety-second streets.....	421 23
	<u>4,453 99</u>
Total.....	<u>\$192,593 60</u>

RECAPITULATION.

15 Contracts for regulating, grading, etc.....	\$124,471 65
81 Contracts for flagging, curbing, etc.....	63,667 96
36 Contracts for fencing vacant lots, etc.....	4,453 99
132 Contracts.....	<u>\$192,593 60</u>

Statement Showing Works under Contract in Bureau of Street Improvements on the 31st day of December, 1893.

LOCATION OF WORK.	CONTRACTOR.	SURVEYOR.	INSPECTOR.	CONTRACT TIME.	ESTIMATED COST.	AMOUNT EARNED.	AMOUNT RETAINED.	AMOUNT PAID.	REMARKS.
<i>Regulating, Grading, Curbing and Flagging.</i>									
Boulevard, One Hundred and Fifty-sixth to Inwood street.....	R. McLaughlin....	R. L. Waters.....	Leander Buck.....	600 days.	\$244,372 49	\$111,711 00	\$33,513 30	\$78,197 70	
St. Nicholas terrace to Convent avenue.....	William G. Leeson.	".....	James McClellan..	250 "	61,972 70	20,540 00	6,162 00	14,378 00	
Dyckman street, Hudson river to Exterior street.....	William E. Dean....	".....	R. V. Davis.....	450 "	128,165 57	105,476 75	31,643 02	73,833 73	
Macomb's Dam road, One Hundred and Forty-ninth to One Hundred and Fifty-fifth street.....	Thomas J. Reilly..	L. F. Olney.....	James Kearney....	260 "	26,571 80	24,566 00	7,369 80	17,196 20	Work completed, but not accepted.
One Hundred and Twenty-third street, Tenth avenue to Boulevard.....	James A. Gerrity..	F. E. Towle.....	Thomas W. Gibbons	45 "	4,677 20	.....	.....	.....	
One Hundred and Thirtieth street, Amsterdam to Convent avenue.....	John J. Hopper....	".....	L. A. Russell, Jr..	150 "	2,220 00	.....	.....	.....	
One Hundred and Thirty-seventh street, Fifth avenue to Harlem river....	Philip J. Kearns....	R. L. Waters.....	P. H. Kedney.....	10 "	2,027 24	.....	.....	.....	Work completed, but not accepted.
One Hundred and Forty-third street, Boulevard to Hudson River Railroad....	John J. Hopper....	Chas. H. Haswell..	John Lawrence....	100 "	4,257 95	.....	.....	.....	Work completed, but not accepted.
One Hundred and Forty-eighth street, Boulevard to Twelfth avenue.....	Matthew Baird....	F. E. Towle.....	Fred. G. Fay.....	200 "	13,883 30	12,406 50	3,721 95	8,684 55	Work completed, but not accepted.
One Hundred and Fiftieth street, Amsterdam avenue to Boulevard.....	John J. Hopper....	George A. Wheeler	James L. Brown....	125 "	7,131 50	3,995 50	1,177 75	2,747 75	
One Hundred and Eighty-seventh street, Amsterdam avenue to Kings-bridge road.....	Guion & Ullo.....	R. L. Waters.....	Theophilus Pratt..	250 "	26,599 44	3,125 00	937 50	2,187 50	
One Hundred and Ninetieth street, Audubon to Eleventh avenue.....	William E. Dean....	Chas. H. Haswell..	Dennis O'Connor..	70 "	4,328 50	.....	.....	.....	
Seventy-sixth street, Boulevard to Rivers de Drive.....	Thomas J. Gillis..	Thomas Slator....	.....	7 "	850 94	.....	.....	.....	Work not yet commenced.
Fifty-second street, Eleventh to Twelfth avenue.....	".....	Chas. H. Haswell..	.....	7 "	1,058 00	.....	.....	.....	"

LOCATION OF WORK.	CONTRACTOR.	SURVEYOR.	INSPECTOR.	CONTRACT TIME.	ESTIMATED COST.	AMOUNT EARNED.	AMOUNT RETAINED.	AMOUNT PAID.	REMARKS.
<i>Special Contracts—Flagging, Curbing, etc.</i>									
South side Amsterdam avenue, One Hundred and Thirty-eighth to One Hundred and Thirty-ninth street.....	Thomas F. Murray.	F. E. Towle.....	H. F. Liebenan....	7 days.	\$649 80	.....	.....	.....	Work completed, but not accepted. Work completed, but not accepted. Work completed, but not accepted.
East side Park avenue, Ninety-second and Ninety-third streets, etc.....	Thomas J. Dunn...	George A. Wheeler	John E. Wilson....	3 "	409 10	.....	.....	.....	
North side One Hundred and Twenty-fourth street, Fifth to Lenox avenue..	"	"	"	4 "	505 50	.....	.....	.....	
<i>Fencing Vacant Lots.</i>									
Southeast corner of Ninetieth street and First avenue.....	R. H. Casey.....	"	James Kearney....	2 "	152 00	.....	.....	.....	
Madison and Fifth avenues, Eighty-seventh to Eighty-eighth street.....	"	"	"	3 "	220 50	.....	.....	.....	
Southeast corner of Ninety-third street and Park avenue.....	"	"	"	1 "	73 10	.....	.....	.....	
Totals..					\$474,327 63	\$281,750 75	\$84,525 32	\$197,225 43	

Document "I."

REPORT OF THE SUPERINTENDENT OF STREETS.

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF STREETS AND ROADS, NO. 31 CHAMBERS STREET, ROOM 12,  
NEW YORK, January 8, 1894.

Hon. MICHAEL T. DALY, Commissioner of Public Works:

SIR—I transmit herewith report of work done and materials used by this Bureau during the quarter ending December 30, 1893; also a summary of the work done during the year 1893.

Respectfully submitted,

JOHN L. FLORENCE, Superintendent of Streets.

The following is a statement of the work done on "Boulevards, Roads, and Avenues—Maintenance of"—during the quarter ending December 31, 1893:

Macadam roadway repaired and resurfaced.....	8,159 square yards.
Roadway cleaned.....	86 miles.
Gutters cleaned.....	351 "
Gutters repaired.....	311 square yards.
Roadway regulated and graded.....	18,662 "
Gravel roadway repaired.....	84 "
Bridge-stone relaid.....	120 square feet.
Telford laid.....	24 square yards.
Pipe-drain laid.....	30 lineal feet.
Trees cultivated.....	200 "
Stone broken.....	104 truck-loads.
Gravel spread.....	192 "
Stone hauled.....	497 "
Sand hauled.....	85 "
Screenings hauled.....	316 "
Telford hauled.....	24 "
Gravel hauled.....	192 "
Earth hauled.....	381 "

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

Broken stone.....	396 truck-loads.
Gravel.....	192 "
Screenings.....	296 "
Sand.....	85 "
Telford.....	1 "
Earth.....	381 "

3,560 truck-loads of refuse were removed during the quarter.

The following is a summary of the work done during the year ending, December 31, 1893:

Macadam roadway repaired and resurfaced.....	49,993 square yards.
Roadway cleaned.....	762 miles.
Gutters cleaned.....	3,430 "
Gutters repaired.....	2,168 square yards.
Roadway regulated and graded.....	52,593 "
Roadway covered with gravel.....	58,080 "
Roadway covered with gravel screenings.....	163,000 "
Roadway covered with trap-rock screenings.....	18,670 "
Gravel roadway repaired.....	34,708 "
Bridge-stone relaid.....	1,300 square feet.
Flagging relaid.....	614 "
Telford laid.....	43 "
Curb reset.....	66 lineal feet.
Sidewalk cleaned of snow.....	18 miles.
Snow spread on roadway.....	32 "
Pipe drain laid.....	30 lineal feet.
Trees cultivated.....	1,710 "
Broken stone.....	122 truck-loads.
Gravel spread.....	3,000 "
Screenings spread.....	3,000 "
Stone hauled.....	2,724 "
Sand hauled.....	123 "
Screenings hauled.....	993 "
Telford hauled.....	24 "
Ashes hauled.....	3 "
Gravel hauled.....	991 "
Earth hauled.....	724 "
Stone piled.....	143 "
Gravel piled.....	17 "
Screenings piled.....	103 "

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

Broken stone.....	2,841 truck-loads.
Screenings.....	3,000 "
Gravel.....	3,000 "
Earth.....	724 "
Boiler ashes.....	3 "
Telford.....	15 "
Sand.....	276 "
Paving stone.....	4 "

5 new sprinkling wagons were built in repair shops.

1,851 truck-loads of snow and ice and 25,801 truck-loads of refuse, were removed and the macadam and gravel roads regularly and thoroughly sprinkled.

The following is a statement of the work done on Unpaved Streets during the quarter ending December 31, 1893:

Washouts repaired.....	22
Roadway regulated and graded.....	5 miles.
Gutters cleaned.....	4 1/2 "
Flagging relaid.....	1,588 square feet.
Bridge-stones relaid.....	232 "
Curb reset.....	88 lineal feet.
Stone hauled and used.....	445 truck-loads.
Earth hauled and used.....	1,073 "
Stone broken.....	104 "

318 truck-loads of refuse were removed.

The following is a summary of the work done during the year ending December 31, 1893:

Washouts repaired.....	46
Roadway regulated and graded.....	15 miles.
Roadway and gutters cleaned.....	24 1/2 "
Gutters opened and graded.....	37 "
Gutters repaired.....	159 square yards.

Bridge-stones relaid.....	232 square feet.
Flagging relaid.....	1,588 "
Curb reset.....	180 lineal feet.
Stone hauled and used.....	2,248 truck loads.
Earth hauled and used.....	3,536 "
Stone broken.....	548 "
Basins cleaned.....	2

281 truck loads of snow and ice and 1,940 truck loads of refuse were removed.

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

Boulevards, Roads and Avenues, Maintenance of, 1893.....	\$90,000 00
Amount transmitted during the first quarter ending March 31, 1893.....	12,415 35

Balance, April 1, 1893.....	\$77,584 65
Amount transmitted during the second quarter ending June 30, 1893.....	25,450 95

Balance, July 1, 1893.....	\$52,133 70
Amount transmitted during the third quarter ending September 30, 1893.....	34,804 35

Balance October 1, 1893.....	\$17,329 35
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Amount transmitted during the fourth quarter ending December 31, 1893, is as follows:

Pay-roll, Laborers, etc., week ending Sept. 30, 1893.....	\$1,406 81
" " " " Oct. 7, ".....	1,526 25
" " " " " 14, ".....	1,585 50
" " " " " 21, ".....	1,613 75
" " " " " 28, ".....	1,440 02
" " " " Nov. 4, ".....	1,571 50
" " " " " 11, ".....	1,484 31
" " " " " 18, ".....	912 06
" " " " " 25, ".....	885 50
" " " " Dec. 2, ".....	711 25
" " " " " 9, ".....	678 25
" " " " " 16, ".....	736 50
" " " " " 23, ".....	689 50
Rent of ground.....	1,000 00
Telephone service.....	45 08
	16,322 88

Balance, December 31, 1893.....	\$1,006 47
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Roads, Streets and Avenues Unpaved—Maintenance of, and Sprinkling, 1893.....	\$30,000 00
Amount transmitted during the first quarter ending March 31, 1893.....	1,518 94

Balance, April 1, 1893.....	\$28,481 06
Amount transmitted during the second quarter ending June 30, 1893.....	9,187 91

Balance, July 1, 1893.....	\$19,293 15
Amount transmitted during the third quarter ending September 30, 1893.....	8,338 09

Balance, September 30, 1893.....	\$10,955 06
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Amount transmitted during the fourth quarter ending December 31, 1893, is as follows:

Pay-roll, Laborers, etc., week ending Sept. 30, 1893.....	\$783 75
" " " " Oct. 7, ".....	718 25
" " " " " 14, ".....	705 25
" " " " " 21, ".....	725 50
" " " " " 28, ".....	608 81
" " " " Nov. 4, ".....	652 50
" " " " " 11, ".....	644 75
" " " " " 18, ".....	1,041 50
" " " " " 25, ".....	926 00
" " " " Dec. 2, ".....	834 00
" " " " " 9, ".....	826 00
" " " " " 16, ".....	536 50
" " " " " 23, ".....	556 00
Hardware.....	137 35
Repairs to sprinklers and roof.....	170 08
Horse and wagon.....	270 00
Coal.....	41 00
Bass brooms.....	60 00
	10,237 24

Balance, December 31, 1893.....	\$717 82
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Boulevards, Roads and Avenues, Maintenance of—Salaries, 1893.....

Amount transmitted during the first quarter ending March 31, 1893.....	\$2,500 00
	624 99

Balance, April 1, 1893.....	\$1,875 01
Amount transmitted during the second quarter ending June 30, 1893.....	624 99

Balance, June 30, 1893.....	\$1,250 02
Amount transmitted during the third quarter ending September 30, 1893.....	624 99

Balance, September 30, 1893.....	\$625 03
Amount transmitted during the fourth quarter ending December 31, 1893.....	624 99

Balance, December 31, 1893.....	\$0 04
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The following amount has been transmitted during the quarter ending December 31, 1893, and charged to Street Improvement Fund:

Final payment—Crosswalks.....	\$143 42
Pay-roll, Inspector of Crosswalks.....	84 00
Surveyor's fees.....	54 54
Total.....	\$281 96

The following amount has been drawn against Restoring and Repaving—Special Fund.....

	\$1,321 25
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The following amount has been received during the quarter ending December 31, 1893, for use of Road Roller and Sprinkling Wagon and deposited to the credit of the General Fund.....

	\$42 00
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Document "K."

REPORT OF THE SUPERINTENDENT OF LAMPS AND GAS.

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF LAMPS AND GAS, NO. 31 CHAMBERS STREET, ROOM 11,  
NEW YORK, January 10, 1894.

Hon. MICHAEL T. DALY, Commissioner of Public Works:

SIR—In compliance with the directions contained in your circular letter of 16th ultimo, I herein submit a report of the transactions of the Bureau of Lamps and Gas for the quarter ending December 31, 1893, together with a summary for the year:

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

Exhibit "B" is a summary of the appropriation for "Lamps and Gas and Electric-lighting," showing an expenditure during the quarter of three hundred and twelve thousand nine hundred and thirty dollars and eighteen cents (\$312,930.18), and for the year of eight hundred and eighty-eight thousand six hundred and fourteen dollars and one cent (\$888,614.01), with outstanding liabilities for work not yet completed amounting to three hundred and thirty dollars (\$330), making a total expenditure for the year 1893 of eight hundred and eighty-eight thousand nine hundred and forty-four dollars and one cent (\$888,944.01), leaving a surplus balance of seventeen thousand and fifty-five dollars and ninety-nine cents (\$17,055.99). This surplus was caused by the delay of the several electric-light companies in getting their additional electric-lamps erected and lighted, so that instead of these lamps being lighted for the full year they were lighted only on an average of about seven months.

Exhibit "C" is a summary of the appropriation for "Salaries—Lamps and Gas and Electric-lighting," and this shows an expenditure during the quarter of fifteen hundred and twenty-seven dollars and seventy-three cents (\$1,527.73), and for the year of six thousand four hundred and two dollars and fifty-eight cents (\$6,402.58), leaving a surplus balance of ninety-seven dollars and forty-two cents.

Exhibit "D" is a summary of the "Lamp Account," showing the number of new lamps lighted, old lamps relighted and lamps discontinued by each gas and electric-light company during the quarter and the year: 630 new gas lamps and 52 new electric lamps having been lighted, 75 gas lamps relighted, 157 gas lamps and 1 electric lamp discontinued during the quarter; and 1,025 new gas lamps and 915 new electric lamps have been lighted, 232 gas lamps relighted, and 3,179 gas lamps and 11 electric lamps discontinued during the year. Of the gas lamps discontinued 2,833 were displaced by electric lamps. The total number of public lamps lighted on December 31, 1893, was 24,600 gas, 152 naphtha and 2,441 electric, making a total of 27,193.

Exhibit "E" is a statement showing the lowest, highest and average illuminating power of the gases supplied to the City during the quarter and the year by such of the gas companies as connect with our photometric stations.

Exhibit "F" is a copy of the time-table for lighting and extinguishing the public lamps.

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

By WHAT COMPANY.	FEET.	INCHES.
Consolidated Gas Company.....	131,495	..
New York Mutual Gas-light Company .....	7,390	..
Equitable Gas-light Company.....	59,884	7
Standard Gas-light Company.....	24,764	..
East River Gas-light Company.....	37,311	..
Central Gas-light Company.....	15,816	..
Northern Gas-light Company.....	3,200	..
Yonkers Gas-light Company.....	2,784	..
Total laid in 1893 .....	282,644	7

Or  $53\frac{282,644}{5,280}$  miles.

The Consolidated Gas Company has taken up 96,592 feet.  
The Consolidated Gas Company has abandoned 29,290 feet.  
The Central Gas-light Company has taken up 9,187 feet.  
The Northern Gas-light Company has taken up 10,050 feet.

The total miles of gas-mains in the streets of this city on December 31, 1893, was—

OF WHAT COMPANY.	MILES.	FEET.
Consolidated Gas Company.....	804	3,486
New York Mutual Gas-light Company.....	125	2,076
Equitable Gas-light Company.....	146	4,592
Standard Gas-light Company.....	143	2,940
East River Gas-light Company.....	7	351
Central Gas-light Company.....	65	1,227
Northern Gas-light Company.....	37	1,289
Yonkers Gas-light Company.....	19	2,197
Total .....	1,349	2,318

Of these mains,  $1,227\frac{282,644}{5,280}$  miles are on Manhattan Island, and  $121\frac{121,364}{5,280}$  miles are in the annexed territory north of Harlem river.

The franchise of the Equitable Gas-light Company, as fixed by the Gas Commission, requires this company to pay to the City at the rate of twenty cents for each lineal foot of main land; hence the amount received from this company for mains should be \$154,764.00. It is also compelled to light all the public street lamps situated on the lines of its mains, at a rate not to exceed \$12 per year for each lamp.

The Standard Gas-light Company is required by its charter (chapter 248 of the State Laws of 1886) to light the public lamps on the lines of its mains, at the rate of \$12.50 for each lamp per year of 3,833½ hours; but as the New York City table has a total of 4,000 hours per year, the company makes a charge of \$13.04½ per year for each lamp.

The gas supplied by the Consolidated Gas Company is manufactured at seven stations, viz.: Fourteenth Street Station (formerly Manhattan Gas-light Company), located at Fourteenth street and Avenue C; manufactures coal-gas.

Eighteenth Street Station (formerly Manhattan Gas-light Company), located at Eighteenth street and Tenth avenue; manufactures coal-gas.

Twenty-first Street Station (formerly New York Gas-light Company), located at Avenue A and Twenty-first street; manufactures water-gas.

Forty-second Street Station (formerly Metropolitan Gas-light Company), located at Forty-second street, North river; manufactures coal-gas.

Forty-fourth Street Station (formerly Municipal Gas-light Company), located at Forty-fourth street, North river; manufactures water-gas.

Ninety-ninth Street Station (formerly Knickerbocker Gas-light Company), located at Ninety-ninth street, East river; manufactures water-gas.

One Hundred and Eleventh Street Station (formerly Harlem Gas-light Company), located at One Hundred and Eleventh street and First avenue; manufactures coal-gas.

The general office of the company is at No. 4 Irving place; its capital is \$35,430,000, and the capacity of the several works is 30,000,000 cubic feet of gas per day.

Branch Office No. 1, at corner of Hester and Elizabeth streets, attends the gas supply, including the lighting of the public lamps in that part of the city lying south of the centre line of Houston street.

Branch Office No. 2, at No. 4 Irving place, attends to the gas supply, including the lighting of the public lamps in that part of the city lying north of the centre line of Houston street and south of the centre-line of Twenty-third street.

Branch Office No. 3, at the corner of Fourth avenue and Twenty-sixth street, attends to the gas supply, including the lighting of the public lamps, in that part of the city lying north of the centre line of Twenty-third street and east of the centre-line of Fifth avenue to Fifty-ninth street, and all east of Central Park, from Fifty-ninth street to the centre line of Seventy-ninth street.

Branch Office No. 4, at Broadway and Forty-sixth street, attends to the gas supply, including the lighting of the public lamps in that part of the city lying north of the centre line of Twenty-third street and west of the centre line of Fifth avenue to Fifty-ninth street, and on the west side of Central Park, between Fifty-ninth and One Hundred and Tenth streets, and south of the centre line of One Hundred and Tenth street, from Eighth avenue to the North river, including Transverse Roads Nos. 1 and 2.

Branch Office No. 6, at No. 2084 Third avenue, attends to the gas supply, including the lighting of the public lamps in that part of the city lying north of the centre line of Seventy-ninth street to One Hundred and Tenth street, east of the Central Park, and all the city north of One Hundred and Tenth street to Harlem river, including Transverse road No. 3, and the bridges over the Harlem river.

The New York Mutual Gas-light Company has mains in various streets or parts of streets between Battery place and Sixty-fifth street, and lights a portion of the public lamps north of Thirty-fourth street. It manufactures water-gas at its works at Eleventh street, East river, and its office is at Fourth avenue and Sixteenth street. The capital is \$3,500,000, and the capacity of its works is 4,000,000 cubic feet per day.

The Equitable Gas-light Company has mains in various streets between Division and Eighty-sixth streets, and it lights the public lamps on the line of its mains. Its works are at Forty-first street, East river. It manufactures water-gas, and its office is at Third avenue and Twenty-fifth street. The capital is \$4,000,000, and the capacity of its works is 6,000,000 cubic feet per day.

The Standard Gas-light Company has mains in various streets, between Thirteenth and One Hundred and Thirty-eighth streets and between Avenue C and St. Nicholas avenue. It has also a main under the Harlem river, from Second to Lincoln avenue, and in a few streets in the Twenty-third Ward. The works of this company are at One Hundred and Fifteenth street, East river, and its main office is at No. 71 Broadway, with branch offices at the corner of Forty-second street and Lexington avenue, and at No. 19 West One Hundred and Twenty-fifth street, and No. 2590 Third avenue. The manufacture is water-gas. Its capital is \$10,000,000 and the capacity of its present works is 4,000,000 cubic feet per day.

The East River Gas Company, of Long Island City, obtained its franchise from the State Legislature (chapter 338 of the Laws of 1892). By this law said corporation is required "to pay annually into the treasury of the City of New York three per centum of its gross receipts from gas furnished by it to private and public buildings in the City of New York." The gas-works of this company are now being constructed in Long Island City, and it is intended to supply gas to the City of New York by means of gas-mains laid in a tunnel now being constructed under the East river.

The Central Gas-light Company supplies gas to the Twenty-third Ward (formerly the Town of Morrisania), and lights all the public gas lamps therein. It manufactures coal gas at its works at One Hundred and Thirty-eighth street, East river, and its office is at No. 350 Alexander avenue. The capital is \$487,000 and the capacity of its works is 800,000 cubic feet per day.

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 gas-lamps therein. It manufactures coal gas at its works on the Bronx river, and its office is at No. 1845 Vanderbilt avenue. The capital is \$125,000 and the capacity of its works is 250,000 cubic feet per day.

The Yonkers Gas-light Company has mains in, lights the public lamps and supplies gas to that part of the Twenty-fourth Ward formerly Town of Kingsbridge, except the section known as Woodlawn Heights. Its gas works and office are in the City of Yonkers, Westchester County, and its manufacture is water gas. This company has been leased to the United Gas Improvement Company, and its business is principally confined to the City of Yonkers.

The New York and New Jersey Globe Gas-light Company lights 152 lamps at Woodlawn Heights in the Twenty-fourth Ward, being at the extreme north-easterly section of the City, and which is at present beyond the reach of gas-mains. The lamps are lighted by means of naphtha contained in a reservoir on each lamp.

The following additional streets have been lighted by gas during the year:

- Fiftieth street, from Beckman place, east one hundred feet.
- Seventy-fifth street, from West End avenue, to Riverside Drive.
- Seventy-eighth street, from Avenue A to East river.
- Seventy-ninth street, north side, from West End avenue to Riverside Drive.
- Ninetieth street, from Amsterdam avenue to Boulevard.
- Ninety-first street, from Amsterdam avenue to Boulevard.
- One Hundred and First street, from First avenue to East river.
- One Hundred and First street, from Madison to Park avenue.
- One Hundred and Sixth street, from West End avenue to Riverside Drive.
- One Hundred and Eleventh street, from Fifth to Lenox avenue.
- One Hundred and Twelfth street, from Fifth to Lenox avenue.
- One Hundred and Fifteenth street, from Lenox to Seventh avenue.
- One Hundred and Eighteenth street, from Madison to Fifth avenue.
- One Hundred and Thirty-fourth street, from Madison to Park avenue.
- One Hundred and Thirty-sixth street, from Madison to Fifth avenue.
- One Hundred and Thirty-seventh street, from Fifth to Lenox avenue.
- One Hundred and Thirty-eighth street, from Amsterdam avenue to Hamilton place.
- One Hundred and Thirty-ninth street, from Boulevard to four hundred feet west.
- One Hundred and Fortieth street, from Seventh to Eighth avenue.
- One Hundred and Forty-first street, from Fifth to Seventh avenue.
- One Hundred and Forty-second street, from Fifth to Lenox avenue.
- One Hundred and Forty-third street, from Convent to Amsterdam avenue.
- One Hundred and Forty-fifth street, from Fifth to Lenox avenue.
- One Hundred and Forty-fifth street, from Boulevard to Hudson river.
- One Hundred and Forty-eighth street, from St. Nicholas avenue to Boulevard.
- One Hundred and Forty-ninth street, from Amsterdam avenue to Boulevard.
- One Hundred and Fifty-fifth street, Viaduct Bridge, from Eighth avenue to Macomb's Dam road.
- One Hundred and Sixty-second street, from Kingsbridge road to Boulevard.
- One Hundred and Sixty-second street, from Kingsbridge road to four hundred feet east.
- One Hundred and Seventy-fifth street, south side, from Amsterdam avenue to Wadsworth avenue.
- One Hundred and Eighty-fifth street, south side, from Amsterdam avenue to Kingsbridge road.
- Avenue B, from Eighty-sixth to Eighty-ninth street.
- Bradhurst avenue, from One Hundred and Fifty-third to One Hundred and Fifty-fourth street.
- Central Park, West, east side, from Fifty-ninth to One Hundred and Tenth street.
- Fort George avenue, from Eleventh to Amsterdam avenue.
- Inwood street, from Kingsbridge road west six hundred feet.
- Kingsbridge avenue, from Terrace View avenue, north, to Terrace View avenue, south.
- Kingsbridge road, west side, from One Hundred and Ninetieth street to Ship Canal.
- Lexington avenue, from One Hundred and Thirtieth to One Hundred and Thirty-second street.
- McComb's Dam road, from Eighth avenue to One Hundred and Fifty-fourth street.
- Park avenue, east side, from Ninety-sixth to Ninety-seventh street.
- Ship Canal, temporary bridge.
- Terrace View avenue, from Broadway to Janson place.
- Van Corlear place, from Kingsbridge avenue to Jacobus place.
- Wicker place, from Kingsbridge avenue to Janson place.
- Eighth avenue, east side, from One Hundred and Tenth to One Hundred and Eleventh street.
- Eleventh avenue, from One Hundred and Eighty-fifth street to Fort George avenue.
- The following streets in Twenty-third Ward:
- Beach avenue, from Kelly street to Westchester avenue.
- Cedar place, from Eagle to Cauldwell avenue.
- Eagle avenue, from One Hundred and Fifty-sixth street to Cedar place.
- Fleetwood avenue, from One Hundred and Sixty-third to One Hundred and Sixty-fourth street.
- Grant avenue, from One Hundred and Sixty-fourth to One Hundred and Sixty-fifth street.
- Rogers place, from Westchester avenue to One Hundred and Sixty-fifth street.
- Tinton avenue, from Denman to Cedar place.
- Wales avenue, from Westchester avenue to One Hundred and Fifty-second street.
- One Hundred and Fifty-sixth street, from Beach to Prospect avenue.
- One Hundred and Sixty-ninth street, from Union avenue to Simpson street.
- The following streets in Twenty-fourth Ward:
- Anthony avenue, from Southern Boulevard to Potter place.
- Bainbridge avenue, from Kingsbridge road to Cole's lane.
- Bathgate avenue, from Third avenue to One Hundred and Eighty-eighth street.
- Briggs avenue, from Travers street to 500 feet south.
- Creston avenue, from One Hundred and Eighty-first street to Kirk place.
- Decatur avenue, from Travis to Isaac street.
- Decatur avenue, from Scott avenue to Mosholu parkway.
- Decatur avenue, from Gunhill road to Eclipse street.
- Decatur avenue, from Suburban street to 200 feet north.

Edenwood avenue, from St. James street to Kingsbridge road.  
 Elsmere place, from Prospect to Marmion avenue.  
 Fleetwood avenue, from One Hundred and Seventy-fifth street to Tremont avenue.  
 Fulton avenue, from One Hundred and Eighty-seventh street to Pelham avenue.  
 Hampden street, from Jerome avenue to Macomb's Dam road.  
 Irving street, from Ryer to Creston avenue.  
 Lowmede street, from Olin avenue to 500 feet south.  
 Marmion avenue, from Elsmere place to Tremont avenue.  
 Morris lane, from Sedgwick avenue to Macomb's Dam road.  
 Mount St. Vincent, from Riverdale avenue to Hudson River Railroad.  
 One Hundred and Eighty-fourth street, from Webster to Jerome avenue.  
 Palisade avenue, from Independence avenue to Koppock street.  
 Perry avenue, from Scott avenue to 400 feet east.  
 Ryer avenue, from One Hundred and Eighty-fourth to Irving street.  
 Sherwood street, from Briggs to Bainbridge avenue.  
 Summit street, from Anthony avenue to 300 feet east.  
 Taylor avenue, from Kingsbridge road to Columbine street.  
 Troy street, from Sidney street to 500 feet south.  
 Van Cortlandt avenue, from Palisade avenue to Park place.  
 Villa place, from Southern Boulevard to Potter place.

The total aggregate length of additional streets lighted during the year was 11.920 miles.  
 The total aggregate length of streets of the City lighted on December 31, 1893, was 549.887 miles.  
 The total length of bridges lighted was 2.890 miles.  
 The total length of piers lighted was 3.330 miles.  
 The total area of parks lighted was 70 acres.  
 The total area of Gansevoort Market Square lighted was 3 1/4 acres.

On December 11 and 22 last, awards of contracts were made by the Gas Commission for the lighting and maintenance of the public lamps for the year 1894, as follows:

TO WHOM AWARDED.	For gas to and lighting each lamp per year.	For each lamp-post straightened.	For each column re-leaded.	For each column re-fitted.	For each service-pipe refitted.	For each stand-pipe refitted.	For each lamp-post removed.	For each lamp-post reset.	For each new lamp fitted up.
Equitable Gas-light Company	\$12 00	\$1 50	\$1 50	\$3 50	\$4 00	\$4 00	\$3 50	\$10 00	\$10 00
Standard Gas-light Company	13 04 1/2	1 50	1 50	3 50	5 50	2 50	3 50	10 00	10 00
Consolidated Gas Company.	17 50	1 50	1 50	3 50	5 50	2 50	3 50	8 00	8 00
Central Gas-light Company.	24 00	1 50	1 50	1 50	3 50	2 00	3 50	8 00	8 00
Northern Gas-light Company.	28 00	1 50	1 50	3 00	3 50	2 00	3 50	8 00	8 00
Yonkers Gas-light Company.	28 00	1 00	1 00	1 00	3 50	2 00	1 50	8 00	8 00
* N. Y. and N. J. Globe Gas-light Company...	22 00	....	....	....	....	....	....	....	....

\*Naphtha Lamps.

FOR ELECTRIC-LIGHTING.

The Brush Electric Illuminating Company.

Sixth avenue, from Fourteenth to Thirty-third street.....	19 lamps.
Seventh avenue, from Fourteenth to Forty-sixth street.....	30 "
Eighth avenue, from Fourteenth to Forty-second street.....	25 "
Twenty-third street, from North river to Broadway.....	23 "
Twenty-ninth street, from First avenue to Broadway.....	11 "
Thirty-fourth street, from Broadway to Eighth avenue.....	5 "
Forty-second street, from North river to Fifth avenue.....	21 "
Bowery, from Park Row to Third avenue.....	29 "
Canal street, from Essex street to Broadway.....	17 "
Elizabeth street, from Canal to Houston street.....	10 "
New Bowery, from Chatham Square to Oak street.....	5 "
North William street, from Park Row to Frankfort street.....	2 "
Pearl street, from Fulton to Oak street.....	7 "
Park Row, from Ann street to Bowery.....	15 "
South William street, from Broad to Beaver street.....	3 "
Washington Park.....	15 "

At forty cents per night for each lamp, for..... 237 lamps.

Also on—

Broadway, from Fifteenth to Fifty-ninth street.....	46 lamps.
Madison Park.....	20 "
Union Park.....	12 "
Thirty-fourth street, from Eighth avenue to North river.....	12 "

At forty-five cents per night for each lamp, for..... 90 lamps.

Total..... 327 lamps.

The United States Illuminating Company.

Avenue B, from Houston to Sixth street.....	5 lamps.
Barclay street, from Broadway to North river.....	7 "
Battery Park.....	29 "
Beekman street, from Park Row to Pearl street.....	6 "
Bond street, from Bowery to Broadway.....	3 "
Broad street, from Pearl to Wall street.....	5 "
Broadway, from Battery place to Thirteenth street.....	53 "
Broome street, from Mott street to Crosby street.....	5 "
Catharine street, from East Broadway to East river.....	7 "
Centre street, from Canal to Broome street.....	3 "
Chambers street, from Broadway to North river.....	8 "
Dey street, from Broadway to West street.....	3 "
City Hall Park.....	17 "
Cortlandt street, from Broadway to North river.....	6 "
Duane street, from Broadway to Elm street.....	1 "
Elm street, from Reade to Pearl street.....	2 "
East Broadway, from Chatham square to Grand street.....	20 "
Exchange place, from Broadway to Hanover street.....	3 "
Franklin street, from Broadway to West Broadway.....	2 "
Fulton street, from North river to East river.....	17 "
Grand street, from Goerck to Sullivan street.....	31 "
Hanover street, from Exchange place to Pearl street.....	3 "
Houston street, from Avenue C to Broadway.....	17 "
Howard street, from Centre to Mercer street.....	4 "
Liberty street, from Broadway to North river.....	5 "
Maiden lane, from Broadway to William street.....	4 "
Pearl street, from Old Slip to Fulton street.....	9 "
South street, from Whitehall to Catharine street.....	32 "
Spring street, from Broadway to Greene street.....	1 "
State street, from Bowling Green to Pearl street.....	3 "
Sullivan street, from Canal to Grand street.....	1 "
Thomas street, from Church to Hudson street.....	2 "
University place, from Waverly place to Fourteenth street.....	6 "
Warren street, from Broadway to West street.....	5 "
West street, from Battery place to Desbrosses street.....	28 "
William street, from Pearl to Frankfort street.....	10 "
White street, from Broadway to West Broadway.....	2 "
Whitehall street, from Bowling Green to South Ferry.....	7 "
Worth street, from Park Row to Church street.....	10 "

At forty cents per night for each lamp, for..... 382 lamps.

The Mount Morris Electric-light Company.

