

# THE CITY RECORD.

## OFFICIAL JOURNAL.

VOL. XVI.

NEW YORK, WEDNESDAY, AUGUST 8, 1888.

NUMBER 4,632.



### DEPARTMENT OF PUBLIC WORKS.

#### Report for the Quarter ending June 30, 1888.

DEPARTMENT OF PUBLIC WORKS—COMMISSIONER'S OFFICE,  
No. 31 CHAMBERS STREET,  
NEW YORK, July 11, 1888.

Hon. ABRAM S. HEWITT, Mayor:

SIR—In accordance with section 49 of the New York City Consolidation Act of 1882, I have the honor to submit the following report of the transactions of the Department of Public Works for the quarter ending June 30, 1888.

#### SUMMARY OF EXPENDITURES.

(Being amount of requisitions drawn on the Comptroller.)

On account of appropriations raised by taxation.....	\$577,681 12
On account of Local Improvement Fund, for street improvements.....	385,038 86
On account of Funded Debt, for improvement and extension of water supply.....	24,954 78
On account of Special Fund, for restoring pavements over street openings.....	13,874 33
On account of Revenue Bonds, for furnishing and setting water-meters.....	3,377 48
On account of Gansevoort Market Building Fund.....	64,422 00

Total.....\$1,069,349 57

#### EXPENDITURES FOR THE SIX MONTHS ENDING JUNE 30, 1888.

Appropriation Account.....	\$902,043 38
Assessment or Local Improvement Fund.....	540,218 30
Funded Debt Water Supply.....	44,162 35
Revenue Bonds for Water-meters.....	4,958 31
Special Fund Restoring Pavements.....	16,182 58
Gansevoort Market Building Fund.....	121,093 82

Total.....\$1,795,964 93

#### SUMMARY STATEMENT OF CONTRACTS.

##### Contracts Entered Into during the Quarter.

14 sewer contracts.....	\$44,729 78
8 regulating and grading contracts.....	71,845 79
23 paving contracts.....	378,603 94
11 contracts for relaying pavements.....	102,905 70
3 water-pipe contracts.....	36,618 10
7 gas contracts.....	452,750 00
15 miscellaneous contracts.....	151,574 75
31 contracts, under \$1,000 each.....	10,353 20
112 contracts, estimated cost.....	\$1,249,381 26

##### Contracts Completed during the Quarter.

17 sewer contracts.....	\$71,916 62
11 regulating and grading contracts.....	71,518 57
22 paving contracts.....	174,870 21
2 contracts for relaying pavements.....	14,576 74
5 miscellaneous contracts.....	142,362 66
29 contracts, under \$1,000 each.....	12,548 81
86 contracts, total cost.....	\$487,856 61

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

During the entire quarter the natural flow of the Croton river furnished a full supply to the aqueduct, and the storage reservoirs and lakes in the Croton water-shed are filled to high water mark. During the past six months a considerably larger supply could have been drawn from the Croton river and the storage reservoirs and lakes than the present aqueduct is capable of carrying.

The supply drawn from the Bronx river is considerably larger per square mile of water-shed than that which the aqueduct is capable of carrying from the Croton water-shed. To obtain this comparatively larger supply, 335,000,000 gallons of water were drawn from the Kensico Reservoir and the Rye Ponds reservoir.

The rain-fall has been abundant, as shown by the following record from the several stations where rain-gauges are kept by the Department:

LOCATIONS.	APRIL. INCHES.	MAY. INCHES.	JUNE. INCHES.	TOTAL. INCHES.
Boyd's Corners Reservoir.....	2.68	6.27	2.00	10.95
South East Reservoir.....	2.53	5.77	1.77	10.07
Croton Dam.....	2.46	6.71	2.76	11.93
Kensico Reservoir.....	3.31	5.85	1.65	10.81
Central Park Reservoir.....	3.05	5.95	2.02	11.02

The ordinary work of care and maintenance of the aqueduct, storage reservoirs and lakes, the streams in the Croton water-shed, the distributing reservoirs and the operation of the high-service

pumping works received constant and efficient attention. In addition thereto the construction of the retaining-wall below Quaker bridge was continued, and progress was made on the construction of walls on the east and south sides of the High Bridge reservoir. The lower reservoir in Central Park and the Forty-second street reservoir are being cleaned and repaired. A contract has been made for the construction of a storage-house for coal at the high-service pumping station at Ninety-eighth street and Ninth avenue, and the work is completed.

The following quantities of pipes were laid in extending and improving the water service:

6-inch pipe.....	28,144 lineal feet.
12-inch pipe.....	9,595 "
20-inch pipe.....	937 "
36-inch pipe.....	9 "

Total.....38,685 "

In connection with these pipes, 79 stop-cocks and 64 fire-hydrants were placed.

Since the beginning of the quarter, a gang of mechanics and laborers have been employed in replacing the worn out water-mains, taps and service-pipes in Front and Water streets, and in the intersecting streets east and south of Pearl street. Contracts have been made for furnishing pipes, branches, stop-cocks, etc., for this work.

In extending the water-meter system, 510 additional water-meters were placed, making 17,412 meters in use at the close of the quarter. With the advent of the summer season there has been a large increase in the use and waste of water, as shown by the fact that since June 4 the depth of water in the Central Park Reservoir has been reduced 24 inches, equal to 56,000,000 gallons used in addition to the daily supply of 95,000,000 gallons received from the Croton river, and 18,000,000 gallons received from the Bronx river. While a portion of this is undoubtedly due to the large increase in the number of buildings erected and occupied, a much larger share is due to excessive use and waste of water since hot weather set in. The Department is using all the means in its power to suppress waste of water, and that these means are effective to a considerable extent is shown by the fact that the Department is still able to deliver water to every building in the city, while for some years past there has been a yearly average addition of 3,000 new buildings to be supplied with water. The means for suppressing waste, however, are not sufficient to prevent a gradual and steady decrease of pressures in the distributing mains to the extent that during the hours of the day when the consumption of water for domestic and business purposes is largest, the pressures are not sufficient to deliver water to many houses on high ground. In these buildings, however, a steady supply, during the day time, can be secured by the use of tanks, which can be filled at night time by natural pressure when the use of water is smallest.

Under a special appropriation of \$24,000 for a new water-main, etc., to North Brother Island, a contract has been made for boring examinations on the island to ascertain whether a water supply cannot be obtained by means of artesian wells, and a contract and specifications have been prepared for another water-main from the mainland to the island. This main will be laid as speedily as practicable, as the pipe which now supplies the island is leaking badly.

Under another appropriation of \$30,000 for laying an additional water-main to Blackwell's Island, a contract for furnishing and laying the main has been entered into, and the pipes and fixtures are now being manufactured. Boring tests for water will also be made on Blackwell's Island as soon as report or suggestions are received from the Superintending Engineer of the Department of Charities and Correction as to the proper locations and best manner of making the borings.

#### BUREAU OF WATER PURVEYOR.

##### New Pavements paid for by Assessments.

New pavements were laid on the following streets:  
Ninetieth street, between Eighth and Ninth avenues.  
Edgecomb avenue, between One Hundred and Thirty-fifth and One Hundred and Thirty-seventh streets.  
Eighty-sixth street, between Eighth and Riverside avenues.  
Eighty-fifth street, between Ninth and Tenth avenues.  
One Hundred and Thirty-third street, between Sixth and Seventh avenues.  
One Hundred and Forty-first street, between St. Nicholas and Tenth avenues.  
One Hundred and Third street, between Ninth and Tenth avenues.  
Madison avenue, between One Hundred and Twentieth and One Hundred and Twenty-first streets.

Ninetieth street, between Second and Third avenues.  
One Hundred and Thirty-second street, between Fourth and Madison avenues.  
One Hundredth street, between Second and Third avenues.  
Ninety-seventh street, between Third and Fourth avenues.  
Lexington avenue, between Ninety-fifth and Ninety-seventh streets.  
Sixty-fourth street, between First avenue and East river.  
Seventy-first street, between Boulevard and West End avenue.  
Eighty-ninth street, between First and Second avenues.  
Seventy-seventh street, between Ninth avenue and the Boulevard.  
Sixty-fifth street, between Tenth and Eleventh avenues.  
One Hundred and Eleventh street, between Madison and Fifth avenues.  
Ninety-seventh street, between Ninth and Tenth avenues.  
Madison avenue, between One Hundred and Third and One Hundred and Fifth streets.  
Seventy-fifth street, between the Boulevard and West End avenue.  
Second avenue, between One Hundred and Twenty-eighth street and Harlem river.  
Ninety-first street, between First avenue and Avenue A.  
In addition to these, new pavements were laid by property-owners, under permits from this Department, on West End avenue, between Seventy-second and Seventy-sixth streets, and in Seventy-third street, between the Boulevard and West End avenue.

The area of new pavements thus laid is:

Granite pavement.....	36,754 square yards.
Trap-block pavement.....	33,174 "
Asphalt pavement.....	6,993 "

Total area.....76,921 "

In connection with these new pavements, 11,157 square feet of bridge stones were laid for crosswalks.

9 contracts for new pavements on other up-town streets have been entered into and will probably be completed this season.

##### Excavations in Street Pavements.

The following summary shows the large extent of the operations of private corporations and individuals in the public streets, which necessitate the opening of street pavements:

9,517 openings made for laying and repairing gas-pipes, steam-pipes, salt-water pipes and electric subways, and for making connections with these and with water-mains and sewers.

4,107 notices sent to corporations and individuals to repair defective pavements over openings.  
 3,613 defects in pavements over openings repaired in compliance with notices.  
 23.91 miles of gas-mains laid.  
 2.69 miles of trench opened for electrical subways and appliances.  
 3,782 lineal feet salt-water mains laid.  
 116 lineal feet car-tracks laid.  
 185 poles erected for telegraph and electric light wires, under permission of the Board of Electric Control.

#### Repavements.

On February 13, 1888, I presented to the Board of Aldermen my certificate and report as to the streets to be repaved under this year's repavement appropriation, and the resolution authorizing such repavement was approved March 5. Subsequently the Counsel to the Corporation advised that the resolution was defective in failing to make provision for crosswalks to be built of bridge-stone of North river blue stone. An amended resolution was prepared and was pending in the Board of Aldermen, until finally passed and approved, June 6. This caused a delay of three months in the preparation of the contracts and specifications. They are now prepared, and the work will be advertised for public letting at an early day. The delay will probably make it impossible to carry out all the repavements this year. A very large amount of repavement work will yet remain to be done after the work covered by this year's appropriation is completed, including, first, all the remaining cobble pavements, and secondly, the worn out and defective small stone-block pavements or so-called Belgian pavements.

There is also a very large area of streets contiguous to the water-front, which are within the limits of grants of land under water, under the conditions of which grants the grantees and their successors, the present owners, are required to build, uphold and pave the streets and keep them in repair. In a number of cases this Department has made demand upon the present owners to comply with this obligation by repaving or repairing certain streets along the North river, but compliance has been rendered in only one case, where the Consolidated Gas Company laid a new stone-block pavement on the northerly half of Fifteenth street, between Tenth and Eleventh avenues. In consequence of the difficulty of enforcing these obligations of grantees and owners, it has been suggested that it would be more practicable to commute the obligations at a stipulated sum to be paid into the city treasury, thus placing the streets on the same footing as other streets which are paved and kept in repair by the City. Negotiations for such commutations are now pending between the Commissioners of the Sinking Fund and the owners, and it is to be hoped that they may soon be consummated, so that this Department may proceed to repave or repair the streets, most of which are in very bad condition.

#### Repairs of Pavements.

The pavement repair force is now fully organized for the season, and is making extensive repairs throughout the city. In addition to these repairs, which are done by day's work, contracts have been made for entirely relaying, from curb to curb, about 190,000 square yards of pavement on various streets enumerated in the Water Purveyor's report, hereto annexed. That report also gives a list of over 100 additional streets in which the pavements should be relaid or replaced by new pavements.

The average force employed on repairs of pavements in June was 431 pavers, rammers and laborers, with 88 carts and six teams.

The area of pavements relaid during the quarter is as follows:

By day's work.....	83,972 square yards.
Under orders amounting to less than \$1,000 each.....	5,646 "
Under contracts.....	22,919 "
Total.....	112,537 "

#### Repairs of Pipes, Stop-cocks and Hydrants.

An average force of 103 mechanics and laborers, with 11 carts, has been employed in this work, and the principal items of work done are as follows:

- 551 defects in pipes and stop-cocks repaired.
- 271 taps shut off on account of leaks.
- 1,036 fire-hydrants repaired.
- 191 old fire-hydrants replaced by new ones.
- 1 additional fire-hydrant placed.
- 105 drinking-hydrants repaired.
- 4 new drinking-hydrants placed.
- 543 defects in pavements repaired.

It is time to revise and modify the system which has been in vogue of applying trap-blocks and granite-blocks indiscriminately to the carriageways of the city, as the ordinances of the Common Council may happen to direct. The trap, particularly, is not suitable except for a very busy street where heavy hauling is the rule. It is impossible to make a smooth pavement with this block, owing to the irregular shapes in which it is furnished. The granite-block is better in these respects than the trap; but there is a large portion of the city to which neither of these should be applied. I speak particularly of the residential streets, which should be paved with smooth, noiseless material.

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

During the quarter, 19 contracts for the construction of sewers and 4 contracts for the construction of receiving-basins were completed; 13,127 lineal feet of new sewers and 11 receiving-basins were built. The sewerage system now includes 424.61 miles of sewers, with 5,123 receiving-basins. The several sewer works which have been completed are enumerated in the report of the Engineer in Charge of Sewers, hereto annexed. At the close of the quarter work was in progress on 42 sewer contracts.

Two contracts for repairs of sewers have been completed, viz.: On sewer in Houston street between Goerck and Mangin streets, and sewer in Sixth street, between Avenues B and C.

The following are the principal items of work done by the force employed by the Department in repairing and cleaning sewers:

- 96 lineal feet sewers rebuilt.
- 2,157 lineal feet sewers repaired.
- 183 lineal feet new pipe-sewer built.
- 144 lineal feet spur-pipe laid.
- 590 lineal feet culverts rebuilt.
- 82 lineal feet new bulkhead built.
- 16 receiving-basins rebuilt.
- 73 receiving-basins repaired.
- 25 new manholes built.
- 230 manholes repaired.
- 769 receiving-basins and culverts cleaned.
- 30,395 lineal feet sewer cleaned.
- 2,315 cart-loads of sewer deposits removed.

#### BUREAU OF STREET IMPROVEMENTS.

Twelve contracts for regulating and grading streets, 11 contracts for flagging sidewalks, and 11 contracts for fencing vacant lots were completed during the quarter, at an aggregate cost of \$82,092.43. Among the more important regulating and grading works completed are:

- One Hundred and Seventh street, between Eighth and Ninth avenues.
- One Hundred and Forty-eighth street, between Seventh and Eighth avenues.
- One Hundred and Sixty-first street, between Tenth and Eleventh avenues.
- Hamilton place, between the Boulevard and Tenth avenue.

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

- 7,590 cubic yards earth excavated.
- 19,348 cubic yards rock excavated.
- 37,588 cubic yards filling placed in embankments.
- 13,283 lineal feet curb-stone set.
- 4,469 lineal feet curb-stone reset.
- 70,608 square feet flagging laid.
- 7,374 square feet flagging relaid.
- 7,881 lineal feet picket fence built.
- 3,624 cubic yards retaining-wall built.
- 200 lineal feet drain-pipe laid.

At the close of the quarter work was in progress on 18 regulating and grading contracts.

#### INSPECTION OF WORKS.

All, or nearly all, of the works carried on under the direction of the Chief Engineer of the Croton Aqueduct, the Water Purveyor, the Engineer in Charge of Sewers, and the Superintendent of Street Improvements, are under the immediate supervision of local inspectors. Persistent efforts have been made to increase the fidelity and efficiency of the inspectors in the Department, upon whose attention to duty so much depends, and I have to recommend, in the interest of economy, an advance in this direction, as also to initiate the division of the city into districts under the supervision of Civil Engineers. By these means, although the salary lists will be increased, yet the economy, as well as the quality of the work, will, in my opinion, be very largely enhanced.

#### BUREAU OF STREETS AND ROADS.

The work of maintaining and keeping in repair the macadam roadways under the charge of this Bureau is summarized as follows:

- 1,122,942 square yards roadways and gutters cleaned.
- 38,148 square yards macadam pavement repaired.
- 99,085 square yards roadways covered with gravel screenings.
- 60,800 square yards roadway covered with sand.
- 20 cubic yards retaining-walls rebuilt.
- 53 sewer basins cleaned.
- 612 shade-trees trimmed.

In this work, 1,057 truck-loads of gravel screenings, 590 truck-loads of sand, 297 truck-loads of broken stone and 276 truck-loads of miscellaneous materials were used.

In cleaning the roadways, gutters and basins, 7,721 truck-loads of dirt were removed.

The report of the Superintendent of Streets, hereto annexed, gives a list of 30 locations where repairs were made on unpaved streets in the upper part of the city, on which 2,630 truck-loads of sweepings from the macadam roadways were used.

In the sprinkling of macadam roadways, 23,610 barrels of loads of water were used.

In past seasons there have been innumerable complaints from residents along macadam roadways that they were annoyed with dust because the roadways were not sufficiently sprinkled. Under my special instructions the sprinkling is now done more frequently, and the complaints have correspondingly diminished.

The more important country roadways and unpaved streets are also sprinkled.

#### BUREAU OF LAMPS AND GAS.

On the 30th of April the contracts for lighting public gas-lamps and electric-lights expired, and new contracts were made for the ensuing year, after advertisement and public letting. The following is a comparison of the prices bid and at which contracts were awarded for electric-lights for the past year and for the current year:

Brush Electric Illuminating Co.—Last year, 25 and 40 cents per night for each light, according to location; this year, 35 cents each for all lights per night.

United States Illuminating Co.—Last year, 24, 40 and 50 cents per night for each lamp, according to location; this year, 35 cents per night for all lamps.

East River Electric Co.—Last year, 19.9 and 39 cents per night for each lamp, according to location; this year, 35 cents per night for all lamps.

Mount Morris Electric Light Co.—Last year, 40 cents per night for all lamps; this year, 23, 28, and 17½ cents per night for each lamp, according to location.

Harlem Lighting Co.—Last year, 24, 50 and 60 cents per night for each lamp, according to location; this year, 35, 50 and 60 cents per night for each lamp, according to location.

North New York Lighting Co.—Last year, 40 cents per night for all lamps; this year, 29 and 35 cents per lamp, according to location.

American Electric Manufacturing Co.—Last year, 32 cents per night for all lamps; this year, no bid.

Ball Electric Illuminating Co.—Last year, no bid; this year, 27½ cents per night for all lamps.

For gas-lamps, the prices in the new contracts are the same as in the old, viz.:

Equitable Gas-light Co., per annum for each lamp.....	\$12 00
Consolidated Gas Co., per annum for each lamp.....	17 50
N. Y. Mutual Gas-light Co., per annum for each lamp.....	17 50
Central Gas-light Co., per annum for each lamp.....	28 00
Northern Gas-light Co., per annum for each lamp.....	29 00
Yonkers Gas-light Co., per annum for each lamp.....	29 00

During the quarter 97 new gas-lamps were erected and lighted, and 387 additional electric-lights were placed, displacing 2,397 gas-lamps.

At the close of the quarter there were 22,148 gas-lamps, 1,273 electric-lights and 120 naphtha-lamps in use on the streets, parks, docks and bridges of the city.

#### BUREAU OF REPAIRS AND SUPPLIES.

The following is a summary of the special repairs and improvements made in the various public buildings under the charge of this Department:

##### County Court-house.

Extensive repairs have been made on the roof, ventilators and gutters. In the Surrogate's offices an iron railing has been put up in room 3, a new floor laid in room 2, and the walls and ceilings repaired and painted in rooms 2, 3, 4 and 5.

##### City Hall.

Under a special appropriation of \$17,000 for improvements to the City Hall, a complete new system of plumbing, drainage, ventilation and water-supply has been provided on the plans and under the direction of Mr. A. L. Webster, who was appointed by me as Sanitary Expert in charge of the work. I invite your attention to Mr. Webster's report of the work done, which is embodied with the report of the Superintendent of Repairs and Supplies, hereto annexed. There appears to be no doubt that the improvements will be of great benefit to the sanitary condition of the building. While this work was in progress, temporary quarters were provided for the Mayor's offices in the Stewart Building, and the offices in the City Hall were thoroughly renovated. Other special repairs were made in the office of the Mayor's Marshal, the room occupied by the Grand Army of the Republic and the offices of the City Court.

##### Brown-stone Court-house.

In the offices of the District Attorney the walls, ceilings and woodwork were painted, a new paneled glass partition put up, a new door cut through on the third floor, an electric annunciator placed in the Chief Clerk's office and a new water-closet and soil pipes placed in the basement.

##### Police and Civil Courts.

In the Court of Special Sessions, Tombs Building, new flooring was laid on the balcony and the bridge to the prison.

In the Fifth District Civil Court the walls, ceilings and woodwork have been repaired and painted.

In the Fourth District Police Court a new case for holding court records has been put up.  
The building and grounds foot of East Sixteenth street, formerly used as a dog pound, have been rearranged and refitted for use as a Corporation yard by the Bureau of Incumbrances.  
On the building, No. 5 Duane street, used by the Public Administrator, the roof and leaders have been thoroughly repaired and painted.

#### Armories.

In the First Battery Armory new lockers have been put up and a large storage closet built for the use of the Quartermaster.

In the Second Battery Armory partitions have been altered and a new partition built, the rooms ceiled with yellow pine and new doors and windows put in.

In the Twelfth Regiment Armory iron guard-plates have been put up in the rifle-range.

In the Sixty-ninth Regiment Armory the walls, ceilings and woodwork in several of the large rooms have been repaired and painted.

#### Public Markets.

In West Washington Market large sections of new plankings have been laid on Vesey street pier.

In Fulton Market the gravel roof has been repaired, and a new iron smoke-stack put up.

In Centre Market new window sashes, with wire guards, have been put up, and a new tin roof put on the shed in Centre Market place.

In Tompkins Market, extensive repairs have been made on doors and windows, and the platform and steps on the Seventh street front have been rebuilt.

#### New Gansevoort Market Buildings.

The work on the to separate buildings, the surrounding sidewalks, and the paving of the intersecting streets, is about four-fifths completed. This work has naturally been much retarded during the past severe winter. The present building contract, which amounts to \$477,443, will be completed in about two months.

#### Free Floating Baths.

Before being removed from their winter quarters, the 11 baths which were in use last season were thoroughly repaired and painted, the pontoons calked, and new pontoons built where the old ones were too defective.

Between the 1st and 20th of June all the baths were put in their respective summer berths and opened to the public. The total attendance during the month of June was 115,220 males, and 56,595 females.