Abingdon Park.....	1 lamps.
Thirteenth avenue, from Gansevoort to Bloomfield street.....	3 "
Third street, from Broadway to South Fifth avenue.....	3 "
One Hundred and Twenty-fifth street, from Lenox to Ninth avenue.....	11 "
Bank street, from Greenwich to Bleecker street.....	1 "
Battery Place, from Whitehall to West street.....	3 "
Beaver street, from Broadway to Wall street.....	7 "
Bleecker street, from Bowery to Thirteenth street.....	30 "
Bloomfield street, from West street to Thirteenth avenue.....	1 "
Broome street, from Broadway to Greene street.....	2 "
Canal street, from Broadway to North river.....	16 "
Centre street, from Tyron Row to Reade street.....	2 "
Christopher street, from West street to Sixth avenue.....	12 "
Christopher Street Park.....	1 "
Church street, from Chambers to Canal street.....	9 "
Desbrosses street, from West to Greenwich street.....	1 "
Duane street, from Church street to Broadway.....	1 "
Duane street, from Washington to West street.....	1 "
Franklin street, from Washington to West street.....	1 "
Gansevoort Market Square.....	13 "
Gansevoort street, from West street to Thirteenth avenue.....	1 "
Greene street, from Canal to West Fourth street.....	13 "
Greenwich street, from Battery Place to Vandam street.....	33 "
Greenwich avenue, from Horatio street to Eighth avenue.....	1 "
Horatio street, from Greenwich to Eighth avenue.....	1 "
Houston street, from Broadway to Greenwich street.....	13 "
Jackson Park.....	1 "
John street, from Broadway to Pearl street.....	7 "
Leonard street, from Broadway to Hudson street.....	4 "
Liberty street, from Broadway to William street.....	4 "
Lenox avenue, from One Hundred and Tenth to One Hundred and Thirty-sixth street.....	26 "
Macdougall street, from Vandam to Houston street.....	3 "
Morton street, from Greenwich to West street.....	3 "
Murray street, from Broadway to West street.....	6 "
Park place, from Broadway to West street.....	6 "
Pearl street, from Broadway to Elm street.....	1 "
Reade street, from Broadway to Centre street.....	2 "
Reade street, from Hudson to Church street.....	2 "
Reade street, from Washington to West street.....	1 "
South Fifth avenue, from Canal to West Fourth street.....	15 "
Spruce street, from Nassau to William street.....	1 "
Vandam street, from Greenwich to Macdougall street.....	5 "
Vesey street, from Broadway to West street.....	4 "
Walker street, from Broadway to West Broadway.....	2 "
Washington street, from Liberty to Canal street.....	18 "
West street, from Desbrosses to West Eleventh street.....	22 "
West Broadway, from Chambers to Canal street.....	10 "
West Washington Market.....	12 "
Wooster street, from Broome to Spring street.....	3 "

At forty cents per night for each lamp, for..... 339 lamps.

The Thomson-Houston Electric Company of New York.

Avenue A, from Houston to Twenty-fourth street.....	21 lamps.
First avenue, from Houston to Twenty-fourth street.....	23 "
Third avenue, from Bowery to Fifty-eighth street.....	50 "
Fourth avenue, from Bowery to Eighth street.....	3 "
Fourth avenue, from Fourteenth to Forty-second street.....	26 "
Eighth street, from Sixth to Fourth avenue.....	10 "
Tenth street, from Second avenue to East river.....	14 "
Fourteenth street, from Eighth avenue to East river.....	31 "
Twenty-third street, from Broadway to East river.....	17 "
Thirty-fourth street, from Broadway to East river.....	20 "
Forty-second street, from Fifth avenue to East river.....	17 "
Irving place, from Fourteenth to Twentieth street.....	6 "
Bryant Park.....	11 "
Stuyvesant Park, east and west.....	16 "
Stuyvesant street, from Eighth to Tenth street.....	3 "
Tompkins Park.....	21 "

At forty cents per night for each lamp, for..... 289 lamps.

Fourteenth street, from Eighth avenue to North river, at fifty cents per night for each lamp, for..... 10 "

Total..... 299 lamps.

The Harlem Lighting Company of the City of New York.

Third avenue, from Fifty-ninth street to Harlem Bridge.....	75 lamps.
Sixth avenue, from Thirty-fourth to Fifty-ninth street.....	23 "
Seventh avenue, from Forty-sixth to Fifty-ninth street.....	13 "
Eighth avenue, from Forty-second to Fifty-ninth street.....	16 "
Twenty-seventh street, from Madison to Sixth avenue.....	4 "
Twenty-eighth street, from Broadway to Sixth avenue.....	1 "
Fifty-ninth street, from Third avenue to Broadway.....	18 "
Eighty-sixth street, from Third avenue to East river.....	9 "
One Hundred and Twenty-fifth street, from Lenox avenue to East river.....	18 "
East River Park.....	30 "
Harlem Bridge (Third avenue), southerly span.....	2 "

At forty cents per night for each lamp, for..... 209 lamps.

Mount Morris Park, at fifty cents per night for each lamp, for..... 19 "

Total..... 228 lamps.

Manhattan Electric-light Company (Limited) of the City of New York.

First avenue from Forty-second to One Hundred and Twenty-fifth street.....	80 lamps.
Second avenue, from Forty-second to Eighty-sixth street.....	42 "
Thirty-eighth street, from Broadway to Seventh avenue.....	1 "
Fifty-seventh street, from Fourth to Sixth avenue.....	6 "
Fifty-eighth street, from Madison to Sixth avenue.....	4 "
Madison avenue, from Forty-first to Fifty-ninth street.....	17 "

At forty cents per night for each lamp, for..... 150 lamps.

The Edison Electric Illuminating Company of New York.

Fifth avenue, from Washington Square to Sixty-sixth street..... 107 lamps.

The North River Electric-light and Power Company.

One Hundred and Thirty-fourth street, from Lincoln avenue to Southern Boulevard.....	6 lamps.
One Hundred and Thirty-fifth street, from Third avenue to Southern Boulevard.....	6 "
One Hundred and Thirty-sixth street, from Third avenue to Southern Boulevard.....	9 "
One Hundred and Thirty-seventh street, from Third avenue to Southern Boulevard.....	10 "
One Hundred and Thirty-eighth street, from Madison Avenue Bridge to Southern Boulevard.....	16 "
One Hundred and Thirty-ninth street, from Third to St. Ann's avenue.....	6 "
One Hundred and Fortieth street, from Third to Brook avenue.....	4 "
One Hundred and Forty-first street, from Third avenue to Southern Boulevard.....	9 "
One Hundred and Forty-second street, from Alexander to Brook avenue.....	3 "
One Hundred and Forty-third street, from Alexander to St. Ann's avenue.....	6 "
One Hundred and Forty-fourth street, from St. Ann's to Mott avenue.....	10 "
One Hundred and Forty-fifth street, from Third to St. Ann's avenue.....	5 "
One Hundred and Forty-sixth street, from Third to St. Ann's avenue.....	3 "
One Hundred and Forty-seventh street, from Third to St. Ann's avenue.....	3 "
One Hundred and Forty-eighth street, from Willis to St. Ann's avenue.....	3 "

One Hundred and Forty-ninth street, from Mott avenue to Southern Boulevard	17 lamps.
One Hundred and Fiftieth street, from Third to Morris avenue	3 "
One Hundred and Fiftieth street and Walton avenue	1 "
One Hundred and Fifty-first street, from Third to Morris avenue	3 "
One Hundred and Fifty-second street, from Third to Morris avenue	3 "
One Hundred and Fifty-sixth street, from Morris to Cauldwell avenue	7 "
One Hundred and Sixty-first street, from Union to Jerome avenue	24 "
One Hundred and Sixty-sixth street, from Boston road to Union avenue	4 "
Alexander avenue, from Southern Boulevard to One Hundred and Forty-second street	10 "
Anderson avenue, from Orchard to Birch street	1 "
Bailey avenue, from Kingsbridge road to Boston avenue	4 "
Bathgate avenue, from One Hundred and Seventy-second street to Kingsbridge road	22 "
Birch street, from Jerome to Anderson avenue	3 "
Boston road, from Third avenue to Bronx river	28 "
Boston avenue, from Bailey to Sedgwick avenue	5 "
Broadway, from Riverdale avenue to Kingsbridge road	9 "
Brook avenue, from Southern Boulevard to One Hundred and Sixty-fifth street	18 "
Claremont avenue, from Highbridge street to Devoe street	2 "
Courtlandt avenue, from Third avenue to One Hundred and Sixty-first street	16 "
Depot place, from Sedgwick avenue to Harlem river	1 "
Elton avenue, from Third avenue to One Hundred and Sixty-second street	7 "
Featherbed lane, from Aqueduct avenue to Macomb's Dam road	3 "
Franklin avenue, from Third avenue to Crotona Park	15 "
Highbridge street, from Orchard to Devoe street	6 "
Jerome avenue, from Harlem river to Fordham Landing road	44 "
Kingsbridge road, from Third to Bailey avenue	20 "
Lane avenue, from Southern Boulevard to Tiffany street	5 "
Lincoln avenue, from Harlem river to One Hundred and Thirty-eighth street	7 "
Lind avenue, from Sedgwick avenue to Wolf street	5 "
Macomb's Dam road, from Jerome avenue to Featherbed lane	9 "
Madison Avenue Bridge, easterly end	2 "
Harlem Bridge, easterly end	2 "
Marcher avenue, from Orchard to Devoe street	3 "
Morris avenue, from One Hundred and Thirty-ninth to One Hundred and Sixty-fourth street	22 "
Mott avenue, from One Hundred and Thirty-eighth to One Hundred and Fifty-first street	9 "
Ogden avenue, from Jerome avenue to Orchard street	10 "
Orchard street, from Ogden to Anderson avenue	3 "
Rider avenue, from One Hundred and Thirty-eighth to One Hundred and Forty-fourth street	4 "
Riverdale avenue, from Bailey avenue to Spuyten Duyvil road	8 "
Sedgwick avenue, from Jerome avenue to Washington Bridge	19 "
Southern Boulevard, from Third to Washington avenue	40 "
St. Ann's avenue, from Southern Boulevard to One Hundred and Sixty-first street	23 "
Undercliff avenue, from High Bridge to Washington Bridge	5 "
Vanderbilt avenue, from One Hundred and Fifty-sixth to One Hundred and Sixty-first street	5 "
Vanderbilt avenue, from One Hundred and Sixty-fifth to One Hundred and Eightieth street	35 "
Walton avenue, from One Hundred and Forty-ninth to One Hundred and Fiftieth street	3 "
Washington avenue, from Third avenue to Kingsbridge road	42 "
Webster avenue, from One Hundred and Sixty-fifth to One Hundred and Seventy-ninth street	28 "
Westchester avenue, from Third avenue to Bronx river	28 "
Willis avenue, from Southern Boulevard to Third avenue	15 "
Wolf street, from Sedgwick to Ogden avenue	2 "
Third avenue, from Harlem Bridge to Pelham avenue	91 "
At forty-five cents per night for each lamp, for	800 "
Total	2,632 "

In addition to the foregoing, an award of contract has been made by yourself to the Equitable Gas-light Company, for furnishing illuminating gas of not less than thirty candle power, for the year 1894, to such of the public buildings under your charge as are situated on the lines of the gas-mains of said company, at the rate of one dollar and twenty-five cents per 1,000 cubic feet. Also one to the Consolidated Gas Company, for furnishing gas of not less than twenty candle power, at the rate of one dollar and twenty-five cents per 1,000 cubic feet.

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

OF WHAT COMPANY.	SULPHUR, (Grains in 100 Cubic Feet.)				AMMONIA, (Grains in 100 Cubic Feet.)				SULPHURETTED HYDROGEN.
	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	
Consolidated Gas Company, Twenty-first Street Station	3.46	4.14	5.92	4.80	0.31	0.40	2.18	0.88	Trace.
Consolidated Gas Company, Fourteenth and Eighteenth Street Stations	10.54	10.06	7.90	8.68	2.54	2.08	7.10	5.06	
Consolidated Gas Company, Forty-fourth Street Station	3.21	3.60	3.52	3.56	0.52	0.36	0.48	0.40	
Consolidated Gas Company, Forty-second Street Station	7.42	8.18	6.58	7.38	2.22	2.34	14.65	8.02	
Consolidated Gas Company, One Hundred and Eleventh Street Station	5.04	4.96	4.79	5.04	0.52	0.56	2.25	1.08	
New York Mutual Gas-light Company	8.82	7.44	5.13	7.18	0.24	0.16	0.08	0.12	Present
Equitable Gas-light Company	7.03	6.84	4.81	6.06	Trace	0.08	Trace	0.06	
Standard Gas-light Company	5.51	5.60	6.27	6.10	0.51	0.36	0.17	0.28	Trace.

The following shows the specific gravity of the gases:

OF WHAT COMPANY.	FIRST QUARTER.	SECOND QUARTER.	THIRD QUARTER.	FOURTH QUARTER.
Consolidated Gas Company, Twenty-first Street Station	.643	.612	.602	.616
Consolidated Gas Company, Fourteenth and Eighteenth Streets Stations	.536	.500	.509	.510
Consolidated Gas Company, Forty-fourth Street Station	.667	.648	.649	.650
Consolidated Gas Company, Forty-second Street Station	.546	.520	.504	.524
Consolidated Gas Company, Ninety-ninth and One Hundred and Eleventh Streets Stations	.608	.640	.606	.608
New York Mutual Gas-light Company	.736	.705	.726	.718
Equitable Gas-light Company	.706	.705	.688	.692
Standard Gas-light Company	.680	.666	.687	.670

The gases manufactured by the several companies are of the following kinds:  
 Consolidated Gas Company, Twenty-first Street Station, water-gas, "Tessie du Motay" process.  
 Consolidated Gas Company, Fourteenth and Eighteenth Streets Stations, coal-gas.  
 Consolidated Gas Company, Forty-fourth Street Station, water-gas, "Tessie du Motay" process.  
 Consolidated Gas Company, Forty-second Street Station, coal-gas.

Consolidated Gas Company, Ninety-ninth Street Station, water-gas, "Tessie du Motay" process.  
 Consolidated Gas Company, One Hundred and Eleventh Street Station, coal-gas.  
 New York Mutual Gas-light Company, water-gas, "Wilkinson's" process.  
 Equitable Gas-light Company, water-gas, "Jerzmanowski" process.  
 Standard Gas-light Company, water-gas, "Flannery" process.  
 Central Gas-light Company, coal-gas.  
 Northern Gas-light Company, coal-gas.  
 Yonkers Gas-light Company, water-gas, "Saulsbury" process.

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

OF WHAT COMPANY.	AVERAGE MAXIMUM PRESSURE.				AVERAGE MINIMUM PRESSURE.			
	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Consolidated Gas Company, Twenty-first Street Station	2.22	1.79	1.94	2.27	1.93	1.73	1.92	2.17
Consolidated Gas Company, Fourteenth and Eighteenth Street Stations	3.53	3.58	2.94	3.62	1.62	1.66	1.77	1.83
Consolidated Gas Company, Forty-fourth Street Station	3.56	3.56	3.63	3.88	1.71	1.74	2.23	2.02
Consolidated Gas Company, Forty-second Street Station	2.23	1.88	2.32	2.13	1.11	1.06	1.27	1.23
Consolidated Gas Company, One Hundred and Eleventh Street Station	2.67	2.53	2.84	2.92	1.49	1.49	1.71	1.71
New York Mutual Gas-light Company	3.13	3.78	3.79	4.05	2.03	2.50	2.71	2.78
Equitable Gas-light Company	3.84	3.44	3.43	3.70	1.59	1.56	2.04	1.70
Standard Gas-light Company	1.97	1.70	1.94	2.08	1.78	1.56	1.81	1.91

All the contracts awarded for the year 1894 have been prepared and are ready for execution, but they have not been signed because the adequacy and sufficiency of the sureties have not as yet been approved by the Comptroller.

All the contracts with the several gas and electric-light companies for lighting the streets, etc., for the year 1893, have been completed and final vouchers passed. Contracts have also been completed and final payments made with the Bartlett Lamp Manufacturing Company, for 1,950 street lamps at \$2.13 each; for 100 Boulevard lamps at \$4.75 each; for 1,950 globes at \$2 each. With M. J. Drummond, for 1,200 cast iron lamp-posts at 01 1/10 of a cent per pound; and with the Manhattan Supply Company for 12,000 glass street signs at 16 3/10 cents each.

Yours, respectfully,

S. MCCORMICK, Superintendent of Lamps and Gas.

EXHIBIT "A."

Statement Showing the Amount on Vouchers Drawn for Gas to the Various Public Markets, Offices, etc., and for Filling-up, Repairing, Lighting, etc., the Public Lamps for the First, Second, Third and Fourth Quarters of the Year 1893, with the Totals for the whole Year.

	FIRST QUARTER ENDING MARCH 31.	SECOND QUARTER ENDING JUNE 30.	THIRD QUARTER ENDING SEPT. 30.	FOURTH QUARTER ENDING DEC. 31.	TOTAL.
Washington Market	\$1,101 61	\$859 24	\$833 86	\$1,221 00	\$4,015 71
Catharine Country Market	40 64	32 00	36 38	48 12	157 14
Catharine Meat Market	30 12	21 38	16 76	30 00	98 26
Fulton Meat Market	354 62	314 50	258 37	365 49	1,292 98
Fulton Country Market	530 38	433 12	393 37	543 38	1,900 25
Essex Market	21 25	16 75	21 75	31 25	91 00
Centre Market	129 50	102 63	99 00	142 13	473 26
Clinton Market	291 49	221 24	168 38	265 37	946 48
Union Market	38 26	22 64	21 00	33 25	115 15
Tompkins Market	191 50	228 50	161 00	214 75	795 75
Jefferson Market	190 75	57 13	62 50	181 25	521 63
First District Police Court	300 12	292 62	255 25	354 50	1,202 49
Second District Police Court	136 75	103 00	36 50	94 75	371 00
Third District Police Court	76 50	54 75	42 75	75 00	249 00
Fourth District Police Court	150 50	114 50	90 75	148 75	504 50
Fifth District Police Court	3 25				3 25
First District Civil Court	23 37	5 12	87	14 26	43 62
Second District Civil Court	8 63	7 50	7 25	7 74	31 12
Fourth District Civil Court	19 00	13 00	6 00	14 25	52 25
Fifth District Civil Court	40 25	26 50	18 75	39 50	125 00
Sixth District Civil Court	12 25	10 25	8 00	13 00	43 50
Eighth District Civil Court	11 25	8 50	6 75	13 50	40 00
Ninth District Civil Court	38				38
Harlem Court-house	195 87	109 63	69 38	162 25	537 13
Court of Special Sessions	38 25	29 75	24 87	47 75	140 62
Brown Stone (Court-room) Building	316 63	258 62	167 00	340 37	1,082 62
New Court-house	2,131 38	2,076 25	2,020 88	2,493 88	8,722 39
City Hall	512 99	507 88	414 62	417 88	1,853 37
Corporation Counsel's Office	20 76	7 62	6 01	53 36	87 75
Corporation Attorney's Office	74 12	54 13	27 74	59 74	215 73
Public Administrator's Office	41 87	54 49	25 75	41 51	163 62
Board of Assessors	11 88	10 75	7 75	11 25	41 63
Department of Public Works	460 50	363 76	251 00	414 37	1,489 63
Department of Taxes	7 88	1 87			9 75
City Record Book Bindery	6 75	6 75	3 26	6 64	23 40
Register's Office	144 61	102 63	74 49	122 49	444 22
County Jail	371 50	289 25	261 00	364 00	1,285 75
Pipe Yard, Rivington street	5 51	3 88	3 25	5 00	17 64
Pipe Yard, East Twenty-fourth street	14 00	7 00	5 38	12 00	38 38
Water Purveyor's Shop, No. 186 Mulberry street	1 50	2 24	50	88	5 12
Water Purveyor's Shop, No. 134 West Thirtieth street	16 88	9 00	5 00	8 50	39 38
Water Purveyor's shop, East Eighty-seventh street	7 38	5 76	3 75	19 13	36 02

	FIRST QUARTER ENDING MARCH 31.	SECOND QUARTER ENDING JUNE 30.	THIRD QUARTER ENDING SEPT. 30.	FOURTH QUARTER ENDING DEC. 31.	TOTAL.
Water Purveyor's shop, East One Hundred and Twenty-fifth street	37				37
South Gate-house, Central Park	76 87	64 74	61 50	57 38	260 49
Engine-house, High-water Service, High Bridge.	148 63	127 63	119 88	141 62	537 76
Engine-house, High-water Service, West Ninety-eighth street	258 25	255 25	282 25	483 00	1,278 75
Clock Tower, Third District Court-house	185 00	195 00	198 75	199 63	778 38
New York City Civil Service Board	6 75	5 75	50	6 50	19 50
Bureau of Streets and Roads, West One Hundred and Nineteenth street	5 62	3 62	4 12	8 87	22 23
Bureau of Incumbrances	15 38	17 50	20 00	47 87	100 75
Dog Pound, East One Hundred and Second street	6 25	5 75	6 88	7 50	26 38
Photometric Station, Grand street	35 37	8 74	5 12	23 13	72 36
Photometric Station, No. 231 East Seventy-ninth street	20 38	14 75	88	15 13	51 14
Seventh Regiment Armory	1,860 75	843 50	286 75	1,524 91	4,515 91
Eighth Regiment Armory	1,385 13	1,029 49	566 87	1,140 38	4,121 87
Ninth Regiment Armory	384 37	261 00	100 63	367 25	1,113 25
Twelfth Regiment Armory	592 50	504 75	301 50	488 50	1,887 25
Twenty-second Regiment Armory	1,466 50	996 75	386 25	1,152 50	4,002 00
Sixty-ninth Regiment Armory	196 25	197 50	100 75	188 75	683 25
Seventy-first Regiment Armory	352 87	200 76	126 38	434 00	1,114 01
Troop "A" Armory	141 25	133 25	57 50	164 25	496 25
First Battery Armory	168 00	109 75	76 50	116 75	471 00
Second Battery Armory	169 50	47 50			217 00
Department of Buildings	3 50		2 75	3 25	9 50
Water Purveyor's shop, No. 355 Third avenue		26 40		14 74	41 14
Chief Engineer Croton Aqueduct		30 24	8 00	16 64	54 88
Commissioner of Street Improvements, Twenty-third and Twenty-fourth Wards		261 76		213 85	475 61
Public Bath, Battery		1 88	21 50	3 75	27 13
Public Bath, Duane street		37	21 49	2 75	24 61
Public Bath, Horatio street		87	28 12	5 25	34 24
Public Bath, Market street, East river		1 38	18 87	4 12	24 37
Public Bath, Grand street, East river		1 25	33 13	5 50	39 88
Public Bath, East Fifth street		2 00	26 88	5 38	34 26
Public Bath, East Eighteenth street		1 63	26 63	4 12	32 38
Public Bath, East Twenty-eighth street			22 37	2 50	24 87
Public Bath, West Fiftieth street		2 25	25 25	4 63	32 13
Public Bath, East Fifty-first street			34 38	4 00	38 38
Public Bath, East One Hundred and Twelfth street		1 50	27 12	2 00	30 62
Public Bath, East One Hundred and Thirty-eighth street		3 36		34 08	37 44
Corporation Yard, West Fifty-sixth street				4 25	4 25
Armory Ship "New Hampshire"				524 03	524 03
Lighting public markets, etc. (pay-roll)	743 50	831 00	785 50	796 50	3,156 50
Cleaning photometric stations (pay-roll)	15 00	15 00	15 00	15 00	60 00
Gas examinations	459 00	467 00	463 00	463 00	1,852 00
Cartages	525 00	532 00	364 00	700 00	2,121 00
Rent of Photometric room, Grand street	150 00	150 00	150 00	150 00	600 00
Rent of Photometric room, No. 231 East Seventy-ninth street	90 00	90 00	90 00	90 00	360 00
New lamp-posts	70 95	4,004 06	4,353 37	1,991 76	10,420 14
New Boulevard lamps	90 00	765 00	651 25	4,735 75	6,242 00
New crossheads	108 00	108 00	112 00	196 00	524 00
New street signs	93 75	37 50	176 48	1,784 31	2,092 04
New metal street signs	200 00	721 60	104 00	379 20	1,404 80
New street-lamps		200 00	1,424 40	2,615 85	4,240 25
New lamp irons		167 00	167 00	586 93	920 93
New lamp-brackets		100 25		222 20	322 45
Lettering Boulevard globes		90 00		180 00	270 00
Glass		43 95	93 75	402 39	540 09
Repairing street-lamps		434 68	501 00	562 77	1,498 45
Painting public lamp-posts				679 00	679 00
Painting lamp-posts, Madison Avenue Bridge				25 20	25 20
Repairing candelabra lamp-post				52 66	52 66
Supplies				37 31	37 31
Supplies to Photometric station				233 04	233 04
Wedges			15 00	15 00	30 00
Record pressure gauge	45 75				45 75
Fenders				105 00	105 00
Postage				14 54	14 54
Traveling expenses				143 30	143 30
Repairing gas-holder, Third Avenue Bridge			150 00		150 00
Fitting up new lamps	16 00	606 00	1,294 00	3,156 00	5,072 00
Fitting up new lamps, Twenty-third and Twenty-fourth Wards		208 00	440 00	2,080 00	2,728 00
Resetting and repairing lamp-posts	1,792 50	5,858 00	5,782 50	5,870 50	19,303 50
Resetting and repairing lamp-posts, Twenty-third and Twenty-fourth Wards	57 50	604 50	961 50	2,146 50	3,770 00
Lighting public gas lamps	56,994 07	83,273 75	79,926 61	107,558 96	327,753 39
Lighting public gas lamps, Twenty-third and Twenty-fourth Wards	20,527 93	28,286 06	26,762 78	35,829 83	111,406 60
Lighting public electric lamps	28,130 60	50,800 04	59,959 10	84,052 78	222,942 52
Lighting public electric lamps, Twenty-third and Twenty-fourth Wards	12,172 05	23,847 75	27,275 85	37,977 75	101,273 40
Lighting public naphtha lamps	557 34	836 01	836 01	1,114 68	3,344 04
Lighting incandescent lamps, City Hall		100 56	100 59	111 47	312 62
<b>Total</b>	<b>\$138,401 06</b>	<b>\$215,411 71</b>	<b>\$221,871 06</b>	<b>\$312,930 18</b>	<b>\$888,614 01</b>

RECAPITULATION.					
	FIRST QUARTER ENDING MAY 31.	SECOND QUARTER ENDING JUNE 30.	THIRD QUARTER ENDING SEPT. 30.	FOURTH QUARTER ENDING DEC. 31.	TOTAL.
Gas to public offices, etc	\$15,562 12	\$13,080 00	\$8,916 37	\$15,855 00	\$53,413 49
Supplies to public lamps, etc	2,590 95	7,911 04	9,615 75	17,176 71	37,294 45
Fitting up new lamps	16 00	606 00	1,294 00	3,156 00	5,072 00
Fitting up new lamps, Twenty-third and Twenty-fourth Wards		208 00	440 00	2,080 00	2,728 00
Resetting and repairing lamp-posts	1,792 50	5,858 00	5,782 50	5,870 50	19,303 50
Resetting and repairing lamp-posts, Twenty-third and Twenty-fourth Wards	57 50	604 50	961 50	2,146 50	3,770 00
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Lighting public electric lamps, Twenty-third and Twenty-fourth Wards	12,172 05	23,847 75	27,275 85	37,977 75	101,273 40
Lighting public naphtha lamps	557 34	836 01	836 01	1,114 68	3,344 04
Lighting incandescent lamps		100 56	100 59	111 47	312 62
<b>Total</b>	<b>\$138,401 06</b>	<b>\$215,411 71</b>	<b>\$221,871 06</b>	<b>\$312,930 18</b>	<b>\$888,614 01</b>

EXHIBIT "B."

Summary of the Appropriation for "Lamps and Gas and Electric Lighting," for the Year 1893, showing the Amounts of Vouchers drawn during each of the four Quarters of the year, with the Estimated Liabilities and the Estimated Surplus Balance.

Amount of the Appropriation for "Lamps and Gas and Electric Lighting" for the year 1893		\$906,000 00
Amount of vouchers drawn in first quarter	\$138,401 06	
Amount of vouchers drawn in second quarter	215,411 71	
Amount of vouchers drawn in third quarter	221,871 06	
Amount of vouchers drawn in fourth quarter	312,930 18	
<b>Total amount of vouchers drawn during the year</b>		<b>888,614 01</b>
<b>Balance</b>		<b>\$17,385 99</b>

LIABILITIES.

J. F. Fisk, Ornamental Lamp Post	\$105 00
John Benham, Lamp Map	225 00
<b>Surplus balance</b>	<b>\$17,055 99</b>

EXHIBIT "C."

Summary of the Appropriation for "Lamps and Gas and Electric Lighting—Salaries," for the Year ending 1893, showing the Amount of Vouchers drawn during each of the four Quarters of the Year, with the Balance Standing to the Credit of Appropriation.

Amount of appropriation for "Lamps and Gas and Electric Lighting" for the year 1893		\$6,500 00
Amount of vouchers drawn in first quarter	\$1,624 95	
Amount of vouchers drawn in second quarter	1,624 95	
Amount of vouchers drawn in third quarter	1,624 95	
Amount of vouchers drawn in fourth quarter	1,527 73	
<b>Total expenditure for the year</b>		<b>6,402 58</b>
<b>Surplus balance</b>		<b>\$97 42</b>

EXHIBIT "D."

Summary of the "Lamp Account," Showing the Number of New Lamps Lighted, Old Lamps Relighted and Lamps Discontinued by each Gas and Electric Light Company during the Quarter ending December 31, 1893.

CONSOLIDATED GAS COMPANY, BRANCH 1.			
Number of lamps lighted September 30, 1893	2,338		
Number of new lamps lighted during the quarter	2		
Number of old lamps relighted during the quarter	9	2,349	
Less lamps discontinued during the quarter	4		
Number of lamps discontinued during the quarter on account of electric lights	57		61
<b>Number of lamps lighted December 31, 1893</b>			<b>2,288</b>
CONSOLIDATED GAS COMPANY, BRANCH 2.			
Number of lamps lighted September 30, 1893	1,228		
Number of new lamps lighted during the quarter	1		
Number of old lamps relighted during the quarter	3	1,232	
Less lamps discontinued during the quarter	6		
Number of lamps discontinued during the quarter on account of electric lights	3		9
<b>Number of lamps lighted December 31, 1893</b>			<b>1,223</b>
CONSOLIDATED GAS COMPANY, BRANCH 3.			
Number of lamps lighted September 30, 1893	1,350		
Number of new lamps lighted during the quarter	10		
Number of old lamps relighted during the quarter	2	1,362	
Less lamps discontinued during the quarter	3		
Number of lamps discontinued during the quarter on account of electric lights	0		3
<b>Number of lamps lighted December 31, 1893</b>			<b>1,359</b>
CONSOLIDATED GAS COMPANY, BRANCH 4.			
Number of lamps lighted September 30, 1893	3,196		
Number of new lamps lighted during the quarter	121		
Number of old lamps relighted during the quarter	11	3,328	
Less lamps discontinued during the quarter	16		
Number of lamps discontinued during the quarter on account of electric lights	0		16
<b>Number of lamps lighted December 31, 1893</b>			<b>3,312</b>

CONSOLIDATED GAS COMPANY, BRANCH 6.			
Number of lamps lighted September 30, 1893.....	5,457		
Number of new lamps lighted during the quarter.....	254		
Number of old lamps relighted during the quarter.....	31	5,742	
Less lamps discontinued during the quarter.....	25		
Number of lamps discontinued during the quarter on account of electric lights.....	0	25	
Number of lamps lighted December 31, 1893.....			5,717
Total number of lamps lighted by Consolidated Gas Company.....			13,899
EQUITABLE GAS-LIGHT COMPANY.			
Number of lamps lighted September 30, 1893.....	3,991		
Number of new lamps lighted during the quarter.....	4		
Number of old lamps relighted during the quarter.....	5	4,000	
Less lamps discontinued during the quarter.....	2		
Number of lamps discontinued during the quarter on account of electric lights.....	0	2	
Number of lamps lighted December 31, 1893.....			3,998
STANDARD GAS-LIGHT COMPANY, MADISON SQUARE BRANCH.			
Number of lamps lighted September 30, 1893.....	1,065		
Number of new lamps lighted during the quarter.....	0		
Number of old lamps relighted during the quarter.....	0		
Less lamps discontinued during the quarter.....	1,065		
Number of lamps discontinued during the quarter on account of electric lights.....	0	0	
Number of lamps lighted December 31, 1893.....		1,065	
STANDARD GAS-LIGHT COMPANY, HARLEM BRANCH.			
Number of lamps lighted September 30, 1893.....	1,498		
Number of new lamps lighted during the quarter.....	0		
Number of old lamps relighted during the quarter.....	1		
Less lamps discontinued during the quarter.....	1,499		
Number of lamps discontinued during the quarter on account of electric lights.....	0		
Number of lamps lighted December 31, 1893.....		1,499	
Total number of lamps lighted by Standard Gas-light Company.....			2,564
NEW YORK MUTUAL GAS-LIGHT COMPANY.			
Number of lamps lighted September 30, 1893.....	94		
Number of new lamps lighted during the quarter.....	0		
Number of old lamps relighted during the quarter.....	0	94	
Less lamps discontinued during the quarter.....	0		
Number of lamps discontinued during the quarter on account of electric lights.....	0	0	
Number of lamps lighted December 31, 1893.....			94
CENTRAL GAS-LIGHT COMPANY.			
Number of lamps lighted September 30, 1893.....	1,088		
Number of new lamps lighted during the quarter.....	63		
Number of old lamps relighted during the quarter.....	10	1,161	
Less lamps discontinued during the quarter.....	2		
Number of lamps discontinued during the quarter on account of electric lights.....	33	35	
Number of lamps lighted December 31, 1893.....			1,126
NORTHERN GAS-LIGHT COMPANY.			
Number of lamps lighted September 30, 1893.....	2,067		
Number of new lamps lighted during the quarter.....	163		
Number of old lamps relighted during the quarter.....	3	2,233	
Less lamps discontinued during the quarter.....	6		
Number of lamps discontinued during the quarter on account of electric lights.....	0	6	
Number of lamps lighted December 31, 1893.....			2,227
YONKERS GAS-LIGHT COMPANY.			
Number of lamps lighted September 30, 1893.....	680		
Number of new lamps lighted during the quarter.....	12		
Number of old lamps relighted during the quarter.....	0	692	
Less lamps discontinued during the quarter.....	0		
Number of lamps lighted December 31, 1893.....			692
Total number of gas lamps lighted December 31, 1893.....			24,600
NAPHTHA LAMPS.			
NEW YORK AND NEW JERSEY GLOBE GAS-LIGHT COMPANY.			
Number of lamps lighted September 30, 1893.....	152		
Number of new lamps lighted during the quarter.....	0		
Number of old lamps relighted during the quarter.....	0		
Less lamps discontinued during the quarter.....	0	152	
Total number of naphtha lamps lighted December 31, 1893.....			152
ELECTRIC LAMPS.			
UNITED STATES ILLUMINATING COMPANY.			
Number of lamps lighted September 30, 1893.....	355		
Number of new lamps lighted during the quarter.....	25		
Number of old lamps relighted during the quarter.....	0		
Less lamps discontinued during the quarter.....	0	380	
Number of lamps lighted December 31, 1893.....			380

BRUSH ELECTRIC ILLUMINATING COMPANY.			
Number of lamps lighted September 30, 1893.....	326		
Number of new lamps lighted during the quarter.....	1		
Number of old lamps relighted during the quarter.....	0		
Less lamps discontinued during the quarter.....	0	327	
Number of lamps lighted December 31, 1893.....			327
THOMSON-HOUSTON ELECTRIC COMPANY OF NEW YORK.			
Number of lamps lighted September 30, 1893.....	298		
Number of new lamps lighted during the quarter.....	2		
Number of old lamps relighted during the quarter.....	0		
Less lamps discontinued during the quarter.....	0	300	
Number of lamps lighted December 31, 1893.....			300
MOUNT MORRIS ELECTRIC-LIGHT COMPANY.			
Number of lamps lighted September 30, 1893.....	339		
Number of new lamps lighted during the quarter.....	0		
Number of old lamps relighted during the quarter.....	0		
Less lamps discontinued during the quarter.....	0	339	
Number of lamps lighted December 31, 1893.....			339
HARLEM LIGHTING COMPANY OF CITY OF NEW YORK.			
Number of lamps lighted September 30, 1893.....	213		
Number of new lamps lighted during the quarter.....	0		
Number of old lamps relighted during the quarter.....	0		
Less lamps discontinued during the quarter.....	0	213	
Number of lamps lighted December 31, 1893.....			212
MANHATTAN ELECTRIC-LIGHT COMPANY, LIMITED.			
Number of lamps lighted September 30.....	69		
Number of new lamps lighted during the quarter.....	0		
Number of old lamps relighted during the quarter.....	0		
Less lamps discontinued during the quarter.....	0	69	
Number of lamps lighted December 31, 1893.....			69
EDISON ELECTRIC ILLUMINATING COMPANY.			
Number of lamps lighted September 30.....	104		
Number of new lamps lighted during the quarter.....	1		
Number of old lamps relighted during the quarter.....	0		
Less lamps discontinued during the quarter.....	0	105	
Number of lamps lighted December 31, 1893.....			105
NORTH RIVER ELECTRIC-LIGHT AND POWER COMPANY.			
Number of lamps lighted September 30.....	686		
Number of new lamps lighted during the quarter.....	23		
Number of old lamps relighted during the quarter.....	0		
Less lamps discontinued during the quarter.....	0	709	
Number of lamps lighted December 31, 1893.....			709
Total number of electric lamps lighted December 31, 1893.....			2,441
RECAPITULATION FOR QUARTER.			
Number of gas lamps lighted September 30.....	24,052		
Number of naphtha lamps lighted September 30.....	152		
Number of electric lamps lighted September 30.....	2,390		
Total number of lamps lighted September 30, 1893.....			26,594
Number of new gas lamps lighted during the quarter.....	630		
Number of new naphtha lamps lighted during the quarter.....	0		
Number of new electric lamps lighted during the quarter.....	52		
Number of old gas lamps relighted during the quarter.....	75		
Number of old naphtha lamps relighted during the quarter.....	0		
Number of old electric lamps relighted during the quarter.....	0		
Less gas lamps discontinued.....	64	27,351	
Less gas lamps discontinued on account of electric lamps.....	93		
Less naphtha lamps discontinued.....	0		
Less electric lamps discontinued.....	1	158	
Total number of lamps lighted December 31, 1893.....			27,193

Summary of the "Lamp Account" for the Year 1893.