The two new baths provided for by chapters 209 and 227, Laws of 1887, have been built, and are now ready to be placed in their respective positions, designated in the laws, one between Dover and Pike streets, and one between Forty-ninth and Fifty-first streets on the East river, as soon as the Department of Docks provides suitable berths.

#### BUREAU OF INCUMBRANCES.

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

- 2,071 complaints of obstructions received and attended to.
- 673 seizures and removals of obstructions made.
- 2,872 permits issued to place building materials on streets.
- 13 permits issued to cut down shade-trees.
- 408 miscellaneous permits issued.
- 320 notices issued to repair defective sidewalks.
- 20 notices issued to repair defective vault covers.
- 444 cart-loads of refuse material and dirt removed.
- 178 dangerous shade-trees removed.

#### BUREAU OF WATER REGISTER.

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

For water rents .....	\$620,435 84
For penalties on water rents .....	2,038 95
For permits to tap water-pipes .....	3,859 50
Total .....	\$626,334 29

Prior to the enactment of chapter 559 of the Laws of 1887, only the regular or frontage rates on buildings for water supply were liens on the property, and the extra rates, which were charged in addition to the frontage rates, for various kinds of business, for extra families, water-closets, baths, etc., which remained uncollected, were carried along on the books of the Water Register's Bureau.

That act provides that these extra rates shall be a lien on property as well as the regular rates, and that the uncollected charges shall, at the close of the fiscal year, be returned in arrears to be collected by the Clerk of Arrears. This provision of the act is now in full operation, and the Water Register reports that it seems to be satisfactory to the public, as it is to his Bureau. The act also provides that all such extra charges, standing on the books of the Water Register six years or longer, shall be canceled. The cancellation is now proceeding, and the books will be closed during the present year. The act further provides a penalty of five dollars for each violation of the rules of the Department for the prevention of waste of water, and during the past quarter fines amounting to \$275 have been collected for violations of the rule prohibiting the use of water through hose for washing sidewalks, stoops, house-fronts, court-yards, gardens, and for all other purposes.

Chapter 969 of the Laws of 1887 exempts hospitals, orphan asylums and houses for the aged from the payment of water rents. The applications for exemption under this act are referred to the Counsel to the Corporation, and, under his advice, 20 institutions have so far received the benefit of the act. These exemptions will reduce the revenue from the water service \$10,500 per annum.

#### MISCELLANEOUS REVENUE.

The following amounts, from various sources, were collected by the Department and paid into the City Treasury during the quarter:

For sewer permits .....	\$8,476 97
For vault permits .....	19,926 62
For redemption of street obstructions .....	1,165 50
For use of sprinkler and road-roller .....	81 00
For articles sold at auction .....	273 83
For work and materials furnished citizens .....	1,055 93
For restoration of pavements over street openings .....	11,388 00
For furnishing and setting water-meters .....	2,883 62
Total .....	\$45,251 47

Section 48 of the Consolidation Act specifies that no head of Bureau shall be removed until he has been informed of the cause of the proposed removal, and has been allowed to make an explanation, and in every case of a removal, the true grounds thereof shall be forthwith entered upon the records of the Department or Board. In case of removal, a statement showing the reasons therefor shall be filed in the Department.

The head of a Bureau is not subject to Civil Service rules; he is the officer upon whom the head of a Department relies for the faithful conduct of that Bureau; it is not necessary that he shall be guilty of any fault; it may be that he does not suit the place, or is not fitted to carry out the policy of the head of the Department. To put that man upon trial, as the section requires in case of removal, and to put on record the causes thereof, would, in many instances, blast the character of a worthy person, whose sole fault is that he does not fit the position.

I, therefore, recommend that, so far as the chiefs of Bureaus are concerned, the provisions of section 48 be annulled, and that application therefor be made to the Legislature.

One of the most prolific sources of bad work in this City is the compulsory resort to the contract system, enforced by existing laws. This Department ought to be placed in a position to execute a large portion of the work intrusted to it by day's work, and to organize, for that purpose, a competent force of engineers, experienced foremen, etc.

The following documents, hereto appended, contain further detailed information as to the operations of the Department:

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

Very respectfully,

JOHN NEWTON, Commissioner of Public Works.

#### Document "A."

Showing Titles of Appropriations; Appropriations, with Transfers of 1887; Requisitions on 1887 to April 1, 1888; Requisitions on 1887 in Second Quarter of 1888; Balances of 1887 on July 1, 1888; Appropriations, with Transfers of 1888; Requisitions, First Quarter of 1888; Requisitions, Second Quarter of 1888; Balances, July 1, 1888; the Titles and Expenditures on Trust and Special Accounts, and Receipts for the First Six Months of 1888.

TITLES OF APPROPRIATIONS.	APPROPRIATIONS, WITH TRANSFERS, 1887.	REQUISITIONS, FROM JANUARY 1, 1887, TO APRIL 1, 1888.	REQUISITIONS ON LIABILITIES OF 1887, SECOND QUARTER, 1888.	BALANCES ON JULY 1, 1888.	APPROPRIATIONS, WITH TRANSFERS FOR 1888.	REQUISITIONS, FIRST QUARTER, 1888.	REQUISITIONS, SECOND QUARTER, 1888.	BALANCES, JULY 1, 1888.
Aqueduct—Repairs, Maintenance and Strengthening.....	\$226,500 00	\$212,407 79	\$4,979 68	\$9,112 33	\$222,833 33	\$23,571 22	\$48,571 89	\$150,650 22
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	23,500 00	23,500 00	452 00	27,150 00	27,150 00	6,378 18	14,237 98	14,237 98
Boring Examinations for Grading and Sewer Contracts.....	4,000 00	3,412 80	.....	587 20	4,000 00	565 00	1,203 50	2,231 50
Boulevards, Roads and Avenues, Maintenance of.....	100,000 00	99,749 21	.....	250 79	100,000 00	8,197 64	27,111 17	68,091 19
Boulevards, Roads and Avenues, Maintenance of—Salaries.....	.....	.....	.....	.....	3,000 00	749 97	749 97	1,500 00
Bronx River Works—Maintenance and Repairs.....	21,000 00	20,830 24	.....	169 76	21,000 00	4,243 00	4,995 00	12,152 00
Bronx River Works—Maintenance and Repairs—Salaries.....	3,000 00	3,000 00	.....	.....	3,000 00	975 00	3,028 45	1,950 00
Contingencies—Department of Public Works.....	5,250 00	5,225 73	.....	24 27	4,000 00	750 70	665 00	2,584 30
Flagging Sidewalks and Fencing Vacant Lots, etc.....	3,000 00	2,999 72	.....	28 28	14,000 00	.....	227 50	13,772 50
For Brown-stone Building, Additions to.....	75 00	.....	.....	75 00	.....	.....	.....	.....
For Repairs to Seventh Regiment Armory Building.....	3,000 00	2,851 47	.....	148 53	.....	.....	.....	.....
For Repairing Water-main Leading to North Brother Island.....	3,000 00	2,043 75	.....	954 25	.....	.....	.....	.....
For New Water-main and Testing for Water Supply, North Brother Island.....	.....	.....	.....	.....	24,000 00	.....	.....	24,000 00
Free Floating Baths—Salaries.....	30,000 00	14,951 71	.....	15,038 29	37,308 00	311 00	8,650 51	28,276 49
Free Floating Baths—Salaries.....	20,000 00	19,620 50	.....	379 50	22,000 00	1,865 50	3,642 00	16,492 50
Lamps and Gas and Electric Lighting.....	676,200 00	676,174 43	.....	25 57	687,000 00	109,141 34	150,878 18	426,080 48
Lamps and Gas and Electric Lighting—Salaries.....	5,800 00	5,726 96	.....	73 04	6,500 00	1,624 95	1,624 95	3,250 10
Laying Croton Pipes—Salaries.....	186,000 00	161,622 23	.....	16,414 44	216,000 00	2,949 54	13,274 55	199,776 91
Laying Croton Pipes—Salaries.....	14,000 00	13,999 92	.....	88 44	16,491 67	3,772 98	3,767 98	10,997 71
Public Buildings—Construction and Repairs.....	110,500 00	115,245 84	.....	107 60	100,500 00	13,040 15	31,028 45	45,025 40
Public Drinking-hydrants.....	2,500 00	1,953 92	.....	546 08	3,800 00	145 37	683 97	2,970 66
Public Drinking-hydrants—Salaries.....	1,000 00	699 06	.....	300 00	1,000 00	300 00	.....	.....
Removing Obstructions in Streets and Avenues.....	6,824 00	6,822 65	.....	1 35	22,000 00	2,358 35	3,023 02	16,671 63
Removing Obstructions in Streets and Avenues—Salaries.....	3,116 00	3,115 30	.....	70 70	7,500 00	1,480 46	1,732 49	4,287 05
Repairing and Renewal of Pipes, Stop-cocks, etc.....	200,000 00	185,052 01	.....	5,992 32	200,000 00	26,416 41	48,078 90	125,504 69
Repairing and Renewal of Pipes, Stop-cocks, etc—Salaries.....	50,000 00	49,983 11	.....	16 89	.....	.....	.....	.....
Repairs and Renewal of Pavements and Regrading.....	228,000 00	240,371 84	.....	12,810 32	400,000 00	9,220 55	71,288 81	319,490 64
Repairs and Renewal of Pavements and Regrading—Salaries.....	12,000 00	11,245 84	.....	754 16	18,000 00	2,959 98	3,735 48	11,284 54
Repaving Streets and Avenues.....	353,879 06	256,260 97	.....	14,307 92	482,000 00	.....	4,868 00	477,431 80
Repaving Streets and Avenues—Salaries.....	.....	7,224 00	.....	5,770 00	18,000 00	2,328 00	2,910 66	12,761 34
Roads, Streets and Avenues Unpaved, Maintenance, and Sprinkling.....	25,000 00	24,506 98	.....	93 02	25,000 00	2,609 55	5,331 75	17,058 70
Salaries—Department of Public Works.....	108,000 00	105,348 00	.....	2,652 00	108,000 00	24,584 99	24,752 44	56,062 57
Salaries of Engineer, Clerks, etc.—Bureau of Water Register, etc.....	.....	.....	.....	.....	50,000 00	12,021 35	11,780 35	26,198 39
Sewers—Repairing and Cleaning.....	141,500 00	136,360 24	.....	3,140 10	150,000 00	16,225 44	48,602 31	85,172 25
Sewers—Repairing and Cleaning—Salaries.....	8,500 00	8,470 00	.....	30 00	10,000 00	2,348 00	2,476 00	5,175 34
Sewerage System—Salaries.....	12,500 00	12,499 73	.....	27 27	17,000 00	3,774 99	3,737 95	9,537 00
Street Improvements—For Surveying, Monumenting, etc.....	3,000 00	1,085 50	.....	1,914 50	1,000 00	.....	.....	2,328 50
Supplies for and Cleaning Public Offices.....	118,000 00	117,060 29	.....	939 71	123,000 00	20,663 54	32,183 78	61,152 68
Supplies for and Cleaning Public Offices—Salaries.....	20,000 00	19,928 69	.....	71 31	20,000 00	5,042 37	4,937 37	10,020 26
Surveys, Maps, etc., for Street Openings and New Streets—Salaries.....	9,000 00	8,870 20	.....	3,128 80	6,300 00	1,545 97	1,575 00	3,179 03
Supplying Water to Shipping and for Building Purposes—Salaries.....	9,000 00	8,211 49	.....	788 44	9,500 00	2,260 98	2,419 98	5,679 04
Water Supply for the Twenty-fourth Ward.....	14,570 00	7,927 57	.....	3,742 43	7,800 00	668 79	1,289 14	5,841 87
Water Supply for the Twenty-fourth Ward—Salaries.....	1,000 00	974 98	.....	25 02	1,200 00	300 00	.....	600 00
Wells and Pumps—Repairing and Cleaning.....	250 00	75 57	.....	174 43	250 00	.....	22 35	227 65
Real Estate Expenses—Finance Department.....	.....	.....	.....	.....	233 32	.....	233 32	.....
Totals.....	\$2,773,624 06	\$2,632,603 08	\$57,741 85	\$83,279 13	\$3,183,542 32	\$324,362 26	\$577,681 12	\$2,812,498 94

NOTE.—Requisitions drawn Second Quarter, 1888, on liabilities of 1886: Contingencies—Department of Public Works, \$50; Laying Croton Pipes, \$356.07; Repaving Streets and Avenues, \$88.60. Total, \$494.67.

TITLES OF TRUST ACCOUNTS.	BALANCES FROM 1887 AND RECEIPTS, FIRST QUARTER, 1888.	RECEIPTS, SECOND QUARTER, 1888.	TOTAL.	REQUISITIONS, FIRST QUARTER, 1888.	REQUISITIONS, SECOND QUARTER, 1888.	REQUISITIONS, SIX MONTHS TO JULY 1, 1888.	BALANCES, JULY 1, 1888.
Croton Water Fund.....				\$19,207 57	\$24,954 78	\$44,262 35	
Fund for Local Improvement.....				155,179 44	185,638 86	340,818 30	
Restoring and Repairing—Special Fund—Department of Public Works.....	\$17,701 59	\$11,188 00	\$28,889 59	2,368 25	13,874 33	16,242 58	\$12,906 81
Water-meter Fund No. 2.....	20,757 68	2,883 62	23,641 30	1,580 83	3,377 48	4,958 31	19,682 99
Gas-meter Market Building Fund.....				56,671 82	64,422 00	121,093 82	

Statement of General Bookkeeper, Department of Public Works, Showing all Revenues of the City Received through the Department during the First and Second Quarters, 1888.

SOURCE OF REVENUE.	FIRST QUARTER.	SECOND QUARTER.	TOTAL.	SOURCE OF REVENUE.	FIRST QUARTER.	SECOND QUARTER.	TOTAL.
Water rents.....	\$335,057 30	\$620,435 84	\$955,493 14	Use of sprinkling wagon and road roller.....	\$36 00	\$81 00	\$117 00
Water penalties.....	3,985 65	2,038 95	6,024 60	Sales at auction.....	242 27	273 83	516 10
Pipe tapping.....	769 50	3,859 50	4,629 00	Work done and material furnished citizens.....		1,955 93	1,955 93
Sewer permits.....	3,350 42	8,476 97	11,827 39				
Vault permits.....	9,992 53	19,926 62	29,919 15				
Redemption of street obstructions.....	753 90	1,195 50	1,949 40				
				Totals.....	\$351,110 57	\$637,314 14	\$1,011,424 71

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 Commissioners of Public Works during the Quarter ending June 30, 1888.

#### APPROPRIATIONS.

Aqueduct—Repairs, Maintenance and Strengthening—		
Blacksmithing.....		\$423 62
Cement, lime, etc.....		418 60
Lumber, etc.....		1,282 04
Oil.....		540 80
Paints, etc.....		108 80
Pay-rolls.....		39,038 09
Removing dirt from reservoir.....		1,750 00
Rent of offices.....		106 25
Repairing engine.....		962 30
Stone.....		613 75
Taxes.....		1,612 04
Tools and supplies.....		1,592 81
Traveling expenses.....		83 07
Wire fencing.....		38 16
Total.....		\$48,571 89
Aqueduct—Repairs, Maintenance and Strengthening, 1887—		
Coal.....		\$4,759 68
Ice.....		100 00
Fence posts.....		120 00
Total.....		\$4,979 68
Boring Examinations for Grading and Sewer Contracts—		
Pay-rolls.....		\$1,203 50
Boulevards, Roads and Avenues—Maintenance of—		
Coal.....		\$12 00
Horse-hire.....		270 00
Lumber.....		326 80
Paints, etc.....		153 50
Pay-rolls.....		19,020 40
Rent of yard.....		1,200 00
Repairing sprinklers.....		26 70
Sand and screenings.....		1,905 77
Telephone service.....		33 75
Tools and supplies.....		442 87
Wheels and axles.....		310 38
Total.....		\$23,711 17
Bronx River Works—Maintenance and Repairs—		
Pay-rolls.....		\$4,905 00
Contingencies—Department of Public Works—		
Horse-hire.....		\$270 00
Incidental expenses.....		100 00
Postage.....		295 00
Total.....		\$665 00
Contingencies—Department of Public Works, 1886—		
Atlases.....		\$50 00
Flagging Sidewalks and Fencing Vacant Lots, etc.—		
Pay-rolls.....		\$227 50
Free Floating Baths—		
Carpenter work.....		\$759 00
Coal.....		6 25
Lumber.....		83 30
Moorings.....		225 00
Painting.....		2,387 00
Repairing pontoons.....		2,740 00
Supplies.....		997 80
Wharfage.....		660 00
Pay-rolls.....		152 00
Total.....		\$8,690 51
For Repairs to Seventh Regiment Armory, 1887.....		
		\$47 00
Lamps and Gas and Electric Lighting—		
Atlas and maps.....		\$70 00
Gas examinations.....		384 00
Horse hire.....		100 00
Lamp-irons.....		333 00
Lamp-posts.....		1,771 86
Paints, etc.....		3 75
Pay-rolls.....		765 00
Street signs.....		1,522 50
Tools, etc.....		14 50
Lighting Armory, First Battery.....		41 75
" " Second ".....		121 00
" " Seventh Regiment.....		689 12
" " Eighth ".....		297 50
" " Ninth ".....		300 01
" " Eleventh ".....		104 75
" " Twelfth ".....		648 75
" " Twenty-second Regiment.....		677 13
" " Sixty-ninth ".....		235 00
" " Seventy-first ".....		235 25

#### Lamps and Gas and Electric Lighting—

Lighting Brigade Headquarters.....	\$18 50
" Brown-stone Building.....	218 25
" City Hall.....	391 63
" City Record Bookbindery.....	4 62
" County Jail.....	302 50
" Court, Civil, First District.....	4 25
" " Second ".....	21 12
" " Fourth ".....	13 00
" " Fifth ".....	53 00
" " Sixth ".....	2 25
" " Eighth ".....	75 15
" " Ninth ".....	14 13
" " Tenth ".....	2 40
" Court, Police, First.....	355 50
" " Second.....	114 75
" " Third.....	32 00
" " Fourth.....	90 25
" " Fifth.....	10 63
" Court of Special Sessions.....	40 25
" Court-house, Third District (clock).....	80 00
" County.....	1,156 74
" Department of Public Works.....	349 24
" Taxes and Assessments.....	9 50
" Dog Pound.....	3 13
" Engine, High Bridge.....	88 50
" " Ninety-eighth street.....	172 63
" Market, Catharine.....	52 62
" " Centre.....	102 50
" " Clinton.....	226 63
" " Essex.....	21 00
" " Fulton.....	803 37
" " Jefferson.....	181 75
" " Tompkins.....	157 50
" " Union.....	5 62
" " Washington.....	842 50
" Office, Corporation Attorney.....	60 26
" " Corporation Counsel.....	20 12
" " Photometrical.....	29 37
" " Register.....	99 25
" Rivington Street Yard.....	3 25
" Twenty-fourth Street Yard.....	3 62
" Repair Shop, Thirtieth street.....	9 63
" " Eighty-seventh street.....	3 62
" " One Hundred and Twenty-ninth street.....	14 13
" Office of Public Administrator.....	38
" South Gate-house.....	50 00
" Streets, Brush Electric Illuminating Co.....	5,453 00
" " United States Illuminating Co.....	10,911 10
" " East River Electric Light Co.....	1,708 67
" " Harlem Lighting Co.....	1,817 66
" " North New York Lighting Co.....	634 40
" " Mount Morris Electric Light Co.....	430 00
" " Central Gas-light Co.....	16,201 33
" " Consolidated Gas Co.....	75,001 25
" " Equitable Gas-light Co.....	5,799 42
" " New York Mutual Gas-light Co.....	765 20
" " New York and New Jersey Globe Gas-light Co.....	749 19
" " Northern Gas-light Co.....	13,552 36
" " Yonkers Gas-light Co.....	3,043 09
" Rent of Photometrical rooms.....	240 00
Total.....	\$150,878 18
Laying Croton Pipes—	
Horse-hire.....	\$336 00
Pay-rolls.....	3,770 00
Traveling expenses.....	7 25
Thirty-seventh street, between Eleventh avenue and North river.....	254 80
Thirtieth street, between First avenue and East river.....	182 25
Eighty-third street, between Avenues A and B.....	341 40
Ninety-eighth street, between First and Second avenues.....	368 15
One Hundred and Second street, between First avenue and East river.....	454 10
Tenth, Fourth, West End and Westchester avenues, etc.....	7,560 60
Total.....	\$13,274 55
Laying Croton Pipes, 1887—	
Cast-iron pipe.....	\$9,276 55
Building foundation of house for storage of coal.....	7,137 89
Total.....	\$16,414 44
Laying Croton Pipes, 1886—	
Broadway, Tenth, Ninth, Eighth, Sixth, Fourth and Riverside avenues, etc.....	\$356 07
Public Buildings—Construction and Repairs—	
Armory, Second Battery.....	\$3,078 25
" " Seventh Regiment.....	231 65
" " Eighth ".....	514 50
" " Eleventh ".....	473 88
" " Twelfth ".....	1,020 06
" " Sixty-ninth ".....	227 18
" " Seventy-first ".....	267 80
Brown-stone Building.....	1,729 16
Bureau Repairs and Supplies.....	754 00
City Hall.....	9,809 52
" " Prison.....	79 39
Cooper Union.....	557 66
Court, Civil, First District.....	17 95
" " Second ".....	5 00

## Public Buildings—Construction and Repairs—

Court, Civil, Fourth District	\$17 40
" " Fifth " "	666 47
" " Tenth " "	32 05
" Police, First " "	14 75
" " Third " "	91 90
Court-house, Third " "	336 91
" " Seventh " "	102 90
" " County " "	2,371 71
County Jail	130 65
Dog Pound	267 56
Hall of Records	180 21
Market, Catharine	927 68
" Centre	645 72
" Clinton	604 50
" Essex	57 38
" Fulton	390 85
" Jefferson	37 87
" Tompkins	1,611 87
" Union	47 21
" Washington	384 45
Old Arsenal Building	578 30
Repair Shop, Eighth-seventh street	1,029 90
" One Hundred and Nineteenth street	76 00
Staats Zeitung Building	17 40
Stewart Building	72 60
No. 5 Duane street	36 06
No. 31 Chambers street	693 39
Pay-rolls	1,554 00
Traveling expenses	35 35
Total	\$31,928 45

## Public Buildings—Construction and Repairs, 1887—

Armory, Ninth Regiment	\$602 98
" " Sixty-ninth " "	299 45
Market, Fulton	130 79
Total	\$1,033 22

## Public Drinking-hydrants—

Repairing hydrants	\$683 97
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## Public Drinking-hydrants, 1887—

Man and beast hydrants	\$490 00
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## Removing Obstructions in Streets and Avenues—

Pay-rolls	\$336 12
Removing obstructions	1,928 40
" trees	500 50
Traveling expenses	188 00
Total	\$3,023 02