CONSOLIDATED GAS COMPANY, BRANCH 1.			
Number of lamps lighted December 31, 1892.....	2,978		
Number of new lamps lighted during the year 1892.....	12		
Number of old lamps relighted during the year.....	17		
Less lamps discontinued during the year.....	13	3,007	
Less lamps discontinued during the year on account electric lights.....	706	719	
Number of lamps lighted December 31, 1893.....			2,288
CONSOLIDATED GAS COMPANY, BRANCH 2.			
Number of lamps lighted December 31, 1892.....	1,329		
Number of new lamps lighted during the year.....	9		
Number of old lamps relighted during the year.....	6		
Less lamps discontinued during the year.....	14	1,344	
Less lamps discontinued during the year on account electric lights.....	107	121	
Number of lamps lighted December 31, 1893.....			1,223

CONSOLIDATED GAS COMPANY, BRANCH 3.				NAPHTHA LAMPS.			
Number of lamps lighted December 31, 1892.....	1,453			NEW YORK AND NEW JERSEY GLOBE GAS-LIGHT COMPANY.			
Number of new lamps lighted during the year.....	10			Number of lamps lighted December 31, 1892.....	152		
Number of old lamps relighted during the year.....	13			Number of new lamps lighted during the year.....	0		
Less lamps discontinued during the year.....	16	1,476		Number of old lamps relighted during the year.....	0	152	
Less lamps discontinued during the year on account electric lights.....	101			Less lamps discontinued during the year.....	0	0	
Number of lamps lighted December 31, 1893.....			1,359	Total number of naphtha lamps lighted December 31, 1893.....			152
CONSOLIDATED GAS COMPANY, BRANCH 4.				ELECTRIC LAMPS.			
Number of lamps lighted December 31, 1892.....	3,269			UNITED STATES ILLUMINATING COMPANY.			
Number of new lamps lighted during the year 1892.....	141			Number of lamps lighted December 31, 1892.....	311		
Number of old lamps relighted during the year.....	31			Number of new lamps lighted during the year.....	97		
Less lamps discontinued during the year.....	42	3,441		Number of old lamps relighted during the year.....	0	408	
Less lamps discontinued during the year on account of electric-lights.....	87			Less lamps discontinued during the year.....	0	0	
Number of lamps lighted December 31, 1893.....			3,312	Less lamps transferred to Brush Electric Illuminating Company.....	28	28	
CONSOLIDATED GAS COMPANY, BRANCH 6.				Number of lamps lighted December 31, 1893.....			
Number of lamps lighted December 31, 1892.....	5,332						380
Number of new lamps lighted during the year.....	478			BRUSH ELECTRIC ILLUMINATING COMPANY.			
Number of old lamps relighted during the year.....	97			Number of lamps lighted December 31, 1892.....	252		
Less lamps discontinued during the year.....	190	5,907		Number of new lamps lighted during the year.....	59		
Less lamps discontinued during the year on account of electric-lights.....	0			Number of old lamps relighted during the year.....	0		
Number of lamps lighted December 31, 1893.....			5,717	Number of lamps transferred from United States Illuminating Company.....	28		
Total number of lamps lighted by Consolidated Gas Company, December 31, 1893.....			13,899	Number of lamps transferred from Thomson-Houston Electric Company.....	10		349
EQUITABLE GAS-LIGHT COMPANY.				Less lamps discontinued during the year.....			
Number of lamps lighted December 31, 1892.....	4,485				0		
Number of new lamps lighted during the year.....	27			Less lamps transferred to Thomson-Houston Electric Company.....	22	22	
Number of old lamps relighted during the year.....	12			Number of lamps lighted December 31, 1893.....			327
Less lamps discontinued during the year.....	11	4,524		THOMSON-HOUSTON ELECTRIC COMPANY OF NEW YORK.			
Less lamps discontinued during the year on account of electric-lights.....	515			Number of lamps lighted December 31, 1892.....	213		
Number of lamps lighted December 31, 1893.....			3,993	Number of new lamps lighted during the year.....	70		
STANDARD GAS-LIGHT COMPANY, MADISON SQUARE BRANCH.				Number of old lamps relighted during the year.....			
Number of lamps lighted December 31, 1892.....	1,250				0		
Number of new lamps lighted during the year.....	4			Number of lamps transferred from Brush Electric Illuminating Company.....	22		
Number of old lamps relighted during the year.....	2			Number of lamps transferred from Harlem Lighting Company.....	7		312
Less lamps discontinued during the year.....	3	1,256		Less lamps discontinued during the year.....	2		
Less lamps discontinued during the year on account of electric lights.....	188			Less lamps transferred to Brush Electric Illuminating Company.....	10	12	
Number of lamps lighted December 31, 1893.....			1,065	Number of lamps lighted December 31, 1893.....			300
STANDARD GAS-LIGHT COMPANY, HARLEM BRANCH.				MOUNT MORRIS ELECTRIC-LIGHT COMPANY.			
Number of lamps lighted December 31, 1892.....	1,497			Number of lamps lighted December 31, 1892.....	154		
Number of new lamps lighted during the year.....	3			Number of new lamps lighted during the year.....	185		
Number of old lamps relighted during the year.....	6			Number of old lamps relighted during the year.....	0	339	
Less lamps discontinued during the year.....	1,506			Less lamps discontinued during the year.....	0	0	
Less lamps discontinued during the year on account of electric lights.....	7			Number of lamps lighted December 31, 1893.....			339
Number of lamps lighted December 31, 1893.....			1,499	HARLEM LIGHTING COMPANY OF CITY OF NEW YORK.			
Total number of lamps lighted by Standard Gas-light Company December 31, 1893.....			2,564	Number of lamps lighted December 31, 1892.....	192		
NEW YORK MUTUAL GAS-LIGHT COMPANY.				Number of new lamps lighted during the year.....			
Number of lamps lighted December 31, 1892.....	129				28		
Number of new lamps lighted during the year.....	0			Number of old lamps relighted during the year.....	0		220
Number of old lamps relighted during the year.....	0			Less lamps discontinued during the year.....	1		
Less lamps discontinued during the year.....	0	129		Less lamps transferred to Thomson-Houston Electric Company.....	7	8	
Less lamps discontinued during the year on account of electric lights.....	35			Number of lamps lighted December 31, 1893.....			212
Number of lamps lighted December 31, 1893.....			94	MANHATTAN ELECTRIC-LIGHT COMPANY (LIMITED)			
CENTRAL GAS-LIGHT COMPANY.				Number of lamps lighted December 31, 1892.....			
Number of lamps lighted December 31, 1892.....	1,723				0		
Number of new lamps lighted during the year.....	90			Number of new lamps lighted during the year.....	69		
Number of old lamps relighted during the year.....	43			Number of old lamps relighted during the year.....	0	69	
Less lamps discontinued during the year.....	35	1,856		Number of lamps discontinued during the year.....	0	0	
Less lamps discontinued during the year on account of electric lights.....	695			Number of lamps lighted December 31, 1893.....			69
Number of lamps lighted December 31, 1893.....			1,126	EDISON ELECTRIC ILLUMINATING COMPANY OF NEW YORK.			
NORTHERN GAS-LIGHT COMPANY.				Number of lamps lighted December 31, 1892.....			
Number of lamps lighted December 31, 1892.....	2,433				51		
Number of new lamps lighted during the year.....	205			Number of lamps lighted during the year.....	54		
Number of old lamps relighted during the year.....	5			Number of old lamps relighted during the year.....	0	105	
Less lamps discontinued during the year.....	15	2,643		Number of lamps discontinued during the year.....	0	0	
Less lamps discontinued during the year on account of electric lights.....	401			Number of lamps lighted December 31, 1893.....			105
Number of lamps lighted December 31, 1893.....			2,227	NORTH RIVER ELECTRIC LIGHT AND POWER COMPANY.			
YONKERS GAS-LIGHT COMPANY.				Number of lamps lighted December 31, 1892.....			
Number of lamps lighted December 31, 1892.....	646				366		
Number of new lamps lighted during the year.....	46			Number of new lamps lighted during the year.....	343		
Number of old lamps relighted during the year.....	0			Number of old lamps relighted during the year.....	0	709	
Less lamps discontinued during the year.....	0	692		Less lamps discontinued during the year.....	0	0	
Less lamps discontinued during the year on account of electric lights.....	0			Number of lamps lighted December 31, 1893.....			709
Number of lamps lighted December 31, 1893.....			692	Total number electric lamps lighted December 31, 1893.....			2,441
Total number of gas-lamps lighted December 31, 1893.....			24,600	RECAPITULATION FOR THE YEAR.			
				Number of gas lamps lighted December 31, 1892.....			
				Number of naphtha lamps lighted December 31, 1892.....			
				Number of electric lamps lighted December 31, 1892.....			
				Number of new gas lamps lighted during the year.....			
				Number of new naphtha lamps lighted during the year.....			
				Number of new electric lamps lighted during the year.....			
				Total number of lamps lighted December 31, 1893.....			

Number of gas lamps relighted during the year.....	232	Less gas lamps discontinued during the year.....	346
Number of naphtha lamps relighted during the year.....	0	Less gas lamps discontinued during the year on account of electric lights.....	2,833
Number of electric lamps relighted during the year.....	0	Less naphtha lamps discontinued during the year.....	0
	232	Less electric lamps discontinued during the year.....	11
	30,383	Total number of lamps lighted December 31, 1893.....	3,190
			27,193

EXHIBIT "E."

Statement Giving the Illuminating Power in Candles of the Gas supplied to the City by the several Gas-light Companies during the Quarter ending December 31, 1893, as Shown by the Daily Observations at the Photometrical Rooms of the Department of Public Works.

FOR WHAT TIME.	CONSOLIDATED GAS CO., BRANCH 1.			CONSOLIDATED GAS CO., BRANCH 2.			CONSOLIDATED GAS CO., BRANCH 3.			CONSOLIDATED GAS CO., BRANCH 4.			CONSOLIDATED GAS CO., BRANCH 6.			N. Y. MUTUAL GAS-LIGHT CO.			EQUITABLE GAS-LIGHT CO.			STANDARD GAS-LIGHT CO.		
	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.												
October 7, 1893....	22.62	26.22	23.91	22.63	25.12	23.68	28.84	31.08	29.77	20.42	23.17	22.03	24.16	26.22	25.16	27.90	30.74	29.43	27.80	29.14	28.55	26.58	27.26	26.81
" 14, " ....	23.61	26.86	25.17	22.46	26.98	24.97	29.84	33.66	30.80	21.06	22.71	21.99	23.44	25.58	24.06	28.28	30.72	29.40	28.96	29.70	29.48	25.46	27.16	26.59
" 21, " ....	23.79	25.33	24.82	22.60	26.18	23.85	27.57	30.12	28.84	19.47	23.08	21.19	23.62	25.20	24.55	27.78	30.50	29.27	27.44	29.92	28.71	23.88	25.70	24.89
" 28, " ....	23.54	26.84	25.10	22.46	24.92	23.04	28.33	29.92	29.17	20.63	22.69	21.68	23.40	25.71	24.88	29.73	31.23	30.82	28.06	29.21	28.70	24.08	27.40	25.75
November 4, " ....	21.82	25.50	23.83	21.02	25.58	22.05	26.38	30.12	28.45	20.32	22.90	21.90	21.80	23.62	23.05	28.40	30.58	29.80	25.74	28.76	27.78	24.90	26.11	25.53
" 11, " ....	24.60	25.62	25.31	22.05	25.54	23.44	28.46	31.50	30.45	22.18	24.04	22.88	23.44	26.08	24.46	30.00	32.88	31.11	28.54	30.12	29.21	26.06	27.76	26.69
" 18, " ....	23.80	26.70	25.32	19.56	24.93	22.86	26.78	31.52	29.71	21.14	22.29	21.76	23.22	23.90	23.48	29.08	31.42	30.33	29.44	30.32	29.90	24.72	26.56	25.69
" 25, " ....	24.00	26.57	25.27	18.96	23.92	21.67	25.92	30.12	27.84	20.78	22.46	21.69	22.74	24.22	23.40	28.42	30.54	29.49	28.05	31.28	29.29	23.26	25.16	24.36
December 2, " ....	22.96	26.54	24.60	18.70	22.94	20.10	27.48	28.24	27.87	20.43	22.69	21.47	23.48	25.12	24.36	27.82	30.94	29.46	28.26	29.84	28.78	23.34	26.46	24.74
" 9, " ....	22.88	25.64	24.39	18.40	25.12	20.72	26.26	23.28	27.26	20.84	22.95	21.35	24.22	25.38	24.80	29.12	29.88	29.46	28.36	29.84	29.33	25.04	27.46	26.53
" 16, " ....	21.48	26.24	24.02	19.08	22.36	21.70	24.57	28.24	26.59	20.39	23.65	21.43	22.84	26.37	24.14	29.14	30.36	29.65	29.74	30.84	30.35	21.96	25.64	23.76
" 23, " ....	22.92	25.26	24.16	19.16	22.26	20.35	27.40	28.70	28.20	20.93	23.88	22.11	22.96	26.04	24.39	30.86	32.04	31.46	29.32	31.02	30.35	24.65	26.60	25.53
" 30, " ....	21.60	24.42	22.97	18.06	22.42	19.80	26.04	28.58	27.46	19.96	21.44	20.89	22.76	24.68	23.67	29.32	31.96	30.66	29.76	32.48	30.74	22.82	24.36	23.62
For Quarter .....	23.02	26.05	24.53	20.39	24.48	22.17	27.22	30.01	28.64	20.66	22.92	21.72	23.24	25.24	24.18	28.91	31.06	30.02	28.49	30.19	29.32	24.36	26.43	25.42
Distance from gas-works .....	1 1/8 Miles			1 1/8 Miles			3 1/8 Miles			3 1/8 Miles			1 1/8 Miles			1 1/8 Miles			2 1/8 Miles			1 1/8 Miles		
Testing burners.....	Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....														

Average for the Year.

FOR WHAT TIME.	CONSOLIDATED GAS CO., BRANCH 1.			CONSOLIDATED GAS CO., BRANCH 2.			CONSOLIDATED GAS CO., BRANCH 3.			CONSOLIDATED GAS CO., BRANCH 4.			CONSOLIDATED GAS CO., BRANCH 6.			N. Y. MUTUAL GAS-LIGHT CO.			EQUITABLE GAS-LIGHT CO.			STANDARD GAS-LIGHT CO.		
	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
January, 1893.....	21.58	23.62	22.50	19.53	21.23	20.27	26.63	28.51	27.52	19.73	21.78	20.83	22.70	24.62	23.56	28.69	31.13	29.80	29.09	30.73	29.99	23.32	25.41	24.20
February, " ....	23.19	24.96	23.99	19.32	21.40	20.29	26.84	28.64	27.83	20.78	22.78	21.84	23.19	24.94	24.01	29.38	31.21	30.39	28.75	30.26	29.61	22.71	25.22	24.07
March, " ....	22.65	24.90	23.74	19.69	20.98	20.39	26.87	28.62	27.79	21.58	23.33	22.58	23.29	25.46	24.25	28.46	30.38	29.69	27.85	30.39	29.40	22.92	25.07	24.00
April, " ....	21.40	24.53	23.12	19.32	20.79	20.23	26.14	28.12	27.16	19.96	22.61	21.27	25.81	27.48	26.81	27.82	30.21	29.42	28.33	30.20	29.23	24.75	27.11	26.17
May, " ....	22.29	24.80	23.29	19.79	21.98	20.74	26.06	28.49	26.97	20.76	22.69	21.87	25.87	27.90	25.99	28.85	30.64	29.87	28.79	30.08	29.56	25.02	27.49	26.13
June, " ....	21.86	24.38	22.95	21.03	22.88	22.15	26.64	28.78	27.90	19.71	21.62	20.79	25.48	26.93	26.23	27.93	29.88	29.02	29.28	31.33	30.22	25.84	28.02	27.28
July, " ....	21.81	25.22	23.41	20.36	22.87	21.82	27.57	29.61	28.39	21.07	22.76	21.91	25.69	27.51	26.59	28.40	30.37	29.49	29.17	30.58	29.86	25.84	27.26	26.61
August, " ....	22.18	26.17	24.30	20.78	24.38	22.60	28.07	29.31	28.61	21.10	22.63	21.97	25.27	26.99	26.17	28.70	30.41	29.45	28.68	30.45	29.61	27.27	28.89	27.94
September, " ....	22.18	26.78	24.13	20.64	24.01	22.43	27.62	29.78	28.63	20.62	22.38	21.42	24.22	25.90	25.01	29.49	31.20	30.41	29.19	30.80	30.02	26.90	27.95	27.25
October, " ....	23.39	26.56	24.75	22.65	25.80	23.88	28.64	31.10	29.64	20.39	22.91	21.72	23.68	25.68	24.64	28.74	30.87	29.73	28.06	29.49	28.86	25.00	26.88	26.01
November, " ....	23.50	26.20	24.93	20.39	25.00	22.50	26.88	33.31	29.11	21.10	22.92	22.06	22.80	24.45	23.59	28.37	31.25	30.18	28.19	29.99	29.04	24.78	26.39	25.56
December " ....	25.31	25.62	24.02	18.68	23.09	20.53	25.35	28.43	27.47	20.54	22.81	21.65	23.25	25.44	24.27	29.25	31.03	30.13	29.09	30.80	29.91	23.56	26.10	24.83
Totals for the Year....	22.61	25.31	23.76	20.19	22.86	21.48	27.02	29.39	28.09	20.61	22.60	21.66	24.27	26.11	25.17	28.72	30.71	29.79	28.72	30.44	29.61	24.82	26.81	25.83
Distance from gas-works .....	1 1/8 miles			1 1/8 miles			3 1/8 miles			3 1/8 miles			1 1/8 miles			1 1/8 miles			2 1/8 miles			1 1/8 miles		
Testing burner.....	Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 6.....			Bray's Slit Union No. 6.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....			Bray's Slit Union No. 7.....		
Gas .....	Water-gas (Tessie du Motay).....			Coal, with water-gas			Water-gas (Tessie du Motay).....			Coal and Naphtha....			Water-gas (Tessie du Motay)			Water-gas .....			Water-gas (Jerzmanowski process).....			Flannery process.		

EXHIBIT "F."

Time Table for Lighting and Extinguishing the Public Gas Lamps for the Year 1894.

MONTHS.	DATE.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.	MONTHS.	DATE.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.
January.....	1 to 7	H. M. 4.30	H. M. 6.35	April.....	2 to 8	H. M. 6.15	H. M. 4.50
" .....	8 to 14	4.40	6.35	" .....	9 to 15	6.25	4.40
" .....	15 to 21	4.50	6.30	" .....	16 to 22	6.30	4.30
" .....	22 to 28	5.00	6.30	" .....	23 to 29	6.40	4.20
" .....	29 to Feb. 4	5.05	6.20	" .....	30	6.45	4.00
February.....	5 to 11	5.10	6.15	May.....	1 to 6	6.45	4.00
" .....	12 to 18	5.20	6.00	" .....	7 to 13	6.55	3.40
" .....	19 to 25	5.30	6.00	" .....	14 to 20	7.00	3.30
" .....	26 to 28	5.30	5.50	" .....	21 to 27	7.10	3.15
March.....	1 to 4	5.30	5.50	" .....	28 to June 3	7.15	3.15
" .....	5 to 11	5.40	5.40	June.....	4 to 10	7.25	3.15
" .....	12 to 18	5.50	5.25	" .....	11 to 17	7.25	3.15
" .....	19 to 25	6.00	5.15	" .....	18 to 24	7.30	3.15
" .....	26 to Apr. 1	6.10	5.00	" .....	25 to July 1	7.30	3.15
July.....	2 to 8	H. M. 7.30	H. M. 3.15	October.....	1 to 7	H. M. 5.30	H. M. 5.00
" .....	9 to 15	7.30	3.15	" .....	8 to 14	5.20	5.10
" .....	16 to 22	7.20	3.15	" .....	15 to 21	5.10	5.20
" .....	23 to 29	7.20	3.15	" .....	22 to 28	5.00	5.30
" .....	30 to Aug. 5	7.10	3.30	" .....	29 to Nov. 4	4.45	5.35
August.....	6 to 12	7.10	3.45	November.....	5 to 11	4.40	5.45
" .....	13 to 19	6.55	4.00	" .....	12 to 18	4.30	6.00
" .....	20 to 26	6.45	4.10	" .....	19 to 25	4.25	6.00
" .....	27 to Sept. 2	6.30	4.20	" .....	26 to Dec. 2	4.20	6.10
September.....	3 to 9	6.15	4.30	December.....	3 to 9	4.20	6.15
" .....	10 to 16	6.05	4.40	" .....	10 to 16	4.20	6.20
" .....	17 to 23	5.55	4.50	" .....	17 to 23	4.20	6.20
" .....	24 to 30	5.40	5.00	" .....	24 to 31	4.20	6.25

DEPARTMENT OF PUBLIC WORKS—BUREAU OF LAMPS AND GAS, }  
NEW YORK, December 26, 1893. }

SIR—The above table will show the time for lighting and extinguishing the public lamps during the year 1894. All the lamps to be lighted within one hour from the time of beginning.  
MICHAEL T. DALY, Commissioner of Public Works.

S. McCORMICK, Superintendent of Lamps and Gas.

INSTRUCTIONS TO LAMP-LIGHTERS.

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

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-posts so removed to be reset at their own expense immediately upon the completion of the vault, under the penalty of twenty-five dollars for each offense.
- Sec. 226. No person shall attach, place or paste, or caused 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.
- Sec. 1953 of the New York City Consolidation Act of 1882. If any person shall wilfully break, take down or carry away any glass lamp hung or fixed in any of the streets of the City of New York, or extinguish the lights therein, or by aiding or abetting in the same, shall be subject to a fine of twenty-five dollars, and in default of payment of such fine the offender shall be committed to the penitentiary for the term of two months.

Document "L."

REPORT OF THE SUPERINTENDENT OF REPAIRS AND SUPPLIES.

CITY OF NEW YORK—DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF REPAIRS AND SUPPLIES,  
SUPERINTENDENT'S OFFICE, No. 31 CHAMBERS STREET, ROOM 15,  
NEW YORK, January 2, 1894.

Hon. MICHAEL T. DALY, Commissioner of Public Works:

SIR—In accordance with your instructions, I have the honor to submit the following report of the transactions of this Bureau for the quarter ending December 31, 1893, and a summary of the work done during the past year.

NEW CRIMINAL COURT-HOUSE.

This building is now practically completed as far as the existing contracts are concerned, and little remains to be done to fit the building for occupancy, except the partitions and railings required for the subdivision of the rooms to meet the wants of the several courts and offices for whose use it has been erected, and furnishing the same to meet their requirements.

The cleaning of the building is being proceeded with as fast as the several rooms are made ready.

A supply of coal has been put in and engineers and firemen employed to keep the building heated during the winter.

The rooms of the Street Cleaning Department have been made ready, and the office of the Department has been removed from the Stewart Building, and are now occupying their new rooms in the building.

Arrangements are being made for the removal of the office of the Excise Board to their room in the building; this work will be done so as to interfere as little as possible with the work of the office.

Specifications for carpets and furniture have been prepared, and the work of furnishing the courts and offices will be proceeded with as far as the appropriations for the same will admit.

THE COUNTY COURT-HOUSE.

Superior Court—A new cherry book-case was furnished for use of Judge Sedgwick. New curtains were put up behind the Judge's bench in Parts I. and II., and repairs made to the safe in the office of the Clerk of the Court.

Court of Common Pleas—Linoleum was laid around the Judge's bench in "Chambers," and a number of law books furnished for use of the Court. The water-tanks have been cleaned, and repairs made to the plumbing, steam and gas-fitting throughout the building. One barrel of cylinder and one barrel of machinery oil have been furnished for use of the Engineer, and about 1,000 feet of white pine and necessary hardware have been supplied for use of the carpenter in the employ of the Bureau.

THE CITY HALL.

The Mayor's Office—One 22-foot flag, with the City arms in blue on a white ground, was supplied for use of the office. Some circular-top shades were put on the windows. The electric current for operating the ventilating fans, and steam for heating and running the steam pump were supplied.

The City Court—Two new ivory gavels and some law books were supplied. The platform scale in the Park has been taken out to be overhauled and rebuilt, and will be completed and in place in a few days. The plumbing has been repaired, and one barrel of Phenyle disinfectant furnished for use in the toilet-rooms.

BROWN-STONE BUILDING.

Two gas radiators have been put up in the District Attorney's office, and some law books furnished for use of the Court of General Sessions. The waste-pipes have been overhauled and cleaned, and a barrel of Phenyle furnished to disinfect the closets and urinals.

THE HALL OF RECORDS.

A new desk has been furnished for use of the Satisfaction Clerk, and some repairs made to the glazing and plumbing work.

THE CORPORATION COUNSEL'S OFFICE, STAATS-ZEITUNG BUILDING.

The parquetry flooring in the entrance room on the fourth floor and three rooms on the third floor has been cleaned off, scraped smooth and filled and varnished. New gas-fixtures, chandeliers, brackets, desk-lights and tubing have been put up. A new case of shelving and pigeon-holes has been put up on the third floor and a case of shelving on the second floor; these have been painted and grained. 2 five-foot roll-top desks, 1 small desk, 2 rotary high stools, 1 black walnut wardrobe, 1 dozen office chairs, 5 rotary chairs, 1 Hayward arm-chair and 1 No. 21 rotary desk-chair and 3 large rugs have been furnished. Carpet has been laid in 1 room on the fourth floor, and linoleum laid in 3 other rooms. About 45 yards of Brussels carpet runners and some cocoa mats and small desk rugs has been supplied. New window shades, on Hartshorn's spring rollers, have been hung on the windows of the fourth floor.

THE STEWART BUILDING.

Finance Department—Three Smyrna rugs have been placed in the ante-room of the Comptroller's office. The speaking tube in the office of the Receiver of Taxes has been repaired, and the electric current supplied to operate the ventilating fans.

Department of Taxes and Assessments—The desks of the three Commissioners have been mounted with 5 push button boards, with necessary electric wiring, connecting them with 3 new drop annunciators, with battery and fixtures complete.

The Commissioner of Accounts—In this office the ash sash partition has been extended to the ceiling, so as to entirely enclose Commissioner Owens' room.

THE STREET CLEANING DEPARTMENT.

The office of this Department, being obliged to vacate their apartments in the Stewart Building, arrangements have been made for removing the safes and furniture, books and papers of the Department, to the office-rooms assigned for its use in the new Criminal Court Building. This work will be done as rapidly as possible, so as not to interfere with the business of the office.

THE MARKETS.

Washington Market—Repairs were made to the flooring near Stand No. 262.

Fulton Market—Repairs have been made to the flat tin roofs, and the slate roofs of the towers. The gutters between the towers on Beekman street side have been relined, 5 new galvanized iron chimney tops have been put up, and new roofing collars put round them. The leaders have been repaired and some new leader pipe put in. The valleys and pediments have been repaired and new treble-coated tin put in to replace the damaged tin removed. All the new tin was given two coats of metallic paint and the old tin one coat. The sewer pipes on South street side have been cleaned and repaired.

Catherine Market—One new glazed sash was put in one of the arches, and some repairs made to the glazing and flooring.

Centre Market—Two pair of doors have been repaired and two new glazed sashes put in, and repairs made to the glazing.

Clinton Market—Three new galvanized iron skylights were put up over Stands Nos. 17, 19 and 67.

Jefferson Market—The whole interior of the market has been cleaned off, and the ceilings, iron work, skylights, rods and braces painted three coats of lead and oil paint, and the doors, frames, window sashes, and trim on the first floor of the building, and the under side of the iron shed and front of the same were given two coats of lead and oil paint, and the glazing repaired.

Tompkins Market—The glazing has been repaired.

Union Market—The glazing has been repaired.

THE ARMORIES.

Troop "A" Armory—The timber butt in the range, back of the targets, has been rebuilt, and new blocks and timbers put in. A new door bell has been hung.

The Seventh Regiment Armory—A contract and specification were prepared for the pointing-up of the brick and stonework of the exterior of the building, this work was advertised and given out at public letting, and is now nearly completed. The lamps at the Fourth avenue entrance have been reglazed with polished bevel plate-glass.

Eighth Regiment Armory—The flag-poles have been puttied-up and painted, and new halyards were reeved through the trucks; six new galvanized iron leaders were put up to replace the old ones on the north and south sides of the building. These were connected with new leader heads and the sewer drains.

Ninth Regiment Armory—A new grate was put in the large boiler furnace.

Twenty-second Regiment Armory—Repairs have been made to the rifle range, the butts have been rebuilt and newly timbered, and a new cable, containing 33 electric wires, was put in and connected with the electric bells in the range. Some repairs have been made to the gas-fitting.

Sixty-ninth Regiment Armory—The furnaces under the boilers have been repaired and relined and two sets of grate bars furnished. About 75 new window sash cords were put in and the glazing repaired.

Naval Battalion—A supply of fuel has been furnished for use on board the armory ship "New Hampshire."

THE COURTS—POLICE AND CIVIL.

City Prison Courts—The chimneys were pointed-up with Portland cement, and four new galvanized iron chimney tops, with Emerson heads, put on to replace those damaged.

Second District Police Court—A safe, 62 inches high, 42 3/4 inches wide, and 28 1/2 inches deep, fitted up with suitable compartments, was furnished for use of the Clerk's office, and a dozen office and half a dozen rotary chairs were supplied.

Third District Police Court—The hot-air furnaces have been repaired and relined, and new smoke-pipe and about 30 feet of new hot-air tin pipe. A new register and chimney top furnished and put in place.

Fourth District Police Court—A new roll-top desk, a rotary desk-chair and six arm-chairs have been furnished for use of the Court, and new carpet laid on the Judge's bench and in the two basement rooms.

HARLEM COURT-HOUSE.

A new pair of storm doors were put up at the entrance; 4 pair of outside blinds and 4 pair of inside venetian blinds were hung on the windows of Janitor's rooms.

The walls and ceiling of the circular stairway have been repaired, the ceiling calcimined in tints, the walls painted 4 coats of lead and oil paint stippled, and a dado 3 1/2 feet high painted from bottom to top of stairs, lined, grained in walnut and varnished.

Repairs have been made to the roof and the two scuttle-holes covered with 18-ounce copper.

BOARD OF POLICE JUSTICES.

Bibles and law books for use of the Police Courts and the Police Justices have been supplied.

THIRD DISTRICT COURT-HOUSE.

A contract and specifications were prepared for the pointing-up and painting the entire exterior of the building, including the clock tower, and cleaning and pointing-up the stonework. This work was advertised and given out at public letting, and is now completed. All the joints in the brick work and masonry were cut out and pointed-up with the best quality of Portland cement, and the work jointed with steel jointers. The stonework was thoroughly cleaned off and the brickwork painted with lead and oil paint. The vestibule and circular stone stairway leading to the Civil Court was also cleaned and painted. This work, while adding greatly to the beautiful appearance of the building, will preserve the walls for many years.

Some law books have been furnished for use of the Third District Civil Court.

THE COUNTY JAIL.

Repairs have been made to the kitchen range, and a set of new grate-bars put in the boiler furnace.

THE BUILDING DEPARTMENT

Has been furnished with a letter-press stand.

DEPARTMENT OF STREET IMPROVEMENTS, TWENTY-THIRD AND TWENTY-FOURTH WARDS.

A 5-foot oak roll-top desk, 1 large rotary and 4 arm-chairs have been furnished, and a Tucker file, with 50 files, and case of 30 drawers (in oak), for legal blanks, have been supplied for use of the Attorney of the Department.

THE FREE FLOATING BATHS.

The baths are safely stored in winter quarters, at South Brooklyn, where they will be carefully examined with a view of ascertaining what repairs will be required to put the baths in order for the coming season.

SUMMARY.

Contracts and Specifications.

Contracts and specifications were made for the following work, materials and supplies during the year 1893:

- For 500,000 pounds of ice and 140 pieces for water coolers.
- For 5,000 tons of coal for the several buildings.
- For repairs to carpenter work on the baths.
- For repairs to tin roofs on the baths.
- For painting the baths.
- For pointing-up and painting the Third District Court-house.
- For pointing-up exterior walls of the Seventh Regiment Armory.
- For panel partitions and railings for sub-division of the fourth floor of New Criminal Court.
- For gas and electric combination fixtures for New Criminal Court Building.
- For flagging sidewalks around the New Criminal Court Building.
- For iron railings, snow and window guards for New Criminal Court Building.
- For balconies, columns, stairs, railings and gates for access to City Prison Yard from New Criminal Court Building.

For putting in columns and girders in the building corner of One Hundred and Forty-first street and Third avenue, the Department of Street Improvements, Twenty-third and Twenty-fourth Wards.

- For building a shed for the Department of Street Cleaning.
- For building an office and inclosed shed for the Bureau of Incumbrances—both of the above sheds are in the Corporation Yard, West Fifty-sixth street.
- For repairing the roofs of the Twelfth Regiment Armory.
- For repairing the roof of the Eighth Regiment Armory.
- For repairs to skylights and roof of Washington Market.
- For repairs to Fulton Market roof.
- For repairs to the roofs of the Seventh Regiment Armory.
- For repairs to Rifle Range, Twenty-second Regiment Armory.

In addition to the above work, the boiler furnaces in the County Court-house, Eighth Regiment Armory, Twelfth Regiment Armory, Seventh Regiment Armory, Sixty-ninth Regiment Armory, the County Jail and Harlem Court-house have been overhauled and relined, and new grate-bars furnished where needed.

In addition to the foregoing about 1,000 requisitions were drawn for repairs to carpentry, masonry, plastering, painting, plumbing, gas and steam-fitting, electric wiring, ironwork, glazing and other handicrafts. The repairs to slate and metal roofs, the furnishing of carpets, desks and other furniture, repairing, cleaning and regulating the public clocks, furnishing engineer's and cleaner's supplies, and toilet articles, window awnings and shades.

Besides this a supervision is kept over contractors, carpenters, janitors, engineers, and firemen, and male and female cleaners in the employ of the Bureau.

The care and supervision of the free floating baths is also an important feature in the work of the Bureau.

The careful examination of work done and materials furnished for use in the several buildings and offices, and the bills and vouchers rendered for the same constitutes a most exacting part of the work of the Bureau.

Respectfully,

W. G. BERGEN, Superintendent Repairs and Supplies.

Document "M."

REPORT OF THE SUPERINTENDENT OF INCUMBRANCES.

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF INCUMBRANCES, NO. 31 CHAMBERS STREET,  
NEW YORK, January 4, 1894.

Hon. MICHAEL T. DALY, Commissioner of Public Works:

DEAR SIR—I submit herewith the following report of the operations of this Bureau for the quarter ending December 31, 1893 (months of October, November and December), together with a condensed statement of the entire business transacted during the year, 1893:

- 728 complaints of obstructions received and attended to.
- 229 seizures and removals of obstructions made.
- 129 building material permits issued.
- 127 miscellaneous permits issued.
- 5 permits issued to cut down shade trees.
- 7 notices served to repair defective vault covers.
- Expense of seizing and removing 229 articles, including 467 loads of dirt, stone and rubbish, and throwing in dirt and refuse on premises at various places; removing 184 dead and dangerous trees, stumps, etc. \$4,148 05

Total expenses for the quarter. \$5,923 05

Received from owners for the redemption of seized articles. \$275 50

Received from public sale of unredeemed goods, November 6, 1893. 104 45

Total \$379 95

All of which was paid over to the City Chamberlain.