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

Atlas	\$50 00
Cement	42 00
Coke, etc.	88 75
Damages	478 83
Gas-fixtures	36 60
Lead	1,075 27
Lumber	100 74
Hydrants, etc.	1,758 21
Meter supplies	120 22
Paints, etc.	44 68
Pay-rolls	39,391 46
Placing, etc., meters	437 61
Relaying mains	2,134 56
Supplies	573 81
Stone	125 00
Tapping cocks	1,375 00
Telephone service	169 90
Traveling expenses	76 26
Total	\$48,078 90

## Repairing and Renewal of Pipes, Stop-cocks, etc., 1887—

Cast-iron pipe	\$2,027 31
Drilling braces and machines	1,276 11
Hydrants	742 50
Ice	20 00
Relaying main	1,821 65
Stone	104 75
Total	\$5,992 32

## Repairs and Renewal of Pavements and Regrading—

Carriage	\$450 00
Cement, sand and gravel	1,804 78
Cutting, etc., paving-blocks	525 00
Horse-hire	480 00
Pay-rolls	63,391 23
Repairing pavement	2,226 64
" rollers	259 00
" tools	123 55
Rent of Yard	62 50
Stone	1,257 21
Tools and supplies	558 50
Traveling expenses	81 40
Total	\$71,288 81

## Repairs and Renewal of Pavements and Regrading, 1887—

Relaying pavement	\$12,685 92
Rent of Yard	125 00
Total	\$12,810 92

## Repaving Streets and Avenues—

Stanton street, between Bowery and Clinton street	\$4,568 20
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## Repaving Streets and Avenues, 1887—

Bank street, between Hudson and Washington streets	\$367 30
Cherry street, between Catharine and Jefferson streets	862 89
Crosby street, between Howard and Bleeker streets	5,056 80
Gay and Pitt streets	152 37
Pitt street, between Stanton and Division streets	409 80
Wooster street, between Canal and Bleeker streets	725 75
Wooster street, between Bleeker and West Fourth streets	198 90
Fifteenth street, from 225 feet east of Avenue A to East river	731 87
Thirty-eighth street, between Eighth and Tenth avenues	538 13
Seventy-second street, between Fourth and Fifth avenues	443 40
One Hundred and Tenth street, between First and Fifth avenues	1,030 20
Ninth avenue, between Gansevoort and Fourteenth streets	386 50
Tenth avenue, between Greenwich avenue and West street	707 30
Tenth avenue, between Sixty-fourth and Seventy-first streets	1,098 96
Total	\$12,710 17

## Repaving Streets and Avenues, 1886—

William street, between Duane and North William streets	\$88 60
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## Roads, Streets and Avenues Unpaved, etc.—

Pay-rolls	\$5,331 75
Sewers—Repairing and Cleaning—	
Basin-heads	
Building manholes	\$3,465 00
Brick, cement, etc.	1,906 89
Cleaning and repairing sewers	501 00
Horse-hire	15,881 72
Insurance map	507 00
Lumber	52 00
Manhole heads and covers	227 50
Pay-rolls	780 56
Pipe, etc.	22,066 12
Repairing tools, etc.	1,963 88
Setting basin-heads	56 30
Stone	398 89
Tools and supplies	163 80
Traveling expenses	289 05
Total	\$48,602 31

## Sewers—Repairing and Cleaning, 1887—

Repairing sewers	\$3,149 10
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## Street Improvements—For Surveying, Monumenting, etc.—

Insurance map	\$52 00
Pay-rolls	269 50
Total	\$321 50

## Supplies for and Cleaning Public Offices—

Armory, Second Battery	
Bureau of Repairs and Supplies	\$55 00
City Hall	3,289 16
Civil Service Board	310 00
Court of Common Pleas	1,921 83
Court, City	72 75
" General Sessions	32 42
" Civil, Second District	269 10
" " Fifth " "	36 00
" " Eleventh " "	118 24
" Police, Third " "	8 00
Department of Public Works	24 75
" Taxes and Assessments	209 25
Dog Pound	29 00
Office, Commissioners of Accounts	9 00
" Comptroller	75 90
" Corporation Counsel	34 55
" District Attorney	36 64
" Mayor	1,003 40
" Recorder	547 91
" Register	67 60
" Surrogate	200 00
Coal	426 97
Pay-rolls	5,669 81
Total	\$17,676 50

## Supplies for and Cleaning Public Offices, etc., 1887—

Surrogate's Office	\$115 00
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## Water Supply for the Twenty-fourth Ward—

Supply of water	\$1,289 34
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## Wells and Pumps—Repairing and Cleaning—

Repairing pumps	\$22 35
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## Real Estate Expenses—Finance Department—

Building drain and cesspool	\$233 32
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## RECAPITULATION OF APPROPRIATIONS.

Aqueduct—Repairs, Maintenance and Strengthening	\$48,571 89
Aqueduct—Repairs, Maintenance and Strengthening, 1887	4,979 68
Aqueduct—Repairs, Maintenance and Strengthening—Salaries	6,549 84
Boring Examinations for Grading and Sewer Contracts	1,203 50
Boulevards, Roads and Avenues, Maintenance of	23,711 17
Boulevards, Roads and Avenues, Maintenance of—Salaries	749 97
Bronx River Works—Maintenance and Repairs	4,905 00
Bronx River Works—Maintenance and Repairs—Salaries	975 00
Contingencies—Department of Public Works	605 00
Contingencies—Department of Public Works, 1886	50 00
Flagging Sidewalks and Fencing Vacant Lots, etc.	227 50
Free Floating Baths	8,690 51
Free Floating Baths—Salaries	3,642 00
For Repairs to Seventh Regiment Armory Building, 1887	47 00
Lamps and Gas and Electric Lighting	150,878 18
Lamps and Gas and Electric Lighting—Salaries	1,624 95
Laying Croton Pipes	13,274 55
Laying Croton Pipes, 1887	10,414 44
Laying Croton Pipes, 1886	356 07
Laying Croton Pipes—Salaries	3,767 98
Public Buildings—Construction and Repairs	31,928 45
Public Buildings—Construction and Repairs, 1887	1,033 22
Public Drinking-hydrants	683 97
Public Drinking-hydrants, 1887	490 00
Public Drinking-hydrants—Salaries	300 00
Removing Obstructions in Streets and Avenues	3,023 02
Removing Obstructions in Streets and Avenues—Salaries	1,732 49
Repairing and Renewal of Pipes, Stop-cocks, etc.	48,078 90
Repairing and Renewal of Pipes, Stop-cocks, etc., 1887	5,992 32
Repairs and Renewal of Pavements and Regrading	71,288 81
Repairs and Renewal of Pavements and Regrading, 1887	12,810 92
Repairs and Renewal of Pavements and Regrading—Salaries	3,755 48
Repaving Streets and Avenues	4,568 20
Repaving Streets and Avenues, 1887	12,710 17
Repaving Streets and Avenues, 1886	88 60
Repaving Streets and Avenues—Salaries	2,910 66
Roads, Streets and Avenues Unpaved, etc.	5,331 75
Salaries—Department of Public Works	24,752 44
Salaries of Engineer, Clerks, Inspectors and Measurers, etc.	11,780 35
Sewers—Repairing and Cleaning	48,602 31
Sewers—Repairing and Cleaning, 1887	3,149 10
Sewers—Repairing and Cleaning—Salaries	2,476 66
Sewerage System—Salaries	3,737 95
Street Improvements—For Surveying, etc.	321 50
Supplies for and Cleaning Public Offices, etc.	32,183 78
Supplies for and Cleaning Public Offices, etc., 1887	115 00
Supplies for and Cleaning Public Offices, etc.—Salaries	4,937 37
Surveys, Maps, etc., for Street Openings, etc.—Salaries	1,575 00
Supplying Water to Shipping, etc.—Salaries	2,419 98
Water Supply for the Twenty-fourth Ward	1,289 34
Water Supply for the Twenty-fourth Ward—Salaries	300 00
Wells and Pumps—Repairing and Cleaning	22 35
Real Estate Expenses—Finance Department	233 32
Total	\$635,907 64

## TRUST ACCOUNTS.

## CROTON WATER FUND.

Clerical services.....	\$907 90
Expert services.....	358 50
Horse-hire.....	300 50
Making map.....	200 00
Official searches.....	983 40
Pay-rolls.....	15,174 36
Printing, etc.....	883 58
Rent of mill seat.....	300 00
Rent of offices.....	720 80
Repairing instruments.....	32 25
Reservoir at Williamsbridge.....	4,590 00
Traveling expenses.....	503 49
Total.....	\$24,954 78

## FUND FOR LOCAL IMPROVEMENTS.

Regulating, Grading, etc.—	
One Hundred and Fourteenth street, between Fourth and Eighth avenues.....	\$864 75

## LOCAL IMPROVEMENT FUND.

Regulating, Grading, etc.—	
Ninety-third street, between West End avenue and Riverside Drive.....	\$139 40
Ninety-fourth street, between Boulevard and Riverside Drive.....	257 50
One Hundred and Thirty-second street, between Tenth avenue and Broadway.....	132 50
Fort Washington Kidge road.....	1,440 00
Pay-rolls.....	303 00
Total.....	\$2,281 40

## STREET IMPROVEMENT FUND.

Setting Curb, Flagging, etc.—	
Coenties Slip, between Front and South streets.....	\$57 50
Madison avenue, west side, between One Hundred and Twenty-seventh and One Hundred and Twenty-eighth streets.....	654 08
Manhattan avenue, east side, between One Hundred and Twentieth and One Hundred and Twenty-third streets.....	181 25
West End avenue, at Seventy-second, Seventy-third, Seventy-fourth streets, etc.....	106 33
Southeast corner of Lexington avenue and One Hundred and Twenty-seventh street.....	212 53
Northeast corner of Ninth avenue and Ninety-second street.....	292 84
Fifth street, between Lewis street and East river.....	128 50
Fourteenth street, south side, between Avenues B and C.....	759 00
Thirtieth street, north side, 100 feet west of Ninth avenue.....	257 60
Seventieth street, between Eighth and Ninth avenues.....	122 48
Seventy-first street, 100 feet east of Second avenue.....	149 00
Ninetieth street, between Eighth and Ninth avenues.....	181 25
One Hundred and Tenth street, south side, between Madison and Fifth avenues.....	738 52
One Hundred and Seventeenth street, south side, between Eighth and St. Nicholas avenues.....	152 37
One Hundred and Twenty-second street, between New and Sixth avenues.....	100 00
One Hundred and Fifty-first street, between St. Nicholas avenue and Boulevard.....	277 80
Fourth avenue, east side, between One Hundred and Twenty-fourth and One Hundred and Twenty-fifth streets.....	115 80
Ninth avenue, east side, between Eighty-first and Eighty-second streets.....	606 17
Tenth avenue, east side, between Sixty-first and Sixty-second streets.....	462 86
Surveying.....	284 47
Total.....	\$5,840 35

## Fencing Vacant Lots—

Northeast corner of Seventh avenue and One Hundred and Twenty-third street.....	\$112 66
Southeast corner of One Hundred and Sixteenth street and Manhattan avenue.....	139 50
Fifth and Lenox avenues, One Hundred and Twenty-eighth and One Hundred and Twenty-ninth streets.....	77 15
Ninety-third and Ninety-fourth streets, Eighth and Ninth avenues.....	714 46
Ninety-sixth street, between Eighth and Ninth avenues.....	617 21
Seventy-eighth and Seventy-ninth streets, Ninth and Tenth avenues.....	126 50
One Hundred and Sixth and One Hundred and Seventh streets, Boulevard and Tenth avenue.....	483 00
One Hundred and Sixth and One Hundred and Seventh streets, Manhattan and Ninth avenues.....	573 95
One Hundred and Seventh and One Hundred and Eighth streets, Tenth avenue and Boulevard.....	598 00
One Hundred and Thirtieth and One Hundred and Fourteenth streets, Madison and Fifth avenues.....	401 00
One Hundred and Fourteenth and One Hundred and Fifteenth streets, Madison and Fifth avenues.....	97 20
Surveying.....	479 20
Total.....	4,419 83

## Paving and Crosswalks—

Pay-rolls.....	\$3,370 50
Surveying.....	3,567 16
Canal street, at west side of Chrystie street.....	81 39
Edgecomb avenue, between One Hundred and Thirty-fifth and One Hundred and Thirty-seventh streets.....	3,912 87
Lexington avenue, between Ninety-fifth and Ninety-seventh streets.....	6,995 87
Madison avenue, between One Hundred and Twentieth and One Hundred and Twenty-first streets.....	3,910 32
Madison avenue, between One Hundred and Third and One Hundred and Fifth streets.....	4,708 14
Madison avenue, between One Hundred and Thirty-third and One Hundred and Thirty-seventh streets.....	491 00
Manhattan avenue, between One Hundred and Fifth and One Hundred and Sixth streets.....	100 80
Washington street, between Little West Twelfth and Fourteenth streets.....	215 80
Ninth avenue, between Seventy-seventh and One Hundred and Tenth streets.....	5,596 50
Tenth avenue and One Hundred and Thirteenth street.....	45 15
Tenth avenue, between One Hundred and Fifty-fifth and One Hundred and Sixty-fifth streets.....	101 80
Tenth avenue, at One Hundred and Forty-first street.....	19 01
Forty-second street, at west side of Vanderbilt avenue.....	111 02
Eighty-fourth street, between One Hundred and Forty-fifth and One Hundred and Fifty-ninth streets.....	23,002 00
Sixty-fourth street, between First avenue and East river.....	8,536 22
Sixty-fifth street, between Tenth and Eleventh avenues.....	6,508 02
Sixty-seventh street, between Tenth and Eleventh avenues.....	269 50
Sixty-seventh street, between Second and Third avenues.....	207 50
Sixty-eighth street, between Eighth avenue and Boulevard.....	403 63
Sixty-eighth street, between Tenth and Eleventh avenues.....	272 00
Seventy-first street, between Eastern Boulevard and East river.....	237 41
Seventy-first street, between Boulevard and West End avenue.....	6,126 03
Seventy-third street, between Avenue A and First avenue.....	212 30
Seventy-fourth street, between Boulevard and Eleventh avenue.....	187 13
Seventy-fourth street, between Ninth and Tenth avenues.....	275 10
Seventy-seventh street, between Ninth avenue and Boulevard.....	8,962 62
Eightieth street, between Ninth and Tenth avenues.....	271 38
Eighty-first street, between Avenues A and B.....	223 20
Eighty-first street, between Eighth and Ninth avenues.....	550 10
Eighty-third street, between Boulevard and Riverside Drive.....	294 20
Eighty-fourth street, between Avenues A and B.....	217 84
Eighty-fifth street, between Avenues A and B.....	224 20

## Paving and Crosswalks—

Eighty-fifth street, between Eighth and Ninth avenues.....	\$273 50
Eighty-fifth street, between Ninth and Tenth avenues.....	6,587 24
Eighty-sixth street, between Eighth avenue and Riverside Drive.....	26,850 01
Eighty-seventh street, between Madison and Park avenues.....	138 00
Eighty-ninth street, between First and Second avenues.....	5,078 00
Ninetieth street, between Eighth and Ninth avenues.....	1,858 92
Ninetieth street, between Second and Third avenues.....	5,017 95
Ninety-first street, between First avenue and Avenue A.....	4,737 49
Ninety-first street, between Fourth and Fifth avenues.....	307 60
Ninety-fourth street, between Ninth and Tenth avenues.....	270 90
Ninety-fifth street, between Ninth and Tenth avenues.....	271 00
Ninety-fifth street, between Second and Third avenues.....	209 63
Ninety-sixth street, between Third and Lexington avenues.....	294 60
Ninety-sixth street, between First and Third avenues.....	841 90
Ninety-seventh street, between Eighth and Ninth avenues.....	271 70
Ninety-seventh street, between Ninth and Tenth avenues.....	6,732 96
Ninety-seventh street, between Third and Fourth avenues.....	6,852 02
Ninety-ninth street, between Ninth and Tenth avenues.....	271 80
Ninety-ninth street, between Boulevard and Tenth avenue.....	116 60
One Hundredth street, between Second and Third avenues.....	5,020 53
One Hundred and Third street, between Ninth and Tenth avenues.....	6,043 66
One Hundred and Second street, between Lexington and Fifth avenues.....	468 50
One Hundred and Fifth street, between First avenue and Harlem river.....	280 71
One Hundred and Seventh street, between Lexington and Fourth avenues.....	136 20
One Hundred and Eleventh street, between Madison and Fifth avenues.....	3,378 40
One Hundred and Sixteenth street, between Seventh and Eighth avenues.....	518 10
One Hundred and Sixteenth street, between Eighth and Ninth avenues.....	9,191 00
One Hundred and Eighteenth street, between Sixth and Seventh avenues.....	268 50
One Hundred and Twenty-first street, between Sixth and Seventh avenues.....	265 50
One Hundred and Twenty-third street, between Eighth and Tenth avenues.....	522 30
One Hundred and Twenty-fifth street, between Avenue St. Nicholas and St. Nicholas place.....	273 60
One Hundred and Twenty-sixth street, at west side of St. Nicholas avenue.....	8 55
One Hundred and Twenty-seventh street, between Eighth and St. Nicholas avenues.....	112 50
One Hundred and Twenty-ninth street, between Eighth and St. Nicholas avenues.....	85 30
One Hundred and Thirty-first street, between Sixth and Seventh avenues.....	267 60
One Hundred and Thirty-second street, between Madison and Fifth avenues.....	146 89
One Hundred and Thirty-second street, between Sixth and Seventh avenues.....	262 60
One Hundred and Thirty-third street, between Sixth and Seventh avenues.....	6,268 50
One Hundred and Thirty-fifth street, between Eighth and St. Nicholas avenues.....	257 13
One Hundred and Thirty-fifth street, between Seventh and Eighth avenues.....	538 60
One Hundred and Thirty-sixth street, between Eighth and St. Nicholas avenues.....	122 57
One Hundred and Thirty-seventh street, between Eighth and St. Nicholas avenues.....	161 30
One Hundred and Forty-first street, between St. Nicholas and Tenth avenues.....	9,067 89
One Hundred and Thirty-fourth street, between Seventh and Eighth avenues.....	268 30
One Hundred and Fourth street, between Seventh and St. Nicholas avenues.....	277 55
Total.....	\$202,002 10

## Regulating, Grading, etc.—

Claremont avenue, between One Hundred and Sixteenth and One Hundred and Twenty-second streets.....	\$385 00
Edgecomb avenue, between One Hundred and Thirty-seventh and One Hundred and Fortieth streets.....	187 38
Edgecomb avenue, between One Hundred and Forty-fifth street and St. Nicholas place.....	15,484 00
Hamilton place, between Boulevard and Tenth avenue.....	2,044 14
Kingsbridge road, between One Hundred and Ninetieth street and Harlem river.....	4,812 50
Manhattan avenue, between One Hundred and Thirtieth and One Hundred and Sixteenth streets.....	1,843 12
First new avenue, between One Hundred and Forty-fourth and One Hundred and Forty-fifth streets.....	3,048 00
Forty-ninth street, between First avenue and Beekman place.....	1,359 33
Sixty-third street, between Tenth and Eleventh avenues.....	2,072 00
Sixty-fifth street, between First avenue and East river.....	163 25
Sixty-fifth street, between Tenth and Eleventh avenues.....	210 00
Seventy-seventh street, between Boulevard and Riverside Drive.....	220 00
Eighty-first street, between Avenues A and B.....	171 50
Eighty-sixth street, between Ninth avenue and Riverside Drive.....	667 11
Eighty-seventh street, between Boulevard and West End avenue.....	80 71
Eighty-ninth street, between Boulevard and Riverside Drive.....	253 89
Ninetieth street, between First avenue and Avenue A.....	67 50
Ninetieth street, between Ninth and Tenth avenues.....	200 00
Ninetieth street, between Boulevard and Riverside Drive.....	214 08
Ninety-first street, between Ninth and Tenth avenues.....	1,515 39
Ninety-first street, between Eighth and Ninth avenues.....	200 00
Ninety-fifth street, between Eighth and Ninth avenues.....	210 00
One Hundred and Second street, between Eighth and Ninth avenues.....	200 00
One Hundred and Second street, between Ninth and Riverside avenues.....	2,617 30
One Hundred and Third street, between Eighth and Ninth avenues.....	200 00
One Hundred and Seventh street, between Eighth and Ninth avenues.....	4,155 94
One Hundred and Twelfth street, between Eighth and Ninth avenues.....	103 25
One Hundred and Thirteenth street, between Eighth and New avenues.....	103 50
One Hundred and Fourteenth street, between Tenth avenue and Riverside Drive.....	350 50
One Hundred and Fourteenth street, between Eighth and Ninth avenues.....	2,355 92
One Hundred and Fifteenth street, between Eighth and Ninth avenues.....	2,268 20
One Hundred and Eighteenth street, between Eighth and Ninth avenues.....	3,178 45
One Hundred and Twenty-first street, between Seventh and St. Nicholas avenues.....	181 08
One Hundred and Thirty-seventh street, between Tenth and Convent avenues.....	87 50
One Hundred and Fortieth street, between Eighth and Edgecomb avenues.....	97 00
One Hundred and Forty-second street, between Seventh and Eighth avenues.....	207 50
One Hundred and Forty-second street, between Boulevard and Hamilton place.....	153 75
One Hundred and Forty-third street, between Seventh and Eighth avenues.....	207 50
One Hundred and Forty-seventh street, between Eighth avenue and first new avenue west.....	56 25
One Hundred and Forty-eighth street, between Seventh and Eighth avenues.....	5,274 58
One Hundred and Fiftieth street, between Tenth and St. Nicholas avenues.....	1,944 74
One Hundred and Fifty-ninth street, between St. Nicholas avenue and Edgecomb road.....	1,921 50
One Hundred and Sixty-first street, between St. Nicholas and Tenth avenues.....	476 26
One Hundred and Sixty-fifth street, between Edgecomb road and Tenth avenue.....	110 50
Pay-rolls.....	5,418 50