Salary account—Appropriation \$7,800 00

Expended up to December 31, 1893. 7,767 74

Balance \$32 26

Appropriation for the removal of obstructions and incumbrances. \$25,000 00

By additional transfer. 1,500 00

Expended up to December 31, 1893. \$26,500 00

Balance. 26,464 75

Balance. \$35 25

During the year 1893 the total number of complaints of obstruction received was. . . . .	3,714
Removals to the Corporation yards. . . . .	1,774
Removals of loads of dirt, stone and rubbish. . . . .	789
Removals of dead and dangerous trees, etc. . . . .	783
Removals of telegraph poles. . . . .	104
Removals of miles of electric wire (about). . . . .	399
Number of building permits issued. . . . .	4,920
Number of miscellaneous permits issued. . . . .	972
Number of permits issued to cut down trees. . . . .	19
Number of notices issued to repair defective vault covers. . . . .	32

APPROPRIATIONS FOR THE YEAR 1893.

For removing obstructions in streets and avenues. \$26,500 00

For removing obstructions in streets and avenues—Salaries. 7,800 00

Total. \$34,300 00

Summary of expenditures for the year, as follows:

Removals of redeemable obstructions. . . . .	\$3,253 25
Removals of dirt, stone, etc. . . . .	2,445 35
Removals of dead and dangerous trees, etc. . . . .	2,740 50
Removals of telegraph poles. . . . .	420 00
Removals of miles of electric wires. . . . .	10,094 50
Transportation expenses. . . . .	630 15
Expense of horse and wagon for Superintendent. . . . .	1,080 00
Salaries—Inspectors, Keeper of Corporation Yard, Watchman, Laborers and Foreman. . . . .	13,568 74
	\$34,232 49

Balance. \$67 51

Actual cost of removing obstructions and incumbrances. . . . .	\$3,253 25
Actual cost of removing telegraph poles. . . . .	420 00
Actual cost of removing electric wire. . . . .	10,094 50

Total. \$13,767 75

Received from owners of seized articles. \$2,738 75

Received from sales of unredeemed articles. 733 49

3,472 24

Difference. \$10,295 51

Respectfully,

MICHAEL F. CUMMINGS, Superintendent of Incumbrances.

Document "N."

REPORT OF THE WATER REGISTER.

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF WATER REGISTER, NO. 31 CHAMBERS STREET,  
NEW YORK, December 31, 1893.

Hon. MICHAEL T. DALY, Commissioner of Public Works:

SIR—I herewith transmit statement of moneys received for water rents, penalties and taps, for the quarter ending December 31, 1893:

	Principal.	Penalties.	Taps.
October. . . . .	\$242,035 74	\$3,739 95	\$813 00
November. . . . .	151,688 26	1,868 55	1,035 00
December. . . . .	126,896 40	1,002 10	566 00
Total amount. . . . .	\$520,620 40	\$6,610 60	\$2,414 00

Total amount. \$529,645 00

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

October. . . . .	\$1,976 05
November. . . . .	2,318 40
December. . . . .	607 69

Total. \$4,902 14

Special Fund—Repairing Streets—

October. . . . .	\$1,239 50
November. . . . .	1,522 00
December. . . . .	1,186 50

Total. \$3,948 00

I have the honor to also submit a statement of moneys received for the year ending December 31, 1893, and placed to the credit of their respective accounts with the City Chamberlain.

TOTAL RECEIPTS.

Regular water rates and penalties. . . . .	\$1,605,975 31
Water by meter measurement. . . . .	1,834,475 75
Permits for water for building purposes. . . . .	33,335 60
Permits for extras (boiler, etc.). . . . .	647 10
Receipts for meters on dock or steamboat meters. . . . .	99,474 20
473 permits for steamboats. . . . .	15,632 12
28 engines on wharves, etc. . . . .	817 80
	\$3,590,357 88

Water rents returned in arrears. . . . .	\$120,016 60
Water by meter measurement, arrears. . . . .	151,847 41

\$272,764 01

Pipe tapping receipts. \$9,938 50

Restoring pavements. \$15,046 00

Receipts for meter setting during the year 1893—Meter Fund No. 2. \$11,454 76

Amount returned to Bureau of Arrears. 6,473 57

\$17,928 33

1,178 permits issued for building purposes.

2,315 permits issued for taps.

The amount received during the year for restoring pavements, \$15,046, is reserved for repairing openings in streets made for the purpose of connecting water-pipes with buildings, etc. The special meter fund account of \$11,454.76 is reserved and set apart to reimburse the city for advances made for meters and meter settings.

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

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

YEAR.	INSTITUTION.	RATED.	LOCATION.	AMOUNT.
1888	Association for the Relief of Aged and Indigent Females. . . . .	Reg. rents.	Tenth avenue and One Hundred and Fourth street. . . . .	45 00
1889	Asylum of St. Vincent de Paul. . . . .	Meter. . . . .	No. 211 West Thirty-ninth street. . . . .	309 70
1891	Association for Befriending Children and Young Girls. . . . .	" . . . . .	No. 132 Second avenue. . . . .	12 50
1888	Baptist Home for Aged and Infirm Persons. . . . .	" . . . . .	Fourth avenue and East Sixty-eighth street. . . . .	128 30
1888	Colored Orphan Asylum. . . . .	" . . . . .	One Hundred and Forty-third street and Northern Boulevard. . . . .	639 20
1892	Die Deutsche Poliklinik. . . . .	Reg. rents. . . . .	No. 78 Seventh street. . . . .	16 00
1890	Day Nursery and Babies' Shelter. . . . .	" . . . . .	No. 118 West Twenty-first street. . . . .	20 00
1888	French Benevolent Society. . . . .	" . . . . .	No. 131 West Fourteenth street. . . . .	27 00

YEAR.	INSTITUTION.	RATED.	LOCATION.	AMOUNT.	YEAR.	INSTITUTION.	RATED.	LOCATION.	AMOUNT.
1888	German Hospital Dispensary	Meter	Nos. 135 and 137 Second avenue	\$55 60	1890	The Guardian of the Sisterhood of the Holy Communion	Reg. rents	No. 328 Sixth avenue	\$27 00
1888	German Hospital and Dispensary	"	Park avenue and Seventy-seventh street	724 70	1892	The Samaritan Home for the Aged	"	No. 414 West Twenty-second street	28 00
1888	Hebrew Sheltering and Guardian Society	"	Northeast corner of Eighty-seventh street and Avenue A	190 90	1892	The Institution for Improved Instruction of Deaf Mutes	Meter	West side Lexington avenue, from Sixty-seventh to Sixty-eighth street	1,018 40
1888	Hebrew Sheltering and Guardian Society	"	West side Boulevard One Hundred and Fiftieth and One Hundred and Fifty-first streets	801 80	1892	The New York Home for Convalescents	Reg. rents	No. 433 East One Hundred and Eightieth street	10 00
1888	Home for the Aged and Indigent Women	"	Southeast corner of Tenth avenue and One Hundred and Fourth street	120 10	1892	The Free Home for Destitute Young Girls	"	No. 23 East Eleventh street	16 95
1888	Home for the Aged and Infirm Hebrews	"	Nos. 110 and 127 West One Hundred and Fifth street	222 30	1892	The American Female Guardian Society	"	No. 32 East Thirtieth street through to No. 29 East Twenty-ninth street	62 00
1888	Hebrew Benevolent and Orphan Asylum Society	"	West side Tenth avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-eighth streets	2,441 30	1893	The Harlem Eye, Ear and Throat Infirmary	"	No. 144 East One Hundred and Twenty-seventh street	9 00
1889	Home of Good Shepherd, St. Ann's Home	Reg. rents	Southeast corner Eighty-ninth street and Avenue A	38 80	1893	The Louis Down-town Sabbath and Daily School	"	No. 267 Henry street	20 00
1888	Hahnemann Hospital	Meter	East side Fourth avenue, between Sixty-Seventh and Sixty-eighth streets	447 60	1892	The House of the Holy Comforter	"	No. 149 Second avenue	38 00
1890	Home for Old Men and Aged Couples	Reg. rents	Nos. 487 to 491 Hudson street	32 00	1892	The Home for Incurables	Meter	Block bounded by Third avenue, Kings-bridge road and Quarry road	1,139 30
1889	Home for the Aged Little Sisters of the Poor	Meter	Nos. 201 to 215 East Seventieth street	175 50	1892	The Sisterhood of the Good Shepherd	Reg. rents	Nos. 417 and 419 West Nineteenth street	22 00
1889	Home for the Aged Little Sisters of the Poor	"	North side West One Hundred and Sixth street, Ninth and Tenth avenues	175 10	1893	The Young Womans' Christian Association	Meter	No. 7 East Fifteenth street and Nos. 14 and 16 East Sixteenth street	328 10
1888	House of the Good Shepherd	"	Foot of East Ninetieth street	640 00	1888	Womans' Hospital	"	Fiftieth street and Park avenue	595 10
1888	"	"	Southeast corner Avenue A and Ninetieth street	327 80	1891	West Side Day Nursery	Reg. rents	No. 266 West Fortieth street	8 00
1888	Leake and Watts Orphan Home	"	West One Hundred and Tenth street and Ninth avenue	95 30	1891	Womans' Home	Meter	No. 110 Second avenue	82 50
1887	Manhattan Dispensary and Hospital	Reg. rents	One Hundred and Thirty-first street and Tenth avenue	32 00					\$32,606 00
1888	Manhattan Eye and Ear Hospital	Meter	No. 103 Park avenue	247 90					
1888	Methodist Episcopal Church Home	"	Nos. 1584 to 1602 Tenth avenue	219 00					
1889	Montifore Home for Chronic Invalids	"	Boulevard and West One Hundred and Thirty-fifth street	497 60					
1888	Mount Sinai Hospital	"	East side Lexington avenue, Sixty-sixth and Sixty-seventh streets	1,091 60					
1892	New York Institution for the Blind	"	East side Ninth avenue, between Thirty-third and Thirty-fourth streets	1,048 00					
1888	New York Founding Asylum	"	Third and Lexington avenues, Sixty-eighth and Sixty-ninth streets	1,220 80					
1888	"	"	Spuytten Duyvil	128 40					
1888	New York Asylum for Lying-in Women	Reg. rents	No. 139 Second avenue	12 00					
1888	New York Cancer Hospital	Meter	Southeast corner One Hundred and Sixth street and Eighth avenue	269 10					
1888	New York Hospital and Bloomingdale Asylum	"	No. 165 Chambers street, Nos. 7 to 21 West Fifteenth street	2,821 40					
1888	New York Homoeopathic Hospital	Reg. rents	No. 8 West Sixteenth street; also Boulevard, One Hundred and Seventeenth and One Hundred and Eighteenth streets	1,402 20					
1888	New York Ophthalmic Hospital	Meter	West side Avenue A, Sixty-third and Sixty-fourth streets	50 00					
1888	New York Post Graduate	Reg. rents	No. 201 East Twenty-third street	122 50					
1888	New York Society for the Relief of Ruptured and Crippled	Meter	No. 226 East Twentieth street	52 00					
1889	New York Infirmary for Women and Children	Reg. rents	No. 135 East Forty-second street	454 50					
1889	New York Mothers' Home for the Sisters of Misericorde	"	No. 4 and 5 Livingston place	39 00					
1888	Nursery and Child's Hospital	Meter	No. 531 East Eighty-sixth street	21 00					
1891	New York Juvenile Asylum	"	No. 571 Lexington avenue	577 70					
1890	New York Eye and Ear Infirmary	"	East side Eleventh avenue, between One Hundred and Seventy-sixth and One Hundred and Seventy-eighth streets	1,662 20					
1888	Protestant Episcopal Orphan Home and Asylum	"	No. 218 Second avenue	70 00					
1888	Presbyterian Hospital	"	East Forty-ninth street, between Lexington and Fourth avenue	241 90					
1890	Peabody Home for Aged and Indigent Women	Reg. rents	Park avenue and East Seventieth street	756 70					
1888	Roman Catholic Orphan Asylum	"	Boston road and Clover street	.....					
1888	Roosevelt Hospital	Meter	East side Fifth avenue, between Fifty-first and Fifty-second streets; south side East Fifty-second street, between Fifth and Madison and Madison and Fourth avenues	1,709 00					
1887	Sisters of the Order of St. Dominick	Reg. rents	South side West Fifty-ninth street, between Ninth and Tenth avenues	1,040 90					
1888	Skin and Cancer Hospital	Meter	Nos. 137 to 143 Second street	40 00					
1888	Sloan Maternity Hospital	"	No. 243 East Thirty-fourth street, Fordham Heights	120 00					
1888	St. Elizabeth Hospital	"	Fifty-ninth street and Tenth avenue	144 90					
1888	St. Francis Hospital	"	No. 225 West Thirty-first street	32 60					
1888	St. Joseph's Hospital	Reg. rents	No. 609 Fifth street	450 30					
1888	St. Joseph's Hospital	"	East One Hundred and Forty-third and East One Hundred and Forty-fourth streets, between St. Ann's and Brook avenues	15 00					
1888	St. Luke's Hospital	Meter	No. 17 West Fifty-fourth street	760 10					
1888	St. Vincent's Hospital	"	Nos. 152 to 162 West Eleventh street and Nos. 160 to 174 West Twelfth street; Also Nos. 17 and 19 Seventh avenue	308 20					
1888	St. James' Home	Reg. rents	No. 26 James and No. 22 Oliver street	34 00					
1888	St. Phillip's Parish Home	"	No. 127 West Thirtieth street	10 00					
1888	St. Joseph's Home for the Aged	"	No. 211 West Fifteenth street	200 00					
1888	St. Joseph's Orphan Asylum	"	No. 211 West Fifteenth street	200 00					
1888	St. Mary's Free Hospital for Children	Meter	North side Eighty-ninth street, between First avenue and Avenue A	9 00					
1888	Society for the Relief of Half Orphans and Destitute Children	Reg. rents	Nos. 405 and 407 West Thirty-fourth street Manhattan avenue, between One Hundred and Fourth and One Hundred and Fifth streets	133 10					
1890	St. Mary's Lodging-house	"	No. 143 West Fourteenth street	227 50					
1891	St. Joseph's Industrial Home	"	No. 143 West Fourteenth street	33 00					
1890	Sheltering Arms	"	No. 65 East Eighty-first street	240 00					
1891	St. Joseph's Institution for the Improved Instruction of Deaf Mutes	Reg. rents	South side One Hundred and Twenty-ninth street, between Amsterdam avenue and Broadway	34 40					
1885	St. Joseph's Home, not exempt since 1887	Meter	West side Amsterdam avenue, between Lawrence street and Broadway	116 00					
1892	St. Elizabeth Industrial School	Reg. rents	North side Lawrence street, between Amsterdam avenue and Broadway	21 85					
1888	Trinity Corporation	Meter	Lorrillard place, between One Hundred and Eighty-eighth and One Hundred and Eighty-ninth streets	24 00					
1888	The Orphan Asylum of the City of New York	"	Nos. 145 and 147 East Twenty-eighth street	300 40					
1888	The Laura Franklin Free Hospital	"	No. 235 East Fourteenth street	20 00					
1890	The Home for the Aged of the Church of the Holy Communion	Reg. rents	No. 50 Varick street	86 40					
1890	The St. Mark's Hospital	"	West Seventy-third street, between Eleventh avenue and Riverside Drive	435 60					
1890	The Five Points House of Industry	Meter	Nos. 15 and 17 East One Hundred and Eleventh street	115 60					
1890	The Colored Home and Hospital	"	No. 330 First avenue	11 00					
1890	The New York Society for the Prevention of Cruelty to Children	Reg. rents	No. 66 St. Mark's place	15 00					
1890	The Babies' Hospital	"	No. 147 to 155 Worth street	10 30					
1891	The House of Mercy	Meter	First avenue, between Sixty-fourth and Sixty-fifth streets	1,309 50					

REVENUE.

THE FOLLOWING TABLE EXHIBITS THE YEARLY REVENUE DERIVED FROM CROTON WATER FROM ITS INTRODUCTION INTO THE CITY IN THE YEAR 1842 TO JANUARY 1, 1894.	STATEMENT OF ARREARS OF WATER RENTS RETURNED TO THE COMPTROLLER, CLERK OF ARREARS, ACCORDING TO LAW, AND COLLECTED BY THE CLERK OF ARREARS.	TOTAL REVENUE.	
From 1842 to January 1, 1882.....	\$36,691,648 57	\$1,696,097 01	\$38,387,745 58
" Jan. 1, 1882, to Jan. 1, 1883.....	1,647,183 25	100,743 81	1,747,927 06
" " 1, 1883, " 1, 1884.....	1,869,518 96	169,558 61	2,039,077 57
" " 1, 1884, " 1, 1885.....	1,985,329 32	164,689 55	2,150,018 87
" " 1, 1885, " 1, 1886.....	2,122,411 83	117,041 07	2,239,452 90
" " 1, 1886, " 1, 1887.....	2,343,792 61	165,425 18	2,509,217 79
" " 1, 1887, " 1, 1888.....	2,514,343 92	154,043 30	2,668,387 22
" " 1, 1888, " 1, 1889.....	2,437,962 66	149,100 25	2,587,062 91
" " 1, 1889, " 1, 1890.....	2,544,650 07	237,401 27	2,782,051 34
" " 1, 1890, " 1, 1891.....	2,675,135 86	304,869 38	2,980,005 24
" " 1, 1891, " 1, 1892.....	3,056,168 66	441,679 69	3,497,848 35
" " 1, 1892, " 1, 1893.....	3,002,647 35	272,764 01	3,275,411 36
" " 1, 1893, " 1, 1894.....	3,590,357 88	.....	3,590,357 88
Total.....	\$66,481,150 94	\$3,973,413 13	\$70,454,564 07

The amount of Revenue from the Water Service collected and paid into the City Treasury during the past year shows an increase of \$587,710.53 more than the collection for the year 1892.  
Respectfully submitted,  
JOSEPH RILEY, Water Register.

COMMISSIONERS OF THE SINKING FUND OF THE CITY OF NEW YORK.

Proceedings of the Commissioners of the Sinking Fund at a Meeting held at the Mayor's Office at 1 o'clock P. M. on Tuesday, April 10, 1894.

Present—Thomas F. Gilroy, Mayor; Ashbel P. Fitch, Comptroller; Joseph J. O'Donohue, Chamberlain, and Nicholas T. Brown, Chairman Committee on Finance, Board of Aldermen.

The minutes of the meeting held April 5, 1894, were read and approved.

The following communication was received from the Commissioner of Public Works with forms of contracts for furnishing the New Criminal Court Building:

DEPARTMENT OF PUBLIC WORKS—COMMISSIONER'S OFFICE,  
NO. 31 CHAMBERS STREET,  
NEW YORK, April 10, 1894.

Hon. THOMAS F. GILROY, Chairman, Commissioners of the Sinking Fund:

DEAR SIR—In accordance with the resolution adopted by your Board on the 30th ultimo, I have the honor to transmit herewith the form of contract and specifications furnished by the Architect for the New Criminal Court Building, for the furnishing of said building, in accordance with the schedule presented by the Architects February 23, 1894, and approved by your Board March 1, 1894.

Very respectfully,  
MICHAEL T. DALY, Commissioner of Public Works.

Which were referred to the Comptroller.

The following communication was received from the Commissioner of Public Works notifying the Board that the Civil Service Boards and the Board of Coroners would move into the New Criminal Court Building before May 1, 1894:

DEPARTMENT OF PUBLIC WORKS—COMMISSIONER'S OFFICE,  
NO. 31 CHAMBERS STREET,  
NEW YORK, April 10, 1894.

Hon. THOMAS F. GILROY, Chairman, Commissioners of the Sinking Fund:

DEAR SIR—I have the honor to inform you that, under date of 3d inst., I notified the Health Department, the Civil Service Board and the Board of Coroners that the offices and rooms assigned to them in the New Criminal Court Building were ready for their occupancy, and requested them to inform me when they would be ready to vacate their present offices and occupy the new ones, suggesting at the same time that if this be done before May 1 proximo it would save the City the expense of rentals for offices now occupied by them.

I now have report from the Superintendent of Repairs and Supplies that arrangements have been made to move the offices of the Civil Service Boards to the New Criminal Court Building after the 18th inst., and the Coroners' offices before May 1.

The Secretary of the Health Department, by direction of the Commissioners of Health, informs me, however, that at present no date can be fixed when that Department can take possession and occupy the new offices, and that it is necessary that the cases for the reception of the voluminous records and papers of the Department be constructed and in place, and that the chemical and bacteriological laboratories must be completed before that Department can occupy its offices in the new building.

Very respectfully,  
MICHAEL T. DALY, Commissioner of Public Works.

Which was ordered on file.

The following communication was received from the Board of Health for lease of premises No. 42 Bleecker street :

HEALTH DEPARTMENT, No. 301 MOTT STREET, }  
NEW YORK, April 5, 1894. }

To the Honorable the Commissioners of the Sinking Fund, New York City :

At a meeting of the Board of Health of the Health Department, held on Wednesday, April 4, 1894, it was

Resolved, That application be and is hereby made to the Honorable the Commissioners of the Sinking Fund for the lease of premises No. 42 Bleecker street, for the use of this Department, upon the following terms : The rent to be at the rate of \$100 per month, and the lease to extend from May 1, 1894, to June 30, 1894, an appropriation of that amount having been made by the Board of Estimate and Apportionment for this purpose, said lease to contain a proviso that it can be terminated by either party upon three days' notice.

A true copy.

EMMONS CLARK, Secretary.

Whereupon the Comptroller offered the following :

Resolved, That permission be and is hereby granted to the Board of Health of the Health Department to rent the premises No. 42 Bleecker street from May 1, 1894, to June 30, 1894, at a monthly rental of one hundred dollars (\$100), as requested by a resolution relating thereto, adopted by said Board of Health April 4, 1894, and that the Comptroller be and is hereby authorized to pay the said rental upon the proper voucher of the Commissioners of the Health Department.

Which was unanimously adopted.

The following communication was received from the Board of Health for lease of premises No. 309 Mulberry street :

HEALTH DEPARTMENT, No. 301 MOTT STREET, }  
NEW YORK, April 5, 1894. }

To the Honorable the Commissioners of the Sinking Fund, New York City :

At a meeting of the Board of Health of the Health Department, held Wednesday, April 4, 1894, it was

Resolved, That application be and is hereby made to the Honorable the Commissioners of the Sinking Fund for the lease of premises No. 309 Mulberry street, for the use of this Department, upon the following terms : The rent to be at the rate of one hundred and sixty-six dollars and sixty-six cents per month, and the lease to extend from May 1, 1894, to June 30, 1894, an appropriation of that amount having been made by the Board of Estimate and Apportionment for this purpose.

EMMONS CLARK, Secretary.

Whereupon the Comptroller offered the following :

Resolved, That permission be and is hereby granted to the Board of Health of the Health Department to rent the premises No. 309 Mulberry street from May 1, 1894, to June 30, 1894, at a monthly rental of one hundred and sixty-six dollars and sixty-six cents (\$166.66), as requested by a resolution relating thereto, adopted by said Board of Health April 4, 1894, and that the Comptroller be and is hereby authorized to pay the said rental upon the proper voucher of the Commissioners of the Health Department.

Which was unanimously adopted.

The following communication was received from the Board of Fire Commissioners, approving amended form of lease for premises No. 112 West Eighteenth street :

HEADQUARTERS FIRE DEPARTMENT, }  
Nos. 157 AND 159 EAST SIXTY-SEVENTH STREET, }  
NEW YORK, April 5, 1894. }

Hon. ASHBEL P. FITCH, Comptroller :

SIR—I have the honor to acknowledge receipt of communication of 2d instant, inclosing form of lease of George G. Guion to the Mayor, etc., of premises No. 112 West Eighteenth street, as temporary quarters of Engine Company No. 14, and to reply that the Board of Commissioners of this Department deems it for the best interests of the City that the form of lease submitted by Mr. Guion (and which is returned herewith) be approved and executed as early as practicable.

Very respectfully,

ANTHONY EICKHOFF, Acting President.

GEORGE G. GUION, REAL ESTATE, BONDS AND MORTGAGES, AND INSURANCE, }  
Nos. 68 AND 70 WILLIAM STREET, }  
NEW YORK, March 30, 1894. }

Hon. ASHBEL P. FITCH, Comptroller, City of New York, Stewart Building, New York :

DEAR SIR—I beg to inclose herewith the lease prepared in the Corporation Counsel's office for the premises No. 112 West Eighteenth street, as I am not prepared to make the letting on the conditions named. I inclose leases drawn substantially in accordance with the understanding I had with the parties who called here in reference to the matter, after making certain modifications to conform to that of the Corporation Counsel's, to the extent that I am willing to concede. I understand that it is proposed to make certain alterations in the premises for the occupation of the engine company, and will consent to the same on condition that the building is restored to its present condition on the termination of the letting.

In reference to the payment of the water rate, as the occupation may involve a considerable sum, I consider it only right that it should be paid by the lessee.

This letter is addressed to you at the suggestion of Mr. Rush of the Corporation Counsel's office, who has had the matter in charge.

Very respectfully, yours,

GEO. G. GUION.

In connection therewith the Comptroller presented the following :

FINANCE DEPARTMENT—COMPTROLLER'S OFFICE, }  
April 10, 1894. }

To the Commissioners of the Sinking Fund :

GENTLEMEN—At a meeting of the Commissioners of the Sinking Fund, held March 1, 1894, a resolution was adopted requesting the Counsel to the Corporation to prepare a lease to the City of the premises No. 112 West Eighteenth street, for temporary quarters for Engine Company No. 14, of the Fire Department—the lease to contain the usual terms and conditions.

I submit herewith a communication from Mr. George G. Guion, agent for the owner, under date of March 30, 1894, refusing to make the letting on the conditions named in this lease, and giving the reasons for his action. I also submit a communication from the Acting President of the Fire Department, dated April 5, 1894, in which it is stated that the Board of Commissioners of the Fire Department "deems it for the best interests of the City that the form of lease submitted by Mr. Guion (and which is returned herewith) be approved and executed as early as practicable."

I submit herewith the form of lease prepared by Mr. Guion, which provides for the payment of water rents by the City, and the restoration of the building to its original condition at the end of the term demised.

In accordance with the views of the Fire Department I offer the following resolution for such action as your Board may deem proper.

Respectfully,

ASHBEL P. FITCH, Comptroller.

Resolved, That the lease to the City for the term of one year from March 1, 1894, to March 1, 1895, of the premises known as No. 112 West Eighteenth street, for temporary quarters for Engine Company No. 14, of the Fire Department, at an annual rental of fifteen hundred dollars (\$1,500), this day submitted by the Comptroller, be and the same is hereby approved, and the Commissioners of the Sinking Fund, deeming the rent fair and reasonable, the Comptroller is hereby authorized and directed to execute such lease, when properly approved by the Counsel to the Corporation, as provided by sections 123 and 181 of the New York City Consolidation Act of 1882; and

Resolved, That the resolution adopted March 1, 1894, in relation thereto be and is hereby rescinded.

The report was accepted and the resolutions unanimously adopted.

The following communication was received from the Board of Fire Commissioners, for renting portion of premises Nos. 104 and 106 East One Hundred and Twenty-sixth street :

HEADQUARTERS FIRE DEPARTMENT, }  
Nos. 157 AND 159 EAST SIXTY-SEVENTH STREET, }  
NEW YORK, April 6, 1894. }

The Honorable Commissioners of the Sinking Fund :

GENTLEMEN—I have the honor to inform you that the following resolution was adopted at a meeting of the Board of Fire Commissioners held on the 4th instant :

Resolved, That as, in consequence of delay in completing the new building for quarters of Engine Company No. 36, at No. 1849 Park avenue, it becomes necessary to continue the occupancy of a portion of the premises known as Nos. 104 and 106 East One Hundred and Twenty-sixth street until April 30, 1894, the Commissioners of the Sinking Fund be requested to authorize the Comptroller to continue the payment of the rental, at one hundred and ten dollars (\$110) per month therefor, from April 1, 1894, to May 1, 1894.

Very respectfully,

ANTHONY EICKHOFF, Acting President.

Whereupon the Comptroller offered the following :

Resolved, That permission be and hereby is granted to the Board of Fire Commissioners to continue the occupancy of a portion of the premises known as Nos. 104 and 106 East One Hundred and Twenty-sixth street until April 30, 1894, as requested in their resolution in relation thereto, adopted April 4, 1894, at a monthly rental of one hundred and ten dollars (\$110), said premises to be used as temporary quarters for Engine Company No. 36, and that the Comptroller be and is hereby authorized to pay the said rental upon the proper voucher of the Commissioners of the Fire Department.

Which was unanimously adopted.

The Comptroller called up the application of Mr. Edward Bridge, by Mr. George W. Van Slyck, his attorney, for renewal of lease of premises Nos. 84, 86 and 88 Park Row.

After discussion, the papers were referred to the Comptroller for examination, and to report whether the buildings on the premises can be altered for court purposes, and for the use of the Fire Department, Department of Public Works, etc., with advantage to the City.

The Comptroller reported orally on the application of Mr. Richard M. Montgomery for the purchase of corporation property at No. 28 Beaver street.

The Comptroller said that the premises in question were held by John A. Aspinwall and Ambrose C. Kingsland, executors of William H. Aspinwall, deceased, under a lease from the City for the period of twenty-one years from January 1, 1888, the City reserving the lower floor for a fuel depot.

It would not be for the public interest, therefore, to offer the property for sale.

The Comptroller recommended that no further action be taken on the application.

The report was accepted and the recommendation of the Comptroller approved.

The Mayor announced that the sale of the Staten Island and Bay Ridge Ferry franchises would now be considered.

Mr. Alrick H. Man, President of the New York and Sea Beach Railway Company, was heard in relation to the sale.

Mr. Man submitted the following statement :

The New York and Sea Beach Railway Company respectfully presents the following statement in relation to the upset price and rental of the Bay Ridge ferry.

The late Comptroller, seeing that the Sea Beach Railway Company must buy this franchise in absence of other bidders, placed the upset price at \$15,000 per annum, although the present lessee, the Staten Island Rapid Transit Railroad Company, declared that at such a price it could not bid, though anxious to control the ferry. In addition to this upset price, an annual rental of \$5,000 was to be paid to the lessee of the Staten Island ferries for the use of the necessary portions of the terminals—making an annual charge of \$20,000 in all. This sum was totally disproportionate to the income of the ferry and to the rental paid by other and more valuable ferries. The gross income of the ferry has ranged from \$100,000 to \$85,000, charging all comers the maximum rate of fare, ten cents, which is prohibitory as against the great bulk of the passengers from Bay Ridge and the territory naturally tributary to the ferry.

The high rate paid under the just expired lease is accounted for as follows :

The Staten Island Rapid Transit Railroad Company had built a railroad encircling Staten Island, and had acquired the old Staten Island Railway and its ferry franchise. To stop competition it was necessary for them to acquire the other franchise to Staten Island, which was operated by Mr. Starin. The Commissioners of the Sinking Fund decided to sell that franchise and the Bay Ridge franchise, which were created from the same pier, jointly to the same bidder.

Mr. Starin forced the bidding up to the phenomenal figure of 14¼ per cent. for the two ferries in one parcel. The absolute necessity of acquiring the Staten Island ferry induced this high bid, and the earning capacity of the Bay Ridge ferry was not even considered.

Subsequently Mr. Wiman ran all his Staten Island boats to St. George, a new terminus, and the lessee has ever since paid only 5 per cent. on the passengers thus carried, on the theory that the present ferry to St. George is operated under the other Staten Island ferry.

The Bay Ridge ferry, however, has continued to be burdened by the enormous charge of 14¼ per cent., which compelled the lessee to charge the maximum rate of ten cents fare, thus precluding the building up of the business to the great detriment of the city, and of the extensive territory which ought naturally to be tributary to this ferry.

Comptroller Myers observed the high amounts paid in as percentages during the last lease, and fixed the upset or minimum price a little above the largest amount which had been paid in any one year, viz., \$15,000. In addition he provided, and the Commissioners of the Sinking Fund approved, a rental of \$5,000 to be paid to the lessee of the Staten Island franchise for the use of the slip and terminal facilities at the Battery. It was decided yesterday, after a brief hearing (for which we were altogether unprepared, not knowing what it was intended to do), to raise this latter rental to \$8,000 per annum, making a total minimum annual charge to be paid by the lessee of \$23,000, equivalent to 25 per cent. of the average gross receipts.

As a single instance of the excessive nature of this charge, the upset price placed upon the Staten Island Ferry, which carried (according to the statement yesterday of the present lessee of both ferries) eight millions of passengers, is set at \$22,500, while the Bay Ridge Ferry is placed at \$15,000, and carries one million.

There are several bona fide bidders for this franchise, including the present lessee, the New York and Sea Beach Railway Company, the Thirty-ninth Street Ferry Company and General Butterfield, and if the upset price were a moderate figure the franchise would bring its fair market value. This railway company will be compelled to buy the franchise at this enormous price, because otherwise it will not be bought or operated by any one, and the railway will be without a connection. It is anxious to adopt a liberal policy—reduce the fares now charged, build ample terminals at Bay Ridge, and build up the business for the city. It will not be able to do so with this enormous annual charge, in addition to interest on the cost of boats and Bay Ridge terminals, and of operating the ferry, the average receipts of which per annum are about \$90,000.

No business can or does pay 25 per cent. per annum for the privilege of existence.

It will be seen that no bidder can possibly hope to earn the upset price. This state of affairs will be greatly against the city's interests, for it will prevent the building up of the business of the ferry and will force the lessee to charge a maximum toll to local passengers.

We respectfully urge that the sum named in the resolution offered by the Comptroller as the upset price is prohibitory, and that it is the true policy of the City to place a moderate upset price upon the franchise and sell it upon its merits—instead of compelling the one willing and liberal bidder, which has at all times been ready to bid up to a fair sum for the franchise, to take it at an exorbitant price without competition.

This statement is respectfully presented in the belief that the situation has been misunderstood by the city authorities and that we who have been in touch with the business of this ferry and railroad for so long have perhaps taken too much for granted and not made the situation sufficiently clear.

We respectfully ask that the terms of sale be modified in such a manner that the upset price shall not exceed \$10,000, and urge that free and open competition among the bidders will result in the sale of the ferry at its fair market price, which is all that the taxpayers can expect from the Commissioners of the Sinking Fund.

THE NEW YORK AND SEA BEACH RAILWAY COMPANY,  
ALRICK H. MAN, President.

Dated April 10, 1894.

Which was ordered on file.

Mr. Erastus Wiman was heard on the question of the fare for passengers. Mr. Wiman urged that the fare to Staten Island be fixed at five cents for all persons, and not as at present, five cents for passengers who use the railroad and ten cents for others, so that the railroad which leases this ferry shall not discriminate against other roads.

Discussion followed, participated in by all the members of the Board and the representatives of the different parties in interest.

Whereupon the Comptroller, on behalf of the committee appointed at the meeting of March 30, 1894, offered the following resolutions for the sale of the said ferry franchises to Staten Island and Bay Ridge, Long Island :

STATEN ISLAND FERRY.

Resolved, That the Comptroller be and hereby is authorized to take measures to advertise and sell at public auction, to the highest bidder, as provided by law, the lease of the franchise of the ferry from the foot of Whitehall street, New York, to Staten Island, for a term of ten years from June 1, 1894, together with the wharf property belonging to the Corporation of the City of New York, upon the usual terms and conditions ; and the minimum or upset price for the franchise shall be five per centum of the gross receipts, and the total yearly rental therefor shall not be less than

Table with 2 columns: Description and Amount. Total \$44,000 00

—payable in advance quarterly.

A further condition of the sale is that the purchaser and lessee of the franchise of the ferry to Bay Ridge, Long Island, may have the use, for its ferry purposes, of that portion of the landing and buildings at the foot of Whitehall street which are now and were heretofore occupied and used in connection with the operation of the Bay Ridge ferry, and of the privileges heretofore exercised in operating said Bay Ridge ferry, by the payment of eight thousand dollars (\$8,000) per annum, during the term of the new lease, beginning June 1, 1894, to the lessees of the Staten Island ferry.

The purchaser of the franchise, in case the purchaser shall be any one other than the Staten Island Rapid Transit Railroad Company, will be required to pay, upon the execution of the lease, and the delivery of possession of said wharf property, to the said Staten Island Rapid Transit Railroad Company the sum of one hundred and seventy-five thousand dollars (\$175,000), the appraised value thereof, as fixed by a resolution of the Commissioners of the Sinking Fund adopted July 18, 1893.

The lease to contain a covenant providing for the purchase at a fair valuation of the boats, buildings and other property of the lessee used in and actually necessary for the operation of said ferry upon the termination of the lease and the surrender and yielding up of the premises by the lessee, if the lessee shall not become the purchaser of the franchise for another term ; but the Mayor, Aldermen and Commonalty of the City of New York shall not be deemed thereby to covenant to purchase said property in any event.