Regulating, Grading, etc.—	
Protecting gas-mains.....	\$44 50
Surveying.....	2,400 51
	\$70,423 63
<b>Sewers and Basins—</b>	
Attorney street, between Broome and Delancey streets.....	\$157 00
Avenue B, between Fifth and Sixth streets.....	63 00
Avenue B, between Fifteenth and Sixteenth streets and between Seventeenth and Eighteenth streets.....	179 25
Avenue B, between Eighty-third and Eighty-fourth streets.....	629 75
Avenue St. Nicholas, between One Hundred and Twenty-sixth street and 469 feet north of One Hundred and Thirtieth street.....	1,512 97
Avenue St. Nicholas, east side, between One Hundred and Forty-first and One Hundred and Forty-fifth streets.....	283 50
Avenue St. Nicholas, between One Hundred and Sixty-second and One Hundred and Fifty-eighth streets.....	1,486 80
Birmingham street, between Henry and Madison streets.....	94 50
Bleecker street, between Christopher and West Tenth streets.....	71 00
Hudson street, west side, between Horatio and Gansevoort streets.....	87 50
East Gramercy place, between Twentieth and Twenty-first streets.....	71 00
Irving place, between Fifteenth and Sixteenth streets.....	103 50
Lexington avenue, between Eighty-ninth and Ninety-first streets.....	201 00
Lexington avenue, between One Hundred and Twenty-second and One Hundred and Twenty-third streets.....	43 05
Madison avenue, between Ninety-fourth and One Hundred and Third streets.....	3,089 90
Madison avenue, between One Hundred and Third and One Hundred and Fourth streets.....	1,786 40
Madison avenue, between One Hundred and Third and One Hundred and Fifth streets.....	104 37
Madison avenue, between One Hundred and Seventeenth and One Hundred and Nineteenth streets.....	140 10
Pleasant avenue, between One Hundred and Sixteenth and One Hundred and Seventeenth streets.....	1,069 05
Tompkins street, between Rivington and Delancey streets.....	1,262 24
West End avenue, between Sixty-fourth and Sixty-fifth streets.....	1,210 46
West End avenue, northeast and northwest corners of Seventy-second, Seventy-third, Seventy-fourth streets, etc.....	7 50
West End avenues, southeast corners of Ninety-second, Ninety-fourth, Ninety-sixth streets, etc.....	22 50
Northwest corner of One Hundred and Thirteenth street and Pleasant avenue.....	255 00
Northwest corner of One Hundred and Fifth street and Tenth avenue.....	2 70
Northeast corner of Sixty-fourth street and First avenue.....	282 25
Southwest corner of One Hundred and Fifteenth street and Fifth avenue.....	266 50
Southeast corner of One Hundred and Fifth street and Fourth avenue.....	255 63
Southeast corner of Twentieth street and Avenue B.....	6 00
Northeast corner of One Hundred and Twenty-second street and Seventh avenue.....	3 00
Northeast corner of Nineteenth street and Avenue B.....	6 30
Southeast corners of West End avenue, Seventy-ninth and Eightieth streets.....	35 00
Third avenue, between Twenty-first and Twenty-second streets.....	54 00
Fourth avenue, east side, between One Hundred and Sixteenth and One Hundred and Seventeenth streets.....	691 40
Fourth avenue, east side, between Ninety-sixth and One Hundred and Second streets.....	2,265 20
Fourth avenue, west side, between One Hundred and Twenty-first and One Hundred and Twenty-third streets.....	2,941 58
Eighth avenue, between One Hundred and Fifth and One Hundred and Fourteenth streets.....	3,156 16
Eighth avenue, between One Hundred and Sixteenth and One Hundred and Twenty-second streets.....	3,818 64
Eighth avenue, between One Hundred and Fifty-third street and Harlem river.....	407 62
Ninth avenue, between One Hundred and First and One Hundred and Fourth streets.....	3,039 40
Ninth avenue, east side, between One Hundred and Fifth and One Hundred and Sixth streets.....	51 50
Tenth avenue, west side, between One Hundred and Forty-first and One Hundred and Forty-second streets.....	229 50
Tenth avenue, west side, between Twenty-second and Twenty-third streets.....	95 80
Eleventh avenue, between Thirteenth and Fourteenth streets, etc.....	1,365 50
Eleventh avenue, east side, between One Hundred and Fifty-ninth and One Hundred and Sixty-first streets.....	1,487 24
Thirty-first street, between First avenue and East river.....	1,850 50
Forty-fourth street, between Sixth avenue and summit east.....	3,379 90
Fifty-third street, between Tenth and Eleventh avenues.....	1,445 50
Sixty-second street, between Tenth and Eleventh avenues.....	180 00
Sixty-fourth street, between Avenue A and East river.....	96 00
Sixty-fourth street, between Avenue A and First avenue.....	169 87
Seventy-second street, between Hudson river and Eleventh avenue.....	4,380 20
Seventy-third street, between Boulevard and summit west.....	1,096 04
Seventy-fifth street, between Avenue A and East river.....	2,282 00
Seventy-sixth street, between Avenue A and East river.....	205 50
Eighty-second street, between Boulevard and Riverside Drive.....	3,046 90
Eighty-eighth street, between Riverside and West End avenues.....	1,631 00
Ninety-first street, between Avenue A and First avenue.....	133 00
Ninety-first street, between Second and First avenues.....	2,942 80
One Hundred and Second street, between Ninth and Manhattan avenues.....	80 00
One Hundred and Third street, between Ninth and Manhattan avenues.....	80 00
One Hundred and Fourth street, between West End and Riverside avenues.....	72 25
One Hundred and Fifth street, between New avenue and summit west of Ninth avenue.....	1,194 06
One Hundred and Thirteenth street, between Boulevard and Riverside Drive.....	104 25
One Hundred and Fifteenth street, between Madison and Fifth avenues.....	1,751 70
One Hundred and Sixteenth street, between Fourth and Madison avenues.....	2,420 50
One Hundred and Eighteenth street, between Seventh and St. Nicholas avenues.....	69 75
One Hundred and Twenty-second street, between Ninth and Manhattan avenues.....	58 25
One Hundred and Thirty-first street, between Broadway and Tenth avenue.....	105 25
One Hundred and Thirty-sixth street, between Seventh and Sixth avenues.....	3,216 87
One Hundred and Fortieth street, between Seventh and Eighth avenues.....	175 00
One Hundred and Forty-second street, between Seventh and Eighth avenues.....	175 00
One Hundred and Forty-third street, between Boulevard and Diagonal avenue.....	367 50
One Hundred and Forty-eighth street, between Seventh and Eighth avenues.....	180 25
One Hundred and Fifty-third street, between McComb's Dam road and Eighth avenue.....	5,675 57
One Hundred and Fifty-eighth street, between Tenth and Eleventh avenues.....	2,270 00
Pay-rolls.....	23,072 02
Protecting gas-mains.....	235 11
	99,206 80
<b>Total.....</b>	<b>\$381,892 71</b>

<b>RESTORING AND REPAVING—SPECIAL FUND.</b>	
Pay-rolls.....	\$2,375 12
Restoring pavements.....	11,280 50
Sand.....	218 71
<b>Total.....</b>	<b>\$13,874 33</b>
<b>WATER-METER FUND, NO. 2.</b>	
Placing meters.....	\$1,225 33
Water-meters.....	2,152 15
<b>Total.....</b>	<b>\$3,377 48</b>
<b>GANSEVOORT MARKET BUILDING FUND.</b>	
Pay-rolls.....	\$351 00
Work on contract.....	64,071 00
<b>Total.....</b>	<b>\$64,422 00</b>
<b>RECAPITULATION OF FUNDS.</b>	
Croton Water Fund.....	\$24,954 78
Fund for Local Improvements.....	864 75
Local Improvement Fund.....	2,281 40
Street Improvement Fund.....	381,892 71
Gansevoort Market Building Fund.....	64,422 00
Restoring and Repaving—Special Fund.....	13,874 33
Water-meter Fund, No. 2.....	3,377 48
<b>Total.....</b>	<b>\$491,667 45</b>
<b>GENERAL SUMMARY.</b>	
Appropriations.....	\$635,907 64
Funds.....	491,667 45
<b>Total.....</b>	<b>\$1,127,575 09</b>

## Document "C."

## STATEMENT OF CONTRACTS.

Contracts Entered into during the Three Months ending June 30, 1888.

Date of Contract	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURITIES.	ESTIMATED COST.
<i>Sewer Contracts.</i>				
Apr. 23	Sewer in One Hundred and Twelfth street, between Tenth avenue and Boulevard, connecting with present sewer in Boulevard.....	John J. Montgomery, 722 East 143d street.	Robert Montgomery, 722 East 143d st.... John McQuade, 1338 Lexington ave..	\$3,649 50
" 23	Sewer in One Hundred and Seventeenth street, between Eighth and Ninth avenues, connecting with existing sewer in Manhattan avenue.....	Julius Figliuolo, 517 West 146th street.	P. J. Moran, 10th ave. and 125th st. A. Cuno, 28 Mulberry street..	1,603 68
" 26	Sewer in Tenth avenue, between Little West Twelfth and Thirtieth streets.....	Lawrence Rock, 459 West 40th street.	Patrick Reilly, 39 Sutton place.... Michael Phelan, 538 Tenth avenue....	1,511 00
" 26	Extension of sewer in Forty-third street, between First and Second avenues.....	Patrick Larney, 325 East 38th street..	Edward Mahon, 300 East 75th street. Robert Gordon, 230 East 42d street..	1,280 50
May 3	Sewer in South street, between Roosevelt street and Peck Slip, and connecting with existing sewers in Peck Slip and Dover street....	Patrick Kearns, 720 East 143d street.	Thomas Regan, 719 Alexander ave... Edward C. Sheehy, 8 West 125th street.	13,812 50
" 3	Alterations and repairs to sewer in Houston street, between Goerck and Mangin streets.....	Charles Fach, 1629 Avenue B.....	Gabriel Goldsmith, 412 East Houston st. Eiler Holch, 213 East 155th street.	1,091 75
" 3	Repairs to sewer in Sixth street, between Avenues B and C.....	Charles Fach, 1629 Avenue B.....	Gabriel Goldsmith, 412 East Houston st. Eiler Holch, 213 East 155th street.	2,603 00
" 3	Sewer in One Hundred and First street, between Fourth and Lexington avenues.....	Virgilio Del Genovese, 268 Bowery.....	E. Del Genovese, 354 Bowery..... William Bostelman, 102 West street....	4,445 00
" 18	Sewer in Lexington avenue, between Seventy-eighth and Seventy-ninth streets.....	John Connolly, 1158 Third avenue ..	Thomas Regan, 719 Lexington avenue Thomas Creamer, 476 West 125d street.	1,302 85
" 21	Sewer in One Hundred and Forty-second street, between Boulevard and Hamilton place.....	John Slattery, 868 Fourth avenue..	Andrew J. Kernin, 82 East 92d street... Thomas F. Leamy, 602 Lexington avenue	4,312 50
June 11	Sewers in One Hundred and Eighty-seventh street, between Eighth and Ninth avenues.....	George F. Masterson, 1905 Madison avenue	Charles Jones, 257 Alexander ave... Edward C. Sheehy, 8 West 125th street..	1,923 65
" 11	Sewer in One Hundred and Fifteenth street, between Eighth and Manhattan avenues, and between Manhattan avenue and avenue east of Morningside Park.....	George F. Masterson, 1905 Madison avenue	Charles Jones, 257 Alexander ave... Edward C. Sheehy, 8 West 125th street..	2,569 40
" 25	Sewer in Eighty-ninth street, between West End avenue and Boulevard.....	Patrick C. Jackman, 66 West 106th street.	John Brosen, 408 West 56th street John Coyle, 51 West 106th street.	2,559 75
" 28	Extension of sewer in Warren street, between West and Greenwich streets.....	Charles Fach, 1629 Avenue B.....	Eiler Holch, 213 East 155th street. Jacob Fach, 1629 Avenue B.....	1,464 70
<i>Regulating and Grading Contracts.</i>				
Apr. 25	Regulating and grading One Hundred and Ninth street, from Eighth to Manhattan avenue....	John J. Farley, 1990 Madison avenue	Patrick Farley, 1990 Madison avenue John T. Farley, 2164 Ninth avenue..	\$4,084 08
May 12	Regulating and grading Manhattan avenue, from One Hundred to One Hundred and Fifth street....	Patrick McInerney, 214 East 83th street.	Charles McGinnis, 127 Broome street, John Fleming, 211 East 83d street..	3,891 20
" 14	Regulating and grading One Hundred and Eighth street, from Boulevard to Riverside Drive....	Benjamin J. Carr, Jr., Ogden avenue, High Bridge.....	William H. Carr, Ogden avenue, High Bridge.....	1,548 80
" 17	Regulating and grading One Hundred and Fortieth street, from Tenth avenue to Boulevard.....	Maicho Fortunato, 163d street and Edgecomb avenue.....	Matthew Kyle, High Bridge..... William Bostelman, 102 West street....	8,728 95
June 11	Regulating and grading Ninety-second street, from Boulevard to Riverside Drive.....	John J. Farley, 1990 Madison avenue.	Lawrence Kelly, 155 East 122th street. Patrick Farley, 1990 Madison avenue.	40,018 36
" 19	Flagging sidewalk on block bounded by Centre, White, Elm and Franklin streets.....	P. H. Kernin, 802 Eleventh avenue.	John F. Farley, 103 West 70th street. Patrick McManus, 161 East 57th street..	3,551 50
" 25	Flagging, etc., on east side of Tenth avenue, between Sixty-fifth and Sixty-sixth streets, Sixty-seventh and Seventieth streets, and Seventy-second and Seventy-third streets, Seventy-fourth and Seventy-fifth streets, Seventy-sixth and Seventy-seventh streets, Seventy-eighth and Seventy-ninth streets, and on west side Tenth avenue, between Sixty-sixth and Seventy-first streets, and Seventy-sixth and Seventy-ninth streets.....	Gallagher & Darcy, 416 East 79th street.	Thomas Smith, 172 East 8th street. Edward McGuinness, 220 East 8th street..	3,886 00

Date of Contract.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.	Date of Contract.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.					
June 28	Regulating and grading One Hundred and Eighth street, from Ninth avenue to Boulevard.....	James Slattery, 218 West 57th street.	James Rozell, 238 West 38th street. John G. Smith, 329 West 48th street.	\$6,136 90 \$71,845 79	June 4	Taking up and relaying the pavement in Twenty-eighth street, between Fifth and Madison avenues; Twenty-eighth street, between Fourth and Madison avenues; Thirty-first street, between Third and Lexington avenues; Thirty-second street, between Second and Third avenues; Thirty-fourth street, between Fifth and Madison avenues; Thirty-fourth street, between Fourth and Madison avenues; Forty-fifth street, between Second and Third avenues; Forty-sixth street, between Second and Third avenues; Forty-ninth street, between Lexington and Third avenues; Forty-ninth street, between First and Second avenues; Fifty-fifth street, between Fifth and Madison avenues; Fifty-fifth street, between Fourth and Lexington avenues; and Fifty-sixth street, between Fourth and Lexington avenues....	James Quinn, 1483 Avenue A. ....	Thomas Hagan, 337 East 123d street. John McLaughlin, 346 East 81st street..	\$17,018 95					
Paving Contracts.														
April 5	Paving with trap-block pavement Seventy-fifth street, from Boulevard to West End avenue.....	P. H. Fitzgerald, 428 West 35th street.	Michael Phelen, 538 Tenth avenue... John Cummings, 532 West 40th street.	\$4,110 20	" 11	Taking up and relaying the pavement in Warren street, between Church and Greenwich streets; Barclay street, between College place and Washington street; John street, between Broadway and Pearl street; Bayard street, between Bowery and Elizabeth street; Catharine street, between Madison and South streets; Chrystie street, between Hester and Canal streets; Mulberry street, between Houston and Bleeker streets; and Eleventh street, between Broadway and University place..	Matthew Baird, 339 East 63d street..	James Everard, Worth House..... Thomas McManus, 709 Lexington ave....	8,912 90					
" 5	Paving with trap-block pavement One Hundred and Twelfth street, from Eighth to New avenue (now Manhattan avenue).....	P. H. Fitzgerald, 428 West 35th street.	Michael Phelen, 538 Tenth avenue... John Cummings, 532 West 40th street.	3,397 70										
" 5	Paving with trap-block pavement Seventy-sixth street, from Avenue A to Avenue B.....	Matthew Baird, 339 East 63d street..	James Baird, 310 East 57th street. Charles R. Parfitt, 665 Lexington ave..	7,904 20										
" 5	Paving with trap-block pavement Madison avenue, from One Hundred and Third to One Hundred and Fifth street.....	Matthew Baird, 339 East 63d street..	James Baird, 310 East 57th street. Charles R. Parfitt, 665 Lexington ave..	5,248 52										
" 11	Paving with granite-block pavement One Hundred and Twenty-second street, from Fourth to Madison avenue.....	John B. Devlin, 8 Henderson place..	William Bostelmann, 146 Liberty street..	3,635 91										
" 11	Paving with granite-block pavement One Hundred and Thirty-second street, from Fourth to Madison avenue.....	John B. Devlin, 8 Henderson place..	Thomas E. Crimmins, 1243 Third avenue..	3,589 00										
" 11	Paving with granite-block pavement One Hundred and Forty-first street, from Avenue St. Nicholas to Tenth avenue.....	John B. Devlin, 8 Henderson place..	William Bostelmann, 146 Liberty street..	9,049 29										
" 11	Paving with granite-block pavement One Hundred and Third street, from Ninth to Tenth avenue....	Charles Guidet, 41 Park avenue.....	Thomas E. Crimmins, 1243 Third avenue..	7,040 05										
" 11	Paving with granite-block pavement Ninetieth street, from Second to Third avenue.....	Charles Guidet, 41 Park avenue.....	James Everard, Worth House.....	5,367 61										
May 5	Paving with granite-block pavement One Hundred and Sixteenth street, from Eighth to Ninth avenue.....	William A. Cumming, 5 Dey street.....	Richard W. Buckley, 58 East Seventy-third street.....	14,426 44										
" 16	Paving with granite-block pavement One Hundred and Thirty-fifth street, from Madison to Seventh avenue.....	Matthew Baird, 339 East 63d street.	Alex. Milne, Stamford, Conn....	35,804 80										
" 28	Paving with Trinidad asphalt pavement, Madison avenue, from Twenty-third to Thirty-second street.....	Barber Asphalt Paving Co., 1 Broadway.....	James Baird, 310 East 57th street. Charles R. Parfitt, 665 Lexington ave..	40,173 00										
" 21	Paving with granite-block pavement Ninety-first street, from Eighth to Ninth avenue.....	John B. Devlin, 8 Henderson place..	James M. Cummings, 18 St. Nicholas place. James D. Leary, 43 East 25th street..	7,299 81										
June 15	Paving with granite-block pavement 94th street, from Eighth to Ninth avenue.....	P. H. McCullagh, 240 East 32d street..	Charles Jones, 257 Alexander ave..	6,725 77										
" 15	Paving with trap-block pavement One Hundred and Fourth street, from Eighth to Ninth avenue....	Thomas Gearty, 135 East 63d street..	Thomas E. Crimmins, 1243 Third avenue..	6,479 84										
" 18	Paving, etc., with granite-block pavement, Seventy-seventh street, between Eighth and Ninth avenues	William Kelly, 460 West 51st street.	Thomas Gearty, 135 East 63d street..	13,851 40										
" 18	Paving with granite-block pavement Manhattan avenue, from One Hundred and Sixteenth street to its termination at St. Nicholas avenue, between One Hundred and Twenty-third and One Hundred and Twenty-fourth streets....	George F. Doak, 10th avenue and 153d street.....	Thomas Gearty, 135 East 63d street..	22,655 40										
" 29	Paving with macadam pavement St. Nicholas avenue, from One Hundred and Fifty-fifth street to its intersection with Tenth avenue, and Kingsbridge road, from its intersection with Tenth avenue to One Hundred and Ninetieth street	Doak & Beck, 10th avenue and 153d street.....	Timothy Dwyer, 404 East 66th street. P. H. McCullagh, 240 East 32d street..	100,345 00										
				\$207,103 94	Apr. 19	Laying water-mains in Morris, Anthony and Fifth avenues, and in Ash, Berry, Bush, Buckhout and One Hundred and Seventy-seventh streets.....	G. M. Dean, 58 West 127th street.	Jacob Ebling, 176 East 128th street William E. Dean, 58 West 127th street.	\$18,870 00					
Paving Contracts, under Section 321, New York City Consolidation Act of 1882.														
May 11	Paving with granite-block pavement Orchard street, from Division to Houston street.....	James Pollock, 339 East 28th street.	Louis D. Beck, Astor House.....	\$10,611 00										
" 11	Paving with granite-block pavement Stanton street, from Bowery to Clinton street.....	P. H. McCullagh, 240 East 32d street..	Ransom Parker, Jr., 224 West 11th street	15,433 10										
" 16	Paving with trap-block pavement Twenty-first street, from Eighth to Tenth avenue.....	P. H. Fitzgerald, 428 West 35th street.	Daniel D. Wylie, 697 Madison avenue	11,565 90										
" 18	Paving with granite-block pavement First street, from Bowery to Avenue B.....	John G. Smith, 329 West 48th street.	William Whitehead, 28 Edgecomb ave....	14,778 00										
" 21	Paving with granite-block pavement Third street, from Bowery to Avenue B.....	William Kelly, 460 West 51st street.	James Fitzpatrick, 529 West 42d street.	20,112 00										
				\$81,500 00										
Taking Up and Relaying Pavement Contracts.														
Apr. 23	Taking up and relaying pavement in Thirteenth avenue, from Horatio to Little West Twelfth street; Gansevoort street, from West street to Thirteenth avenue; and Bloomfield street, from Tenth to Thirteenth avenue.....	P. H. Fitzgerald, 428 West 35th street.	Michael Phelen, 538 Tenth avenue... Louis Rave, 532 West 40th street.	\$3,857 50										
June 4	Taking up and relaying pavement in One Hundred and Twenty-sixth street, between Fourth and Fifth avenues; One Hundred and Twenty-sixth street, between Sixth and Seventh avenues; Lawrence street, between One Hundred and Twenty-sixth and One Hundred and Twenty-ninth streets; One Hundred and Nineteenth street, between Second and Third avenues; and Second avenue, between One Hundred and Sixth and One Hundred and Tenth streets.....	James Quinn, 1483 Avenue A. ....	Thomas Hagan, 337 East 123d street. John McLaughlin, 346 East 81st street.	9,446 85										
" 4	Taking up and relaying the pavement in Sixty-third street, between Second and Third avenues; Seventy-first street, between Third and Lexington avenues; Seventy-first street, between Ninth and Tenth avenues; Seventy-fifth street, between First and Lexington avenues; Seventy-eighth street, between Madison and Fourth avenues; and Seventy-ninth street, between Third and Lexington avenues.....	James Quinn, 1483 Avenue A. ....	Thomas Hagan, 337 East 123d street. John McLaughlin, 346 East 81st street.	8,239 00										
Laying Water-main Contracts.														
Apr. 19	Laying water-mains in Morris, Anthony and Fifth avenues, and in Ash, Berry, Bush, Buckhout and One Hundred and Seventy-seventh streets.....	G. M. Dean, 58 West 127th street.	Jacob Ebling, 176 East 128th street William E. Dean, 58 West 127th street.	\$18,870 00										
May 15	Laying water-mains in Avenue A, Madison, Arthur and Fourth avenues, and in One Hundred and Fortieth, One Hundred and Thirty-fifth, One Hundred and Thirty-fourth, One Hundred and Thirtieth, One Hundred and Twelfth, One Hundred and Macomb streets.....	John Cornwall, Jr., 529 East 161st street.	Moses Mehrbach, 134 East 70th street.. Solomon Mehrbach, 74 East 54th street..	9,512 10										
" 15	Furnishing, delivering and laying 6-inch cast-iron water-pipe, from the present main on Seventy-ninth street to main on Blackwell's Island.....	John Cornwall, Jr., 529 East 161st street.	Moses Mehrbach, 134 East 70th street.. Solomon Mehrbach, 74 East 54th street..	8,226 00										
\$36,618 80														

Date of Contract.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.	Date of Contract.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.
Miscellaneous Contracts.									
Apr. 15	Fencing, filling and draining city property on block bounded by One Hundred and Fifty-fourth and One Hundred and Fifty-fifth streets and Eighth avenue.....	Charles Trainer, Jersey City, N. J.....	James J. Coogan, 41 West 52d street.. Edward W. Coogan, 79 West 54th street..	\$7,500 00	June 28	Fencing vacant lots in block bounded by One Hundred and Eighteenth and One Hundred and Nineteenth streets, Fifth and Sixth avenues.....	Bernard A. Roth, 402 East 122d street..	F. Thilemann, Jr., 112 East 122d street..	\$525 00
" 18	Furnishing and delivering to the Department of Public Works 2,200 cubic yards of Rock gravel suitable for road surfacing; also 3,000 cubic yards of gravel bank screenings.....	George F. Doak, 10th ave. and 153d st.	Louis D. Beck, Astor House..... Ransom Park, Jr., 224 West 11th street.	9,478 60	" 28	Fencing vacant lots in block bounded by One Hundred and Twentieth and One Hundred and Fourteenth streets, Eighth and Manhattan avenues.....	Bernard A. Roth, 402 East 122d street..	F. Thilemann, Jr., 112 East 122d street..	252 50
" 20	Furnishing and delivering to the Department of Public Works 1,200 cubic yards of clean sharp Cow Bay sand suitable for road surfacing.....	Michael Fay, 308 East 52d street..	Thomas Roche, 339 East 47th street. James Fay, 169 East 90th street..	1,416 00	" 28	Fencing vacant lots in block bounded by One Hundred and Twentieth and One Hundred and Fourteenth streets, Eighth and Manhattan avenues.....	Bernard A. Roth, 402 East 122d street..	F. Thilemann, Jr., 112 East 122d street..	441 00
" 24	Furnishing and delivering stop-cocks, hydrants, wooden hydrant-boxes and cast-iron stop-cock boxes.....	John Fox, 10 East 50th street..	Daniel F. Cooney, 88 Washington street Michael Ryan, 347 Bowery.....	4,655 50	Gas Contracts.				
" 24	Furnishing cast-iron water-pipes, branch pipes and special castings.....	Reading Foundry Co. (Limited), Reading, Pa.....	Michael Ryan, 347 Bowery..... Maurice B. Flynn, 784 Fifth avenue.... Charles H. Field, 957 Madison ave....	27,626 00	May 1	Furnishing the illuminating material for and lighting and extinguishing, cleaning, repairing and maintaining the public lamps on the streets, avenues, piers, parks and places in the City of New York, from May 1, 1888, to April 1, 1889....	The Central Gas-light Co., 350 Alexander ave....	W. R. Beal, 350 Alexander ave.... C. Armory Stevens, 60 Broad street.....	\$66,275 00
" 27	Furnishing and delivering tapping-cocks and tapping-cock boxes.....	John Hume, 601 East 13th street..	Charles H. Field, 957 Madison ave.... Michael L. Bagley, 395 East 60th street.	1,375 00	" 1	Furnishing the illuminating material for and lighting and extinguishing, cleaning, repairing and maintaining the public lamps on the streets, avenues, piers, parks and places in the City of New York, from May 1, 1888, to April 1, 1889....	Consolidated Gas Co. of New York, 4 Irving place.....	Percy R. Pyne, 25 East 22d street.. Sam Sloan, 7 East 38th street....	291,000 00
May 12	Building two floating swimming baths.....	Thomas J. Sheridan, 145 East 6th street..	Edward C. Sheehy, 411 East 88th street.	24,635 00	" 1	Furnishing the illuminating material for and lighting and extinguishing, cleaning, repairing and maintaining the public lamps on the streets, avenues, piers, parks and places in the City of New York, from May 1, 1888, to April 1, 1889....	Equitable Gas-light Co. of New York, 340 Third avenue...	William H. Gebhard, Park avenue Hotel.. R. M. C. Graham, 125 East 52d street..	18,600 00
" 17	Furnishing materials and performing work of building a storage of coal at Ninety-sixth and Ninety-seventh streets, 100 feet west of Ninth avenue; and a wagon platform.....	Michael J. Mahoney, 320 East 6th street.	John Vesey, 241 East 82d street.. Richard J. Mahoney, 416 East 57th street	22,750 00	" 1	Furnishing the illuminating material for and lighting and extinguishing, cleaning, repairing and maintaining the public lamps in the streets, avenues, piers, parks and places in the City of New York, from May 1, 1888, to April 1, 1889....	Northern Gas-light Co. of New York, 1245 Railroad ave....	W. W. Van Voorhis, 63 Wall street..... James M. Cumings, 45 Duane street.....	57,350 00
" 22	Furnishing the Department of Public Works with 3,600 gross tons of egg size Lehigh and Wilkesbarre Co.'s best Lehigh and Wilkesbarre coal.....	William D. Bruns, Jr., 24th street, E. R....	Andrew Koch, 108 East 30th street. Octavian Wieland, 212 West 30th street.	19,170 00	" 1	Furnishing the illuminating material for and lighting and extinguishing, cleaning, repairing and maintaining the public lamps in the streets, avenues, piers, parks and places in the City of New York, from May 1, 1888, to April 1, 1889....	N. Y. Mutual Gas-light Co., 30 Union Square....	John P. Kennedy, 38 East 35th street.. Arthur Leary, 90 Fifth avenue....	2,675 00
June 1	Furnishing and delivering cut stone at the reservoir at High Bridge.....	John Donaldson, 60 Bank street.....	William Kelly, 260 West 51st street. B. F. Kennedy, 415 West 47th street.	3,220 00	" 1	Furnishing the illuminating material for and lighting and extinguishing, cleaning, repairing and maintaining the public lamps on the streets, avenues, piers, parks and places in the City of New York, from May 1, 1888, to April 1, 1889....	Vonkers Gas-light Co., Vonkers, N. Y.....	Thomas C. Cornell, Vonkers, N. Y..... Samuel D. Babcock, 635 Fifth avenue....	13,850 00
" 18	Furnishing and delivering stop-cocks, hydrants, wooden hydrant-boxes and cast-iron stop-cock boxes.....	Julius Jonson, 118th st. and H. R....	John F. Hanley, 32 Second avenue.. Robert Hanna, 1757 Tenth avenue..	4,654 00	" 1	Furnishing the illuminating material for and lighting and extinguishing, cleaning, repairing and maintaining the public lamps on the streets, avenues, piers, parks and places in the City of New York, from May 1, 1888, to April 1, 1889....	N. Y. and N. J. Globe Gas-light Co., 113 Broadway.....	Isaac H. Dahlgren, 209 E. 24th street.. American Surety Co., 160 Broadway.....	3,000 00
" 25	Hoisting and hauling away material from old reservoir in the Central Park.....	P. J. Moran, 500 West 123d st...	Julius Elson, 419 East 16th st.... David Keller, 205 East 60th st....	5,900 00	" 1	Furnishing the illuminating material for and lighting and extinguishing, cleaning, repairing and maintaining the public lamps on the streets, avenues, piers, parks and places in the City of New York, from May 1, 1888, to April 1, 1889....			\$452,750 00
" 26	Furnishing and delivering stop-cocks, hydrants, wooden hydrant-boxes and cast-iron stop-cock boxes.....	Julius Jonson, 118th st. and H. R....	Michael Ryan, 347 Bowery..... M. E. Brown, 931 Madison avenue.	4,660 25	" 1	Furnishing the illuminating material for and lighting and extinguishing, cleaning, repairing and maintaining the public lamps on the streets, avenues, piers, parks and places in the City of New York, from May 1, 1888, to April 1, 1889....			
" 27	Furnishing cast-iron water-pipes, branch pipes and special castings.....	Reading Foundry Co. (Limited), Reading, Pa.....	Henry Steeger, 141 East 31st street.. Alex. Waldron, 39 West 52d street..	12,660 00	" 1	Furnishing the illuminating material for and lighting and extinguishing, cleaning, repairing and maintaining the public lamps on the streets, avenues, piers, parks and places in the City of New York, from May 1, 1888, to April 1, 1889....			
" 29	Furnishing and delivering tapping-cocks and tapping-cock boxes.....	Fred. Adee & Co., 50 Beekman street..		1,875 00	" 1	Furnishing the illuminating material for and lighting and extinguishing, cleaning, repairing and maintaining the public lamps on the streets, avenues, piers, parks and places in the City of New York, from May 1, 1888, to April 1, 1889....			
				\$151,574 75	RECAPITULATION.				
					14 Sewer Contracts..... \$44,729 78				
					8 Regulating and Grading Contracts..... 71,845 79				
					18 Paving Contracts..... 207,103 94				
					5 Paving Contracts under Section 321, New York City Consolidation Act of 1882..... 51,500 00				
					11 Taking up and Relaying Pavement Contracts..... 102,229 79				
					3 Laying Water-main Contracts..... 36,618 10				
					15 Miscellaneous Contracts..... 151,574 75				
					31 Special Contracts..... 10,353 20				
					7 Gas Contracts..... 452,750 00				
					112 Contracts..... \$1,249,381 26				
Contracts Completed during the Three Months ending June 30, 1888.									
DATE.	NATURE.	LOCATION OF WORK.	TOTAL COST.						
Apr. 7	Sewer.....	In One Hundred and Fifty-third street, between McComb's Dam road and Eighth avenue, and in Eighth avenue, east side, between One Hundred and Fifty-third and One Hundred and Fifty-fifth streets.....	\$10,173 69						
" 9	Flagging.....	Madison avenue, between One Hundred and Twenty-seventh and One Hundred and Twenty-eighth streets, and in One Hundred and Twenty-seventh and One Hundred and Twenty-eighth streets.....	685 71						
" 13	Fencing vacant lots.....	In block bounded by Ninety-third and Ninety-fourth streets, Eighth and Ninth avenues.....	904 35						
" 13	".....	On both sides of Ninety-sixth street, between Eighth and Ninth avenues.....	730 51						
" 21	Taking up and relaying the pavement.....	In Wall street, between William and Nassau streets, Fifty-fifth street, between Sixth and Seventh avenues, Fifty-sixth street, between Ninth and Tenth avenues, Fifty-seventh street, between Fifth and Sixth avenues, Seventy-ninth street, between Ninth and Tenth avenues, and Eighty-third street, between Eighth and Ninth avenues.....	7,993 80						
" 24	Sewer.....	In Seventy-third street, between summit west of Boulevard avenue and Vanderbilt avenue.....	1,642 81						
" 27	Fencing vacant lots.....	On northeast corner Seventh avenue and One Hundred and Twenty-third street.....	140 10						
" 28	Sewer.....	In Fourth avenue, east side, between One Hundred and Sixteenth and One Hundred and Seventeenth streets.....	1,222 60						
May 2	Fencing vacant lots.....	In block bounded by One Hundred and Thirteenth and One Hundred and Fourteenth streets, Madison and Fifth avenues.....	476 30						
" 2	Laying crosswalk.....	At Forty-second street and Vanderbilt avenue.....	147 11						
" 2	Paving.....	Nineteenth street, from Eighth to Ninth avenue.....	7,000 00						
" 8	Fencing vacant lots.....	In block bounded by One Hundred and Sixth and One Hundred and Seventh streets, Boulevard and Tenth avenues.....	560 30						
" 9	Sewer.....	In One Hundred and Fifty-eighth street, between Tenth and Eleventh avenues.....	6,912 14						
" 9	Paving.....	Edgecomb avenue, from One Hundred and Thirtieth to One Hundred and Thirty-seventh street.....	4,501 11						
" 11	Fencing vacant lots.....	In block bounded by One Hundred and Fifteenth streets, Madison and Fifth avenues.....	119 50						
" 11	".....	In block bounded by Fifth and Lenox avenues, One Hundred and Twenty-eighth and One Hundred and Twenty-ninth streets.....	95 70						
" 21	Sewer.....	In Forty-fourth street, between summit east of Sixth avenue and Sixth avenue, etc.....	4,532 40						
" 11	Regulating and grading.....	One Hundred and Sixty-first street, from St. Nicholas to Tenth avenue.....	680 10						
" 15	Furnishing and delivering cast-iron water-pipes, branch pipes and special castings.....		\$5,393 22						
" 15	Furnishing and delivering 3,000 gross tons of egg size coal.....		15,455 30						
" 15	Furnishing and delivering cast-iron water-pipes, branch pipes and special castings.....		13,397 50						
" 16	Paving.....	Sixty-fourth street, from First avenue to East river.....	9,228 80						
" 18	Taking up and relaying the pavement.....	In Thirty-first street, between Second and Third avenues, Thirty-second street, between Third and Lexington avenues, Thirty-fourth street, between Fourth and Lexington avenues, Thirty-eighth street, between Fourth and Madison avenues, Thirty-ninth street, between Fourth and Madison avenues, Forty-second street, between Third and Lexington avenues, and Forty-third street, between Third and Lexington avenues.....	6,675 00						

DATE.	NATURE.	LOCATION OF WORK.	TOTAL COST.
May 21	Fencing vacant lots.....	In block bounded by Seventy-eighth and Seventy-ninth streets, Ninth and Tenth avenues.....	\$149 34
" 21	".....	In block bounded by One Hundred and Sixth and One Hundred and Seventh streets, Manhattan and Ninth avenues.....	693 98
" 21	Flagging.....	South side Fourteenth street, between Avenues B and C.....	813 00
" 21	Sewer.....	In Tompkins street, between Livingston and Delancey streets.....	1,693 96
" 21	Regulating and grading.....	One Hundred and Fifteenth street, from Tenth to St. Nicholas avenue.....	2,367 16
" 24	Paving.....	Seventy-first street, from Boulevard to West End avenue.....	6,710 54
" 24	".....	Eighty-fifth street, from Ninth to Tenth avenue.....	7,093 59
" 24	Laying crosswalk.....	At Canal and Chrystie streets.....	121 40
" 24	Regulating and grading.....	One Hundred and Seventh street, from Eighth to Ninth avenue.....	10,139 61
" 24	".....	One Hundred and Fourteenth street, from Eighth to Ninth avenue.....	5,177 84
" 24	Building foundations for house for storage of coal.....	At Ninety-sixth and Ninety-seventh streets.....	26,755 29
" 29	Furnishing and delivering 1,200 cubic yards of Cow Bay sand.....		1,431 34
" 31	Paving.....	One Hundred and Thirty-third street, from Sixth to Seventh avenue.....	6,789 62
" 31	".....	Ninety-seventh street, from Third to Fourth avenue.....	7,622 51
" 31	".....	Lexington avenue, from Ninety-fifth to Ninety-seventh street.....	7,685 92
" 31	Sewer.....	Eighty-ninth street, from First to Second avenue.....	5,554 86
" 31	".....	In Pleasant avenue, between One Hundred and Sixteenth and One Hundred and Seventeenth streets.....	1,386 67
" 31	".....	In Avenue B, between Eighty-third and Eighty-fourth streets.....	927 45
" 31	".....	In Eighty-second street, between Boulevard and Riverside avenue.....	8,669 33
" 31	Regulating and grading.....	One Hundred and Fifty-first street, between Avenue St. Nicholas and Edgecomb road.....	2,444 96
" 31	Flagging.....	Northeast corner Ninety-second street and Ninth avenue.....	331 61
June 5	Receiving-basins.....	Southwest corner One Hundred and Fifteenth street and Fifth avenue.....	336 17
" 5	Paving.....	Sixty-fifth street, from Tenth to Eleventh avenue.....	7,070 39
" 5	Regulating and grading.....	One Hundred and Eighteenth street, from Eighth to Ninth avenue.....	4,036 32
" 7	Flagging.....	East side Tenth avenue, between Sixty-first and Sixty-second streets, etc.....	519 03
" 7	".....	North side Thirty-third street, at Ninth avenue.....	280 27
" 7	Repairs to sewer.....	In Sixth street, between Avenues B and C.....	1,752 52
" 7	Paving.....	Seventy-ninth street, from Ninth avenue to Boulevard.....	9,573 31
" 8	".....	One Hundredth street, from Second to Third avenue.....	5,591 52
" 8	Flagging.....	Nineteenth street, from Second to Third avenue.....	5,450 33
" 13	Flagging.....	On southeast corner One Hundred and Sixteenth street and Manhattan avenue.....	178 00
" 13	Paving.....	One Hundred and Eleventh street, from Madison to Fifth avenue.....	164 02
" 13	Flagging.....	East side Ninety avenue, between Eighty-first and Eighty-second streets, etc.....	3,793 68
" 13	".....	East side Fourth avenue, between One Hundred and Twenty-fourth and One Hundred and Twenty-fifth streets.....	653 69
" 13	Sewer.....	In One Hundred and Fifteenth street, between Madison and Fifth avenues.....	131 23
" 13	Paving.....	Madison avenue, from One Hundred and Twentieth to One Hundred and Twenty-first street.....	2,302 25
" 16	Regulating and grading.....	Eighty-eighth street, from Ninth avenue to Riverside Drive.....	4,273 23
" 16	".....	Manhattan avenue, from the intersection of Manhattan avenue with the avenue bounding Morningside avenue on the east, between One Hundred and Thirtieth and One Hundred and Fourteenth streets, to One Hundred and Sixteenth street.....	1,387 30
" 16	Paving.....	One Hundred and Third street, from Ninth to Tenth avenue.....	4,356 46
" 16	Sewer.....	In One Hundred and Thirty-sixth street, between Seventh and Sixth avenues.....	7,222 26
" 16	Receiving-basins.....	Southeast corner One Hundred and Fifth street and Fourth avenue.....	4,343 18
" 16	Paving.....	Ninety-ninth street, from Ninth to Tenth avenue.....	312 55
" 16	Fencing vacant lots.....	In block bounded by One Hundred and Seventh and One Hundred and Eighth streets, Tenth avenue and Boulevard.....	7,356 41
" 18	Regulating and grading.....	One Hundred and Forty-eighth street, from Seventh to Eighth avenue.....	704 40
" 19	Paving.....	One Hundred and Forty-first street, from Avenue St. Nicholas to Tenth avenue.....	10,657 07
" 20	".....	Ninety-first street, from First avenue to Avenue A.....	9,800 61
" 21	Alterations and repairs.....	In Houston street, between Goerck and Margin streets.....	5,122 08
" 21	Sewer.....	In Thirty-first street, between First avenue and East river.....	1,775 65
" 21	Flagging.....	Southeast corner Lexington avenue and One Hundred and Twenty-seventh street.....	2,448 87
" 21	Flagging.....	One Hundred and Tenth street, from Madison to Fifth avenue.....	255 20
" 21	Regulating and grading.....	One Hundred and Fifteenth street, from Eighth to Ninth avenue.....	780 69
" 21	Paving.....	Madison avenue, from One Hundred and Third to One Hundred and Fifth street.....	5,080 53
" 27	".....	Eighty-sixth street, from Eighth avenue to Riverside Drive.....	5,149 22
" 30	Sewer.....	In One Hundred and Forty-eighth street, between Madison and Edgecomb avenues.....	38,538 38
" 30	Extension of sewer.....	In Eighth avenue, west side, between Eighty-fourth and Eighty-fifth streets.....	1,047 35
" 30	Alterations and improvements to sewer.....	In Fourth avenue, west side, between Seventy-third and Seventy-fourth streets, etc.....	836 18
" 30	Sewers.....	In Ninety-second street, between Ninth avenue and Boulevard, and in Tenth avenue, east and west sides, between Ninety-second and Ninety-third streets.....	4,315 29
" 30	Regulating and grading.....	One Hundred and Sixty-first street, from Tenth to Eleventh avenue.....	16,512 09
" 30	Paving.....	One Hundred and Thirty-second street, from Fourth to Eighth avenue.....	10,374 04
" 30	Laying crosswalk.....	At Eighty-fourth street and Avenue B.....	3,555 36
" 30	Regulating and grading.....	Hamilton place, from Boulevard to One Hundred and Thirty-sixth street and Tenth avenue.....	284 54
" 30	Flagging, etc.....	North side One Hundred and Seventeenth street, from Fifth to Sixth avenue.....	17,616 26
			432 42
			\$487,856 61

## RECAPITULATION.

17 Sewer Contracts.....	\$71,916 62
11 Regulating and Grading Contracts.....	71,581 57
22 Paving Contracts.....	174,979 21
2 Taking up and Relaying Pavement Contracts.....	576 74
5 Miscellaneous Contracts.....	142,350 66
29 Special Contracts.....	12,548 81
86 Contracts.....	\$487,856 61

## 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, July 3, 1888.

Gen. JOHN NEWTON, Commissioner of Public Works:

DEAR SIR—In compliance with your letter of June 26, 1888, I submit the following report for the quarter ending June 30, 1888:

## EXPENDITURES.

Aqueduct—Repairs, Maintenance and Strengthening.....	\$56,931 25
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	6,549 84
Bronx River Works—Maintenance and Repairs.....	4,905 00
Bronx River Works—Maintenance and Repairs—Salaries.....	975 00

Croton Water Fund.....	\$33,414 28
Laying Croton Pipes—Salaries.....	30,945 06
Laying Croton Pipes—Stop-cocks, etc.....	3,767 98
Repairing and Renewal of Pipes, Stop-cocks, etc.—West Street.....	13,793 58
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	12,172 23
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	2,150 99
Water Supply—Twenty-fourth Ward.....	1,289 34
Water-meter Fund, No. 2.....	3,377 48
Total.....	\$169,372 03

## STORAGE RESERVOIRS.

The Croton river has furnished a full supply to the Aqueduct during the quarter, and the storage reservoirs and lakes in the Croton river shed are full.

## Storage Reservoir.

	Gallons.
Kensico Reservoir.....	175,000,000
Rye Ponds Reservoir.....	160,000,000
Total gallons.....	335,000,000

## Rain-fall—Inches.

	APRIL.	MAY.	JUNE.	TOTAL FOR QUARTER.
Boyd's Corners Reservoir.....	2.68	6.27	2.00	10.95
South East Reservoir.....	2.53	5.77	1.77	10.07
Kensico Reservoir.....	3.31	5.85	1.65	10.81
Croton Dam.....	2.46	6.71	2.76	11.93
Central Park Reservoir.....	3.05	5.95	2.02	11.02

## BRONX RIVER SUPPLY.

The Commissioners appointed to appraise damages on the Bronx river, between Bronxville and Woodlawn, are holding regular meetings.