Which was unanimously adopted.

BAY RIDGE FERRY.

Resolved, That the Comptroller be and hereby is authorized to take measures to advertise and sell at public auction to the highest bidder, as provided by law, a lease for the term of ten years from June 1, 1894, of the franchise of the ferry from the foot of Whitehall street, New York, to Bay Ridge, at Sixty-fifth street, Long Island, upon the usual terms and conditions ; and

In addition to the yearly rental to be paid for the ferry franchise, a further condition of the sale is that the purchaser and lessee of said franchise may have the use for its ferry purposes of that portion of the landing and buildings at the foot of Whitehall street which are now and were heretofore occupied and used in connection with the operation of the Bay Ridge ferry, and of the privileges heretofore exercised in operating said Bay Ridge ferry, by the payment of eight thousand dollars (\$8,000) per annum, payable quarterly, during the term of the new lease, beginning June 1, 1894.

The boats of said ferry shall make half-hourly trips each way during the regular summer season, and trips during the rest of the year, as may be directed by the Mayor and Comptroller of the City of New York ; and the rates of ferriage and charges for vehicles and freight shall not exceed the rates now charged. During the term demised the minimum or upset price of the franchise of said ferry for and during the term of the lease thereof is appraised and fixed at five per centum of the gross receipts for ferriage of passengers, vehicles, freight, etc., the total amount of which rental shall not be less than fifteen thousand dollars (\$15,000) per annum, payable quarterly in advance. The lease shall provide that any person or corporation that may acquire said ferry franchise, after the expiration of said term, shall be required to purchase, at a fair appraised valuation, the boats, buildings and other property of the former lessees or grantees actually necessary for the purpose of said ferry or franchise, provided that the Mayor, Aldermen and Commonalty of the City of New York shall not, in any event, be deemed to covenant to purchase said property.

The lessee will be required to provide improved facilities for the safe and more convenient landing of passengers and vehicles at the Long Island terminus.

Which was unanimously adopted.

The Mayor moved that when the Board adjourns it adjourns to meet on Monday, April 16, 1894, at 1 o'clock P. M. Which was agreed to.

The Comptroller stated that, by resolution adopted on January 19, 1894, the Board had authorized the sale of the leases of certain ferry franchises for ten years from May 1, 1894 (Minutes, page 303).

He requested that a member of the Board be associated with him with the right to call in the services of the Counsel to the Corporation.

On motion of the Chairman of the Finance Committee of the Board of Aldermen, the Mayor and Comptroller were appointed a committee to confer with the Counsel to the Corporation in regard to the terms of sale of these ferries, and the forms of advertisements and leases.

Adjourned to meet at the Mayor's office on Monday, April 16, 1894, at 1 o'clock P. M. RICHARD A. STORRS, Secretary.

BOARD OF ELECTRICAL CONTROL.

Minutes of a meeting of the Board of Electrical Control, held at the office of the Mayor, in the City of New York, on Tuesday, April 10, 1894, at 11 o'clock A. M. Present—Mayor Thomas F. Gilroy, President ; Commissioners Jacob Hess, Theodore Moss, Walton Storm.

The minutes of the last meeting were read and approved. The Engineer submitted the following report and accompanying applications :

OFFICE OF THE BOARD OF ELECTRICAL CONTROL, No. 1264 BROADWAY, NEW YORK, April 10, 1894.

To the Honorable Commissioners of the Board of Electrical Control :

GENTLEMEN—In response to the resolution passed at the last meeting, and sent to all the electric companies operating in the City of New York, extending the time for them to make application for subway work in the coming season, I have received the following communications, which are herewith submitted :

- United Electric-light and Power Company (dated April 2).
New York Heat, Light and Power Company (dated April 4).
Postal Telegraph Cable Company (dated April 4).

Mount Morris Electric-light Company. Metropolitan Telephone and Telegraph Company (dated April 5). Edison Electric Illuminating Company of New York (dated April 3 and 5). Many of the applications of these various companies request subways to be constructed in streets that have been recently paved (the new paving, including 1890 and since), where the Board frequently gave notice before said paving was begun to these various companies that, after the completion of this paving, they would not be allowed to disturb the new paving unless for very urgent requirements. I, therefore, have separated the requests above enumerated into two classes ; those including streets where there has been no new paving since 1890, and those in streets that have been paved, and have recommended that the Board authorize the construction of subways in the streets where the old paving remains, and submit for the consideration of the Board the applications in streets where the new paving exists, in order that, if possible, the various companies may show good reason why they should be allowed to disturb the new paving.

I have to recommend under the above schedule the construction of a subway, as requested :

- For the United Electric-light and Power Company.
In Fourteenth street, from First avenue to Avenue B.
In Grand street, from Goerck street to east side of East street.
In Astor place, from Third avenue to Broadway.
In First avenue, from Houston to Twenty-ninth street.
In Avenue A, from Houston to Seventh street.
In Nassau street, from Fulton street to Maiden Lane.

- For the New York Heat, Light and Power Company.
In Water street, from Fulton to Dover street.
In Nassau street, from Spruce to Liberty street.
In Maiden Lane, from Broadway to Pearl street.
In Liberty street, from William street to Maiden Lane.
In Ann street, from Broadway to Nassau street.
In Theatre Alley, from Ann to Beekman street.
In Beekman street, from Nassau street to Park Row.
In Frankfort street, from Pearl to Gold street.
In Gold street, from Frankfort to Spruce street.
In Pearl street, from Frankfort to Dover street.
In Dover street, from Pearl to Water street.
In Dey street, from Broadway to Church street.

- For the Mount Morris Electric-light Company.
In Broome street, from Wooster street to South Fifth avenue.
In Pearl street, from Whitehall street to Hanover Square.
In Christopher street, from Greenwich to West street.

- For the Postal Telegraph Cable Company.
In Front street, from Fletcher to Gouverneur slip.

- For the Edison Electric Illuminating Company of New York.
In Nineteenth street, from Broadway to Fourth avenue.
In Nassau street, from Maiden lane to Beekman street.

- For the Metropolitan Telephone and Telegraph Company.
In Thirty-second street, from Second to Third avenue, and from Second to First avenue.
In Madison avenue, east side, from Sixty-sixth to Seventy-first street.
In Manhattan street, from Amsterdam to Twelfth avenue.
In Ninetieth street, from Columbus avenue to Boulevard.
In Columbus avenue, from Eighty-sixth to One Hundredth street.
In Sixty-ninth street, from Columbus to West End avenue.
In Seventy-fifth street, from Columbus to West End avenue.
In Seventy-seventh street, from Columbus to West End avenue.
In Eighty-sixth street, from Columbus to West End avenue.

Very respectfully, HENRY S. KEARNY, Engineer.

THE UNITED ELECTRIC-LIGHT AND POWER COMPANY, NASSAU AND BEEKMAN STREETS, NEW YORK, April 2, 1894.

Hon. THEODORE MOSS, Secretary, The Board of Electrical Control, No. 1266 Broadway, City :

DEAR SIR—In response to your favor of the 1st ultimo, advising us of streets to be repaved during the coming season, and requesting that we advise you as to what subways we require in such streets, we beg to report as follows :

- Fourteenth street, from First avenue to Avenue B.
First avenue, from Twenty-ninth to Houston street.
Houston street, from First avenue to Avenue B.
Avenue A, from Houston to Seventh street.
Second avenue, from Houston to Fourteenth street.
Grand street, from Goerck street to east side East street.
Nassau street, from Fulton street to Maiden Lane.
Astor place, from Third avenue to Broadway.

Very truly yours, C. H. JACKSON, President.

THE NEW YORK HEAT, LIGHT AND POWER COMPANY, OFFICE NOS. 33 TO 43 GOLD STREET, NEW YORK, April 4, 1894.

To the Honorable Board of Electrical Control, Hon. THEODORE MOSS, Secretary :

DEAR SIR—Replying to your notice of 3d inst. covering resolution passed by your Board, on applications for subways for the coming season, we beg to say that we will need the construction of ducts for our use in the following streets, in which there are now no ducts which can be assigned to us. The following is in addition to those applied for under ours of 22d March, viz. :

- Water street, from Fulton to Dover street, one 3-inch duct.
Dover street, from Water to Pearl street, one 3-inch duct.
Pearl street, from Dover to Frankfort street, one 3-inch duct.
Frankfort street, from Pearl to Gold street, one 3-inch duct.
Gold street, from Frankfort to Spruce street, one 3-inch duct.
Beekman street, from Park Row to Nassau street, one 3-inch duct.
Fulton street, from Broadway to Pearl street, one 3-inch duct.
Nassau street, from Maiden Lane to Liberty street, one 3-inch duct.
William street, from Maiden Lane to Liberty street, one 3-inch duct.
Maiden Lane, from Broadway to Pearl street, one 3-inch duct.
Liberty street, from William street to Maiden Lane, one 3-inch duct.
Ann street, from Broadway to Nassau street, one 3-inch duct.
Theatre alley, from Ann to Beekman street, one 3-inch duct.
Trusting the above will meet with your favorable consideration and approval,

We remain, gentlemen, very truly yours, THE NEW YORK HEAT, LIGHT AND POWER COMPANY C. L. HEINS, Treasurer.

POSTAL TELEGRAPH CABLE COMPANY, OFFICE OF GENERAL SUPERINTENDENT, No. 253 BROADWAY, NEW YORK, April 4, 1894.

To the Honorable Board of Electrical Control, No. 1264 Broadway, New York City :

GENTLEMEN—Replying further to your circular letter of March 1, I beg to say that the Postal Company has made application to the Empire City Subway Company (Limited) for space in subway from Broadway and Dey street through John and Front streets to the south side of Wall street, and that this involves the construction of a subway in Front street, from Pine to Wall street, 270 feet.

Yours respectfully, POSTAL TELEGRAPH CABLE COMPANY, By J. H. EMERICK, General Superintendent.

THE MOUNT MORRIS ELECTRIC-LIGHT COMPANY, April 4, 1894.

To the Honorable the Commissioners of the Board of Electrical Control, Hon. THEO. MOSS, Secretary, No. 1262 Broadway, New York City :

DEAR SIR—We beg to submit herewith for your approval and authorization, a statement of these extensions of subway facilities, for the construction of which in the usual manner of a distributing system this is our application, and for which we ask your favorable consideration :

- Broome street, from Wooster street to South Fifth avenue, one duct, north side.
Pearl street, from Whitehall street to Hanover Square, one duct, south side.
Franklin street, from West Broadway to Greenwich street, one duct, for north and south sides.
Broadway, from Bleecker to Fourteenth street, one duct, east side.

Eighth avenue, from Thirteenth to Fourteenth street, one duct, west side.  
 Reade street, from Hudson to Washington street, one duct, south side.  
 Christopher street, from Greenwich to West street, one duct, south side.  
 Carmine street, from Bleecker street to Minetta Lane, one duct, south side.  
 Sixth avenue, from Minetta Lane to West Third street, one duct, east side.  
 West Third street, from Sixth avenue to South Fifth avenue, one duct, south side.  
 P. S.—Duct to be built on Franklin street is to be built on the south side of the street, from West Broadway to Varick street, crossing Franklin street to the northwest corner of Varick street, then on north side of Franklin to Greenwich street.

Yours respectfully,  
**THE MOUNT MORRIS ELECTRIC-LIGHT COMPANY.**  
 EDWARD MAY, President.

GENERAL OFFICE OF  
**THE METROPOLITAN TELEPHONE AND TELEGRAPH COMPANY,**  
 No. 18 COURTLANDT STREET,  
 NEW YORK, April 5, 1894.

The Board of Electrical Control, Hon. THEO. MOSS, Secretary, No. 1264 Broadway, New York City:

DEAR SIR—Responding to your favor of the 3d inst., we beg to make application for the construction of subways as follows:

- Columbus avenue, from Eighty-sixth to Ninety-sixth street, eight 3-inch trunk ducts.
- Columbus avenue, from Ninety-sixth to One Hundredth street, six 3-inch trunk ducts.
- Sixty-ninth street, from Columbus to West End avenue, one 3-inch distributing duct.
- Seventy-second street, from Central Park, West, to West End avenue, one 3-inch distributing duct.
- Seventy-fifth street, from Columbus to West End avenue, one 3-inch distributing duct.
- Seventy-seventh street, from Columbus to West End avenue, one 3-inch distributing duct.
- Eighty-sixth street, from Columbus to West End avenue, one 3-inch distributing duct.
- Ninetyth street, from Columbus to West End avenue, one 3-inch distributing duct.
- Hudson street, from Spring to Christopher street, six 3-inch trunk ducts.
- Thirty-second street, from Third to Second avenue, six 3-inch trunk ducts.
- Thirty-second street, from Second to First avenue, two 3-inch trunk ducts.
- Madison avenue (east side), from Sixty-sixth to Seventy-first street, one 3-inch distributing duct.
- Sixty-fifth street, from Madison to Fifth avenue, one 3-inch distributing duct.
- Sixty-seventh street, from Madison to Fifth avenue, one 3-inch distributing duct.
- Sixty-ninth street, from Madison to Fifth avenue, one 3-inch distributing duct.
- Amsterdam avenue, from One Hundred and Twenty-fourth to Manhattan street, ten 3-inch trunk ducts.
- Manhattan street, from Amsterdam to Twelfth avenue, one 3-inch distributing duct.

Yours truly,  
**UNION N. BETHELL,** Acting General Manager.

FORM OF APPLICATION TO BOARD OF ELECTRICAL CONTROL FOR CONSTRUCTION OF SUBWAYS.

The Edison Electric Illuminating Company, of New York, by this application, respectfully shows that it is a corporation duly organized under the Laws of the State of New York, having lawful power to manufacture, use and supply electricity, and to operate electrical conductors in the streets, avenues and highways of the City of New York hereinafter mentioned.

That said company requires for the accommodation of its electrical conductors in said streets avenues and highways, spaces in the electrical subways as follows:

From East intersection of New Bowery and New Chambers street, running east 400 feet, to Nos. 18-20 Oak street.

The said company further shows that there are at present no spaces in subways in said streets, avenues and highways, available for such accommodation of electrical conductors of said company.

The said company therefore requests that a sufficient construction of subways be made in said streets, avenues and highways for the accommodation of its electrical conductors, in accordance with the above statement of its requirements.

The said company agrees to comply with all the rules and regulations of the Board of Electrical Control in and for the City of New York governing the occupancy of the subways, and to furnish security for the occupation of the subways which shall be constructed at its request, and the payments of the established rental therefor as required by the provisions of chapter 263 of the Laws of 1892.

**THE EDISON ELECTRIC ILLUMINATING COMPANY, OF NEW YORK,**  
 R. R. BOWKER, First Vice-President.

NEW YORK, April 5, 1894.

FORM OF APPLICATION TO BOARD OF ELECTRICAL CONTROL FOR CONSTRUCTION OF SUBWAYS.

The Edison Electric Illuminating Company, of New York, by this application respectfully shows that it is a corporation duly organized under the laws of the State of New York, having lawful power to manufacture, use and supply electricity, and to operate electrical conductors in the street, avenues and highways of the City of New York hereinafter mentioned.

That said company requires, for the accommodation of its electrical conductors in said streets, avenues and highways, spaces for the electrical subways, as follows:

From East side of Broadway, running east 260 feet to No. 38 East Nineteenth street; length of block 500 feet.

The said company further shows that there are at present no spaces in subways in said streets, avenues and highways available for such accommodation of electrical conductors of said company.

The said company therefore requests that a sufficient construction of subways be made in said streets, avenues and highways for the accommodation of its electrical conductors, in accordance with the above statement of its requirements.

The said company agrees to comply with all the rules and regulations of the Board of Electrical Control in and for the City of New York governing the occupancy of the subways, and to furnish security for the occupation of the subways which shall be constructed at its request, and the payment of the established rentals therefor, as required by the provisions of chapter 263 of the Laws of 1892.

**THE EDISON ELECTRIC ILLUMINATING COMPANY, OF NEW YORK,**  
 By R. R. BOWKER, First Vice-President.

NEW YORK, April 5, 1894.

FORM OF APPLICATION TO BOARD OF ELECTRICAL CONTROL FOR CONSTRUCTION OF SUBWAYS.

The Edison Electric Illuminating Company, of New York, by this application respectfully shows that it is a corporation duly organized under the Laws of the State of New York, having lawful power to manufacture, use, and supply electricity, and to operate electrical conductors in the streets, avenues, and highways of the City of New York hereinafter mentioned.

That said company requires for the accommodation of its electrical conductors in said streets, avenues and highways, spaces in the electrical subways as follows:

Nassau street, east side, from south side of Maiden Lane to south side of Beekman street.

The said company further shows that there are at present no spaces in subways in said streets, avenues, and highways, available for such accommodation of electrical conductors of said company, except its old "two wire" tubing, which it is desired to replace.

The said company therefore requests that a sufficient construction of subways be made in said streets, avenues, and highways, for the accommodation of its electrical conductors in accordance with the above statement of its requirements.

The said company agrees to comply with all the rules and regulations of the Board of Electrical Control in and for the City of New York governing the occupancy of the subways, and to furnish security for the occupation of the subways which shall be constructed at its request, and the payment of the established rentals therefor as required by the provisions of chapter 263 of the Laws of 1892.

**THE EDISON ELECTRIC ILLUMINATING COMPANY, OF NEW YORK,**  
 By R. R. BOWKER, First Vice-President.

NEW YORK, April 10, 1894.

**THE UNITED ELECTRIC-LIGHT AND POWER COMPANY,**  
 NASSAU AND BEEKMAN STREETS,  
 NEW YORK, April 9, 1894.

Hon. THEO. MOSS, Secretary, Board of Electrical Control, No. 1266 Broadway, New York:

DEAR SIR—We wish to amend our communication of the 2d instant, as to subways, to read "Nassau street, from Fulton street to south side of Wall street, to connect with subway in Broad street;" and to add "Subway in Fourth street, from Second avenue to Avenue B."

Very truly yours,  
**THE UNITED ELECTRIC-LIGHT AND POWER COMPANY,**  
 Per WM. H. BROWNE, General Manager.

**POSTAL TELEGRAPH-CABLE COMPANY,**  
 OFFICE OF GENERAL SUPERINTENDENT, No. 253 BROADWAY,  
 NEW YORK, April 9, 1894.

To the Honorable Board of Electrical Control, No. 1264 Broadway, New York City:

GENTLEMEN—I am informed by the Empire City Subway Company (Limited) that there is no subway on Pearl street, between Fletcher street and Maiden Lane. I desire, therefore, to amend

the application of the Postal Telegraph-Cable Company, dated April 4, and to ask for facilities on Pearl street, between Fletcher street and Maiden Lane, in addition to the facilities applied for between Pine and Wall streets.

Yours respectfully,  
**POSTAL TELEGRAPH-CABLE COMPANY,**  
 By J. H. EMERICK, General Superintendent.

The Board considered the foregoing report and applications, directed them to be filed and spread at length on the minutes, and adopted the following resolutions:

Resolved, That the application of the United Electric Light and Power Company for the construction of subways for the accommodation of its electrical conductors, dated April 2, 1894, as to the streets named in the following resolution, be and is hereby granted, and as to the other streets, be and is hereby laid over.

Resolved, That the Consolidated Telegraph and Electrical Subway Company be and it is hereby authorized and directed to construct subways for the accommodation of high tension electrical conductors in the following localities:

- Fourteenth street, from First avenue to Avenue B.
- First avenue, from Houston to Twenty-ninth street.
- Grand street, from Goerck to east side of East street.
- Astor place, from Third avenue to Broadway.
- Avenue A, from Houston to Seventh street.
- Nassau street, from Fulton to Maiden Lane.

Provided, however, that this resolution shall not take effect until the corporations and individuals making application for the construction of said subways shall have first furnished to said Consolidated Telegraph and Electrical Subway Company security for the occupation of said subways and the payment of rentals therefor in advance, as provided by chapter 263 of the Laws of 1892. And it being understood that none of the localities above named are streets where new pavements have been laid since 1890.

Resolved, That the application of the New York Heat, Light and Power Company for the construction of subways for the accommodation of its electrical conductors, dated April 4, 1894, as to the streets named in the following resolution, be and is hereby granted, and as to the other streets, be and is hereby laid over.

Resolved, That the Consolidated Telegraph and Electrical Subway Company be and it is hereby authorized and directed to construct subways for the accommodation of high tension electrical conductors in the following localities:

- Nassau street, from Liberty to Spruce street.
- Ann street, from Broadway to Nassau street.
- Theatre alley, from Ann to Beekman street.
- Beekman street, from Nassau street to Park Row.
- Frankfort street, from Pearl to Gold street.
- Gold street, from Frankfort to Spruce street.
- Pearl street, from Frankfort to Dover street.
- Dover street, from Pearl to Water street.
- Water street, from Fulton to Dover street.
- Maiden Lane, from Broadway to Pearl street.
- Liberty street, from William street to Maiden Lane.
- Dey street, from Broadway to Church street.

Provided, however, that this resolution shall not take effect until the corporations and individuals making application for the construction of said subways shall have first furnished to said Consolidated Telegraph and Electrical Subway Company security for the occupation of said subways and the payment of rentals therefor in advance, as provided by chapter 263 of the Laws of 1892. And it being understood that none of the localities above named are streets where new pavements have been laid since 1890, except Nassau street, which will soon be disturbed by the East River Gas Company to lay gas pipe.

Resolved, That the application of the Mount Morris Electric-Light Company for the construction of subways for the accommodation of its electrical conductors, as to the streets named in the following resolution, be and is hereby granted, and as to the other streets, be and is hereby laid over.

Resolved, That the Consolidated Telegraph and Electrical Subway Company be and it is hereby authorized and directed to construct subways for the accommodation of high tension electrical conductors in the following localities:

- Broome street, from Wooster street to South Fifth avenue.
- Pearl street, from Whitehall street to Hanover Square.
- Christopher street, from Greenwich to West street.

Provided, however, that this resolution shall not take effect until the corporations and individuals making application for the construction of said subways shall have first furnished to said Consolidated Telegraph and Electrical Subway Company security for the occupation of said subways and the payment of rentals therefor in advance, as provided by chapter 263 of the Laws of 1892. And it being understood that none of the localities above named are streets where new pavements have been laid since 1890.

Resolved, That the application of the Postal Telegraph-Cable Company for the construction of subways for the accommodation of its electrical conductors, dated April 4, 1894, be and is hereby granted.

Resolved, That the Empire City Subway Company be and it is hereby authorized and directed to construct subways for the accommodation of low tension electrical conductors in Front street, from Fletcher to Gouverneur slip; provided, however, that this resolution shall not take effect until the corporations and individuals making application for the construction of said subways shall have first furnished to said Empire City Subway Company security for the occupation of said subways and the payment of rentals therefor in advance, as provided by chapter 263 of the Laws of 1892. And it being understood that none of the localities above named are streets where new pavements have been laid since 1890.

Resolved, That the application of the Edison Electric Illuminating Company, of New York, for the construction of subways for the accommodation of its electrical conductors, dated April 3, 1894, be and is hereby granted.

Resolved, That the Empire City Subway Company be and it is hereby authorized and directed to construct subways for the accommodation of low tension electrical conductors, in

- Nineteenth street, from Broadway to Fourth avenue.
- Nassau street, from Maiden Lane to Beekman street.

Provided, however, that this resolution shall not take effect until the corporations and individuals making application for the construction of said subways shall have first furnished to said Empire City Subway Company security for the occupation of said subways and the payment of rentals therefor in advance, as provided by chapter 263 of the Laws of 1892. And it being understood that none of the localities above named are streets where new pavements have been laid since 1890.

Resolved, That the application of the Metropolitan Telephone and Telegraph Company for the construction of subways for the accommodation of its electrical conductors, dated April 5, 1894, as to the streets named in the resolution following, be and is hereby granted, and as to the other streets, be and is hereby laid over.

Resolved, That the Empire City Subway Company be and it is hereby authorized and directed to construct subways for the accommodation of low tension electrical conductors in the following localities:

- Ninetyth street, from Columbus avenue to Boulevard.
- Thirty-second street, from First to Third avenue.
- Madison avenue, from Sixty-sixth to Seventy-first street.
- Manhattan street, from Amsterdam to Twelfth avenue.
- Columbus avenue, from Eighty-sixth to One Hundredth street.
- Sixty-ninth street, from Columbus to West End avenue.
- Seventy-fifth street, from Columbus to West End avenue.
- Seventy-seventh street, from Columbus to West End avenue.
- Eighty-sixth street, from Columbus to West End avenue.

Provided, however, that this resolution shall not take effect until the corporations and individuals making application for the construction of said subways shall have first furnished to said Empire City Subway Company security for the occupation of said subways and the payment of rentals therefor in advance, as provided by chapter 263 of the Laws of 1892. And it being understood that none of the localities above named are streets where new pavements have been laid since 1890.

An application of the North River Electric-Light and Power Company, dated April 9, 1894, to run one circuit on existing poles, on Lincoln avenue, from Southern Boulevard to One Hundred and Thirty-eighth street, was referred to the Secretary of the Board, with power to grant same, if necessary.

The following application of the Mercantile Electric Company was read:  
 No. 120 BROADWAY, April 7, 1894.

To the Honorable the Board of Electrical Control:

GENTLEMEN—The Mercantile Electric Company would respectfully ask permission or authority to have the necessary wires for the proper carrying on of its business placed in the subways in this city, and we beg to hand you herewith a certified copy of the Act of Incorporation.

Yours respectfully,  
**THE MERCANTILE ELECTRIC COMPANY,**  
 By LYMAN RHOADES, Director and Acting Manager.

On motion of his Honor the Mayor, it was Resolved, That the application of the Mercantile Electric Company, for the purpose of placing wires in the subways for the carrying on of its business, be referred to the Corporation Counsel.

The Secretary submitted the following report, which was directed to be filed and spread at length on the minutes :

NEW YORK, April 10, 1894.

To the Board of Electrical Control :

DEAR SIRS—I beg to submit the following report of the private wires, and all other wires, that have been removed during the past week or so. You will see from the attached diagram the way the wires were cut across New street, Broad street, Wall street and Exchange place. In all, there have been removed about 500 private wires that crossed streets at these points without permits.

Very respectfully, T. MOSS, Secretary.

The following communication from the Fire Department, with accompanying list, was referred to the Engineer for examination and report :

HEADQUARTERS FIRE DEPARTMENT, No. 157 AND 159 EAST SIXTY-SEVENTH STREET, NEW YORK, April 9, 1894.

The Honorable Board of Electrical Control :

GENTLEMEN—I have the honor to forward herewith the inclosed, list of streets wherein subway facilities will be required in addition to the list (where new pavement is required) transmitted to you on the 15th ultimo, to enable this Department to remove the remainder of its poles and overhead lines in that portion of the city south of One Hundred and Twenty-fifth street.

Very respectfully, ANTH. EICKHOFF, Acting President.

SUBWAYS REQUIRED IN STREETS OTHER THAN THOSE TO BE REPAVED, TO FORM CONNECTIONS WITH OTHER SUBWAYS AND FIRE-ALARM STATIONS.

South of Houston Street, River to River.

- Oak street, from Catharine to James street. Market street, from Division street to East Broadway. Market street, from Madison to Monroe street. Market street, from Water to South street. East Broadway, from Market street to Engine Company 9 (No. 55). Pike street, from Cherry to Water street. Jefferson street, from Monroe to Cherry street. Clinton street, from Division to Henry street. Norfolk street, from Grand to Hester street. Suffolk street, from Stanton to Rivington street. Montgomery street, from Front to South street. Gouverneur street, from Grand to Monroe street. Henry street, from Gouverneur street to No. 269 (Engine Company 15). Madison street, from Gouverneur to Scammel street. Monroe street, from Rutgers to Gouverneur street. Front street, from Clinton to Montgomery street. Jackson street, from Monroe to Water street. Delancy Slip, from East to Tompkins street. Attorney street, from Broome to Delancy street. Attorney street, from Rivington to Stanton street. Rivington street, from Attorney to Ridge street. Columbia street, from Broome to Delancy street. Cannon street, from Houston to Rivington street. Canal street, from Bowery to Elizabeth street. Mott street, from Grand to Hester street. Macdougall street, from Houston to Prince street. Hudson street, from Houston to Charlton street. West street, from Houston to Spring street.

Houston to Forty-second Street, East of Fifth Avenue and South Fifth Avenue.

- Second avenue, from Houston to Fourth street. Second avenue, from Seventh to Eighth street. Second avenue, from Fourteenth to Fifteenth street. Second avenue, from Twenty-second to Twenty-third street. Second avenue, from Twenty-seventh to Twenty-eighth street. First avenue, from Second to Forty-second street. Avenue A, from Second to Third street. Avenue A, from Seventh to Eighth street. Avenue A, from Twenty-first to Twenty-fourth street. Avenue B, from Houston to Third street. Avenue B, from Sixth to Seventh street. Avenue B, from Twelfth to Fourteenth street. Avenue C, from Houston to Fifth street. Avenue C, from Seventh to Ninth street. Avenue C, from Twelfth to Eighteenth street. Avenue D, from Ninth to Thirteenth street. Lewis street, from Eighth to Ninth street. Fifth street, from First to Second avenue. Fifth street, from Lewis street to Avenue C. Ninth street, from Lewis street to Avenue D. Sixteenth street, from Avenue C to Avenue D. Sixteenth street, from First avenue to Avenue A. Eighteenth street, from Avenue B to Avenue C. Twenty-sixth street, from Second avenue to Avenue A. Twenty-ninth street, from Second to First Avenue. Thirty-third street, from Second to First avenue.

Forty-second to Sixty-eighth Street, East of Fifth Avenue.

- First avenue, from Forty-second to Sixty-eighth street. Fifty-fifth street, from First avenue to Avenue A. Sixty-fifth street, from First avenue to Avenue A.

Sixty-eighth to One Hundred and Twenty-fifth Street, East of Fifth Avenue.

- First avenue, from Sixty-eighth to One Hundred and Twenty-fifth street. Seventy-fifth street, from First avenue to Avenue A. Eighty-first street, from Fourth to Madison avenue. Eighty-second street, from First avenue to Avenue B. Eighty-eighth street, from First avenue to Avenue A. Eighty-ninth street, from Second to First avenue. Ninety-second street, from First avenue to Avenue A. Ninety-seventh street, from Second to First avenue. One Hundred and Fourth street, from Second to First avenue. One Hundred and Tenth street, from Second to Pleasant avenue. One Hundred and Tenth street, from Fourth to Seventh avenue. One Hundred and Twentieth street, from Second to First avenue. One Hundred and Twentieth street, from First avenue to river. One Hundred and Twenty-second street, from First to Pleasant avenue. Pleasant avenue, from One Hundred and Eighteenth to One Hundred and Twentieth street. Ninety-fourth street, from Park to Fifth avenue. One Hundred and Fourth street, from Park to Madison avenue. One Hundred and Eighth street, from Park to Madison avenue. One Hundred and Fourteenth street, from Park to Madison avenue. One Hundred and Eighteenth street, from Park to Madison avenue. One Hundred and Sixteenth street, from Park to Fifth avenue. Madison avenue, from One Hundred and Twenty-fourth to One Hundred and Twenty-third street.

Houston to Forty-second Street, West of Fifth Avenue and South Fifth Avenue.

- Thirteenth avenue, from Thirteenth to Fourteenth street. West street, from Bloomfield to Houston street. Greenwich street, from Tenth to Christopher street. Hudson street, from Fourteenth to Gansevoort street. Eleventh avenue, from Forty-second to Twenty-first street. Tenth avenue, from Thirteenth to Forty-second street. Ninth avenue, from Eighteenth to Twentieth street. Seventh avenue, from Fourteenth to Thirty-second street. West Eleventh street, from West street to river. Gansevoort street, from West to Washington street. Hewitt avenue, from Lawton avenue to West street (West Washington Market). Twenty-sixth street, from Eleventh avenue to river. Twenty-eighth street, from Ninth to Tenth avenue. Thirty-first street, from Ninth to Tenth avenue. Thirty-first street, from Eleventh avenue to river. Fortieth street, from Ninth to Tenth avenue.

Forty-second to Sixty-eighth Street, West of Fifth Avenue.

- Eleventh avenue, from Forty-second to Fifty-ninth street. Tenth avenue, from Forty-second to Sixty-second street. Forty-third street, from Eleventh avenue to river. Forty-seventh street, from Ninth to Tenth avenue. Fifty-fifth street, from Eighth to Ninth avenue. Fifty-fifth street, from Eleventh avenue to river.

Sixty-eighth to One Hundred and Twenty-fifth Street, West of Fifth Avenue.

- Boulevard, from One Hundredth to One Hundred and Thirteenth street. Columbus avenue, from Eighty-sixth to One Hundred and Seventh street. Eighth avenue, from One Hundred and Tenth to One Hundred and Twenty-fifth street. Lenox avenue, from One Hundred and Tenth to One Hundred and Fifteenth street. Sixty-ninth street, from Amsterdam to West End avenue. One Hundred and Fourth street, from Amsterdam avenue to Boulevard. One Hundred and Fifth street, from Columbus avenue to Central Park, West. One Hundred and Eighth street, from Amsterdam avenue to Boulevard. One Hundred and Tenth street, from Lenox to Fifth avenue. One Hundred and Thirteenth street, from Amsterdam avenue to Boulevard. One Hundred and Fifteenth street, from Seventh to Lenox avenue. One Hundred and Sixteenth street, from Eighth to Columbus avenue. One Hundred and Nineteenth street, from Eighth to Manhattan street. One Hundred and Twentieth street, from Seventh to Lenox avenue.

To Reach Public Schools (Subsidiaries.)

- Roosevelt street, from Cherry street to No. 85. Duane street, from Centre street to City Hall place to No. 36. Oliver street, from Oak street to No. 73 Oliver street. Monroe street, from Market street to No. 70 Monroe street. Ninety-third street, from Boulevard to northwest corner Amsterdam avenue. Allen street, from Hester street to No. 30 Allen street. Monroe street, from Gouverneur street to No. 200 Monroe street. King street, from Varick street to No. 29 King street. Baxter street, from Grand street to No. 143 Baxter street. Norfolk street, from Rivington street to No. 25 Norfolk street. Willett street, from Broome street to No. 108 Broome street. Madison street, from Scammel street to No. 371 Madison street. Cannon street, from Broome street to No. 28 Cannon street. Mott street, from Spring street to No. 222 Mott street. Chrystie street, from Delancy street to No. 160 Chrystie street. Wooster street, from Bleecker street to No. 180 Wooster street. First street, from Second avenue to No. 38 First street. Sheriff street, from Stanton street to northeast corner. Tenth street, from Greenwich street to No. 274 West Tenth street. Hudson street, from West side to northeast corner Grove street. Third street, from Third avenue to No. 15 Third street. Fourth street, from Avenue C to No. 269 Fourth street. Horatio street, from Hudson street No. 29 Horatio street. Thirteenth street, from Seventh avenue to No. 208 Thirteenth street. Fourteenth street, from First avenue to No. 344 East Fourteenth street. Eleventh street, from Third street to No. 206 East Eleventh street. Twelfth street, from Avenue B to No. 536 East Twelfth street. Ninth street, from Avenue C to No. 710 East Ninth street. Sixteenth street, from First avenue to No. 413 East Sixteenth street. Eighteenth street, from Ninth avenue to No. 351 West Eighteenth street. Twentieth street, from Third avenue to No. 211 East Twentieth street. Twentieth street, from First avenue to No. 322 East Twentieth street. Nineteenth street, from First avenue to No. 433 East Nineteenth street. Twenty-fourth street, from Seventh avenue to No. 225 West Twenty-fourth street. Twenty-second street, from Lexington avenue to New York College. Twenty-third street, from Lexington avenue to New York College. Twenty-third street, from Second avenue to No. 225 East Twenty-third street. Twenty-eighth street, from Ninth avenue to No. 418 West Twenty-eighth street. Thirty-seventh street, from Tenth avenue to No. 515 West Thirty-seventh street. Thirty-seventh street, from Second avenue to No. 237 East Thirty-seventh street. Forty-second street, from Eighth avenue to No. 252 West Forty-second street. Forty-first street, from Seventh avenue to No. 225 West Forty-first street. Forty-fourth street, from Tenth avenue to No. 523 West Forty-fourth street. Forty-seventh street, from Eighth avenue to No. 235 West Forty-seventh street. Forty-sixth street, from Third avenue to No. 209 East Forty-sixth street. Fifty-eighth street, from Tenth avenue to No. 462 West Fifty-eighth street. Fifty-seventh street, from Second avenue to No. 226 East Fifty-seventh street. Sixty-third street, from Third avenue to No. 220 East Sixty-third street. Seventieth street, from First avenue to northwest corner. Seventy-ninth street, from Third avenue to No. 207 East Seventy-ninth street. Eighty-seventh street, from Fourth avenue to No. 113 East Eighty-seventh street. Eighty-eighth street, from Second avenue to No. 234 East Eighty-eighth street. One Hundred and Fourth street, from Boulevard to northeast corner Amsterdam avenue. Lexington avenue, from One Hundred and Fifth street north 100 feet. Ninety-ninth street, from Third to Second avenue.