Searches, etc., are being made as to the property along the Bronx river, between Woodlawn and West Farms, and a Commission has been appointed to appraise damages to the owners below West Farms, using water from the above dam at that place.

Searches are being made so as to ascertain the owners, etc., of property along Bear Gutter Creek and Byram river, so that the same can be acquired, and the work on Byram river diversion be commenced.

The work on the Williamsbridge reservoir was commenced on April 14, 1888, but the Contractors have not as yet put on the necessary machinery, teams, labor, etc., so as to insure the completion of the inside of the same this year.

The conduit has furnished 18,000,000 gallons per day steadily during the quarter.

The conduit, roads, fences and reservoirs have been kept in order by two gangs of men.

## AQUEDUCT—REPAIRS, MAINTENANCE AND STRENGTHENING.

One contract for coal; one contract for ashlar stone at High Bridge; one contract for cut stone at High Bridge; and one contract for hoisting and hauling away earth and rock from the old reservoir in Central Park, have been entered into.

One contract for furnishing coal has been completed.

## Amount of Work Done during the Quarter.

DIVISIONS.	Earth Excavation.	Stone Quarrying.	Dry Masonry.	FENCE.		Arching Aqueduct.	Filling and Grading.	Stone Masonry.	Cut-stone Masonry.	Brick Masonry.	Paving.	Sodding.
				Build.	Re-join.							
	Cu. yds.	Cu. yds.	Cu. yds.	Lin. feet.	Lin. feet.	Lin. feet.	Cu. yds.	Cu. yds.	Cu. feet.	Cu. yds.	Sq. yds.	Sq. yds.
First.....	.....	.....	.....	5,687	.....	.....	.....	.....	.....	.....	.....	.....
Second.....	100	.....	266	2,099	.....	.....	.....	.....	.....	.....	.....	.....
Third.....	300	248	249	1,484	.....	.....	.....	.....	.....	.....	.....	.....
Fourth.....	.....	.....	11	200	275	.....	180	.....	.....	.....	.....	.....
Fifth.....	538	62	367	1,838	1,600	235	350	130	.....	52	164	700
Sixth.....	330	605	.....	2,981	375	300	2,000	166	.....	66	60	483
Seventh.....	924	535	.....	250	.....	1,459	513	1,479	.....	.....	.....	.....
Eighth.....	.....	.....	.....	.....	.....	145	.....	.....	.....	.....	.....	.....
Total.....	2,212	1,450	893	14,530	2,250	535	4,134	809	1,479	118	254	1,183

The general work and maintenance of the Aqueduct has been conducted as usual during the past quarter, such as the care of dam, reservoirs, gate-houses and machinery, treating leaks, patrolling Aqueduct property, cleaning up line and building and repairing fences.

The particular work on each division has been as follows:

First Division—Care of Croton Dam, gate-house and lake; cutting brush around lake; policing dam and vicinity; cutting grass.

Second Division—Continuation of retaining-wall below Quaker Bridge; building and repairing fences; excavating for repairs to telephone cable.

Third Division—Continuing wall at arch bank; quarrying stone for same; doctoring Aspinwall leak; painting ironwork in gate-house; building fences.

Fourth Division—Grading on Minturn's bank; repairing slope on Cook's and Jaffray's bank; patching wall at Wilde's bank.

Fifth Division—Building walls at gate-house; arching at glue factory bank; removing old wall in Glen; sodding and repairing banks; paving gutters.

Sixth Division—Building retaining-walls; arching on Dickinson's bank; quarrying stone for walls and arch work; sodding, grading and repairing banks; building fences and repairing culverts.

Seventh Division—Care of High Bridge, gate-houses, tower, engine-houses and reservoir; building wall on east and south side of reservoir; quarrying stone for foundation work; repairing coal dock, track and cars; hoisting coal; painting iron railing at tower.

Eighth Division—Cleaning and repairs of Central Park and Forty-second street Reservoirs; care of gate-houses, chambers and grounds; care of high service works; painting railing around Forty-second Street Reservoir; patrolling Central Park Reservoir.

## LAYING CROTON PIPES.

Contracts for laying Croton pipes in the following streets and avenues have been completed:

Eighty-third street, between Avenues A and B.  
Thirty-seventh street, between Eleventh avenue and North river.  
Thirty-eighth street, between First avenue and East river.  
Ninety-eighth street, between First and Second avenues.

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

Madison avenue, between One Hundred and Thirty-fifth and One Hundred and Thirty-seventh streets.

One Hundred and Twentieth street, between Seventh and St. Nicholas avenues.

Contract for building foundation of house for storage of coal has been completed.

One contract for furnishing hydrants, stop-cocks, etc.; one contract for furnishing pipe, branches, etc.; three contracts for laying pipe, and one contract for house for storage of coal have been entered into.

One contract for furnishing pipe has been completed.

## Amount of Pipe Laid during the Quarter.

	Lineal feet.
36-inch pipe .....	9
20-inch pipe .....	937
12-inch pipe .....	9,595
6-inch pipe .....	28,144
Total .....	38,685

## Stop-cocks Set.

12-inch .....	14
6-inch .....	65
Total .....	79

## Hydrants Placed.

"A" hydrants .....	63
No. 1 hydrants .....	1
Total .....	64

## Replacing Water-mains in West Street.

A gang of men has been employed since April 1, 1888, replacing mains, taps, service-pipes, etc., on Front, Water and cross streets, between Wall and Fulton streets, and between South and Pearl streets.

One contract for taps for this work has been completed.

One contract for pipe, branches, etc., and one contract for stop-cocks, hydrants, etc., have been entered into.

## METERS.

Number of meters placed during the quarter .....	510
Number of meters in use, March 31, 1888 .....	16,902

Total number of meters in use, June 30, 1888 .....

## WASTE AND USE OF WATER.

Since June 4, the reservoirs in Central Park have been drawn down 24 inches, equal to 56,000,000 gallons, in addition to 95,000,000 gallons per day from the Croton river and 18,000,000 gallons per day from the Bronx river.

The growth of the city has steadily increased at the rate of 3,000 houses per year since 1879, and the use of water, especially during the daytime, has been such that many places on high ground are deprived of water for a few hours, every one wanting a supply at the same time. This will soon extend over a larger area, and the only remedy (while the amount of water that can be brought to the city remains the same) is, for the parties having pumps and tanks, to fill same during the night, when other uses have stopped.

Respectfully yours,

GEO. W. BIRDSALL, Chief Engineer Croton Aqueduct.

## Document "E."

## REPORT OF THE WATER PURVEYOR.

DEPARTMENT OF PUBLIC WORKS,  
WATER PURVEYOR'S OFFICE, NO. 31 CHAMBERS STREET, ROOM 1,  
NEW YORK, July 3, 1888.

Gen. JOHN NEWTON, Commissioner of Public Works:

SIR—I have the honor to make the following report of the transactions of this Bureau, for the quarter ending June 30, 1888:

## RECEIPTS.

For permits to construct vaults .....	\$19,926 52
For labor and materials furnished .....	675 52
Total .....	\$20,602 14

## EXPENDITURES.

98 vouchers were transmitted during the quarter, amounting in the aggregate to three hundred and fifty-two thousand six hundred and twenty-three dollars and sixty-nine cents (\$352,623.69), and were charged to the following accounts:	
Public Drinking-hydrants, 1887 .....	\$490 00
Public Drinking-hydrants, 1888 .....	683 97
Public Drinking-hydrants—Salaries .....	300 00
Repairs and Renewal of Pavements and Regrading, 1887 .....	13,039 83
Repairs and Renewal of Pavements and Regrading, 1888 .....	72,525 57
Repairs and Renewal of Pavements and Regrading—Salaries .....	3,755 48
Repaving Streets and Avenues, 1886 .....	88 60
Repaving Streets and Avenues, 1887 .....	12,710 17
Repaving Streets and Avenues, 1888 .....	4,568 20
Repaving Streets and Avenues—Salaries .....	2,910 66
Wells and Pumps—Repairing and Cleaning .....	22 35
Repairing and Renewal of Pipes, Stop-cocks, etc. ....	26,703 05
Restoring and Repaving—Special Fund—Department of Public Works .....	12,807 21
Street Improvement Fund .....	201,928 60

Total of transmittals for quarter ending June 30, 1888 .....

Transmittals for quarter ending March 31, 1888 .....

Total of transmittals, six months ending June 30, 1888 .....

## PERMITS ISSUED.

67 permits for the construction of vaults.  
37 permits for repairing vaults.  
183 permits for erecting guy-posts.  
113 permits for building fires for roofing and other purposes.  
56 permits for repairs to pavements at expense of citizens.  
Under resolutions of the Common Council, the following permits were issued:  
To W. D. Garrison to lay a crosswalk across Forty-second street, about 80 feet east of Fourth avenue.  
To William J. Merritt to pave West End avenue, from Seventy-second to Seventy-sixth street, with asphalt pavement.  
To William J. Merritt to pave Seventy-third street, from Boulevard to West End avenue, with asphalt pavement.  
To William C. Schermerhorn to pave Sixty-seventh street, from Second avenue to Avenue A, with granite-block pavement.

## REPAIRS AND RENEWAL OF PAVEMENTS AND REGRADING.

The average force employed by the Department during the quarter, on repairs to pavements, was:

In April, 103 men, 15 carts and 1 team.  
In May, 207 men, 37 carts and 4 teams.  
In June, 431 men, 88 carts and 6 teams.  
83,972 square yards of pavement were relaid.  
5,645  $\frac{1}{8}$  square yards of pavement, including 499  $\frac{1}{8}$  square yards of asphalt, were relaid under orders completed during the quarter, the cost under each order having been less than one thousand dollars (\$1,000), in the following streets, viz.:  
Forty-ninth street, between Fifth and Madison avenues.  
One Hundred and Twenty-second street, between Sixth and Seventh avenues.  
Intersection of Thirteenth and Gansevoort streets.  
Fifth avenue, between Waverly place and Ninth street.  
Intersection of Eleventh and Washington streets.  
Fifteenth street, between Fifth and Sixth avenues.  
Eighteenth street, between Irving place and Fourth avenue.  
Intersection of New street and Exchange place.  
Pine street, between Nassau and William streets.

Twenty-eighth street, between Fifth avenue and Broadway.  
Thirty-eighth street, between Fifth and Madison avenues.  
Liberty street, between Broadway and Nassau street.  
Intersections of Eighty-sixth street with Ninth and Tenth avenues.  
Thirty-first street, between First avenue and East river.

Pavements in the following-named streets were taken up and relaid under contract, aggregating 22,919  $\frac{1}{8}$  square yards, viz.:  
Gansevoort street, from West street to Thirteenth avenue.  
Bloomfield street, from Tenth to Thirteenth avenue.  
Thirty-eighth street, from Sixth to Seventh avenue.  
Forty-eighth street, from Fifth to Sixth avenue.  
Sixty-third street, from Fourth to Lexington avenue.  
Seventy-first street, from Third to Lexington avenue.  
Seventy-ninth street, from Third to Lexington avenue.  
Seventy-ninth street, from Ninth to Tenth avenue.  
One Hundred and Eighteenth street, from First avenue to East river.  
Making the entire quantity of pavement relaid during the quarter, 112,537  $\frac{1}{8}$  square yards.

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

The average force employed in the repairing of pipes, stop-cocks, fire-hydrants, etc., during the quarter was:

In April, 103 men and 11 carts.  
In May, 103 men and 11 carts.  
In June, 103 men and 11 carts.  
551 defects in pipes and stop-cocks were repaired.  
271 taps were shut off on account of leaks in service-pipes.  
1,036 fire-hydrants were repaired.  
191 new fire-hydrants were substituted for old.  
1 new fire-hydrant was erected.  
543 defects in pavements were repaired.

## PUBLIC DRINKING-HYDRANTS.

105 drinking-hydrants were repaired.  
4 new drinking-hydrants were erected at the following points:  
Northwest corner of Lexington avenue and One Hundred and Twenty-fourth street.  
No. 330 West street.  
Northwest corner of Tremont avenue and Broadway.  
No. 487 Canal street.

## WELLS AND PUMPS—REPAIRING AND CLEANING.

1 pump was repaired at a cost of \$22.36.

## REPAVING STREETS AND AVENUES.

The repaving of Crosby street, from Howard to Bleecker street, was completed during the quarter. The pavement is specification granite blocks, and covers an area of 7,003  $\frac{1}{8}$  square yards and a linear distance of 2,608  $\frac{1}{8}$  feet, including crosswalks.

Contracts for repaving the following streets are now in active progress, and will be completed before the end of September:

First street, from Bowery to Avenue A.  
Stanton street, from Bowery to Clinton street.  
Orchard street, from Division to Houston street.  
Madison avenue, from Twenty-third to Thirty-second street.

## NEW PAVEMENTS UNDER ASSESSMENTS.

Contracts for laying new pavements in the following-named streets were completed during the quarter:

STREET.	FROM	SQUARE YARDS OF PAVEMENT.	LENGTH IN FEET.
<i>Granite-blocks, Including Crosswalks.</i>			
Ninetieth street .....	Eighth to Ninth avenue .....	2,727.20	820.00
Edgecombe avenue .....	One Hundred and Thirty-fifth to One Hundred and Thirty-seventh street .....	1,651.00	344.00
Eighty-sixth street .....	Eighth to Riverside avenue .....	15,690.11	3,146.00
Eighty-fifth street .....	Ninth to Tenth avenue .....	2,722.00	816.58
One Hundred and Thirty-third street .....	Sixth to Seventh avenue .....	2,688.67	815.00
One Hundred and Forty-first street .....	St. Nicholas to Tenth avenue .....	3,468.55	1,014.00
One Hundred and Third street .....	Ninth to Tenth avenue .....	2,711.70	816.50
Madison avenue .....	One Hundred and Twentieth to One Hundred and Twenty-first street .....	1,661.00	257.67
Ninetieth street .....	Second to Third avenue .....	2,063.00	627.50
One Hundred and Thirty-second street .....	Fourth to Madison avenue .....	1,369.50	412.50
Total .....		36,754.73	9,049.75
<i>Trap-blocks, Including Crosswalks.</i>			
One Hundredth street .....	Second to Third avenue .....	2,087.00	626.00
Ninety-seventh street .....	Third to Fourth avenue .....	2,845.50	853.50
Lexington avenue .....	Ninety-fifth to Ninety-seventh street .....	2,764.22	597.66
Sixty-fourth street .....	First avenue to East river .....	3,695.67	1,108.67
Seventy-first street .....	Boulevard to West End avenue .....	2,765.00	830.00
Eighty-ninth street .....	First to Second avenue .....	2,220.00	666.00
Seventy-seventh street .....	Ninth avenue to Boulevard .....	4,003.33	1,206.00
Sixty-fifth street .....	Tenth to Eleventh avenue .....	2,746.00	824.00
One Hundred and Eleventh street .....	Madison to Fifth avenue .....	1,478.00	444.00
Ninety-seventh street .....	Ninth to Tenth avenue .....	2,704.00	818.00
Madison avenue .....	One Hundred and Third to One Hundred and Fifth street .....	1,956.00	441.00
Seventy-fifth street .....	Boulevard to West End avenue .....	1,544.78	459.50
Second avenue .....	One Hundred and Twenty-eighth street to Harlem river .....	215.00	.....
Ninety-first street .....	First avenue to Avenue A .....	2,107.22	629.00
	Crosswalks at Avenue B and Eighty-fourth street .....	42.90	9.00
Total .....		33,174.62	9,512.33
<i>Laid by Property-owners, Asphalt Pavement.</i>			
West End avenue .....	Seventy-second to Seventy-sixth street .....	4,927.00	1,025.33
Seventy-third street .....	Boulevard to West End avenue .....	2,066.00	619.75
Total .....		6,993.00	1,645.08
RECAPITULATION.			
Granite pavement .....		36,754.73	9,049.75
Trap-block pavement .....		33,174.62	9,512.33
Asphalt pavement .....		6,993.00	1,645.08
Total new pavement laid .....		76,922.35	20,207.16

In addition to the foregoing, and under the certificate of the Commissioner of Public Works as to their necessity, crosswalks were laid at the following points, upon streets already paved, the cost to be assessed upon the property benefited, viz.:

Across Forty-second street, at west side of Vanderbilt avenue.

Across Canal street, at west side of Chrystie street.

The following contracts for new pavement are under way and will all, probably, be completed during this season:

Eighth avenue, from One Hundred and Forty-fifth to One Hundred and Fifty-ninth street.

Eleventh avenue, from One Hundred and Fifty-fifth street to Kingsbridge road.

One Hundred and Thirty-fifth street, from Seventh to Madison avenue.

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

One Hundred and Fourth street, from Eighth to Ninth avenue.

One Hundred and Seventh street, from First avenue to East river.

Ninety-first street, from Eighth to Ninth avenue.

Seventy-seventh street, from Eighth to Ninth avenue.

Manhattan avenue, from One Hundred and Sixteenth street to St. Nicholas avenue.

The paving of Sixty-seventh street, by property-owners, from Second avenue to Avenue A, is also in progress and will soon be completed.

#### STREET OPENINGS.

The following work was done during the quarter under the supervision of this Bureau:

9,517 openings were made to repair all mains other than Croton water-mains, and to make repairs of and connections for gas, steam, water, sewers and electric lights and subways.

4,107 notices were sent from this office to corporations and others to repair bad pavement over their openings.

3,613 bad places in the city pavements were repaired in compliance with above notices.

23.91 miles of gas-mains were laid.

2.60 miles of trench were opened for subways and other electrical appliances.

3,782 linear feet of salt-water mains were laid.

116 linear feet of single horse-car tracks were laid.

60 poles were erected by electric-light companies.

125 poles were erected by telegraph and telephone companies.

I would further state that the various corporations whose work compels them to open the streets of the city have voluntarily repaired some twenty-five hundred defects in pavement over the lines of their trenches, and have thus relieved this Bureau of the necessity of serving notices for such repairs.

In addition to the foregoing general statement of work done during the quarter under the supervision of this Bureau, and in obedience to your letter of instructions of June 26, I report that I have specifically recommended the repavement, with specification granite or trap-blocks, of all streets in the city paved with cobble-stones and not under land grants. The permission of the Common Council for authority to pave the following of these streets has been asked and granted, and contracts for the work are now preparing, and will be let upon an early date, viz.:

Mott street, from Canal to Bleecker street.

Greene street, from Bleecker to Eighth street.

Dry Dock street, from Tenth to Twelfth street.

Tompkins street, from Fourteenth to Sixteenth street.

Ludlow street, from Stanton to Houston street.

York street, from St. John's lane to West Broadway.

St. John's lane, from Beach to Lighthouse street.

Cottage place, from Houston to Bleecker street.

Grove street, from Hudson street to Waverley place.

Ridge street, from Stanton to Houston street.

Suffolk street, from Rivington to Stanton street.

Thompson street, from Bleecker to Fourth street.

Twenty-ninth street, from Ninth to Tenth avenue.

Forty-ninth street, from Eleventh avenue to North river.

Cherry street, from Jackson to Clinton street.

Monroe street, from Gouverneur to Jackson street.

Waverley place, from Christopher to Bank street.

Twenty-seventh street, from Ninth to Tenth avenue.

Fortieth street, from Tenth to Eleventh avenue.

Thirtieth street, from Gansevoort street to Ninth avenue.

Perry street, from Washington to Bleecker street.

Lewis street, from Grand to Delancey street.

Montgomery street, from Division to Water street.

At various times during the years 1887 and 1888, I have called attention to the necessity of repaving many of our streets and avenues in which the paving-blocks have become very worn and irregular. The following is a list of streets so recommended:

Sixth avenue, from Forty-second to Fifty-fifth street. Now under contract to be relaid from Forty-sixth to Forty-ninth street, west side.

Nassau street, from Wall to Spruce street. Now under contract to be relaid from Wall to Spruce street.

Cortlandt street, from Broadway to Greenwich street. Relaid last year from Broadway to Church street.

Warren street, from Broadway to College place. Relaid last year from Broadway to Church street; now under contract to be relaid from Church to Greenwich street.

Murray street, from Broadway to College place. Relaid last year from Broadway to Church street.

Franklin street, from Broadway to Church street.

John street, from Broadway to Water street. Now under contract to be relaid from Broadway to Pearl street.

West Broadway, from Chambers to Canal street.

South Fifth avenue, from Canal to Fourth street.

Frankfort street, from Park Row to Pearl street.

Church street, from Fulton to Rector street.

Seventh avenue, from Fifty-fourth to Fifty-fifth street.

Maiden Lane, from Broadway to South street.

Canal street, from Broadway to West street.

Hoboken street, from Canal to West street.

Watts street, from Canal to West street.

Desbrosses street, from Canal to West street.

Vestry street, from Canal to West street.

Lighthouse street, from Canal to West street.

Hubert street, from Hudson to West street.

Beach street, from West Broadway to West street.

York street, from West Broadway to St. John's lane.

North Moore street, from West Broadway to West street.

Franklin street, from West Broadway to West street.

Harrison street, from Hudson to West street.

Jay street, from Hudson to West street.

Duane street, from West Broadway to West street.

Leonard street, from West Broadway to Hudson street.

Worth street, from West Broadway to Hudson street.

Thomas street, from West Broadway to Hudson street.

Reade street, from West Broadway to West street.

Chambers street, from West Broadway to West street.

Barclay street, from College place to West street. Now under contract to be relaid from College place to Washington street.

Cortlandt street, from Broadway to West street.

Cedar street, from Broadway to West street.

Albany street, from Washington to West street.

Carlisle street, from Greenwich to West street.

Battery place, from Broadway to West street.

West street, from Canal street to Battery place.

Washington street, from Canal street to Battery place.

Greenwich street, from Christopher street to Battery place.

Caroline street, from Jay to Duane street.

Collister street, from Beach to Lighthouse street.

Staple street, from Duane to Harrison street.

Hudson street, from Canal to Chambers street.

St. John's lane, from Beach to Lighthouse street.

Pearl street, from Whitehall to Dover street. Now under contract to be relaid from Whitehall to Broad street.

Cherry street, from Catharine to East street.

Water street, from Whitehall to Market street.

Front street, from Old Slip to Maiden Lane.

South street, from Whitehall to Corlears street.

Whitehall street, from South street to Broadway.

Moore street, from South to Pearl street.

Coenties Slip, from Front to Pearl street.

Cuyler's alley, from South to Water street.

Old Slip, from South to Pearl street.

Gouverneur lane, from South to Water street.

Jones street, from South to Front street.

Wall street, from South to Pearl street.

Pine street, from South to Pearl street.

DePeyster street, from South to Water street.

Fletcher street, from South to Pearl street.

Burling Slip, from South to Water street.

Beekman street, from South to Pearl street.

Peck Slip, from South to Pearl street.

Dover street, from South to Pearl street.

James street, from South to Cherry street.

Catharine street, from South to Cherry street. Now under contract to be relaid from Madison to South street.

Market Slip, from South to Cherry street.

Rutgers street, from South to Cherry street.

Jefferson street, from South to Cherry street.

Clinton street, from South to Cherry street.

Montgomery street, from South to Cherry street.

Gouverneur street, from South to Cherry street.

Jackson street, from South to Cherry street.

Corlears street, from South to Cherry street.

East street, from Water to Grand street.

Report of February 9, 1887:

Whitehall street, from South Ferry to Broadway.

Broadway, from Whitehall to Fifty-ninth street. Now under contract to be relaid from Thirty-sixth to Thirty-seventh street, west side; Fifty-first to Fifty-second street, east side; Fifty-second to Fifty-third street, west side.

Pearl street, from Dover street to Broadway.

Canal street, from Broadway to East Broadway.

Reade street, from Broadway to Park Row.

James Slip, from Cherry to South street.

Chambers street, from Hudson to Broadway.

Chambers street, from Centre street to Park Row.

New Chambers street, from Park Row to Cherry street.

New Bowery, from Pearl to Chatham Square.

Park Row, from Broadway to Bowery.

Bowery, from Chatham Square to Sixth street.

East Broadway, from Chatham Square to Grand street.

Grand street, from Broadway to East river.

Fulton street, from Broadway to East river.

Fulton street, from Broadway to North river.

Broad street, from Wall to South street.

Eighty avenue, from Greenwich avenue to One Hundred and Twenty-fifth street.

(Present blocks should be relaid from Fifty-ninth to One Hundred and Twenty-fifth street.)

Third avenue, from Sixth street to Harlem river. Relaid last year from Ninety-sixth to Ninety-seventh street; now under contract to be relaid from Forty-third to Forty-fourth street.

Second avenue, from Houston street to Harlem river. Now under contract to be relaid from One Hundred and Sixth to One Hundred and Tenth street.

Centre street, from Printing House Square to Chambers street.

William street, from Beaver street to Park Row. Now under contract to be relaid from Hanover Square to North William street.

Printing House Square and Tryon Row.

Park place, from Broadway to West street.

Lexington avenue, from Twenty-first to Ninety-fifth street. Relaid last year from Fifty-first to Fifty-second street, Fifty-fourth to Fifty-seventh street, Seventy-seventh to Seventy-eighth street, Eighty-third to Eighty-fifth street, Ninety-fourth to Ninety-fifth street. Now under contract for relaying from Fifty-third to Fifty-fourth street, Fifty-seventh to Fifty-eighth street, Sixty-third to Sixty-sixth street, Seventy-first to Seventy-second street, Seventy-fourth to Seventy-fifth street, Seventy-eighth to Seventy-ninth street and Eighty-first to Eighty-second street.

Hudson street, from Chambers to Beach street.

Many of the above streets are important thoroughfares, and the imperfect condition of their roadways seriously interferes with the heavy traffic which they are called upon to sustain. No authority has yet been obtained for their repavement; but the improvement is most urgent and should be carried out at the earliest possible date.

Contracts were made in June for taking up and relaying about 190,000 square yards of pavements in the following streets. The contractors will be required to use great expedition in the prosecution of the work, in order that it may be completed during the present season:

The streets embraced in the contracts are—

Warren street, between Church and Greenwich streets.

Barclay street, between College place and Washington street.

John street, between Broadway and Pearl streets.

Bayard street, between Bowery and Elizabeth street.

Catharine street, between Madison and South streets.

Chrystie street, between Hester and Canal streets.

Mulberry street, between Houston and Bleecker streets.

Eleventh street, between Broadway and University place.

Spring street, between Broadway and West street.

Broome street, between Broadway and Hudson street, and between Bowery and Ludlow street.

Roosevelt street, between South and Water streets.

William street, between Hanover Square and North William street.

North William street, between William street and Park Row.

Nassau street, between Wall and Spruce streets.

Pearl street, between Whitehall and Broad streets.

Beaver street, between Pearl and New streets.

Twenty-fifth street, from Sixth avenue to 600 feet east.

Thirty-ninth street, between Fifth and Sixth avenues.

Fortieth street, between Fifth and Sixth avenues.

Forty-fifth street, between Fifth and Sixth avenues and between Eighth and Ninth avenues.

Forty-sixth street, from Fifth avenue to 290 feet east.

Fifty-eighth street, between Fifth and Sixth avenues and between Sixth and Seventh avenues.

Sixth avenue, west side, between Forty-sixth and Forty-ninth streets.

Third avenue, east side, between Forty-third and Forty-fourth streets.

Lexington avenue, between Fifty-third and Fifty-fourth streets, Fifty-seventh and Fifty-eighth streets, Sixty-third and Sixty-sixth streets, Seventy-first and Seventy-second streets, Seventy-fourth and Seventy-fifth streets, Seventy-eighth and Seventy-ninth streets, and Eighty-first and Eighty-second streets.

Fourth avenue, east side, between Seventeenth and Twenty-third streets.

Madison avenue, between Fifty-fifth and Fifty-sixth streets.

Broadway, east side, between Fifty-first and Fifty-second streets; west side, between Thirty-sixth and Thirty-seventh streets, and between Fifty-second and Fifty-third streets.

Forty-seventh street, between Broadway and Eighth avenue.

Forty-eighth street, between Broadway and Eighth avenue.

Forty-ninth street, between Seventh and Eighth avenues.

Fifty-first street, between Fifth and Sixth avenues.

Fifty-second street, between Sixth and Seventh avenues, and between Ninth and Tenth avenues.

Fifty-third street, between Sixth and Seventh avenues.

Fifty-fifth street, between Fifth and Sixth avenues.

Twenty-eighth street, between Fifth and Madison avenues and between Fourth and Madison avenues.

Thirty-first street, between Third and Lexington avenues.

Thirty-second street, between Second and Third avenues.

Thirty-fourth street, between Fifth and Madison avenues, and between Fourth and Madison avenues.

Forty-fifth street, between Second and Third avenues.

Forty-sixth street, between Second and Third avenues.

Forty-seventh street, between Second and Third avenues.

Forty-ninth street, between Lexington and Third avenues and between First and Second avenues.

Fiftieth street, between Fifth and Madison avenues.

Fifty-fifth street, between Fourth and Lexington avenues.

Fifty-sixth street, between Fourth and Lexington avenues.

Sixty-third street, between Fourth and Lexington avenues.

Sixty-fifth street, between Second and Third avenues.

Seventy-first street, between First and Second avenues, between Third and Lexington avenues, and between Ninth and Tenth avenues.

Seventy-ninth street, between First and Lexington avenues.

Seventy-eighth street, between Madison and Fourth avenues.

Seventy-ninth street, between Third and Lexington avenues.

One Hundred and Twenty-sixth street, between Fourth and Fifth avenues, and between Sixth and Seventh avenues.

One Hundred and Nineteenth street, between Second and Third avenues.

Lawrence street, between One Hundred and Twenty-sixth and One Hundred and Twenty-ninth streets.

Second avenue, between One Hundred and Sixth and One Hundred and Tenth streets.

As will be seen by the foregoing report, several of the streets contained in the above list have been relaid already, and several others are now in progress.

Respectfully submitted,

A. G. CULVER, Water Purveyor.

### Document "F."

#### 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, July 3, 1888.

Gen. JOHN NEWTON, *Commissioner of Public Works*:

DEAR SIR—Herewith I beg to submit my report of the transactions of this office for the quarter ending June 30, 1888.

13,127 linear feet of new sewers, and 11 receiving-basins have been built; making the present total length of the sewerage of the city 2,241,925 linear feet (424 $\frac{89}{100}$  miles), with 5,123 receiving-basins.

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

Sewer in One Hundred and Fifty-eighth street, between Tenth and Eleventh avenues.

Sewer in Forty-fourth street, between summit east of Sixth avenue and Sixth avenue, etc.

Sewer in Tompkins street, between Rivington and Delancey streets.

Sewer in Eighty-second street, between Boulevard and Riverside avenue.

Sewer in Avenue B, between Eighty-third and Eighty-fourth streets.

Sewer in Pleasant avenue, between One Hundred and Sixteenth and One Hundred and Seventeenth streets.

Sewer in One Hundred and Fifteenth street, between Madison and Fifth avenues.

Sewer in One Hundred and Thirty-sixth street, between Seventh and Sixth avenues.

Sewer in Thirty-first street, between First avenue and East river.

Sewer in Edgecombe road, between One Hundred and Fortieth and One Hundred and Forty-first streets.

Sewer in One Hundred and Forty-fifth street, between Tenth avenue and Boulevard.

Sewer in Fourth avenue, west side, between One Hundred and Twenty-first and One Hundred and Twenty-third streets, etc.

Sewer in Fourth avenue, east side, between One Hundred and Twentieth and One Hundred and Twenty-first streets.

Sewer in Tenth avenue, between One Hundred and Thirty-third and One Hundred and Thirtieth streets.

Sewer in Avenue St. Nicholas, between One Hundred and Twenty-sixth street and a point 469 feet north of One Hundred and Thirtieth street.

Sewer in Eighth avenue, west side, between Eighty-fourth and Eighty-fifth streets, extension.

Sewer in Ninety-second street, between Ninth avenue and Boulevard.

Sewer in Fourth avenue, west side, between Seventy-third and Seventy-fourth streets.

Sewer in One Hundred and Fortieth street, between Eighth and Edgecombe avenues.

Basin on southwest corner of One Hundred and Fifteenth street and Fifth avenue.

Basin on northeast corner of Sixty-fourth street and First avenue.

Basin on southeast corner of One Hundred and Fifth street and Fourth avenue.

Basin on northwest corner of One Hundred and Thirtieth street and Pleasant avenue.

There are now in progress contracts for 41 sewers and 1 receiving-basin.

Two contracts for repairs to sewers, payable from appropriation of "Sewers—Repairing and Cleaning," 1888, have been completed, viz.:

Alterations and repairs to sewer in Houston street, between Goerck and Mangin streets.

Repairs to sewer in Sixth street, between Avenues B and C.

691 basins and 30,395 linear feet of sewer have been cleaned, and 2,157 linear feet of sewer have been repaired.

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 JUNE 30, 1888.

Credit to General Fund—	
Amount received for 429 permits for sewer connections.....	\$8,476 97
Engineers' Fees—	
Amount of Engineers' fees assessed on property benefited, charged on assessment lists and credited to Street Improvement Fund.....	\$4,444 55
Sewers—Repairing and Cleaning—1888—	
Balance on hand, March 31, 1888.....	\$128,527 19
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Laborers, etc.....	\$16,848 75
On contracts for repairs.....	3,197 67
Special repairs (under \$1,000).....	16,073 90
Materials and sundries.....	8,228 69
Balance on hand, June 30, 1888.....	\$4,178 18
	128,527 19
Sewers—Repairing and Cleaning—1887—	
Balance on hand, March 31, 1888.....	\$5,140 26
Vouchers transmitted to the Commissioner of Public Works—	
On contracts for repairs, etc.....	\$3,149 10
Balance on hand, June 30, 1888.....	1,991 16
	5,140 26
Salaries—Sewers—Repairing and Cleaning—	
Balance on hand, March 31, 1888.....	\$7,652 00
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Inspectors, etc.....	\$2,476 66
Balance on hand, June 30, 1888.....	5,175 34
	7,652 00
Salaries—Sewerage System—	
Balance on hand, March 31, 1888.....	\$13,275 01
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Engineers, etc.....	\$3,737 95
Balance on hand, June 30, 1888.....	9,537 06
	13,275 01
Salaries—Surveys, Maps, etc., for Street Openings and New Streets—	
Balance on hand, March 31, 1888.....	\$4,754 03
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Draughtsmen.....	\$1,575 00
Balance on hand, June 30, 1888.....	3,179 03
	4,754 03
Boring Examinations for Grading and Sewer Contracts—	
Balance on hand, March 31, 1888.....	\$2,944 64
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Axemen, etc.....	\$897 00
Balance on hand, June 30, 1888.....	2,047 64
	2,944 64
Real Estate Expenses—Finance Department—	
Appropriation (Special).....	\$233 32
Voucher transmitted to the Commissioner of Public Works.....	233 32
Restoring and Repaving—Special Fund—	
Amount received for permits for street openings.....	\$7,384 50

#### Street Improvement Fund—

Vouchers transmitted to the Commissioner of Public Works—

Pay-rolls of Engineers, etc.....	\$18,881 33
On contracts for sewers, etc.....	75,534 78
	\$94,416 11

#### Work done by Laborers and Mechanics—

691 receiving-basins and culverts cleaned.	
78 receiving-basins relieved.	
30,395 linear feet of sewer cleaned.	
96 linear feet of sewer rebuilt.	
2,157 linear feet of sewer repaired.	
183 linear feet of new pipe sewer built.	
144 linear feet of spur-pipe laid.	
590 linear feet of culvert rebuilt.	
125 linear feet of new curb set.	
14 linear feet of old curb reset.	
8 linear feet of gutter-stone reset.	
82 linear feet of new bulkhead built.	
16 receiving-basins rebuilt.	
73 receiving-basins repaired.	
230 manholes repaired.	
56 new basin-heads and covers put on.	
28 new manhole heads and covers put on.	
25 new basin covers put on.	
28 new manhole covers put on.	
9 basin-heads reset.	
202 manhole-heads reset.	
25 new manholes built.	
2,250 cubic yards of earth excavated and refilled.	
725 square yards of pavement relaid.	
21 square feet of new flagging laid.	
1,397 square feet of flagging relaid.	
70 cart-loads of earth filling.	
2,315 cart-loads of dirt removed.	

### Document "G."

#### REPORT OF THE SUPERINTENDENT OF STREET IMPROVEMENTS.

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF STREET IMPROVEMENTS, ROOM 5, NO. 31 CHAMBERS STREET,  
NEW YORK, July 5, 1888.

Gen. JOHN NEWTON, *Commissioner of Public Works*:

SIR—In accordance with your instructions I have the honor to submit herewith my report of the transactions of the Bureau of Street Improvements for the quarter ending June 30, 1888.

Respectfully,

W. M. DEAN, Superintendent Street Improvements.

#### STATEMENT OF THE AMOUNT OF WORK DONE DURING THE QUARTER ENDING JUNE 30, 1888.

Earth excavation.....	cubic yards.	7,590
Rock excavation.....	"	19,348
Filling furnished.....	"	37,588
Curb-stones set.....	linear feet.	13,283 $\frac{78}{100}$
" reset.....	"	4,469 $\frac{471}{100}$
Flagging laid.....	square feet.	70,608 $\frac{10}{12}$
" relaid.....	"	7,374 $\frac{87}{100}$
Picket fence.....	linear feet.	7,881 $\frac{28}{100}$
Retaining-wall.....	cubic yards.	3,624
6-inch drain-pipe laid.....	linear feet.	200

#### AMOUNT OF VOUCHERS DRAWN.

On account of—	
Fund for Local Improvements.....	\$864 75
Local Improvement Fund.....	2,350 40
Street Improvement Fund.....	91,928 95
Street Improvements—For Surveying, Monumenting, etc.....	321 50
Flagging Sidewalks and Fencing Vacant Lots, etc.....	227 50
Contingencies of Department of Public Works.....	270 00
Total.....	\$95,969 10

#### APPROPRIATIONS.

Street Improvements—For Surveying, Monumenting and Numbering of Streets, 1888.....	\$3,000 00
Amount of vouchers drawn during first quarter.....	\$280 00
Amount of vouchers drawn during second quarter.....	321 50
Outstanding liabilities (estimated).....	625 00
Balance (estimated).....	1,773 50
	3,000 00
Flagging Sidewalks and Fencing Vacant Lots in Front of City Property, etc., 1888.....	\$14,000 00
Amount of vouchers drawn during first quarter, 1888.....	\$227 50
Outstanding liabilities (estimated).....	8,501 50
Balance (estimated).....	5,271 00
	14,000 00
Contingencies of Department of Public Works—	
Amount of vouchers drawn during the quarter.....	\$270 00

#### WORKS COMPLETED.

Regulating, Grading, etc.—	
Manhattan avenue, between One Hundred and Thirteenth and One Hundred and Sixteenth streets.....	\$2,358 46
Eighty-sixth street, Ninth avenue to Riverside Drive.....	1,387 30
One Hundred and Seventh street, Eighth to Ninth avenue.....	10,139 61
One Hundred and Fourteenth street, Eighth to Ninth avenue.....	5,177 84
One Hundred and Fifteenth street, Eighth to Ninth avenue.....	5,020 53
One Hundred and Eighteenth street, Eighth to Ninth avenue.....	4,036 32
One Hundred and Forty-eighth street, Seventh to Eighth avenue.....	10,657 07
One Hundred and Fiftieth street, Tenth to St. Nicholas avenue.....	2,367 16
One Hundred and Fifty-ninth street, St. Nicholas avenue to Edgecombe road.....	2,444 96
One Hundred and Sixty-first street, St. Nicholas to Tenth avenue.....	680 18
One Hundred and Sixty-first street, Tenth to Eleventh avenue.....	10,374 04
Hamilton place, Boulevard to Tenth avenue.....	17,618 28
	\$72,261 75
Flagging—	
Southeast corner Lexington avenue and One Hundred and Twenty-seventh street.....	\$255 20
East side Fourth avenue, One Hundred and Twenty-fourth and One Hundred and Twenty-fifth streets.....	131 23
East side Ninth avenue, Eighty-first to Eighty-second street, etc.....	653 69
Northeast corner Ninth avenue and Ninety-second street.....	331 61
East side Tenth avenue, Sixty-first to Sixty-second street, etc.....	510 03
South side Fourteenth street, Avenue B to Avenue C.....	813 00
North side Thirty-third street, 100 feet west of Ninth avenue.....	280 27
South side Seventy-first street, 100 feet west of Second avenue, etc.....	178 00
North side One Hundred and Tenth street, Madison to Fifth avenue.....	780 69
North side One Hundred and Seventeenth street, Fifth to Sixth avenue.....	432 42
West side Madison avenue, One Hundred and Twenty-seventh to One Hundred and Twenty-eighth street, etc.....	685 71
	5,060 85

## Fencing Vacant Lots—

Southeast corner One Hundred and Sixteenth street and Manhattan avenue.....	\$194 02
Fifth and Lenox avenues, One Hundred and Twenty-eighth to One Hundred and Twenty-ninth street.....	96 77
Northeast corner Seventh avenue and One Hundred and Twenty-seventh street.....	140 19
Seventy-eighth and Seventy-ninth streets, Ninth and Tenth avenues.....	149 34
Ninety-third and Ninety-fourth streets, Eighth and Ninth avenues.....	904 39
Ninety-sixth street, Eighth to Ninth avenue.....	730 51
One Hundred and Sixth and One Hundred and Seventh streets, Manhattan and Ninth avenues.....	693 99
One Hundred and Sixth and One Hundred and Seventh streets, Boulevard and Tenth avenue.....	560 33
One Hundred and Seventh and One Hundred and Eighth streets, Tenth avenue and Boulevard.....	704 40

## Fencing Vacant Lots—

One Hundred and Thirteenth and One Hundred and Fourteenth streets, Madison and Fifth avenues.....	\$476 36
One Hundred and Fourteenth and One Hundred and Fifteenth streets, Madison and Fifth avenues.....	119 53
	\$4,769 83
	\$82,092 43
RECAPITULATION.	
12 contracts for regulating, grading.....	\$72,261 75
11 contracts for flagging.....	5,060 85
11 contracts for fencing vacant lots.....	4,769 83
34 contracts, amounting to.....	\$82,092 43

## Statement showing Works under Contract in Bureau of Street Improvements on the 30th day of June, 1888.

LOCATION OF WORK.	CONTRACTOR.	SURVEYOR.	INSPECTOR.	CONTRACT TIME.	ESTIMATED COST.	AMOUNT EARNED.	AMOUNT RETAINED.	AMOUNT PAID.	REMARKS.
<i>Regulating, Grading, Curb, Flagging and Retaining Walls.</i>									
Fort Washington Ridge road.....	Allen & O'Maley.....	J. McL. Smith.....	{ James R. Mount } { and I. Turner. }	400 days.	\$130,161 70	\$152,684 00	\$45,805 20	\$106,878 80	
Kingsbridge road, One Hundred and Ninetieth street to Harlem river.....	B. F. Coleman.....	J. McL. Smith.....	William J. Girvan.....	300 "	204,990 00	22,550 00	6,765 00	15,785 00	
Edgecomb avenue, One Hundred and Forty-fifth street to St. Nicholas place.....	John F. Dawson.....	J. McL. Smith.....	Leander Buck.....	300 "	86,826 06	76,835 00	23,050 50	53,784 50	
First new avenue, One Hundred and Forty-second to One Hundred and Forty-fifth street.....	Bernard Mahon.....	Robert L. Waters.....		275 "	17,414 96	10,614 00	3,184 20	7,429 80	{ Work completed, but not yet accepted.
First new avenue, One Hundred and Forty-fifth to One Hundred and Fifty-fifth street.....	William J. Kelly.....	J. McL. Smith.....	Charles Myers.....	500 "	55,120 00	33,840 00	10,152 00	23,688 00	
Tenth avenue, Sixty-fifth to Seventy-ninth street.....	Gallagher & Davey.....	Robert J. Dodge.....	G. Hornum.....	21 "	3,886 00				
Manhattan avenue, One Hundredth to One Hundred and Fifth street.....	P. McEnerney.....	Frank E. Towle.....	Mark Neary.....	50 "	3,891 20				
Centre, White, Elm and Franklin streets.....	P. H. Kerwin.....	Frank E. Towle.....	B. V. Fraser.....	5 "	3,551 50				
Forty-ninth street, First avenue to Beekman place.....	John J. Rogers.....	James R. Wardlaw.....	Patrick Kelly.....	90 "	13,774 10	3,445 80	1,033 74	2,412 06	
Sixty-third street, Tenth to Eleventh avenue.....	James Slattery.....	Frank E. Towle.....	Isaac Smith.....	200 "	22,846 55	18,445 00	5,533 50	12,911 50	
Ninety-first street, Ninth to Tenth avenue.....	John W. Phelan.....	Richard Amerman.....	Patrick C. McGuire.....	400 "	19,650 00	4,544 85	1,363 46	3,181 39	
Ninety-second street, Boulevard to Riverside Drive.....	J. J. Farley.....	W. H. McDonough.....	R. V. Davis.....	300 "	40,018 36				
Ninety-seventh street, Boulevard to Riverside Drive.....	Thomas Murray.....	Robert L. Waters.....		14 "	4,195 88				{ Work completed, but not yet accepted.
One Hundred and Second street, Ninth avenue to Riverside Drive.....	J. H. Sullivan.....	J. McL. Smith.....	Nathan Frank.....	265 "	28,127 55	22,564 00	6,769 20	15,794 80	
One Hundred and Eighth street, Eighth to Manhattan avenue.....	John Cox & Co.....	M. A. Lacy.....		300 "	6,155 60	3,900 00	1,170 00	2,730 00	{ Work completed, but not yet accepted.
One Hundred and Eighth street, Ninth avenue to Boulevard.....	James Slattery.....	Frank E. Towle.....	Thomas W. Gibbons.....	60 "	6,136 90				
One Hundred and Eighth street, Boulevard to Riverside Drive.....	B. J. Carr, Jr.....	Robert L. Waters.....	J. McCue.....	15 "	1,548 80				
One Hundred and Ninth street, Eighth to Manhattan avenue.....	J. J. Farley.....	Thomas Slater.....	J. McShane.....	40 "	4,084 08				
One Hundred and Thirty-eighth street, Tenth avenue to Boulevard.....	Bernard Mahon.....	J. McL. Smith.....	Frederick G. Fay.....	125 "	13,475 33	6,143 60	1,843 08	4,300 52	
One Hundred and Fortieth street, Tenth avenue to Boulevard.....	M. Fortunato.....	W. H. McDonough.....	John Lawrence.....	100 "	8,728 95				
One Hundred and Fiftieth street, St. Nicholas to Edgecomb avenue.....	John F. Dawson.....	Robert J. Dodge.....	E. C. Brady.....	60 "	3,289 00				
<i>Special Contracts.</i>									
Flagging—									
One Hundred and Second street, First avenue to Harlem river.....	P. H. Kerwin.....	M. A. Lacy.....	D. Crimmins.....	5 "	769 34				
One Hundred and Second street, south side Lexington avenue to Fourth avenue.....	P. H. Kerwin.....	M. A. Lacy.....		5 "	632 94				{ Work completed, but not yet accepted.
One Hundred and Third street, Fourth to Madison avenue.....	P. H. Kerwin.....	Frank E. Towle.....		5 "	98 00				{ Work completed, but not yet accepted.
Fencing Vacant Lots—									
One Hundred and Eighteenth and One Hundred and Nineteenth streets, Fifth to Sixth avenue.....	Bernard A. Roth.....	Robert J. Dodge.....	Edward Gobel.....	10 "	525 00				
One Hundred and Thirteenth and One Hundred and Fourteenth streets, Eighth to Manhattan avenue.....	Bernard A. Roth.....	Frank E. Towle.....		10 "	441 00				Work not yet commenced.
Nineteenth and Ninety-first streets, Eighth to Ninth avenue.....	Bernard A. Roth.....	Frank E. Towle.....		10 "	252 50				Work not yet commenced.
				Total....	\$680,680 30	\$355,566 25	\$106,669 88	\$248,896 37	

## Document "H."

## REPORT OF THE SUPERINTENDENT OF STREETS.

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF STREETS AND ROADS, NO. 31 CHAMBERS STREET,  
NEW YORK, July 5, 1888.