One Hundred and Tenth street, from Third avenue to No. 216 East One Hundred and Tenth street.

One Hundred and Fifteenth street, from Third avenue to No. 176 East One Hundred and Fifteenth street.

One Hundred and Twenty-fifth street, from Second avenue to No. 235 East One Hundred and Twenty-fifth street.

Fiftieth street, from Tenth avenue to No. 430 West Fiftieth street.

Seventy-seventh street, from Boulevard to northeast corner Amsterdam avenue.

One Hundred and Twenty-fourth street, from Eighth avenue to No. 263 West One Hundred and Twenty-fourth street.

Sixty-eighth street, from east side of Amsterdam avenue to northwest corner.

The following communications from the Manhattan Electric-light Company, the Postal Telegraph-Cable Company and the Metropolitan Telephone and Telegraph Company, giving statistics of removals of poles and wires during the month of March, were read, and ordered to be filed and spread on the minutes :

MANHATTAN ELECTRIC-LIGHT COMPANY (LIMITED), OFFICE AND STATION, EIGHTIETH STREET AND EAST END AVENUE, NEW YORK, April 4, 1894.

Hon. THEODORE MOSS, Secretary, Board of Electrical Control, No. 1266 Broadway, City :

DEAR SIR—We beg to advise you that during the month of March this company removed overhead wire as follows :

Table with 2 columns: Street description and Length in feet. Total: 36,714 feet = 6.95 miles.

MANHATTAN ELECTRIC-LIGHT COMPANY (LIMITED), E. A. LESLIE, Vice-President.

P. S.—In our next communication on this subject we hope to report the removal of every foot of overhead wire now operated by this company.

POSTAL TELEGRAPH-CABLE COMPANY, OFFICE OF SUPERINTENDENT, 187 BROADWAY, NEW YORK, April 4, 1894.

To the Board of Electrical Control, No. 1266 Broadway, New York :

GENTLEMEN—During the month of March we removed about three and one-half miles of overhead wire between Bowling Green and Twenty-third street on Broadway and adjoining streets.

Very respectfully, POSTAL TELEGRAPH-CABLE CO., E. G. COCHRANE, Superintendent.

GENERAL OFFICES OF THE METROPOLITAN TELEPHONE AND TELEGRAPH COMPANY, No. 18 CORTLANDT STREET, NEW YORK, April 7, 1894.

Board of Electrical Control, No. 1266 Broadway, New York, N. Y., Mr. THEO. MOSS, Secretary : DEAR SIR—I beg to advise you that this company has removed during the month of March, 1894, the following poles and wires :

On Avenue A, between Houston and Third streets, two poles, 1 1/2 miles wire.  
 On Avenue B, between Fifteenth and Nineteenth streets, three poles, 1 mile wire.  
 On Avenue B, between Sixteenth and Nineteenth streets, three poles.  
 On Avenue C, between Fifteenth and Sixteenth streets, 1 mile wire.  
 On Avenue D, between Tenth and Houston streets, eleven poles, 5 miles wire.  
 On Avenue D, between Thirteenth and Fifteenth streets, two poles, 2 miles wire.  
 On Avenue D, southeast corner of Fifteenth street, two poles.  
 On Avenue D and Manhattan street, three poles.  
 On Bleecker street, between Bowery and Elizabeth street, one pole, 1/2 mile wire.  
 On Bowery, corner of Chrystie street, 1 mile wire.  
 On Catherine street, between East Broadway and Cherry street, seven poles, 1/2 mile wire.  
 On Chrystie street, between Delancey and Houston streets, 14 miles wires.  
 On Chrystie street, corner of Delancey street, one pole.  
 On Chrystie street, corner of Stanton street, one pole.  
 On Delancey street, between Mangin and Pitt streets, seven poles.  
 On Delancey street, between Chrystie and Tompkins streets, 12 miles wire.  
 On Division street, between Hester and Gouverneur streets, two poles, 4 miles wire.  
 On Elizabeth street, between Bleecker and Bayard streets, one pole, 2 1/2 miles wire.  
 On Elizabeth street, corner Bleecker street, one pole, 1/2 mile wire.  
 On Elizabeth street, between Bayard and Prince streets, six poles.  
 On Elizabeth street, between Bleecker and Houston streets, one pole.  
 On Essex street, between Houston street and East Broadway, thirteen poles, 3 1/2 miles wire.  
 On Forsyth street, between Division and Canal streets, two poles, 1/2 mile wire.  
 On Gouverneur street, between Division and Cherry streets, six poles.  
 On Houston street, between Avenue D and Tompkins street, 4 miles wire.  
 On Lewis street, between Stanton and Eighth streets, one pole, 1/2 mile wire.  
 On Madison street, between Oliver and Rutgers streets, eight poles, 5 1/2 miles wire.  
 On Mangin street, between Delancey and Stanton streets, 4 miles wire.  
 On Orchard street and First avenue, one pole.  
 On Orchard street and Second avenue, one pole.  
 On Orchard street, between Houston and Hester streets, ten poles, 4 miles wire.  
 On Pitt street, between Grand and Delancey streets, three poles, 5 miles wire.  
 On Rutgers street, between Madison street and East Broadway, one pole, 1 1/2 miles wire.  
 On Stanton street, between Tompkins and Lewis streets, 1 mile wire.  
 On Tompkins street, between Stanton and Delancey streets, 1/2 mile wire.  
 On First avenue, between Houston and Third streets, one pole, 5 miles wire.  
 On First avenue, between Thirteenth and Fourteenth streets, 1 mile wire.  
 On First avenue, between Thirteenth and Seventeenth streets, 3 miles wire.  
 On First avenue, between Seventeenth and Twentieth streets, 4 miles wire.  
 On First avenue, between Eighty-second and Seventy-ninth streets, 5 miles wire.  
 On First avenue, between Eighty-second and Eighty-fifth streets, 3 miles wire.  
 On First avenue, between One Hundred and Second and One Hundred and Sixth streets, one pole, 5 miles wire.  
 On First avenue, between Ninety-second and One Hundred and Second streets, 6 miles wire.  
 On Fourth street, between West Eleventh and Fourteenth streets, 2 1/2 miles wire.  
 On Eighth street, between Avenue D and Lewis street, three poles, 1/2 mile wire.  
 On Eleventh street, between Fourth and West streets, 5 miles wires.  
 On Thirteenth street, between Fourth and Tenth avenues, 1 mile wire.  
 On Thirteenth street, between Avenue B and Third avenue, 2 miles wire.  
 On Thirteenth street, between Avenues B and D, 1 mile wire.  
 On Fifteenth street, between Avenue A and Second avenue, four poles, 2 miles wire.  
 On Fifteenth street, between Avenues B and D, five poles, 2 miles wire.  
 On Fifteenth street, between Avenues A and B, five poles, 1 mile wire.  
 On Fifteenth street and First avenue, four poles.  
 On Eighteenth street, between Avenues A and B, 1 mile wire.  
 On Nineteenth street, between First avenue and Avenue A, four poles, 1 mile wire.  
 On Nineteenth street, southeast corner First avenue, one pole.  
 On Twenty-second street, between First avenue and East river, three poles, 2 miles wire.  
 On Twenty-second street, between First and Second avenues, two poles, 1 mile wire.  
 On Forty-fourth street, between First and Third avenues, 6 miles wire.  
 On One Hundred and Sixth street, between First and Third avenues, nine poles, 1/2 mile wire.  
 Total, 142 poles and 136 miles of wire.

Yours, very truly,  
 E. W. CARRITT, General Superintendent.

On motion of his Honor the Mayor, it was Resolved, That the district from Fifty-ninth street to Battery, and from First avenue to Eleventh avenue, be cleared of poles and overhead wires within ninety days from this date, and that notice to this effect be sent to all electrical companies owning or operating conductors in said district.

Whereupon the Board adjourned.

APPROVED PAPERS.

Approved Papers for the Week ending April 21, 1894.

Resolved, That the following-named persons be and they are hereby respectively appointed to the office of Commissioner of Deeds in and for the City and County of New York, to date from the expiration of their present terms of office, viz.:

Henry P. McGown, Jr.	John A. Delaney.	Frederick W. Jockel.
Joseph J. Harris.	Francis Dedek.	John W. Wood.
James B. Black.	Nathan Fernbacher.	Samuel A. Hamel.
Philip Wood.	A. H. Sarasohn.	Charles H. Riley.
John F. McCabe.	Edward G. Alsdorf.	Thomas E. Rush.
Nicholas C. Conlan.	Joseph Ullman.	Max Bacharach.
Edward H. Warker.	Hugh Hughes.	Charles W. Coleman.
Max E. Bernheimer.	Thomas Burke.	James E. Doherty.
Edward H. Mars.	Joseph Kaufmann.	William J. Duggett.
George C. Hopp.	William Bennett.	Gilbert R. Hawes.
Thomas W. Byrnes.	John Deaken.	David S. Updike.
Albert Joseph.	George W. Mercer.	Charles A. Malloy.
Louis A. Chandler.	Elmer E. De Camp.	

Resolved, That the following-named persons be and they are hereby respectively appointed to the office of Commissioner of Deeds in and for the City and County of New York, in the places respectively of those whose names appear opposite, and whose terms of office have expired, viz.:

Max Schwab, in place of	Reno R. Billington.
Hyman Lewis,	George W. Egers.
Michael Rosenthal,	David P. Fleming.
Charles A. Wandell,	G. Reynolds Gibbons.
J. W. Stackpole,	James M. Gilmore.
George Ludwig,	Charles Kingsley.
John A. Brown,	Louis S. Kellogg.
H. W. Leonard,	Peter M. Ledwith.
John Turner,	John P. Lynch, Jr.
J. P. Taaffe,	Eugene C. Ludin.
John A. Sly,	Charles P. Meyer.
Bernard Fitzpatrick,	Frederick Meyer, Jr.
Murray J. Werzansky,	Charles Raab.
Isaac Beran,	M. T. Ryder.
Samuel M. Crane,	B. Rossi.
Daniel J. Cushing,	Edward J. Shea.
Arthur L. Brigham,	Jacob A. Lehmann.
Richard H. Smith,	John G. Underhill.
Washington Brauns,	W. Irving Brauns.

Resolved, That the following-named persons be and they are hereby appointed Commissioners of Deeds in and for the City and County of New York, in the places, respectively, of those whose names appear opposite, who were recently appointed, but failed to qualify:

Carson G. Archibald, in place of	Carson G. Archibald.
Jacob A. Millhauser,	Thomas O. Arden.
John M. Jones,	James J. Armstrong.
Charles A. Brandl,	Charles A. Brandl.
Benjamin Schneider,	James F. Bigger.
Ruford Franklin,	Benjamin Barnett.
Joseph M. Harris,	Edward M. Clark.
Louis Curtis,	Louis Curtis.
William J. Le Compte,	Edward J. Clark.
George W. Freeborn,	William E. Cuff.
Lyman S. Andrews,	Thomas J. Cummins, Jr.
John R. Salmon,	Alexander J. Dowd.

Julius Goldschmidt, in place of	Anthony C. Dozeville.
John J. Donohue,	John J. Donohue.
James H. Driscoll,	James H. Driscoll.
Arthur D. Davis,	Arthur D. Davis.
John F. Doherty,	John F. Doherty.
Charles M. Hammond,	David Engel.
George Fritz,	George Fritz.
John L. Florence,	John L. Florence.
Joseph C. Francke,	Joseph C. Francke.
James M. Peebles,	James M. Peebles.
Jeremiah H. Griffin,	Jeremiah H. Griffin.
Thomas F. Gibbons,	Thomas F. Gibbons.
Samuel Hoffman,	Samuel Hoffman.
Leo Herzberg,	Leo Herzberg.
John M. Jones,	John M. Jones.
Isidor H. Kempner,	Isidor H. Kempner.
John M. Karsch,	John M. Karsch.
Charles F. Leland,	Charles F. Leland.
George A. Lavelle,	George A. Lavelle.
P. F. McGlynn,	P. F. McGlynn.
John J. McCoy,	John J. McCoy.
John F. McCauley,	John F. McCauley.
Thomas J. McMahon,	Thomas J. McMahon.
George McFadden,	George McFadden.
William Mohr,	William Mohr.
John F. Meehan,	John F. Meehan.
M. F. Neville,	M. F. Neville.
William H. Peckham,	William H. Peckham.
William F. Quinn,	William F. Quinn.
Max Rosenblatt,	Max Rosenblatt.
Isaac Rothschild,	Isaac Rothschild.
John M. Tracy,	John M. Tracy.
C. E. Travis,	C. E. Travis.
Frank J. Turner,	Frank J. Turner.
William W. Whitlock,	William W. Whitlock.
George T. Young,	George T. Young.
S. D. Epstein,	Edward J. Shalvey.
Gustav Talker,	Daniel Schwegler.
A. Ragette,	Frederick Tourelle.
A. F. Schwannecke,	A. F. Schwannecke.
James Henry Ker,	Robert Loudon.
Ed. B. O'Donnell,	Louis Silverblatt.
John P. Nugent,	Joseph P. Ryan.

Adopted by the Board of Aldermen, April 17, 1894.

Resolved, That Garrett J. Byrne, Jr., of No. 2289 Seventh avenue, be and he is hereby appointed a City Surveyor.

Adopted by the Board of Aldermen, April 10, 1894.  
 Approved by the Mayor, April 18, 1894.

Resolved, That permission be and the same is hereby given to A. Weiner to place and keep an ornamental clock and post in front of No. 2703 Third avenue, provided that the post shall not exceed the dimensions prescribed by law (eighteen inches square at the base), the clock not to exceed two feet in diameter, provided the flagging be put down in the same condition it was before being disturbed, the work to be done and material supplied at his own expense, under the direction of the Commissioner of Street Improvements, Twenty-third and Twenty-fourth Wards; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, April 10, 1894.  
 Approved by the Mayor, April 18, 1894.

Resolved, That water-mains be laid in Ninety-sixth street, between Park and Madison avenues, as provided by section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, April 10, 1894.  
 Approved by the Mayor, April 18, 1894.

Resolved, That water-mains be laid in One Hundred and Sixty-third street, from Trinity avenue to Caldwell avenue, and in Caldwell avenue, from One Hundred and Sixty-first street to One Hundred and Sixty-third street, as provided in section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, April 10, 1894.  
 Approved by the Mayor, April 18, 1894.

Resolved, That water-mains be laid in Teasdale place, between Third and Trinity avenues, as provided by section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, April 10, 1894.  
 Approved by the Mayor, April 18, 1894.

Resolved, That the Commissioner of Public Works be and he is hereby authorized to lay water-mains in Eighth avenue, between Ninety-ninth and One Hundred and First streets; in One Hundredth street, between Eighth avenue and Boulevard, and in Ninety-sixth street, between Boulevard and Riverside Drive, as provided by section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, April 10, 1894.  
 Approved by the Mayor, April 18, 1894.

Resolved, That the Commissioner of Public Works be and he is hereby authorized to lay water-mains in One Hundred and Thirty-eighth street, between Rider and Gerard avenues, as provided by section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, April 10, 1894.  
 Approved by the Mayor, April 18, 1894.

Resolved, That the Commissioner of Public Works be and he is hereby authorized to lay water-mains in One Hundred and Sixtieth street, between Courtlandt and Railroad avenues, and in Kelly street, between Union and Prospect avenues, as provided by section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, April 10, 1894.  
 Approved by the Mayor, April 18, 1894.

Resolved, That water-mains be laid in Vyse avenue, from Home street to Cook place, as provided by section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, April 10, 1894.  
 Approved by the Mayor, April 18, 1894.

Resolved, That water-mains be laid in Leggett avenue, between Prospect avenue and Leggett lane, as provided by section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, April 10, 1894.  
 Approved by the Mayor, April 18, 1894.

Resolved, That water-mains be laid in George street, from Boston avenue to Prospect avenue, as provided by section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, April 10, 1894.  
 Approved by the Mayor, April 18, 1894.

Resolved, That water-mains be laid in Union avenue, between One Hundred and Fifty-sixth street and Dawson street, as provided by section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, April 10, 1894.  
 Approved by the Mayor, April 18, 1894.

Resolved, That water-mains be laid in One Hundred and Fifty-sixth street, between Westchester and Prospect avenues, as provided by section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That water-mains be laid in Briggs avenue, from Southern Boulevard to Suburban street, as provided by section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That permission be and the same is hereby given to Philip Reilly to place and keep a watering-trough on the northwest corner of One Hundred and Forty-fifth street and Willis avenue, 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, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That permission be and the same is hereby given to Louis Lutz to place and keep a watering-trough on the sidewalk, near the curb, on the northeast corner of Morris avenue and One Hundred and Eighty-first 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, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That a lamp-post be erected and four street-lamps placed thereon and lighted in Sherman Square, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps placed thereon and lighted in Eagle avenue, between Cedar place and One Hundred and Sixty-first street, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps placed thereon and lighted in Hoe avenue, from West Farms road to Charlotte place, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps placed thereon and lighted in Leggett avenue, between Prospect avenue and Leggett lane, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps placed thereon and lighted in George street, from Boston avenue to Prospect avenue, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps placed thereon and lighted in Napier avenue, from Grand to Berrian place; in Berrian place, from Napier avenue to Mile Square road; in Even place, from Napier avenue to Mile Square road, and in Mile Square road, from Grand avenue to Fourth street, all in Woodlawn, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps placed thereon and lighted in Union avenue, between One Hundred and Fifty-sixth street and Dawson street, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps placed thereon and lighted in One Hundred and Forty-seventh street, from Southern Boulevard to Austin place, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps placed thereon and lighted in Eagle avenue, from Westchester avenue north for a distance of seven hundred feet, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps placed thereon and lighted in One Hundred and Thirty-third street, from Trinity avenue to Willow avenue, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps lighted in Lafayette avenue, from Hunt's Point road southerly about six hundred and thirty feet, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That College avenue, from the northerly curb-line of One Hundred and Forty-sixth street to the southerly curb-line of One Hundred and Forty-eighth street, be regulated and graded, the curb-stones set, the sidewalks flagged a space four feet in width, and crosswalks laid at each intersecting street or avenue, where not already laid, under the direction of the Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Lowell street, from Third avenue to Rider avenue, be regulated and paved with granite-block pavement, and crosswalks be laid at each intersecting and terminating street or avenue, where not already laid, under the direction of the Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Rutgers Slip, from Cherry to South street, so far as the same is within the limits of grants of land under water, be paved with granite-block pavement on concrete foundation, and that the present crosswalks within that space be relaid, using the present

ridge-stones where not worn or broken so far as to be unfit for use, and using new bridge-stones in place of defective stones, and laying new bridge and curb stones where required, under chapter 449, Laws 1889, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Moore street, from Pearl to South street, so far as the same is within the limits of grants of land under water, be paved with granite-block pavement on concrete foundation, and that the present crosswalks within that space be relaid, using the present bridge-stones where not worn or broken so as to be unfit for use, and using new bridge-stones in place of defective stones, and laying new bridge and curb stones where required, under chapter 449, Laws 1889, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Montgomery street, from Water to South street, so far as the same is within the limits of grants of land under water, be paved with granite-block pavement on concrete foundation, and that the present crosswalks within that space be relaid, using the present bridge-stones where not worn or broken so as to be unfit for use, and using new bridge-stones in place of defective stones, and laying new bridge and curb stones where required, under chapter 449, Laws 1889, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Houston street, from Lewis to Mangin street, so far as the same is within the limits of grants of land under water, be paved with granite-block pavement on concrete foundation, and that the present crosswalks within that space be relaid, using the present bridge-stones where not worn or broken so as to be unfit for use, and using new bridge-stones in place of defective stones, and laying new bridge and curb stones where required, under chapter 449, Laws 1889, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That crosswalks of two courses of North river blue stone, with a row of paving-blocks between the courses, be laid across Seventy-fourth street at its intersection with the easterly sides of Columbus avenue, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Wall street, from Pearl to South street, so far as the same is within the limits of grants of land under water, be paved with granite-block pavement on concrete foundation, and that the present crosswalks within that space be relaid, using the present bridge-stones where not worn or broken so as to be unfit for use, and using new bridge-stones in place of defective stones, and laying new bridge and curb stones where required, under chapter 449, Laws 1889, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Pearl street, from Whitehall street to Hanover Square, so far as the same is within the limits of grants of land under water, be paved with granite-block pavement on concrete foundation, and that the present crosswalks within that space be relaid, using the present bridge-stones where not worn or broken so as to be unfit for use, and using new bridge-stones in place of defective stones, and laying new bridge and curb stones where required, under chapter 449, Laws 1889, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Pine street, from Pearl to South street, so far as the same is within the limits of grants of land under water, be paved with granite-block pavement on concrete foundation, and that the present crosswalks within that space be relaid, using the present bridge-stones where not worn or broken so as to be unfit for use, and using new bridge-stones in place of defective stones, and laying new bridge and curb stones where required, under chapter 449, Laws 1889, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Gouverneur lane, from Water to South street, so far as the same is within the limits of grants of land under water, be paved with granite-block pavement on concrete foundation, and that the present crosswalks within that space be relaid, using the present bridge-stones where not worn or broken so as to be unfit for use, and using new bridge-stones in place of defective stones, and laying new bridge and curb stone where required, under chapter 449, Laws 1889, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Seventy-first street, between West End and Hudson river wall, be paved with asphalt pavement, and that crosswalks be laid at each intersecting or terminating street or avenue, 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, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Sixth street, from Lewis street to five hundred feet east, so far as the same is within the limits of grants of land under water, be paved with granite-block pavement on concrete foundation, and that the present crosswalks within that space be relaid, using the present bridge-stones where not worn or broken so as to be unfit for use, and using new bridge-stones in place of defective stones, and laying new bridge and curb stones where required, under chapter 449, Laws 1889, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Jones lane, from Front to South street, so far as the same is within the limits of grants of land under water, be paved with granite-block pavement on concrete foundation, and that the present crosswalks within that space be relaid, using the present bridge-stones where not worn or broken so as to be unfit for use, and using new bridge-stones in place of defective stones, and laying new bridge and curb stones where required, under chapter 449, Laws 1889, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of Broad street, from Pearl to South street, so far as the same is within the limits of grants of land under water, be paved with granite-block pavement on concrete foundation, and that the present crosswalks within that space be relaid, using the present bridge-stones where not worn or broken so as to be unfit for use, and using new bridge-stones in place of defective stones, and laying new bridge and curb stones where required, under chapter 449, Laws 1889, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894.  
Approved by the Mayor, April 18, 1894.

Resolved, That the vacant lots on the north side of One Hundred and Sixth street, between First and Second avenues, and on both sides of One Hundred and Seventh street, between First and Second avenues, be fenced in with a tight board fence, 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, April 10, 1894. Approved by the Mayor, April 18, 1894.

Resolved, That the vacant lots on the north side of Fifty-ninth street, from Amsterdam to Eleventh avenue, be fenced in with a tight board fence, 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, April 10, 1894. Approved by the Mayor, April 18, 1894.

Resolved, That the vacant lots on the south side of Sixtieth street, from Amsterdam avenue to Eleventh avenue, be fenced in with a tight board fence, 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, April 10, 1894. Approved by the Mayor, April 18, 1894.

Resolved, That the vacant lots on the north side of One Hundred and Fifteenth street, between Park and Madison avenues, be fenced in with a tight board fence, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894. Approved by the Mayor, April 18, 1894.

Resolved, That the Department of Public Charities and Correction be and it is hereby authorized to contract without public letting or advertising with the Metropolitan Telegraph and Telephone Company, for the year 1894, in accordance with the provisions of section 64, chapter 410 of the Laws of 1882, at a price not to exceed eleven thousand five hundred dollars (\$11,500).

Adopted by the Board of Aldermen, April 10, 1894. Approved by the Mayor, April 18, 1894.

Resolved, That the vacant lots on the north side of Fifty-first street, between Tenth and Eleventh avenues, be fenced in with a tight board fence, 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, April 10, 1894. Approved by the Mayor, April 18, 1894.

Resolved, That the carriageway of One Hundred and First street, from First avenue to the Harlem river, be paved with granite-block pavement, and that crosswalks be laid at each intersecting and terminating street or avenue, where not already laid, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894. Approved by the Mayor, April 18, 1894.

Resolved, That the vacant lots on the north side of Sixty-seventh street, from Central Park, West, to Columbus avenue, be fenced in with a tight board fence, 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, April 10, 1894. Approved by the Mayor, April 18, 1894.

Resolved, That East One Hundred and Fifty-sixth street, from Railroad avenue, East, to the summit between Railroad avenue, East, and Courtlandt avenue, be re-regulated and regraded, the curb-stones, flagging and crosswalks be readjusted to the established lines and grades, under the direction of the Commissioner of Street Improvements of the Twenty-third and Twenty-fourth Wards; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, April 10, 1894. Approved by the Mayor, April 18, 1894.

MICHAEL F. BLAKE, Clerk Common Council.

EXECUTIVE DEPARTMENT.

MAYOR'S MARSHAL'S OFFICE, New York, April 21, 1894.

Number of licenses issued and amounts received therefor, in the week ending Friday, April 20, 1894.

Table with columns: DATE, NUMBER OF LICENSES, AMOUNTS. Rows for Saturday, Monday, Tuesday, Wednesday, Thursday, Friday, and Totals.

DANIEL ENGELHARD, Mayor's Marshal.

OFFICIAL DIRECTORY.

STATEMENT OF THE HOURS DURING which the Public Offices in the City are open for business, and at which the Courts regularly open and adjourn, as well as of the places where such offices are kept and such Courts are held; together with the heads of Departments and Courts:

EXECUTIVE DEPARTMENT.

Mayor's Office.

No. 6 City Hall, 10 A. M. to 4 P. M.; Saturdays, 10 A. M. to 12 M. THOMAS F. GILROY, Mayor. WILLIS HOLLY, Secretary and Chief Clerk.

Mayor's Marshal's Office.

No. 1 City Hall, 9 A. M. to 4 P. M. DANIEL ENGELHARD, First Marshal. DANIEL M. DONEGAN, Second Marshal.

COMMISSIONERS OF ACCOUNTS.

Rooms 114 and 115, Stewart Building, 9 A. M. to 4 P. M. CHARLES G. F. WAHLE and EDWARD OWEN.

AQUEDUCT COMMISSIONERS.

Room 209, Stewart Building, 5th floor, 9 A. M. to 4 P. M. JAMES C. DUANE, President; JOHN J. TUCKER, FRANCIS M. SCOTT, H. W. CANNON, and THE MAYOR, COMPTROLLER and COMMISSIONER of PUBLIC WORKS, ex officio, Commissioners; EDWARD L. ALLEN, Secretary; A. F. FLEVEY, Chief Engineer.

BOARD OF ARMORY COMMISSIONERS.

THE MAYOR, Chairman; PRESIDENT OF DEPARTMENT OF TAXES AND ASSESSMENTS, Secretary. Address EDWARD P. BARKER, Stewart Building, Office hours, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

COMMON COUNCIL.

Office of Clerk of Common Council.

No. 8 City Hall, 9 A. M. to 4 P. M. GEORGE B. MCCLELLAN, President; Board of Aldermen. MICHAEL F. BLAKE, Clerk Common Council.

DEPARTMENT OF PUBLIC WORKS.

No. 31 Chambers street, 9 A. M. to 4 P. M. MICHAEL T. DALY, Commissioner; MAURICE F. HOLAHAN, Deputy Commissioner (Room A). ROBERT H. CLIFFORD, Chief Clerk (Room 6). GEORGE W. BIRDSALL, Chief Engineer (Room 9); JOSEPH RILEY, Water Register (Rooms 2, 3 and 4); WM. M. DEAN, Superintendent of Street Improvements (Room 5); HORACE LOOMIS, Engineer in Charge of Sewers (Room 9); WILLIAM G. BERGEN, Superintendent of Repairs and Supplies (Room 15); MAURICE FEATHERSON, Water Purveyor (Room 11); STEPHEN McCORMICK, Superintendent of Lamps and Gas (Room 11); JOHN L. FLORENCE, Superintendent of Streets and Roads (Room 12); MICHAEL F. CUMMINGS, Superintendent of Incumbances (Room 16); NICHOLAS R. O'CONNOR, Superintendent of Street Openings (Room 14).

DEPARTMENT OF BUILDINGS.

No. 229 Fourth avenue, corner of Eighteenth street 9 A. M. to 4 P. M. THOMAS J. BRADY, Superintendent.

DEPARTMENT OF STREET IMPROVEMENTS.

Twenty-third and Twenty-fourth Wards. No. 2622 Third avenue, northeast corner of One Hundred and Forty-first street. Office hours, 9 A. M. to 4 P. M.; Saturdays, 12 M. LOUIS F. HAFFEN, Commissioner; JACOB SEABOLD, Deputy Commissioner; JOSEPH P. HENNESSY, Secretary.

FINANCE DEPARTMENT.

Comptroller's Office.

No. 15 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M. ASHBEI P. FITCH, Comptroller; RICHARD A. STORRS, Deputy Comptroller; EDGAR J. LEVEY, Assistant Deputy Comptroller.

Auditing Bureau.

Nos. 19, 21 and 23 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M. WILLIAM J. LYON, First Auditor. JOHN F. GOULDSBURY, Second Auditor.

Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents.

Nos. 31, 33, 35, 37 and 39 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M. EDWARD GILON, Collector of Assessments and Clerk of Arrears. No money received after 2 P. M.

Bureau for the Collection of City Revenue and of Markets.

Nos. 1 and 3 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M. DAVID O'BRIEN, Collector of the City Revenue and Superintendent of Markets. No money received after 2 P. M.

Bureau for the Collection of Taxes.

No. 57 Chambers street and No. 35 Reade street, Stewart Building, 9 A. M. to 4 P. M. DAVID E. AUSTEN, Receiver of Taxes; JOHN J. McDONOUGH, Deputy Receiver of Taxes. No money received after 2 P. M.

Bureau of the City Chamberlain.

Nos. 25 and 27 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M. JOSEPH J. O'DONOHUE, City Chamberlain.

Office of the City Paymaster.

No. 33 Reade street, Stewart Building, 9 A. M. to 4 P. M. JOHN H. TIMMERMAN, City Paymaster.

LAW DEPARTMENT.

Office of the Counsel to the Corporation.

Staats Zeitung Building, third and fourth floors, 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to 12 M. WILLIAM H. CLARK, 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. WILLIAM M. HOES, Public Administrator.

Office of the Corporation Attorney.

No. 49 Beekman street, 9 A. M. to 4 P. M. LOUIS HANNEMAN, Corporation Attorney.

Office of Attorney for Collection of Arrears of Personal Taxes.

Stewart Building, Broadway and Chambers street, 9 A. M. to 4 P. M. JOHN G. H. MEYERS, Attorney. MICHAEL J. DOUGHERTY, Clerk.

DEPARTMENT OF CHARITIES AND CORRECTION.

Central Office.

No. 66 Third avenue, corner Eleventh street, 9 A. M. to 4 P. M.

HENRY H. PORTER, President; CHAS. E. SIMMONS, M. D., and EDWARD C. SHEEHY, Commissioners; GEORGE F. BRITTON, Secretary. Purchasing Agent, FREDERICK A. CUSHMAN. Office hours, 9 A. M. to 4 P. M.; Saturdays, 12 M. Plans and Specifications, Contracts, Proposals and Estimates for Work and Materials for Building, Repairs and Supplies, Bills and Accounts, 9 A. M. to 4 P. M. Saturdays, 12 M. CHARLES BENN, General Bookkeeper. Out-Door Poor Department. Office hours, 8.30 A. M. to 4.30 P. M. WILLIAM BLAKE, Superintendent. Entrance on Eleventh street.

POLICE DEPARTMENT.

Central Office.

No. 300 Mulberry street, 9 A. M. to 4 P. M. JAMES J. MARTIN, President; CHARLES F. MACLEAN, JOHN McCLAIVE and JOHN C. SHEEHAN, Commissioners; WILLIAM H. KIPP, Chief Clerk; T. F. RODENBOUGH, Chief of Bureau of Elections.

FIRE DEPARTMENT.

Office hours for all, except where otherwise noted, from 9 A. M. to 4 P. M.; Saturdays, 12 M.

Headquarters.

Nos. 157 and 159 East Sixty-seventh street. JOHN J. SCANNELL, President; ANTHONY EICKHOFF and S. HOWLAND ROBBINS, Commissioners; CARL JUSSEN, Secretary. HUGH BONNER, Chief of Department; PETER SEERY, Inspector of Combustibles; JAMES MITCHELL, Fire Marshal; WM. L. FINDLEY, Attorney to Department; J. ELLIOT SMITH, Superintendent of Fire Alarm Telegraph. Central Office open at all hours.

HEALTH DEPARTMENT.

No. 301 Mott street, 9 A. M. to 4 P. M.

CHARLES G. WILSON, President, and CYRUS EDSON, M. D., the PRESIDENT OF THE POLICE BOARD, ex officio, and the HEALTH OFFICER OF THE PORT, ex officio, Commissioners; EDMONDS CLARK, Secretary.

BOARD OF EDUCATION.

No. 146 Grand street, corner of Elm street. CHARLES H. KNOX, President; ARTHUR McMULLIN, Clerk.

DEPARTMENT OF TAXES AND ASSESSMENTS.

Stewart Building, 9 A. M. to 4 P. M.; Saturdays, 12 M. EDWARD P. BARKER, President; JOHN WHALEN and JOSEPH BLUMENTHAL, Commissioners; FLOYD T. SMITH, Secretary.

DEPARTMENT OF PUBLIC PARKS.

Emigrant Industrial Savings Bank Building, Nos. 49 and 51 Chambers street, 9 A. M. to 4 P. M.; Saturdays, 12 M. ABRAHAM B. TAPPEN, President; NATHAN STRAUS, GEORGE C. CLAUSEN and EDWARD BELL, Commissioners; CHARLES DE F. BURNS, Secretary.

DEPARTMENT OF PUBLIC PARKS.

DEPARTMENT OF PUBLIC PARKS, NOS. 49 AND 51 CHAMBERS STREET, NEW YORK, April 20, 1894.

TO CONTRACTORS.

SEALED BIDS OR ESTIMATES, FOR EACH of the following-mentioned works with the title of the work and the name of the bidder indorsed thereon, also the number of the work as in the advertisement, will be received by the Department of Public Parks, at its offices, Nos. 49 and 51 Chambers street, until eleven o'clock A. M., on Wednesday, May 2, 1894.

- No. 1. FOR SLATE TANKS, CARPENTER WORK, PLUMBING, TILING, ETC., FOR THE AQUARIUM IN THE CASTLE GARDEN BUILDING, IN BATTERY PARK. No. 2. FOR FOUNDATION-WALLS, GRANITE-WORK, IRON RAILING, ETC., FOR THE PADDOCK ENCLOSURES FOR CATTLE BUILDINGS NEAR THE ARSENAL, IN CENTRAL PARK. No. 3. FOR FURNISHING AND DELIVERING BROKEN TRAP-ROCK SCREENINGS.

Special notice is given that the works must be bid for separately. The estimates of the work to be done, and by which the bids will be tested, are as follows:

No. 1. ABOVE-MENTIONED.

Bidders are required to state, in writing, and also in figures, in their proposals, ONE PRICE OR SUM for which they will execute the ENTIRE WORK. The time allowed for the completion of the whole work will be SIXTY-FIVE CONSECUTIVE WORKING DAYS. The damages to be paid by the Contractor for each day that the contract, or any part thereof, may be unfulfilled after the time fixed for the completion thereof has expired, are fixed at FIFTY DOLLARS per day. The amount of security required is EIGHT THOUSAND DOLLARS.

No. 2. ABOVE-MENTIONED.

Bidders are required to state in writing and also in figures, in their proposals, ONE PRICE OR SUM for which they will execute the ENTIRE WORK. The time allowed for the completion of the whole work will be FORTY CONSECUTIVE WORKING DAYS. The damages to be paid by the Contractor for each day that the contract, or any part thereof, may be unfulfilled after the time fixed for the completion thereof has expired, are fixed at TEN DOLLARS per day. The amount of security required is EIGHTEEN HUNDRED DOLLARS.

No. 3. ABOVE-MENTIONED.

1,000 cubic yards of trap-rock screenings to be delivered on Bronx Park and Moshulu Parkway, in the Twenty-fourth Ward, within thirty days.

The penalty for non-completion within the specified time will be TEN DOLLARS PER DAY. The amount of security required is ONE THOUSAND DOLLARS.

Bidders will be required to complete the entire works to the satisfaction of the Department of Public Parks, and in substantial accordance with the specifications for the works and the plans therein referred to. No extra compensation beyond the amount payable for the several classes of work before enumerated which shall be actually performed, at the prices therefor, to be specified by the lowest bidder, shall be due or payable for the entire work.

The estimates received will be publicly opened by the head of the said Department at the place and hour last above mentioned and read.

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 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, be bound as sureties for its faithful performance; 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 section 27 of chapter 8 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 received or considered unless accompanied by either a certified check upon one of the State or National banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within ten 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.

N. B.—The price must be written in the estimate and also stated in figures, and all estimates will be considered as informal which do not contain bids for all items for which bids are herein called, or which contain bids for items for which bids are not herewith called for. Permission will not be given for the withdrawal of any bid or estimate. No bid will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The Department of Public Parks reserves the right to reject any or all the bids received in response to this advertisement if it should deem it for the interest of the City so to do, and to readvertise until satisfactory bids or proposals shall be received. But the contract when awarded, in each case, will be awarded to the lowest bidder.

Blank forms for proposal and forms of the several contracts which the successful bidders will be required to execute, can be had, and the plans can be seen and information relative to them can be had at the office of the Department, Nos. 49 and 51 Chambers street.

A. B. TAPPEN, NATHAN STRAUS, GEORGE C. CLAUSEN, EDWARD BELL, Commissioners of Public Parks

DEPARTMENT OF STREET CLEANING.

DEPARTMENT OF STREET CLEANING, NEW CRIMINAL COURT BUILDING, NEW YORK, April 11, 1894.

PUBLIC NOTICE IS HEREBY GIVEN, THAT the following articles, the property of the Department of Street Cleaning, will be sold at Public Auction, at Storekeeper's Office, Seventeenth street and Avenue C, on Monday, April 23, 1894, at 1 o'clock P. M.:

- 2 pairs of curtains, 15 mattresses, 12 pillows, 6 sheets, 2 cushions (leather), 3 spreads (bed), 3 pieces damask, 10 blankets (double), 4 side lights, 2 head lights, 2 Binach lamps, 1 bullseye lamp, 3 clocks, 2 compasses, 5 axes, 20 buckets (galvanized iron), 3 monkey wrenches, 1 large screw wrench, 3 small screw wrenches, 2 hammers, 1 square file, 2 half round files, 2 cold chisels, 1 Silston wrench, 1 boiler tester, dishes, cooking utensils.

TERMS OF SALE.

The purchase money to be paid in bankable funds at the time of sale, or the articles will be resold. Purchasers will be required to remove their articles from the stables within twenty-four hours after the sale. Information in relation to the articles to be sold may be obtained from the Storekeeper, Seventeenth street and Avenue C. WILLIAM S. ANDREWS, Commissioner of Street Cleaning.

BOARD OF EDUCATION.

SEALED PROPOSALS WILL BE RECEIVED BY the Board of School Trustees for the Seventeenth Ward, at the Hall of the Board of Education, No. 146 Grand street, until 9.30 o'clock A. M., on Tuesday, May 1, 1894, for making Sanitary Improvements at Grammar School No. 25.

HIRAM MERRITT, Chairman, HENRY H. HAIGHT, Secretary, Board of School Trustees, Seventeenth Ward. Dated New York, April 18, 1894.

Sealed proposals will also be received at the same place by the School Trustees of the Eighteenth Ward, until 10.30 o'clock A. M., on Tuesday, May 1, 1894, for making Sanitary Improvements at Primary School No. 4.

A. G. VANDERPOEL, Chairman, EWEN MCINTYRE, Secretary, Board of School Trustees, Eighteenth Ward. Dated New York, April 18, 1894.

Sealed proposals will also be received at the same place by the School Trustees of the Twenty-third Ward, until 4 o'clock P. M., on Tuesday, May 1, 1894, for making Repairs, Alterations, etc., at Grammar Department, Grammar School No. 60, Primary Department, Grammar School No. 60, Grammar Schools Nos. 85 and 90.

JAS. A. FERGUSON, Chairman, J. C. JULIUS LANGBEIN, Secretary, Board of School Trustees, Twenty-third Ward. Dated New York, April 18, 1894.

Sealed proposals will also be received at the same place by the School Trustees of the Twenty-second Ward, until 4 o'clock P. M., on Thursday, April 26, 1894, for making Sanitary Improvements at Grammar School No. 28, located West Fortieth street, near Eighth avenue.

JAMES R. CUMING, Chairman, R. S. TREACY, Secretary, Board of School Trustees, Twenty-second Ward. Dated New York, April 13, 1894.

Sealed proposals will also be received at the same place by the School Trustees of the Ninth Ward, until 10 o'clock A. M., on Wednesday, April 25, 1894, for making Sanitary Improvements at Grammar School Building No. 3 and Primary School Buildings Nos. 7 and 13.

WILLIAM C. SMITH, Chairman, ARTHUR H. KENNEDY, Secretary, Board of School Trustees, Ninth Ward. Dated New York, April 12, 1894.

Sealed proposals will also be received at the same place by the School Trustees of the Twelfth Ward, until 10 o'clock A. M., on Monday, April 23, 1894, for Heating and Ventilating Apparatus for the Addition to Grammar School Building No. 54, on north side of One Hundred and Fourth street, near Amsterdam avenue.

JOHN WHALEN, Chairman, ANTONIO RASINES, Secretary, Board of School Trustees, Twelfth Ward. Dated New York, April 10, 1894.

Plans and specifications may be seen, and blank proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand street, third floor. The Trustees reserve the right to reject any or all of the proposals submitted.

The party submitting a proposal, and the parties proposing to become sureties, must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

The party submitting a proposal must include in his proposal the names of all sub-contractors, and no change will be permitted to be made in the sub-contractors named without the consent of the School Trustees and Superintendent of School Buildings.

It is required as a condition precedent to the reception or consideration of any proposals, that a certified check upon, or a certificate of deposit of, one of the State or National banks, or Trust Companies of the City of New York, drawn to the order of the President of this Board, shall accompany the proposal to an amount of not less than three per cent. of such proposal, when said proposal is for or exceeds ten thousand dollars, and to an amount not less than five per cent. of such proposal when said proposal is for an amount under ten thousand dollars; that on demand, within one day after the awarding of the contract by the proper Board of Trustees, the President of the Board will return all the deposits of checks and certificates of deposit made, to the persons making the same, except that made by the person or persons whose bid has been so accepted; and that if the person or persons whose bid has been so accepted shall refuse or neglect, within five days after due notice has been given that the contract is ready for execution, to execute the same, the amount of the deposit or of the check or certificate of deposit made by him or them shall be forfeited to and retained by this Board, not as a penalty, but as liquidated damages for such neglect or refusal, and shall be paid into the City Treasury to the credit of the Sinking Fund of the City of New York; but if the said person or persons whose bid has been so accepted shall execute the contract within the time aforesaid, the amount of his or their deposit of check or certificate of deposit shall be returned to him or them.

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 4439, No. 1. Paving Forest avenue, from Westchester avenue to One Hundred and Sixty-third street, with trap-blocks.

List 4522, No. 2. Flagging and reflagging, curbing and recuring, both sides of Seventy-sixth street, from the Boulevard to Riverside Drive.

List 4523, No. 3. Flagging, curbing and recuring north side of One Hundred and Thirty-sixth street, from Seventh to Eighth avenue.

List 4524, No. 4. Fencing vacant lots east side of West End avenue, between Sixty-ninth and Seventieth streets and north side of Sixty-ninth street, extending about 100 feet east of West End avenue, and south side of Seventieth street, extending about 175 feet East of West End avenue, and north side of Seventieth street, for a distance of 50 feet east of West End avenue.

List 4525, No. 5. Fencing vacant lots on south side of One Hundred and Thirty-second street, between Park and Madison avenues.

List 4526, No. 6. Fencing vacant lots on the north side of Seventy-first street, between Madison and Park avenues.

List 4527, No. 7. Fencing vacant lots on the northeast corner of Ninetieth street and Second avenue.

List 4528, No. 8. Fencing vacant lots on the south side of One Hundred and Thirty-first street, between Fifth and Lenox avenues.

List 4529, No. 9. Fencing vacant lots on the north side of Eighty-ninth street, between First and Second avenues.

List 4530, No. 10. Fencing vacant lots on south side of Sixty-second street, between Amsterdam and Columbus avenues.

List 4531, No. 11. Fencing vacant lots on the north side of Eighty-third street, from Amsterdam avenue to the Boulevard.

List 4532, No. 12. Fencing vacant lots on the south side of Eightieth street, 200 feet west of Columbus avenue, for a distance of 125 feet.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Forest avenue, from Westchester avenue to One Hundred and Sixty-third street, and to the extent of half the block at the intersecting streets.

No. 2. Both sides of Seventy-sixth street, from the Boulevard to Riverside Drive, on Block 210, Ward Nos. 61 and 62, Block 256, Ward Nos. 38, 39, 45, 46, 48 and 49, and Block 257, Ward Nos. 13 to 17 inclusive.

No. 3. North side of One Hundred and Thirty-sixth street, from Seventh to Eighth avenues, on Block 837, Ward Nos. 1, 4, 5 and 6.

No. 4. Block No. 204, Ward Nos. 1 to 4, inclusive, and 58 to 64, inclusive, and Block 205, Ward Nos. 8 and 9, in the Twenty-second Ward.

No. 5. South side of One Hundred and Thirty-second street, between Madison and Park avenues, on Block 516, Ward Nos. 43 to 46, inclusive.

No. 6. North side of Seventy-first street, between Park and Madison avenues, on Block 456, Ward Nos. 26 to 33, inclusive.

No. 7. Block 206, Ward Nos. 1 to 12, inclusive, and Ward Nos. 51 and 52, in the Twelfth Ward.

No. 8. Block 615, Ward Nos. 49 to 56, inclusive, and 59 to 62, inclusive, in the Twelfth Ward.

No. 9. Block 205, Ward Nos. 9 to 14, inclusive, in the Twelfth Ward.

No. 10. Block 150, Ward Nos. 57 to 60, inclusive, in the Twenty-second Ward.

No. 11. North side of Eighty-third street, Block 218, Ward Nos. 24 to 29, inclusive, in Twenty-second Ward.

No. 12. Block 168, Ward Nos. 44 to 47, inclusive, in Twenty-second Ward.

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 Chairman of the Board of Assessors, at their office, No. 27 Chambers street, 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 23d day of May, 1894.

CHARLES E. WENDT, Chairman, PATRICK M. HAVERTY, EDWARD CAHILL, HENRY A. GUMBLETON, Board of Assessors, OFFICE OF THE BOARD OF ASSESSORS, No. 27 CHAMBERS STREET, NEW YORK, April 23, 1894.

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 4272, No. 1. Alteration and improvement to sewers in Jane and West Twelfth streets, between Thirteenth avenue and Washington street, and in Bethune street, between Thirteenth avenue and West street, and new sewer in Thirteenth avenue, between Bethune and Horatio streets, with outlet through Pier at West Twelfth street, North river.

List 4502, No. 2. Sewer and appurtenances in One Hundred and Fifty-seventh street, from existing manhole in Third avenue to Elton avenue.

List 4509, No. 3. Receiving-basins and appurtenances on the northeast and southeast corners of Webster avenue and One Hundred and Seventy-ninth street.

List 4515, No. 4. Setting curb-stones, flagging the sidewalks, and paving with trap-blocks, and laying crosswalks in One Hundred and Fiftieth street, from Courtlandt to Morris avenue.

List 4533, No. 5. Alteration and improvement to receiving-basins on the northeast and southeast corners of One Hundred and Twenty-sixth street and Seventh avenue.

List 4534, No. 6. Sewer in One Hundred and Thirty-eighth street, between Lenox and Seventh avenues, and in Seventh avenue, east side, between One Hundred and Thirty-eighth and One Hundred and Thirty-ninth streets.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Blocks bounded by Bank and Horatio streets, Greenwich avenue and the North river; also, both sides of Eighth avenue, from Horatio to Thirteenth street; also, both sides of Twelfth and Thirteenth streets, from Greenwich to Sixth avenue; also, both sides of Greenwich avenue, from Bank street to its junction with Eighth avenue, just south of Fourteenth street; also, both sides of Seventh avenue, from Twelfth to Fourteenth street; also, both sides of Sixth avenue, from Thirteenth to Fourteenth street; also, south side of Fourteenth street, extending westerly from Sixth avenue about 400 feet, and also block bounded by Thirteenth and Fourteenth streets, Fifth and Sixth avenues.

No. 2. Both sides of One Hundred and Fifty-seventh street, from Third to Elton avenue.

No. 3. Both sides of One Hundred and Seventy-ninth street, from Vanderbilt avenue, West, to Webster avenue; also, west side of Vanderbilt avenue, West, from One Hundred and Seventy-eighth to One Hundred and Seventy-ninth street; also, east side of Webster avenue, from One Hundred and Seventy-ninth street to Samuel street.

No. 4. Both sides of One Hundred and Fiftieth street, from Courtlandt to Morris avenue, and to the extent of half the block at the intersecting avenues.

No. 5. Both sides of One Hundred and Twenty-sixth street, extending about 515 feet easterly from Seventh avenue; also, east side of Seventh avenue, from One Hundred and Twenty-fifth to One Hundred and Twenty-seventh street; also, south side of One Hundred and Twenty-seventh street, extending about 485 feet easterly from Sixth avenue.

No. 6. Both sides of One Hundred and Thirty-eighth street, from Lenox to Seventh avenue, and east side of Seventh avenue, from One Hundred and Thirty-eighth to One Hundred and Thirty-ninth street.

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 Chairman of the Board of Assessors, at their office, No. 27 Chambers street, 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 19th day of May, 1894.

CHARLES E. WENDT, Chairman, PATRICK M. HAVERTY, EDWARD CAHILL, HENRY A. GUMBLETON, Board of Assessors, OFFICE OF THE BOARD OF ASSESSORS, No. 27 CHAMBERS STREET, NEW YORK, April 19, 1894.

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 4438, No. 1. Paving One Hundred and Fifty-second street, from Courtlandt to Morris avenue, with trap-blocks.

List 4471, No. 2. Extension of sewer outlet under pier at foot of Forty-sixth street, East river.

List 4489, No. 3. Paving One Hundred and Fifty-ninth street, from Third to Elton avenue, with trap-blocks.

The limits embraced by such assessments include 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 Fifty-second street, from Courtlandt to Morris avenue, and to the extent of half the block at the intersecting avenues.

No. 2. Both sides of Forty-sixth street, from Second avenue to the East river, and both sides of First avenue and east side of Second avenue, from Forty-fifth to Forty-sixth street.

No. 3. Both sides of One Hundred and Fifty-ninth street, from Third to Elton avenue, and to the extent of half the block at the intersecting avenues.

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 Chairman of the Board of Assessors, at their office, No. 27 Chambers street, 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 May, 1894.

CHARLES E. WENDT, Chairman, PATRICK M. HAVERTY, EDWARD CAHILL, HENRY A. GUMBLETON, Board of Assessors, OFFICE OF THE BOARD OF ASSESSORS, No. 27 CHAMBERS STREET, NEW YORK, April 16, 1894.

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 4488, No. 1. Paving St. Ann's avenue, between One Hundred and Fifty-sixth street and Third avenue, with granite blocks, and laying crosswalks.

List 4494, No. 2. Paving One Hundred and Seventieth street, from Third to Washington avenues, with granite blocks.

List 4495, No. 3. Paving One Hundred and Thirty-ninth street, from Willis to Brook avenue, with trap blocks.

List 4506, No. 4. Sewer and appurtenances in Eagle avenue, from Westchester avenue to the summit north of Westchester avenue.

List 4510, No. 5. Receiving-basin and appurtenances at the southwest corner of Brook avenue and One Hundred and Thirty-ninth street.

List 4511, No. 6. Receiving-basin and appurtenances on the southeast corner of Alexander avenue and One Hundred and Forty-first street.

List 4512, No. 7. Receiving-basin on the southwest corner of Bergen avenue and One Hundred and Forty-eighth street.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of St. Ann's avenue, from One Hundred and Fifty-sixth street to Third avenue, and to the extent of half the block at the intersecting streets.

No. 2. Both sides of One Hundred and Seventieth street, from Third to Washington avenue, and to the extent of half the block at the intersecting avenues.

No. 3. Both sides of One Hundred and Thirty-ninth street, from Willis to Brook avenue, and to the extent of half the block at the intersecting avenues.

No. 4. Both sides of Eagle avenue, from Westchester avenue to a point distant about 275 feet south of One Hundred and Fifty-sixth street.

No. 5. South side of One Hundred and Thirty-ninth street, extending about 550 feet westerly from Brook avenue.

No. 6. East side of Alexander avenue, extending about 100 feet south of One Hundred and Forty-first street.

No. 7. South side of One Hundred and Forty-eighth street, from Bergen to Willis 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 Chairman of the Board of Assessors, at their office, No. 27 Chambers street, 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 18th day of May, 1894.

CHARLES E. WENDT, Chairman, PATRICK M. HAVERTY, EDWARD CAHILL, HENRY A. GUMBLETON, Board of Assessors, OFFICE OF THE BOARD OF ASSESSORS, No. 27 CHAMBERS STREET, NEW YORK, April 18, 1894.

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 4463, No. 1. Alteration and improvement to sewer in Sixty-third street, between Park and Madison avenues.

List 4486, No. 2. Regulating and grading, curbing and flagging One Hundred and Forty-eighth street, from Boulevard to Twelfth avenue.

List 4501, No. 3. Sewers and appurtenances in One Hundred and Thirty-second and One Hundred and Thirty-third streets, between Willow avenue and New York, New Haven and Hartford Railroad.

List 4518, No. 4. Sewer and appurtenances in One Hundred and Fifty-sixth street, from existing sewer in Railroad avenue, East, to summit east.

List 4519, No. 5. Sewer and appurtenances in One Hundred and Fifty-sixth street, from existing sewer in Courtlandt avenue to summit west.

List 4520, No. 6. Sewer and appurtenances in Eagle avenue, between One Hundred and Forty-ninth street and Westchester avenue.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Blocks bounded by Park and Fifth avenues, Sixty-third and Sixty-fourth streets, including south side of Sixty-third street, between Park and Fifth avenues.

No. 2. Both sides of One Hundred and Forty-eighth street, from the Boulevard to the Hudson River Railroad, and to the extent of half the block at the intersection of the Boulevard.

No. 3. Both sides of One Hundred and Thirty-second street, extending easterly from Willow avenue about 185 feet; also both sides of One Hundred and Thirty-third street, extending easterly from Willow avenue about 265 feet.

No. 4. Both sides of One Hundred and Fifty-sixth street, extending easterly from Railroad avenue, East, about 375 feet.

No. 5. Both sides of One Hundred and Fifty-sixth street, extending westerly from Courtlandt avenue about 424 feet.

No. 6. Both sides of Eagle avenue, from One Hundred and Forty-ninth street to Westchester 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 Chairman of the Board of Assessors, at their office, No. 27 Chambers street, 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 17th day of May, 1894.

CHARLES E. WENDT, Chairman, PATRICK M. HAVERTY, EDWARD CAHILL, HENRY A. GUMBLETON, Board of Assessors, OFFICE OF THE BOARD OF ASSESSORS, No. 27 CHAMBERS STREET, NEW YORK, April 17, 1894.

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 4438, No. 1. Paving One Hundred and Fifty-second street, from Courtlandt to Morris avenue, with trap-blocks.

List 4471, No. 2. Extension of sewer outlet under pier at foot of Forty-sixth street, East river.

List 4489, No. 3. Paving One Hundred and Fifty-ninth street, from Third to Elton avenue, with trap-blocks.

The limits embraced by such assessments include 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 Fifty-second street, from Courtlandt to Morris avenue, and to the extent of half the block at the intersecting avenues.

No. 2. Both sides of Forty-sixth street, from Second avenue to the East river, and both sides of First avenue and east side of Second avenue, from Forty-fifth to Forty-sixth street.

No. 3. Both sides of One Hundred and Fifty-ninth street, from Third to Elton avenue, and to the extent of half the block at the intersecting avenues.

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 Chairman of the Board of Assessors, at their office, No. 27 Chambers street, 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 May, 1894.

CHARLES E. WENDT, Chairman, PATRICK M. HAVERTY, EDWARD CAHILL, HENRY A. GUMBLETON, Board of Assessors, OFFICE OF THE BOARD OF ASSESSORS, No. 27 CHAMBERS STREET, NEW YORK, April 16, 1894.

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 4383, No. 1. Paving Washington street, from Battery place to Chambers street, with granite-blocks, and laying crosswalks, so far as the same is within the limits of grants of land under water.

List 4387, No. 2. Paving One Hundred and Thirty-seventh street, from Lenox to Seventh avenue, with granite-blocks, and laying crosswalks.

List 4449, No. 3. Paving One Hundred and Forty-sixth street, from Amsterdam avenue to the Boulevard, with granite blocks, and laying crosswalks.

List 4466, No. 4. Sewer in Madison avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets, and in One Hundred and Thirty-seventh street, between Madison and Fifth avenues.

List 4479, No. 5. Laying crosswalks across Avenue St. Nicholas, at the north and south sides of One Hundred and Twentieth street.

List 4481, No. 6. Paving One Hundred and Eighth street, from Ninth to Tenth avenue, with granite blocks.

List 4482, No. 7. Paving One Hundred and Forty-eighth street, from Amsterdam avenue to the Boulevard, with granite-blocks, and laying crosswalks.

List 4483, No. 8. Paving West Eleventh street, from West street to the bulkhead-line of the Hudson river, with granite-blocks, and laying crosswalks, so far as the same is within the limits of grants of land under water.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Washington street, from Vesey street to Chambers street, and to the extent of half the block at the intersecting streets; also to the extent of half the block from the southerly intersection of Albany and Washington streets.

No. 2. Both sides of One Hundred and Thirty-seventh street, from Lenox to Seventh avenue, and to the extent of half the block at intersecting avenues.

No. 3. Both sides of One Hundred and Forty-sixth street, from Amsterdam avenue to the Boulevard, and to the extent of half the block at intersecting avenues.

List 4487, No. 2. Paving One Hundred and Thirty-seventh street, from Lenox to Seventh avenue, with granite-blocks, and laying crosswalks.

List 4449, No. 3. Paving One Hundred and Forty-sixth street, from Amsterdam avenue to the Boulevard, with granite blocks, and laying crosswalks.

List 4466, No. 4. Sewer in Madison avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets, and in One Hundred and Thirty-seventh street, between Madison and Fifth avenues.

List 4479, No. 5. Laying crosswalks across Avenue St. Nicholas, at the north and south sides of One Hundred and Twentieth street.

List 4481, No. 6. Paving One Hundred and Eighth street, from Ninth to Tenth avenue, with granite blocks.

List 4482, No. 7. Paving One Hundred and Forty-eighth street, from Amsterdam avenue to the Boulevard, with granite-blocks, and laying crosswalks.

List 4483, No. 8. Paving West Eleventh street, from West street to the bulkhead-line of the Hudson river, with granite-blocks, and laying crosswalks, so far as the same is within the limits of grants of land under water.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of Washington street, from Vesey street to Chambers street, and to the extent of half the block at the intersecting streets; also to the extent of half the block from the southerly intersection of Albany and Washington streets.

No. 2. Both sides of One Hundred and Thirty-seventh street, from Lenox to Seventh avenue, and to the extent of half the block at intersecting avenues.

No. 3. Both sides of One Hundred and Forty-sixth street, from Amsterdam avenue to the Boulevard, and to the extent of half the block at intersecting avenues.

No. 4. Both sides of Madison avenue, from One Hundred and Thirty-sixth to One Hundred and Thirty-seventh street, and both sides of One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets, from Madison to Fifth avenue.

No. 5. To the extent of half the block from the northerly and southerly intersections of One Hundred and Twentieth street and Avenue St. Nicholas.

No. 6. Both sides of One Hundred and Eighth street, from Columbus to Amsterdam avenue, and to the extent of half the block at the intersecting avenues.

No. 7. Both sides of One Hundred and Forty-eighth street, from Amsterdam avenue to the Boulevard, and to the extent of half the block at intersecting avenues.

No. 8. North side of West Eleventh street, from West street to the Hudson river, and both sides of Thirteenth avenue, extending about 100 feet north of West Eleventh street, including the pier at foot of said street.

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 Chairman of the Board of Assessors, at their office, No. 27 Chambers street, 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 14th day of May, 1894.

CHARLES E. WENDT, Chairman, PATRICK M. HAVERTY, EDWARD CAHILL, HENRY A. GUMBLETON, Board of Assessors, OFFICE OF THE BOARD OF ASSESSORS, No. 27 CHAMBERS STREET, NEW YORK, April 14, 1894.

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.:

third street, from Amsterdam avenue to the Boulevard, with asphalt.

List 4400, No. 3. Paving One Hundred and Forty-third street, from Convent to Amsterdam avenue, with asphalt.

List 4494, No. 4. Paving Manhattan avenue, from One Hundred and Third to One Hundred and Fifth street, with asphalt.

List 4426, No. 5. Alteration and improvement to sewer in North William street, between Frankfort street and Park Row.

List 4448, No. 6. Paving One Hundred and Thirty-sixth street, from Fifth to Seventh avenue, with granite-blocks and laying crosswalks.

List 4323, No. 7. Paving Thirty-fourth street, from Eleventh avenue to the Hudson river, with granite-blocks, and laying crosswalks, so far as the same is within the limits of grants of land under water.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of West End avenue, commencing about 100 feet 11 inches south of One Hundred and Fifth street to One Hundred and Seventh street, and to the extent of half the block at the intersecting streets.

No. 2. Both sides of One Hundred and Fifty-third street, from Amsterdam avenue to the Boulevard, and to the extent of half the block, at the intersecting avenues.

No. 3. Both sides of One Hundred and Forty-third street, from Convent avenue to Amsterdam avenue, and to the extent of half the block, at the intersecting avenues.

No. 4. Both sides of Manhattan avenue, from One Hundred and Third to One Hundred and Fifth streets, and to the extent of half the block at the intersecting streets.

No. 5. Both sides of North William street, from Frankfort street to Park Row, and both sides of William street, from Frankfort street to Duane street.

No. 6. Both sides of One Hundred and Thirty-sixth street, from Fifth to Seventh avenue, and to the extent of half the block at the intersecting avenues.

No. 7. Both sides of Thirty-fourth street, from Eleventh avenue to the end of the Pier at foot of Thirty-fourth street and North river, and to the extent of half the block at the intersection of Twelfth 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 Chairman of the Board of Assessors, at their office, No. 27 Chambers street, 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 May, 1894.

CHARLES E. WENDT, Chairman, PATRICK M. HAVERTY, EDWARD CAHILL, HENRY A. GUMBLETON, Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS, No. 27 CHAMBERS STREET, NEW YORK, April 12, 1894.

AQUEDUCT COMMISSION.

AQUEDUCT COMMISSIONERS' OFFICE, ROOM 209, STEWART BUILDING, No. 280 BROADWAY, NEW YORK, April 14, 1894.

PUBLIC NOTICE.

TO ALL WHOM IT MAY CONCERN.

IN CONFORMITY WITH THE REQUIREMENTS of section 2, chapter 490, Laws of 1882, of the State of New York, public notice is hereby given to all persons interested that full opportunity will be afforded them to be heard in relation to the plan for the construction of a storage and distributing reservoir in the Twenty-fourth Ward of the City of New York, as shown upon the map now on file in this office.

Said public hearing to be at the office of the Aqueduct Commissioners, Room 209, Stewart Building, No. 280 Broadway, New York, on Wednesday, April 25, 1894, at 2 o'clock, P. M., and upon subsequent dates thereafter to which said hearing may be adjourned until finally concluded.

By order of the Aqueduct Commissioners, JAMES C. DUANE, President, EDWARD L. ALLEN, Secretary.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION, No. 66 THIRD AVENUE, NEW YORK, April 20, 1894.

THE UNDERSIGNED WILL SELL AT PUBLIC Auction, by order of the Commissioners of Public Charities and Correction, at their office, No. 66 Third avenue, on Wednesday, May 2, 1894, at 11 o'clock A. M., the following, viz.:

OLD IRON. 60,000 pounds, more or less, Old Iron "as are" to be removed from Storehouse Pier, Blackwell's Island, by the purchaser, in one lot, by lighter to be furnished by him, and as soon as he is notified that the iron is ready for delivery.

50,000 pounds, more or less, Mixed Rags. 12,000 pounds, more or less, Grease. 75 Iron Bound Barrels, more or less.

All the above (except the iron) to be received by the purchaser at pier foot of East Twenty-sixth street, "as are" and removed therefrom immediately on being notified that same are ready for delivery. The articles can be examined at Blackwell's Island by intending bidders on any week day before the sale.

Twenty-five per cent. of estimated value to be paid on day of sale, and the remainder on delivery.

F. A. CUSHMAN, Purchasing Agent, Department of Public Charities and Correction.

DEPARTMENT OF DOCKS.

NOTICE.

MESSEURS VAN TASSELL AND KEARNEY Auctioneers, will sell to the highest bidder, at public auction, at Pier "A," Battery place, New York City, on Friday, April 27, 1894, at 12 o'clock noon, the right to collect and retain all wharfage which may accrue for the use and occupation by vessels of more than five tons burden, at the following-named piers and bulkheads.

FOR A TERM OF FIVE YEARS FROM MAY 1, 1894.

On the North River.

Lot 1. Northerly half of bulkhead, between Piers, new 23 and 24.

Lot 2. Bulkhead northerly of Pier, new 25, about 32 feet.

Lot 3. Northerly half of bulkhead, between Piers, new 45 and 46.

Lot 4. Bulkhead between West One Hundred and Twenty-ninth and West One Hundred and Thirtieth streets.

Lot 5. Northerly side and end of pier at foot of West One Hundred and Thirty-first street.

Lot 6. Bulkhead between West One Hundred and Thirty-second and West One Hundred and Thirty-third streets.

Lot 7. Pier at foot of West One Hundred and Thirty-fourth street, except reservation for public bath during summer season.

Lot 8. Bulkhead at foot of southerly half of West One Hundred and Thirty-fifth street.

Lot 9. Pier at foot of West One Hundred and Thirty-eighth street.

On the East River.

Lot 10. Bulkhead at foot of Cherry street.

Lot 11. Bulkhead at foot of East Fifteenth street.

Lot 12. Bulkhead at foot of East Thirtieth street.

Lot 13. Pier at foot of East Ninety-fifth street.

Lot 14. Bulkhead northerly of pier foot of East Ninety-sixth street, about 140 feet.

On the Harlem River.

Lot 15. Bulkhead southerly of East One Hundred and Third street, about 85 feet.

Lot 16. Bulkhead between East One Hundred and Third and East One Hundred and Fourth streets.

Lot 17. Bulkhead platform foot of East One Hundred and Sixth street.

Lot 18. Bulkhead at foot of East One Hundred and Seventh street.

Lot 19. Bulkhead at foot of East One Hundred and Eleventh street.

J. SERGEANT CRAM, JAMES J. PHELAN, ANDREW J. WHITE, Commissioners of the Department of Docks.

Dated New York, April 16, 1894.

CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS.

NEW YORK CITY CIVIL SERVICE BOARDS, NEW CRIMINAL COURT BUILDING, NEW YORK, April 16, 1894.

PUBLIC NOTICE IS HEREBY GIVEN THAT open competitive examinations, for the positions below mentioned, will be held at this office on the dates specified:

April 23. MECHANICAL STEAM ENGINEER. April 24. STEAM ROLLER ENGINEER. LEE PHILLIPS, Secretary and Executive Officer.

FIRE DEPARTMENT.

HEADQUARTERS FIRE DEPARTMENT, NOS. 157 AND 159 EAST SIXTY-SEVENTH STREET, NEW YORK, April 12, 1894.

TO CONTRACTORS.

SEALED PROPOSALS FOR REGULATING and paving with vitrified brick, the drill yard in rear of 157 and 159 East Sixty-seventh street, will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 159 East Sixty-seventh street, in the City of New York, until 10 o'clock A. M., Wednesday, April 25, 1894, at which time and place they will be publicly opened by the head of said Department and read.

No estimate will be received or considered after the hour named.

For information as to the amount and kind of work to be done, bidders are referred to the specifications, which form part of these proposals.

The form of the agreement (showing the manner of payment for the work), with specifications, may be seen, and forms of proposals may be obtained at the office of the Department.

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

The work is to be completed and delivered as provided in the contract.

The damages to be paid by the contractor for each day that the contract may be unfulfilled after the time specified for the completion thereof shall have expired are fixed and liquidated at ten (10) dollars.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall present the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which they relate, specifying the kind of cables it is proposed to furnish.

The Fire Department reserves the right to decline any and all bids or estimates or any part thereof, if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as sureties for its faithful performance, in the sum of one thousand (1,000) dollars; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above his liabilities as bail, surety or otherwise; and that he has offered himself as surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.

No estimate will be considered unless accompanied by either a certified check upon one of the banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five hundred (500) dollars. Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

JOHN J. SCANNELL, ANTHONY EICKHOFF, S. HOWLAND ROBBINS, Commissioners.

HEADQUARTERS FIRE DEPARTMENT, NOS. 157 AND 159 EAST SIXTY-SEVENTH STREET, NEW YORK, April 12, 1894.

TO CONTRACTORS.

SEALED PROPOSALS FOR PLACING FIRE-Alarm Electrical Conductors Underground will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 159 East Sixty-seventh street, in the City of New York, until 10 o'clock A. M., Wednesday, April 25, 1894, at which time and place they will be publicly opened by the head of said Department and read.

No estimate will be received or considered after the hour named.

For information as to the amount and kind of work to be done, bidders are referred to the specifications, which form part of these proposals.

The form of the agreement (showing the manner of payment for the work), with specifications, may be seen, and forms of proposals may be obtained at the office of the Department.

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

The work is to be completed and delivered as provided in the contract.

The damages to be paid by the contractor for each day that the contract may be unfulfilled after the time specified for the completion thereof shall have expired are fixed and liquidated at twenty (20) dollars.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall present the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which they relate, specifying the kind of cables it is proposed to furnish.

The Fire Department reserves the right to decline any and all bids or estimates, or any part thereof, if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as sureties for its faithful performance, in the sum of ten thousand (10,000) dollars; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above his liabilities as bail, surety or otherwise; and that he has offered himself as surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.

No estimate will be considered unless accompanied by either a certified check upon one of the banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five hundred (500) dollars. Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

JOHN J. SCANNELL, ANTHONY EICKHOFF, S. HOWLAND ROBBINS, Commissioners.

HEADQUARTERS FIRE DEPARTMENT, NOS. 157 AND 159 EAST SIXTY-SEVENTH STREET, NEW YORK, April 12, 1894.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING 5,000 tons egg coal, 750 tons stove coal, 1,500 tons nut coal. will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 159 East Sixty-seventh street, in the City of New York, until 10 o'clock A. M., Wednesday, April 25, 1894, at which time and place they will be publicly opened by the head of said Department and read.

The anthracite coal is to be of the best quality of Pittston, Scranton or Lackawanna, all to weigh 5,000 pounds to the ton, and be screened and free from slate.

No estimate will be received or considered after the hour named.

For information as to the amount and kind of work to be done, bidders are referred to the specifications, which form part of these proposals.

The form of the agreement (showing the manner of payment for the work), with specifications, may be seen, and forms of proposals may be obtained at the office of the Department.

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

The work is to be completed and delivered as provided in the contract.

The damages to be paid by the contractor for each day that the contract may be unfulfilled after the time specified for the completion thereof shall have expired are fixed and liquidated at ten (10) dollars.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall present the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which they relate, specifying the kind of cables it is proposed to furnish.

The Fire Department reserves the right to decline any and all bids or estimates or any part thereof, if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as sureties for its faithful performance, in the sum of ten thousand (10,000) dollars; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above his liabilities as bail, surety or otherwise; and that he has offered himself as surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.

No estimate will be considered unless accompanied by either a certified check upon one of the banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five hundred (500) dollars. Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

JOHN J. SCANNELL, ANTHONY EICKHOFF, S. HOWLAND ROBBINS, Commissioners.

HEADQUARTERS FIRE DEPARTMENT, NOS. 157 AND 159 EAST SIXTY-SEVENTH STREET, NEW YORK, April 12, 1894.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING 5,000 tons egg coal, 750 tons stove coal, 1,500 tons nut coal. will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 159 East Sixty-seventh street, in the City of New York, until 10 o'clock A. M., Wednesday, April 25, 1894, at which time and place they will be publicly opened by the head of said Department and read.

The anthracite coal is to be of the best quality of Pittston, Scranton or Lackawanna, all to weigh 5,000 pounds to the ton, and be screened and free from slate.

All of the coal is to be delivered at the various houses, etc., of the Department, in such quantities and at such times as may be from time to time directed, and the same is to be weighed in the presence of an Inspector designated for that purpose by the Department, upon scales furnished by the Department, which are to be transported from place to place by the contractor.

No estimate will be received or considered after the hour named.

The form of the agreement (with specifications), showing the manner of payment for the work, may be seen and forms of proposals may be obtained at the office of the Department.

Bidders will write out the amount of their estimates in addition to inserting the same in figures.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall present the same in a sealed envelope to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation and a statement of the supply to which it relates.

The Fire Department reserves the right to decline any and all bids or estimates, if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as sureties for its faithful performance in the sum of thirteen thousand (13,000) dollars; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above his liabilities of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.

No estimate will be considered unless accompanied by either a certified check upon one of the banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of six hundred and fifty (650) dollars. Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

JOHN J. SCANNELL, ANTHONY EICKHOFF, S. HOWLAND ROBBINS, Commissioners.

FINANCE DEPARTMENT.

PROPOSALS FOR \$1,370,421 CONSOLIDATED STOCK OF THE CITY OF NEW YORK.

EXECUTORS, ADMINISTRATORS, GUARDIANS AND OTHERS HOLDING TRUST FUNDS ARE AUTHORIZED BY LAW TO INVEST IN THESE BONDS.

INTEREST THREE AND ONE-HALF PER CENT. PER ANNUM.

SEALED PROPOSALS WILL BE RECEIVED by the Comptroller of the City of New York, at his office, until Friday, the 27th day of April, 1894, at 2 o'clock P. M., when they will be publicly opened in the presence of the Commissioners of the Sinking Fund, or such of them as shall attend, as provided by law, for the whole or a part of an issue of \$1,370,421 of registered

CONSOLIDATED STOCK OF THE CITY OF NEW YORK,

CONDITIONS.

Section 146 of the 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 provided 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 the 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 "Consolidated Stock" of the Corporation 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.

ASHBEL P. FITCH, Comptroller. CITY OF NEW YORK—FINANCE DEPARTMENT, COMPTROLLER'S OFFICE, April 16, 1894.

NOTICE OF ASSESSMENT FOR OPENING STREETS AND AVENUES.

IN PURSUANCE OF SECTION 916 OF THE "New York City Consolidation Act of 1882," as amended, the Comptroller of the City of New York hereby gives public notice of the confirmation by the Supreme Court of the assessments for opening and acquiring title to the following streets, to wit:

TWELFTH WARD.

ONE HUNDRED AND THIRTY-EIGHTH STREET, from Amsterdam to Convent avenue. Confirmed March 30, 1894. Assessments on Blocks 7064 and 1065.

ONE HUNDRED AND FIFTY-SECOND STREET, between Bradhurst avenue and bulkhead-line at Harlem river. Confirmed April 2, 1894. Assessment on Blocks 738, 739, 852, 853, 963 and 964.

The above-entitled assessments were entered on the 5th day of April, 1894, in the Record of Titles of Assessments kept in the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents." Unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon as provided in section 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," Room 31, Stewart Building, between the hours of 9 A. M. and 2 P. M., and all payments made thereon on or before June 5, 1894, will be exempt from interest as above provided, and after that date will be charged interest at the rate of seven per cent. per annum from the above date of entry of the assessments in the Record of Titles of Assessments in said Bureau to the date of payment.

ASHBEL P. FITCH, Comptroller. CITY OF NEW YORK—FINANCE DEPARTMENT, COMPTROLLER'S OFFICE, April 10, 1894.

NOTICE OF ASSESSMENT FOR OPENING STREETS AND AVENUES.

IN PURSUANCE OF SECTION 916 OF THE "New York City Consolidation Act of 1882," as amended, the Comptroller of the City of New York hereby gives public notice of the confirmation by the Supreme Court of the assessments for opening and acquiring title to the following streets, to wit:

TWELFTH WARD.

ONE HUNDRED AND FIFTY-FIRST STREET, between Bradhurst avenue and Bulkhead line, Harlem river; confirmed March 28, 1894. Assessment on Blocks 737, 738, 851, 852, 962 and 963.

TWENTY-FOURTH WARD.

ONE HUNDRED AND SEVENTY-NINTH STREET, between Tiebout and Third avenues; confirmed February 20, 1894. Assessment on Blocks 1109 to 1115, 1119 and 1120.

The above-entitled assessments were entered on the 3d day of April, 1894, 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," Room 31, Stewart Building, between the hours of 9 A. M. and 2 P. M., and all payments made thereon on or before June 4, 1894, will be exempt from interest as above provided, and after that date will be charged interest at the rate of seven per cent. per annum from the above date of entry of the assessments in the Record of Titles of Assessments in said Bureau to the date of payment.

The above assessments are payable to the Collector of Assessments and Clerk of Arrears at the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," Room 31, Stewart Building, between the hours of 9 A. M. and 2 P. M., and all payments made thereon on or before June 4, 1894, will be exempt from interest as above provided, and after that date will be charged interest at the rate of seven per cent. per annum from the above date of entry of the assessments in the Record of Titles of Assessments in said Bureau to the date of payment.

ASHBEL P. FITCH, Comptroller. CITY OF NEW YORK—FINANCE DEPARTMENT, COMPTROLLER'S OFFICE, April 10, 1894.

INTEREST ON CITY BONDS AND STOCKS.

THE INTEREST DUE MAY 1, 1894, ON THE Registered Bonds and Stocks of the City and County of New York will be paid on that day by the Comptroller at the office of the City Chamberlain, Room 27, Stewart Building, corner of Broadway and Chambers street.

The Transfer Books will be closed from March 31 to May 1, 1894.

The interest due May 1, 1894, on the Coupon Bonds and Stocks of the City of New York will be paid on that day by the State Trust Company, No. 36 Wall street.

ASHBEL P. FITCH, Comptroller. CITY OF NEW YORK—FINANCE DEPARTMENT, COMPTROLLER'S OFFICE, March 20, 1894.

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS, COMMISSIONER'S OFFICE, No. 31 CHAMBERS STREET, NEW YORK, April 18, 1894.

NOTICE OF SALE AT PUBLIC AUCTION.

ON MONDAY, MAY 7, 1894, at 10.30 A. M., the Department of Public Works will sell at Public Auction, by Peter F. Meyer, Auctioneer, under the direction of the Superintendent of Incumbrances, at the Corporation Yards, One Hundred and Nineteenth street and St. Nicholas avenue, Fifty-sixth street, between Eleventh and Twelfth avenues, and foot of Livingston street; sale to commence at the One Hundred and Nineteenth Street Yard, the following articles, viz: TRUCKS, WAGONS, STANDS, BOOTHS, FURNITURE, ROOF-BLACK STANDS, IRON SAFE, ELECTRIC WIRE, ETC., ETC.

Cash payments in bankable funds at the time and place of sale, and the immediate removal by the purchaser of the articles purchased, otherwise the purchaser will forfeit the same, together with all moneys paid therefor, and the Department will proceed to resell the same.

MICHAEL T. DALY, Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS, COMMISSIONER'S OFFICE, ROOM 6, No. 31 CHAMBERS STREET, NEW YORK, April 18, 1894.

TO CONTRACTORS.

BIDS OR ESTIMATES, INCLOSED IN A sealed envelope, with the title of the work and the name of the bidder indorsed thereon, also the number of the work as in the advertisement, will be received at this office until 12 o'clock P. M., on Tuesday, May 1, 1894, at which place and hour they will be publicly opened by the head of the Department.

No. 1. FOR FLAGGING EIGHT FEET WIDE THE SIDEWALKS ON THIRTIETH STREET, from Eleventh to Twelfth avenue.

No. 2. FOR REREGULATING AND GRADING THE SIDEWALKS ON SEVENTY-EIGHTH STREET from Avenue A to East River, and SETTING AND RESETTING CURB-STONES AND FLAGGING AND REFLAGGING SIDEWALKS THEREIN.

No. 3. FOR FLAGGING EIGHT FEET WIDE AND REREGULATING, CURBING AND RECURBING THE SIDEWALKS ON ONE HUNDRED AND THIRTY-FIFTH STREET, between Fifth and Seventh avenues.

No. 4. FOR REGULATING AND GRADING ONE HUNDRED AND FORTY-FOURTH STREET, from Seventh avenue to East River, and SETTING CURB-STONES AND FLAGGING SIDEWALKS THEREIN.

No. 5. FOR REGULATING AND GRADING ONE HUNDRED AND FIFTIETH STREET, from Bradhurst avenue to Harlem river, and SETTING CURB-STONES AND FLAGGING SIDEWALKS THEREIN.

No. 6. FOR ALTERATION AND IMPROVEMENT TO SEWER IN STANTON STREET, between old bulkhead-line and first manhole west of west house-line of Mangin street, connecting existing sewers at Mangin street and curve for Tompkins street.

No. 7. FOR SEWER IN NINETIETH STREET, between Harlem river and Avenue A.

Each estimate must contain the name and place of residence of the person making the same, the names of all persons interested with him therein, and if no other person be so interested, it shall distinctly state that fact. That it is made without any connection with any other person making an estimate for the same work, and is in all respects fair and without collusion or fraud. That no member of the Common Council, head of a department, chief of a bureau, deputy thereof, or clerk therein, or other officer of the Corporation, is directly or indirectly interested in the estimate, or in the work to which it relates or in the profits thereon.

Each estimate must be verified by the oath, in writing, of the party making the same, that the several matters therein stated are true, and must be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, to the effect that if the contract is awarded to the person making the estimate, they will, upon its being so awarded, become bound as his sureties for its faithful performance; and that if he shall refuse or neglect to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled upon its completion and that which the Corporation may be obliged to pay to the person to whom the contract shall be awarded at any subsequent letting; the amount to be calculated upon the estimated amount of the work by which the bids are tested.

The consent last above mentioned must be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety, or otherwise, and that he has offered himself as surety in good faith, with the intention to execute the bond required by law.

No estimate will be considered unless accompanied by either a certified check upon one of the State or National banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of the deposit will be returned to him.

THE COMMISSIONER OF PUBLIC WORKS RESERVES THE RIGHT TO REJECT ALL BIDS RECEIVED FOR ANY PARTICULAR WORK IF HE DEEMS IT FOR THE BEST INTERESTS OF THE CITY.

Blank forms of bid or estimate, the proper envelopes in which to inclose the same, the specifications and agreements, and any further information desired, can be obtained at Rooms 5 and 9, No. 31 Chambers street.

MICHAEL T. DALY, Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS, COMMISSIONER'S OFFICE, No. 31 CHAMBERS STREET, NEW YORK, April 11, 1894.

NOTICE OF SALE AT PUBLIC AUCTION.

ON MONDAY, APRIL 23, 1894, AT 10.30 A. M., the Department of Public Works will sell at Public Auction, by Peter F. Meyer, Auctioneer, under the supervision of the Superintendent of Repairs and Supplies, at the office of the Civil Service Boards, Room No. 30, Cooper Institute, the following:

White pine paneled glass partitions, of the following dimensions: No. 1. 16 1/2 feet long and 13 feet high. No. 2. 16 1/2 feet long and 8 feet high. No. 3. 17 1/2 feet long and 8 feet high. No. 4. has two doors and pivoted upper sash, glazed with ground glass. No. 5. has one door and a standing desk with cash opening, glazed with clear glass. No. 6. has one door and is glazed with ground glass. No. 7. has one door and is glazed with clear white pine, and are painted, grained and varnished.

TERMS OF SALE. Cash payments in bankable funds at the time and place of sale, and the removal by the purchaser of the articles bought within 48 hours, otherwise the purchaser will forfeit the articles, together with all moneys paid therefor, and the Department will proceed to resell the partition.

MICHAEL T. DALY, Commissioner of Public Works.

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

TO OWNERS OF LANDS ORIGINALLY ACQUIRED BY WATER GRANTS

ATTENTION IS CALLED TO THE RECENT act of the Legislature (chapter 449, Laws of 1889), which provides that whenever any streets or avenues in the city, described in any grant of land under water, from the Mayor, Aldermen and Commonalty containing covenants requiring the grantees and their successors to pave, repave, keep in repair or maintain such streets shall be in need of repairs, pavement or repavement, the Common Council may, by ordinance, require the same to be paved, repaved or repaired, and the expense thereof to be assessed on the property benefited; and whenever the owner of a lot so assessed shall have paid the assessment levied for such paving, repaving or repairing, such payment shall release and discharge such owner from any and every covenant and obligation as to paving, repaving and repairing, contained in the water grant under which the premises are held, and no further assessment shall be imposed on such lot for paving, repaving or repairing such street or avenue, unless it shall be petitioned for by a majority of the owners of the property (who shall also be the owners of a majority of the property in frontage) on the line of the proposed improvement.

The act further provides that the owner of any such lot may notify the Commissioner of Public Works, in writing, specifying the ward number and street number of the lot that he desires, for himself, his heirs and assigns, to be released from the obligation of such covenants, and elects and agrees that said lot shall be thereafter liable to be assessed as above provided, and thereupon the owner of such lot, his heirs and assigns shall thenceforth be relieved from any obligation to pave, repair, uphold or maintain said street, and the lot in respect of which such notice was given shall be liable to assessment accordingly.

The Commissioner of Public Works desires to give the following explanation of the operation of this act: When notice, as above described, is given to the Commissioner of Public Works, the owner of the lot or lots therein described, and his heirs and assigns, are forever released from all obligation under the grant in respect to paving, repaving or repairing the street in front of or adjacent to said lot or lots, except one assessment for such paving, repaving or repairs, as the Common Council may, by ordinance, direct to be made thereafter.

No street or avenue within the limits of such grants can be paved, repaved or repaired until said work is authorized by ordinance of the Common Council, and when the owners of such lots desire their streets to be paved, repaved or repaired, they should state their desire and make their application to the Board of Aldermen and not to the Commissioner of Public Works, who has no authority in the matter until directed by ordinance of the Common Council to proceed with the pavement, repavement or repairs.

MICHAEL T. DALY, Commissioner of Public Works.

THE NORMAL COLLEGE OF THE CITY OF NEW YORK.

SEALED PROPOSALS WILL BE RECEIVED BY the Executive Committee for the care, etc., of the Normal College, until 1 o'clock P. M., on Friday, May 1, 1894, at the Hall of the Board of Education, No. 146 Grand street, for supplying the Normal College and Training Department of the Normal College, located East Sixty-eighth and Sixty-ninth streets, Lexington and Park avenues, with 500 tons, more or less, of Egg Coal; 20 tons, more or less, of Stove Coal; 15 tons, more or less, of Nut Coal, mixed, and 5 tons, more or less, of Nut Coal, all to be Plymouth Red Ash Coal, 2,240 pounds to the ton, and to be stored in bins at the expense of the contractor.

The Executive Committee reserve the right to reject any or all proposals submitted. The party submitting a proposal, and the parties proposing to become sureties, must each write his name and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required. RANDOLPH GUGGENHEIMER, Chairman Executive Committee. ARTHUR McMULLIN, Secretary. Dated New York, April 21, 1894.

DEPARTMENT OF TAXES AND ASSESSMENTS

DEPARTMENT OF TAXES AND ASSESSMENTS, STEWART BUILDING, NEW YORK, January 8, 1894.

IN COMPLIANCE WITH SECTION 817 OF THE New York 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 1894, are open and will remain open for examination and correction until the thirtieth day of April, 1894.

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., except on Saturdays, between 10 A. M. and 12 M., at this office, during the same period.

EDWARD P. BARKER, JOHN WHALEN, JOSEPH BLUMENTHAL, Commissioners of Taxes and Assessments.

SUPREME COURT.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to CAULDWELL AVENUE (although not yet named by proper authority), extending from the Boston road to East One Hundred and Sixty-third street, and from Clifton street to Westchester avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

NOTICE IS HEREBY GIVEN THAT THE BILL of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof, in the County Court-house in the City of New York, on the 4th day of May, 1894, at 10.30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Department of Public Works, there to remain for and during the space of ten days.

Dated New York, April 20, 1894. EDWARD JACOBS, CHARLES D. BURRILL, ELSWORTH L. STRIKER, Commissioners.

JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to HAWTHORNE STREET (although not yet named by proper authority), between the lines of Seaman avenue and Tenth avenue, in the Twelfth Ward of the City of New York.

NOTICE IS HEREBY GIVEN THAT THE BILL of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof, in the County Court-house in the City of New York, on the 1st day of May, 1894, at 10.30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Department of Public Works, there to remain for and during the space of ten days.

Dated New York, April 20, 1894. JOHN CONNELLY, WILLIAM P. TOLER, ISAAC FROMME, Commissioners.

JOHN P. DUNN, Clerk.

In the matter of the application of the Counsel to the Corporation, for and in behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to the estimate of the loss and damage, and to the assessment of the benefit and advantage resulting from the closing of the KINGSBRIDGE ROAD, between One Hundred and Thirty-seventh and One Hundred and Forty-ninth streets (except where said road has been retained, or title thereto has been legally acquired, for street purposes), in the Twelfth Ward of the City of New York.

NOTICE IS HEREBY GIVEN THAT WE, THE undersigned, were appointed by an order of the Supreme Court, bearing date the 22d day of March, 1894, Commissioners of Estimate and Assessment, for the purpose of ascertaining and determining the compensation which should justly be made to the respective owners, lessees, parties and persons respectively entitled unto or interested in the lands, tenements, hereditaments and premises, or rights or interests therein taken, affected or damaged by the closing of said Kingsbridge road, between One Hundred and Thirty-seventh street and One Hundred and Forty-ninth as shown and delineated on a certain map, dated December 29, 1893, and signed "Jos. O. B. Webster, Assistant Engineer, D. P. W.," and attached to the petition of the Counsel to the Corporation, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter, which said petition is now on file in the office of the Clerk of the City and County of New York; and also for the purpose of determining the benefit and advantage to the lands, tenements, hereditaments and premises benefited by the closing of the said Kingsbridge road, between One Hundred and Thirty-seventh and One Hundred and Forty-ninth streets, and of performing the trusts and duties required of us by chapter 129 of the Laws of 1892, passed March 15, 1892.

All parties and persons entitled unto or interested in the lands, tenements, hereditaments and premises, or rights or interests affected or damaged by the closing of the said street, avenue or road, and having any claim or demand on account thereof, are hereby required to present the same, duly verified, to us, the undersigned Commissioners of Estimate and Assessment, at our office, No. 2 Tryon Row, in the City of New York (Room No. 1), with such affidavits or other proofs as the said owners or claimants may desire, within twenty days after the date of this notice (April 29, 1894); and we, the said Commissioners, will be in attendance at our said office, on the 9th day of May, 1894, at 2 o'clock in the afternoon of that day, to hear the said parties and persons in relation thereto, and at such time and place as we appoint, we will hear such owners in relation thereto, and examine the proofs of such claimants or claimants.

Dated New York, April 20, 1894. WILLIAM B. ELLISON, ROBERT E. DEYO, ROBERT McCAFFERTY, Commissioners.

JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to MARCHER AVENUE (although not yet named by proper authority), extending from Jerome avenue to Featherbed lane, in the Twenty-third and Twenty-fourth Wards of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road, by the Department of Public Parks.

NOTICE IS HEREBY GIVEN THAT THE BILL of costs, charges and expenses, incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof, in the County Court-house, in the City of New York, on the 1st day of May, 1894, at 10.30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Department of Public Works, there to remain for and during the space of ten days.

Dated New York, April 17, 1894. JAMES MITCHELL, HENRY WINTHROP GRAY, SAMUEL W. MILBANK, Commissioners.

JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to BROOKLINE STREET (although not yet named by proper authority), from Webster avenue to Bainbridge avenue in the Twenty-fourth Ward of the City of New York, as the same has been heretofore designated and laid out as a first-class street or road by the Department of Public Parks.

NOTICE IS HEREBY GIVEN THAT THE BILL of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof, in the County Court-house in the City of New York, on the 1st day of May, 1894, at 10.30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Department of Public Works, there to remain for and during the space of ten days.

Dated New York, April 20, 1894. JOHN CONNELLY, WILLIAM P. TOLER, ISAAC FROMME, Commissioners.

JOHN P. DUNN, Clerk.

presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof in the County Court House, in the City of New York, on the 27th day of April, 1894, at 10.30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the Office of the Department of Public Works, there to remain for and during the space of ten days.

Dated New York, April 13, 1894.  
THOMAS NOLAN,  
JOHN F. MCINTYRE,  
JAMES P. CAMPBELL,  
Commissioners.  
JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to FOREST AVENUE, extending from the southerly side of Home street to the northerly side of East One Hundred and Sixty-eighth street, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

NOTICE IS HEREBY GIVEN THAT THE supplemental bill of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof in the County Court-house, in the City of New York, on the 27th day of April, 1894, at 10.30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said supplemental 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, April 13, 1894.  
JAMES MITCHEL,  
JOHN H. ROGAN,  
Commissioners.  
JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to HOME STREET (although not yet named by proper authority), extending from Boston road to Intervale avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

NOTICE IS HEREBY GIVEN THAT THE BILL of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof, in the County Court-house, in the City of New York, on the 30th day of April, 1894, at 10.30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Department of Public Works, there to remain for and during the space of ten days.

Dated New York, April 16, 1894.  
JOSEPH C. WOLFF,  
J. B. MORGAN,  
APPLETON L. CLARK,  
Commissioners.  
JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to that part of BROWN PLACE (although not yet named by proper authority) extending from Harlem river to East One Hundred and Thirty-eighth street, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

NOTICE IS HEREBY GIVEN THAT THE bill of costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at the chambers thereof, in the County Court-house, in the City of New York, on the 27th day of April, 1894, at 10.30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Department of Public Works, there to remain for and during the space of ten days.

Dated New York, April 14, 1894.  
JEFFERSON M. LEVY, Chairman,  
J. B. ECCLESINE,  
J. ROMAINE BROWN,  
Commissioners.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to TWO HUNDRED AND TENTH STREET (although not yet named by proper authority), between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants, of all houses and lots, and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 2 Tryon Row (Room 1), in said city, on or before the 17th day of May, 1894, and that we, the said Commissioners, will hear parties so objecting within the ten week days next after the said 17th day of May, 1894, and for that purpose will be in attendance at our said office on each of said ten days, at 10 o'clock p. m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in the said city, there to remain until the 17th day of May, 1894.

Third—That the limits of our assessment for benefit include all those lots, pieces or parcels of land situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.: On the north by the centre line of the block between Two Hundred and Tenth and Two Hundred and Eleventh streets, on the east by the westerly line of Exterior street, on the south by the centre line of the block between Two Hundred and Tenth and Two Hundred and Ninth streets and on the west by the easterly side of Tenth avenue.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the first day of June, 1894, 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.

Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, April 5, 1894.  
JOHN R. FELLOWS, Chairman,  
SAMUEL SANDERS,  
Commissioners.  
JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to TWO HUNDRED AND NINTH STREET, between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants, of all houses and lots, and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 2 Tryon Row (Room 1), in said city, on or before the 17th day of May, 1894, and that we, the said Commissioners, will hear parties so objecting within the ten week days next after the said 17th day of May, 1894, and for that purpose will be in attendance at our said office on each of said ten days, at 10 o'clock p. m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in the said city, there to remain until the 17th day of May, 1894.

Third—That the limits of our assessment for benefit include all those lots, pieces or parcels of land situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.: On the north by the centre line of the block between Two Hundred and Ninth and Two Hundred and Tenth streets; on the east by the westerly line of Exterior street; on the south by the centre line of the block between Two Hundred and Ninth and Two Hundred and Eighth streets, and on the west by the easterly line of Tenth avenue.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the 1st day of June, 1894, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, April 5, 1894.  
JOHN R. FELLOWS, Chairman,  
BENJAMIN PATTERSON,  
SAMUEL SANDERS,  
Commissioners.  
JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to TWO HUNDRED AND EIGHTH STREET (although not yet named by proper authority), between Tenth avenue and the United States Channel Line, Harlem river, in the Twelfth Ward of the City of New York.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants, of all houses and lots, and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 2 Tryon Row (Room 1), in said city, on or before the 17th day of May, 1894, and that we, the said Commissioners, will hear parties so objecting within the ten week days next after the said 17th day of May, 1894, and for that purpose will be in attendance at our said office on each of said ten days, at 10 o'clock p. m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents, used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in the said city, there to remain until the 17th day of May, 1894.

Third—That the limits of our assessment for benefit include all those lots, pieces, or parcels of land situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.: On the north by the centre line of the block between Two Hundred and Eighth and Two Hundred and Ninth streets, on the east by the westerly line of Exterior street, on the south by the centre line of the block between Two Hundred and Eighth and Two Hundred and Seventh streets, and on the west by the easterly side of Tenth avenue.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on the 1st day of June, 1894, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, April 5, 1894.  
JOHN R. FELLOWS, Chairman,  
BENJAMIN PATTERSON,  
Commissioners.  
JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to NAEGLE AVENUE, from Kingsbridge road to Tenth avenue, in the Twelfth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road.

NOTICE IS HEREBY GIVEN THAT WE, THE undersigned, were appointed by an order of the Supreme Court bearing date the 16th day of February, 1894, Commissioners of Estimate and Assessment for the purpose of making a just and equitable estimate and assessment of the loss, if any, or of the benefit and advantage, if any, as the case may be, to the respective owners, lessees, parties and persons respectively entitled unto or interested in the lands, tenements, hereditaments and premises required for the purpose by and in consequence of opening a certain street or avenue, herein designated as Naegle avenue, as shown and delineated on a certain map made by the Commissioners of the Department of Public Parks of the City of New York, entitled "Map or plan, with field notes and explanatory remarks, showing the location, width, course, widenings and classification of certain streets, roads, avenues, public squares and places within that part of the Twelfth Ward of the City of New York, lying northerly of the southern line of One Hundred and Fifty-fifth street, as laid out and classified, discontinued and

closed by the Commissioners of the Department of Public Parks of the City of New York, in pursuance of chapter 410 of the Laws of 1882, dated New York, April 2, 1884," and filed in the office of the Register of the City and County of New York, and in the office of the Department of Public Parks, on the 16th day of April, 1884, and in the office of the Secretary of State of the State of New York, on the 17th day of April, 1884, and as shown and delineated on a certain map made by the Board of Street Opening and Improvement of the City of New York, entitled "Map of plan of streets, roads and avenues within that part of the Twelfth Ward of the City of New York, lying northerly of the northerly line of Dyckman street (formerly known as Dyckman street and Inwood street) under authority of chapter 360 of the Laws of 1883, and chapter 185 of the Laws of 1885" and filed in the office of the Register of the City and County of New York, and in the office of the Department of Public Works, on the 28th day of January, 1889, and in the office of the Counsel to the Corporation, and in the office of the Secretary of State of the State of New York, on or about the 25th day of January, 1889, and more particularly set forth in the petition of the Board of Street Opening and Improvement, filed in the office of the Clerk of the City and County of New York; and a just and equitable estimate and assessment of the value of the benefit and advantage of said street or avenue so to be opened or laid out and formed, to the respective owners, lessees, parties and persons respectively, entitled to or interested in the said respective lands, tenements, hereditaments and premises not required for the purpose of opening, laying out and forming the same, but benefited thereby, and of ascertaining and defining the extent and boundaries of the respective tracts or parcels of land to be taken or to be assessed therefor, and of performing the trusts and duties required of us by chapter 16, title 5, of the Act entitled "An Act to consolidate into one Act and to declare the special and local laws affecting public interests in the City of New York," passed July 1, 1882, and the Acts or parts of Acts in addition thereto or amendatory thereof.

All parties and persons interested in the real estate taken or to be taken for the purpose of opening the said street or avenue, or affected thereby, and having any claim or demand on account thereof, are hereby required to present the same, duly verified, to us, the undersigned Commissioners of Estimate and Assessment, at our office, No. 2 Tryon Row, in the City of New York, Room No. 2, with such affidavits or other proofs as the said owners or claimants may desire, within twenty days after the date of this notice (April 3, 1894).

And we, the said Commissioners, will be in attendance at our said office on the 27th day of April, 1894, at 12 o'clock noon of that day, to hear the said parties and persons in relation thereto. And at such time and place, and at such further or other time and place as we may appoint, we will hear such owners in relation thereto and examine the proofs of such claimant or claimants, or such additional proofs and allegations as may then be offered by such owner, or on behalf of the Mayor, Aldermen and Commonalty of the City of New York.

Dated New York, April 3, 1894.  
J. E. SMITH,  
E. A. NATHAN,  
Commissioners.  
JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Police of the Police Department of the City of New York, by the Council to the Corporation of the City of New York, relative to acquiring title, by the Mayor, Aldermen and Commonalty of the City of New York, to certain lands on the westerly side of RIDGE STREET, between Broome and Delancey streets, in the Thirteenth Ward of said city, duly selected and approved by said Board as a site for buildings for Police purposes, under and in pursuance of the provisions of chapter 350 of the Laws of 1892.

PURSUANT TO THE PROVISIONS OF CHAPTER 350 of the Laws of 1892, entitled "An Act to provide for the acquisition of necessary sites for buildings for Police purposes by the Board of Police of the Police Department of the City of New York," notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at the chambers thereof, in the County Court-house in the City of New York, on Thursday, the 3d day of May, 1894, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate in the above-entitled matter.

The nature and extent of the improvement hereby intended is the acquisition of title by the Mayor, Aldermen and Commonalty of the City of New York to certain lands and premises, with the buildings thereon and the appurtenances thereto belonging, on the westerly side of Ridge street, between Broome and Delancey streets, in the Thirteenth Ward of said city, in fee simple absolute, the same to be conveyed, appropriated and used to and for the purposes specified in said chapter 350 of the Laws of 1892; said property having been duly selected and approved by the Board of Police of the Police Department of the City of New York as a site for buildings for Police purposes, under and in pursuance of the provisions of said chapter 350 of the Laws of 1892, being the following described lots, pieces or parcels of land, namely:

All those certain lots, pieces or parcels of land and premises situate, lying and being in the Thirteenth Ward of the City of New York, and taken together are bounded and described as follows:

Beginning at a point on the westerly side of Ridge street, distant one hundred feet northerly from the corner formed by the intersection of the westerly side of Ridge street with the northerly side of Broome street, and running thence westerly and at right angles to Ridge street one hundred feet; thence northerly and parallel with Ridge street, seventy-six and eleven hundredths (76 11-100) feet; thence easterly and again at right angles to Ridge street one hundred feet to the westerly side of Ridge street; and thence southerly along the westerly side of Ridge street seventy-six and eleven hundredths (76 11-100) feet to the point or place of beginning.

Dated New York, April 9, 1894.  
WILLIAM H. CLARK,  
Council to the Corporation,  
No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to MACOMBS STREET (although not yet named by proper authority), extending from Broadway to Bailey avenue, in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

NOTICE IS HEREBY GIVEN THAT THE BILL of costs, charges and expenses, incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof, in the County Court-house, in the City of New York, on the 23d day of April, 1894, at 10.30 o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Department of Public Works, there to remain for and during the space of ten days.

Dated New York, April 9, 1894.  
WILLIAM B. ELLISON,  
WILLIAM M. LAWRENCE,  
GEORGE C. COFFIN,  
Commissioners.  
JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to PROSPECT AVENUE (although not yet named by proper authority), from Westchester avenue to Boston road, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road, by the Department of Public Parks.

NOTICE IS HEREBY GIVEN THAT WE, THE undersigned, were appointed by an order of the Supreme Court, bearing date the 5th day of February, 1894, Commissioners of Estimate and Assessment for the purpose of making a just and equitable estimate and assessment of the loss and damage, if any, or of the benefit and advantage, if any, as the case may be, to the respective owners, lessees, parties and persons respectively entitled unto or interested in the lands, tenements, hereditaments and premises required for the purpose by and in consequence of opening a certain street or avenue herein designated as Prospect avenue, as shown and delineated on a certain map entitled, "Map or Plan and Profile showing the location, width, windings, courses and grades in that part of Hunt's Point District in the City of New York bounded on the west by Union avenue, on the north by Boston road, Freeman street, Lyon street and West Farms road, on the east by Wilkins place, Hoe street and Edgewater road, and on the south by Westchester avenue, as laid out and established by the Commissioners of the Department of Public Parks in pursuance of the provisions of chapter 604 of the Laws of 1874 and 436 of the Laws of 1875 of the Laws of the State of New York," and filed one in the office of the Department of Public Parks on the 4th day of June, 1879; one in the office of the Register of the City and County of New York, on the 4th day of June, 1879, and one in the office of the Secretary of State of the State of New York, on the 5th day of June, 1879, and more particularly set forth in the petition of the Board of Street Opening and Improvement filed in the office of the Clerk of the City and County of New York; and a just and equitable estimate and assessment of the value of the benefit and advantage of said street or avenue so to be opened or laid out and formed, to the respective owners, lessees, parties and persons respectively, entitled to or interested in the said respective lands, tenements, hereditaments and premises not required for the purpose of opening, laying out and forming the same, but benefited thereby, and of ascertaining and defining the extent and boundaries of the respective tracts or parcels of land to be taken or to be assessed therefor, and of performing the trusts and duties required of us by chapter 16, title 5, of the act entitled "An act to consolidate into one act and to declare the special and local laws affecting public interests in the City of New York," passed July 1, 1882, and the acts or parts of acts in addition thereto or amendatory thereof.

All parties and persons interested in the real estate taken or to be taken for the purpose of opening the said street or avenue, or affected thereby, and having any claim or demand on account thereof, are hereby required to present the same, duly verified, to us, the undersigned Commissioners of Estimate and Assessment, at our office, No. 2 Tryon Row, in the City of New York (Room No. 1); with such affidavits or other proofs as the said owners or claimants may desire, within twenty days after the date of this notice (April 7, 1894).

And we, the said Commissioners, will be in attendance at our said office on the 5th day of May, 1894, at 11 o'clock in the forenoon of that day, to hear the said parties and persons in relation thereto. And at such time and place, and at such further or other time and place as we may appoint, we will hear such owners in relation thereto and examine the proofs of such claimant or claimants, or such additional proofs and allegations as may then be offered by such owner or on behalf of the Mayor, Aldermen and Commonalty of the City of New York.

Dated New York, April 7, 1894.  
JOHN E. WARD,  
JOS. C. WOLFF,  
HUGH DONOHUE,  
Commissioners.  
JOHN P. DUNN, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title (wherever the same has not been heretofore acquired) to COOPER STREET (although not yet named by proper authority), from Academy street to Isham street, in the Twelfth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by said Board.

WE, THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to all persons interested in this proceeding, and to the owner or owners, occupant or occupants, of all houses and lots and improved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in this proceeding, or in any of the lands affected thereby, and having objections thereto, do present their said objections in writing, duly verified, to us at our office, No. 2 Tryon Row (Room 1), in said city, on or before the 17th day of May, 1894, and that we, the said Commissioners will hear parties so objecting within the ten week days next after the said 17th day of May, 1894, and for that purpose will be in attendance at our said office, on each of said ten days, at 10 o'clock p. m.

Second—That the abstract of our said estimate and assessment, together with our damage and benefit maps, and also all the affidavits, estimates and other documents used by us in making our report, have been deposited with the Commissioner of Public Works of the City of New York, at his office, No. 31 Chambers street, in the said city, there to remain until the 30th day of April, 1894.

Third—That the limits of our assessment for benefit include all those lots, pieces or parcels of land, situate, lying and being in the City of New York, which, taken together, are bounded and described as follows, viz.: On the north by the center line of the block between Cooper street and unknown street, on the east by the westerly line of Isham street, on the south by the center line of the block between Cooper street and unknown street and on the west by the easterly line of Academy street.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house in the City of New York on the 14th day of May, 1894, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, March 17, 1894.  
WALTER EDWARDS, Chairman,  
EDWARD F. O'DWYER,  
JAMES F. HORAN,  
Commissioners.  
JOHN P. DUNN, Clerk.

THE CITY RECORD.

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W. J. KENNY,  
Supervisor.