Gen. JOHN NEWTON, Commissioner of Public Works:

SIR—In compliance with your instructions I herewith submit the following report of work done and material used; also, the amount expended from the various appropriations under the charge of this Bureau for the quarter ending June 30, 1888, the expenses of which were defrayed from the appropriations for "Boulevards, Roads and Avenues, Maintenance of," and "Roads, Streets and Avenues Unpaved, Maintenance of, and Sprinkling and Salaries."

Respectfully,

GEORGE E. BABCOCK, Superintendent of Streets.

The following statement shows the amount of work done on boulevards, roads and avenues during the quarter ending June 30, 1888:

Roadway and gutters cleaned.....	1,122,942 square yards.
Gutters cleaned.....	31,165 "
Macadam pavement repaired.....	38,148 "
Block pavement repaired.....	20 "
Roadway covered with gravel-bank screenings.....	99,085 "
Roadway covered with sand.....	60,800 "
Roadway covered with trap-rock screenings.....	108 "
Roadway repaired with gravel.....	2,364 "
Gravel and rubble pavement repaired over basin connections.....	321 "
Flagging relaid.....	3,856 square feet.
Stone drain cleaned and repaired.....	60 lineal feet.
Pipe drain cleaned and repaired.....	572 "
Curb reset.....	141 "
Retaining-wall rebuilt.....	20 cubic yards.
Basins cleaned.....	53 "
Trees trimmed.....	612 "

The following material was used in making repairs on macadamized streets:

Broken stone.....	297 truck-loads.
Sand.....	35 "
Gravel-bank screenings.....	60 "
Telford stone.....	2 "
Gravel.....	63 "
Building stone for retaining-wall.....	17 "
Dirt.....	53 "
Trap-rock screenings.....	81 "

In addition to the above quantities 760 loads of gravel-bank screenings and 555 loads of sand furnished and delivered by contractors were spread by employees of the Bureau on Sixth and Seventh avenues and One Hundred and Forty-fifth street.

The following material was removed in cleaning the macadamized streets:

Dirt from roadway.....	7,561 truck-loads.
Stone.....	6 "
Basin dirt.....	79 "
Dirt from sewer connections.....	39 "
Dirt from sidewalks.....	11 "
Brush.....	28 "

—675 truck-loads of dirt were deposited on the street cleaning scow at Seventieth street and East river, and 780 truck-loads on street cleaning scow at Seventy-ninth street and North river.

Repairs were made to dangerous holes in sidewalks, at the following places:

Tenth avenue, between One Hundred and Sixty-second and One Hundred and Sixty-fourth streets, 9 places.  
Boulevard, between Seventy-third and One Hundred and Thirty-eighth streets, 8 places.  
One Hundred and Forty-fifth street, between Sixth and Seventh avenues, 5 places.  
Sixth avenue, between One Hundred and Thirty-seventh and One Hundred and Forty-fifth streets, 10 places.

The following material was used in making above repairs:

Dirt.....	78 truck-loads.
Sand.....	42 "

Repairs have been made with sweepings from macadam roadways, on the following unpaved streets:

Tenth avenue, between One Hundred and Eleventh and One Hundred and Twelfth streets and One Hundred and Sixty-third and One Hundred and Sixty-fourth streets.  
Tenth avenue, between One Hundred and Sixty-seventh and One Hundred and Sixty-ninth streets, and at One Hundred and Fifty-first street.  
Tenth avenue, between One Hundred and Forty-fifth and One Hundred and Forty-seventh streets and One Hundred and Twenty-third and One Hundred and Twenty-fifth streets.  
One Hundred and Fifty-first street, between Tenth and St. Nicholas avenues.  
Ninety-sixth street, west of Tenth avenue.  
One Hundred and Twenty-sixth street, between Ninth and St. Nicholas avenues.  
One Hundred and Fifty-ninth street, between Tenth and Eleventh avenues.  
Ninety-fifth street, west of Boulevard.  
Ninety-eighth street, east and west of Boulevard.  
One Hundred and Third street, west of Boulevard.  
One Hundred and Eighth street, east of Boulevard.  
One Hundred and Fourth street, west of Boulevard.  
One Hundred and Forty-first street, between Coogan and St. Nicholas avenues.  
One Hundred and Fifteenth street, between Boulevard and Riverside Drive.  
One Hundred and Sixth street and Tenth avenue.  
Ninety-seventh street, west of Tenth avenue.  
One Hundred and Fifty-eighth street, between Tenth and Eleventh avenues.  
One Hundred and Twenty-fifth street, between Boulevard and Tenth avenue.  
Ninety-seventh street, east of Boulevard.  
One Hundred and Seventeenth street, between Fifth and Madison avenues.  
One Hundred and Eighteenth street, between Fifth and Sixth avenues.  
One Hundred and Eighteenth street, between First and Second avenues.  
One Hundred and Eleventh street, between Sixth and Eighth avenues.  
One Hundred and Twenty-first street, between Seventh and Eighth avenues.  
One Hundred and Eighteenth street, between Seventh and St. Nicholas avenues.  
There were used in making the above repairs, 2,630 truck-loads of sweepings.

13 sewer and 17 water connections have been repaved. For this purpose the following material was used:

Telford	117 cart-loads.
Trap-rock screenings	22 "
Gneiss spalls	10 "
Sand	9 "
Broken stone	32 "
Dirt removed	10 "

The work at the repair-shops has been pushed vigorously forward and most of the sprinkling-wagons, snow-ploughs, rollers, etc., are now in good condition. 10 new water-barrels have been painted and placed on the running gear of the sprinklers. A new cab for Steam-roller No. 4 has been built and placed. 12 sets of new whiffletrees for horse rollers have been supplied and the rollers generally overhauled. 15 sets of new whiffletrees have been supplied and painted. Other work, too numerous to mention, has been done to repair the plant of the Bureau.

All of the macadamized streets and avenues have been sprinkled. There were used for this purpose, 23,610 barrels or loads, equivalent to 13,370,845 gallons of water.

The following is the account of work done on unpaved streets during the quarter:

#### Regraded and Gutters Opened.

Eleventh avenue, between One Hundred and Sixty-sixth and One Hundred and Eighty-fifth streets.

One Hundred and Eighty-fifth street, between Kingsbridge Road and Tenth avenue.  
Eighth avenue, between One Hundred and Fifty-third and One Hundred and Fifty-fifth streets.  
Seventieth street, between Eighth and Ninth avenues.

West End avenue, between Sixty-fifth and Seventieth streets.

Pleasant avenue, between One Hundred and Fourteenth and One Hundred and Fifteenth streets.

St. Nicholas avenue, between One Hundred and Fifty-fifth street and Tenth avenue.

Ninety-eighth street, between Third and Lexington avenues.

One Hundred and Second street, between First avenue and Avenue A.

Eighty-seventh street, between First avenue and Avenue A.

One Hundred and Forty-sixth street, between St. Nicholas and Tenth avenues.

Boulevard, north of One Hundred and Fifty-eighth street.

One Hundred and Sixth street, between Avenue A and East river.

Ninetieth street, between Avenue A and East river.

One Hundred and Fourteenth street, between First avenue and East river.

Kingsbridge road, between One Hundred and Eighty-sixth and One Hundred and Ninetieth streets, and between One Hundred and Sixty-fifth and One Hundred and Seventieth streets.

Fort Washington Depot lane, Kingsbridge road to Hudson river.

Dangerous holes have been repaired on the following streets:

Tenth avenue, between One Hundred and Forty-fifth and One Hundred and Forty-sixth streets.

One Hundred and Twenty-second and One Hundred and Twenty-third streets, and at One Hundred and Forty-third street.

Eleventh avenue, between One Hundred and Seventy-fourth, One Hundred and Seventy-first and One Hundred and Eighty-seventh streets.

One Hundred and Forty-first street, between St. Nicholas and Tenth avenues.

One Hundred and Twelfth street, between Fifth and Sixth avenues, and between Sixth and Seventh avenues.

One Hundred and Twentieth street, between Fifth and Sixth avenues.

Seventieth street and Twelfth avenue.

Kingsbridge road, between One Hundred and Eighty-fourth and One Hundred and Ninetieth streets.

One Hundred and Fifty-fourth street and Eighth avenue.

One Hundred and Seventy-fifth street, between Kingsbridge road and Eleventh avenue.

One Hundred and Eighty-fifth street and Tenth avenue.

One Hundred and Eighty-second street, between Tenth and Eleventh avenues.

One Hundred and Fifty-fifth street, between St. Nicholas place and Coogan avenue.

One Hundred and Second street, between First avenue and East river.

One Hundred and Fifteenth street, between Boulevard and Riverside Drive.

Inwood, near F street.

One Hundred and Fourteenth street, between Boulevard and Riverside Drive.

Surplus material has been removed from the following streets:

St. Nicholas avenue, between One Hundred and Fifty-fifth street and Tenth avenue.

One Hundred and First street, between Avenue A and East river.

Eighty-second street, between First avenue and Avenue A.

Eleventh avenue, between One Hundred and Seventy-sixth and One Hundred and Eighty-fifth streets.

Tenth avenue, between One Hundred and Seventy-fourth and One Hundred and Eighty-sixth streets.

Sixty-second street and Tenth avenue, sidewalk.

Roadway repaired with trap-rock, lime-stone screenings and sand.

Depot road, 736 square yards.

Roadway macadamized with gneiss rock, sand and trap-rock screenings at One Hundred and Twenty-ninth street and Twelfth avenue 340 "

Flagging reset. 535 square feet.

Curb reset. 60 lineal feet.

Bridge stone relaid. 1,392 square feet.

The following material was used in making the above repairs:

Dirt. 2,766 truck-loads.

Stone. 411 "

Lime-stone screenings. 47 "

Broken stone. 84 "

Sand. 13 "

The following was removed from unpaved streets:

Dirt. 930 truck-loads.

Sprinkling has been done on Kingsbridge road, between One Hundred and Fifty-fifth and One Hundred and Seventy-sixth streets; One Hundred and Seventy-fifth street, between Tenth avenue and Kingsbridge road; Fort Washington Depot road, between Kingsbridge road and the summit west.

The following is the condition of the roadway between rails and tracks on the several avenues mentioned below:

Avenue St. Nicholas (gravel roadway and rubble bottom), between One Hundred and Tenth and Manhattan streets.

For the greater portion of the distance between the points mentioned the roadways between the tracks have been worn down by the constant tread of the horses to a depth of about 4 inches below the top of the rail. This track is the property of the Forty-second Street, Manhattanville and St. Nicholas Avenue Railroad Company. The present condition of the road makes it extremely dangerous for travel, especially at the intersecting streets, with the exception of the junctions of St. Nicholas avenue, Seventh avenue and One Hundred and Sixteenth street, which have been recently paved with trap-block pavement. This Company has been several times notified to make the necessary repairs, but up to the present time has failed to make any permanent repairs, which could be considered as complying with the instructions.

One Hundred and Tenth street and First avenue—

The tracks in this location are the property of the same company, and cross First avenue at One Hundred and Tenth street (not used). The rails are from 1 to 2½ inches above the surface of the present roadway, which is macadamized; the pavement should be drawn out to be flush with the rail.

Boulevard, between Fifty-ninth and Manhattan streets—

The tracks on this avenue are placed on each side of the centre piece. Between the circle at Fifty-ninth and Sixtieth streets the tracks are paved with block pavement. Between Sixtieth and Sixty-fourth streets (macadamized), the horse tread has worn the roadway from 2 to 3 inches below the top of the rails. Between Sixty-fourth street and a point about 100 feet north of Seventy-first street, the tracks are used by the Ninth Avenue Railroad Company and Forty-second Street, Manhattanville and St. Nicholas Avenue Railroad Company. The track is paved with block pavement and is in good condition. Between Seventy-first and Seventy-ninth streets (macadamized), the horse tread has worn the roadway between the rails from 2½ to 3½ inches. Between Seventy-ninth and One Hundred and Sixth streets on the west side, and between Seventy-ninth and One Hundred and Eleventh streets on the east side, the track is macadamized and worn down between the rails from 3 to 4 inches; north of this to Manhattan street, where the road branches to the left and leaves the macadam pavement, the tracks are paved with block pavement. The condition of the track on Manhattan street, between Avenue St. Nicholas and One Hundred and Twenty-fifth street, is very fair. The tracks in First avenue, from One Hundred and Ninth to One Hundred and Sixteenth street, are paved with block pavement and are in good condition.

Tenth Avenue, north of One Hundred and Fifty-first street, Cable Railroad Company—

Between One Hundred and Fifty-first street and the junction of Kingsbridge road the tracks are in good condition and paved with asphalt block. North of the junction of Kingsbridge road the railroad company has utterly failed to keep its agreement with this Department, which was to renew the pavement on Tenth avenue and make it correspond with the elevation of the new rails, which in many cases are not on the established grade. Instead of renewing the macadam it placed dirt or clay along the outer rails; this having been washed away or distributed over the roadway through other causes, leaves the track from 4 to 8 inches above the surface of the old macadam and makes it extremely dangerous to cross the tracks. Between the rails the roadway is paved

with asphalt blocks. I respectfully recommend that the several railroad companies mentioned be compelled to keep the roadways between the tracks and between the rails, at least in such condition as shall make them safe for light vehicles, and especially for those who are compelled to drive rapidly over them, such as the members of the Fire Department and Fire Patrol. I would also recommend that when a franchise be granted to a railroad company, one of the conditions of such franchise be, that the company shall pave between the rails and between the tracks with block pavement, especially when such tracks are to be laid on macadamized roadways, as macadam pavement is entirely unsuited for travel of this kind.

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

Boulevard, Maintenance, for 1888	\$100,000 00
Amount transmitted during the first quarter of 1888	8,947 61

Balance, April 1, 1888. \$91,052 39

Amount transmitted during the second quarter ending June 30, 1888, is as follows:

Pay-roll, Laborers, etc., ending March 31, 1888	\$2,031 86
" April 15, "	2,242 37
" 30, "	3,082 11
" May 15, "	3,578 49
" 31, "	3,679 42
" June 15, "	4,415 15
Use of horse	270 00
Hardware	753 25
Paints, etc.	153 50
Telephone service	33 75
Repairs to sprinklers	26 70
Coal	12 00
Cost of yard	1,200 00
Cow Bay sand	1,431 34
Lumber	326 80
Trap-rock screenings	474 43
	23,711 17

\$67,341 22

Pay-roll, Clerks and Rodman, Boulevard and maintenance—Salaries. 749 97

Balance, July 1, 1888. \$68,091 19

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

Roads, Streets and Avenues Unpaved, Maintenance of, 1888	\$25,000 00
Amount transmitted during the first quarter of 1888	2,609 55

\$22,390 45

Amount transmitted during the second quarter of 1888, is as follows:

Pay-roll, Laborers, etc., ending March 31, 1888	\$654 25
" April 15, "	578 00
" 30, "	825 25
" May 15, "	1,013 50
" 31, "	1,102 25
" June 15, "	1,158 50
	5,331 75

Balance, July 1, 1888. \$17,058 70

The following is the amount received during the quarter ending June 30, 1888, for use of sprinkling wagon and deposit to the credit of the General Fund. \$81 00

#### Document "I."

#### REPORT OF THE SUPERINTENDENT OF LAMPS AND GAS.

DEPARTMENT OF PUBLIC WORKS—BUREAU OF LAMPS AND GAS,  
ROOM 11, NO. 31 CHAMBERS STREET,  
NEW YORK, July 3, 1888.

Gen. JOHN NEWTON, Commissioner of Public Works:

SIR—Herein I submit a report of the transactions of the Bureau of Lamps and Gas for the quarter ending June 30, 1888.

In Exhibit "A" will be found a statement showing the amounts expended for gas to the various public markets, offices, armories, etc., and for the fitting-up, lighting and maintenance of the public lamps.

Exhibit "B" is a summary of the appropriation for "Lamps and Gas and Electric Lighting—For General Lighting," showing an expenditure during the quarter of one hundred and forty-one thousand three hundred and seventy dollars and forty-eight cents (\$141,370.48), with liabilities amounting to sixty-six thousand and thirty-one dollars and sixty-nine cents (\$66,031.69), leaving an available balance of three hundred and twenty-three thousand one hundred and seventeen dollars and eleven cents (\$323,117.11).

Exhibit "C" is a summary of the appropriation for "Lamps and Gas and Electric Lighting—For Gas for Public Buildings and Offices," showing an expenditure during the quarter of eight thousand one hundred and twenty-five dollars and sixty-nine cents (\$8,125.69), leaving an available balance of twenty-three thousand one hundred and forty-eight dollars and seventy-nine cents (\$23,148.79).

Exhibit "D" shows the amount appropriated for additional electric lighting, against which, so far, no expenditures have been made or liabilities incurred.

Exhibit "E" is a summary of the appropriation for "Lamps and Gas and Electric Lighting—Salaries," showing an expenditure during the quarter of sixteen hundred and twenty-four dollars and ninety-five cents (\$1,624.95), leaving an available balance of thirty-two hundred and fifty dollars and ten cents (\$3,250.10).

Exhibit "F" 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; a total of ninety-seven new gas-lamps and three hundred and eighty-seven electric-lamps having been fitted up and lighted, ninety-eight gas-lamps relighted, three electric-lamps discontinued and twenty-four hundred and seventy-seven gas-lamps discontinued, of which twenty-three hundred and ninety-seven were discontinued on account of electric-lights. The net decrease of public lamps during the quarter was eighteen hundred and ninety-eight.

Exhibit "G" is a statement showing the lowest, highest and average illuminating power of the gases supplied to the city by the several gas companies within reach of our photometrical stations.

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

OF WHAT COMPANY.	SULPHUR. (Grs. in 100 cu. ft.)	AMMONIA. (Grs. in 100 cu. ft.)	SULPHURET HYDROGEN.
Consolidated Gas Co.—			
Branch 1.....	3.44	0.70	None
Branch 2.....	12.22	15.95	"
Branch 3.....	5.39	0.94	"
Branch 4.....	19.10	20.84	"
Branch 6.....	4.22	1.98	"
New York Mutual Gas-light Co.....	6.44	0.66	Trace
Equitable Gas-light Co.....	6.99	0.31	None.

The following shows the specific gravity of the gases:

Consolidated Gas Co.—	
Branch 1, specific gravity.....	.637
Branch 2, ".....	.632
Branch 3, ".....	.643
Branch 4, ".....	.532
Branch 6, ".....	.605
New York Mutual Gas-light Co., specific gravity.....	.698
Equitable Gas-light Co., ".....	.724

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

OF WHAT COMPANY.	AVERAGE MAXIMUM PRESSURE.	AVERAGE MINIMUM PRESSURE.	WHERE TAKEN.	DISTANCE FROM GAS-WORKS.
Inches.	Inches.			Miles.
Consolidated Gas Co.—				
Branch 1.....	1.64	1.52	Cor. of Grand street and Bowery.	1.50
Branch 2.....	2.37	1.42	" "	1.50
Branch 3.....	2.25	1.36	" "	1.50
Branch 4.....	1.64	0.83	{ Seventy-ninth street, between } { Second and Third avenues. }	3.00
Branch 6.....	2.43	1.04	{ Seventy-ninth street, between } { Second and Third avenues. }	1.50
New York Mutual Gas-light Co....	2.72	1.93	Cor. of Grand street and Bowery.	1.50
Equitable Gas-light Co.....	2.22	1.32	" "	2.00

The several contracts for lighting the streets, parks and public places of the city expired, by limitation, on April 30, last, and award of contracts has been made for gas and electric-lighting, for the period of one year, commencing on May 1, 1888, and ending on April 30, 1889.

The following will show the prices for lighting electric-lamps during the years 1887 and 1888:

ELECTRIC LIGHT COMPANY.	NUMBER OF LAMPS AWARDED, 1887.	PRICE PER LAMP EACH, 1887.	PRICE PER LAMP EACH, 1888.	NUMBER OF LAMPS AWARDED, 1888.	PRICE PER LAMP EACH, 1888.	PRICE PER YEAR EACH, 1888.
Brush Electric Illuminating Co.....	428	\$0 25	\$0 25	441	\$0 35	\$127 75
" ".....	23	40	146 00	441	50 35	\$127 75
United States Illuminating Co.....	15	24	87 60	441	50 35	\$127 75
" ".....	38	40	146 00	441	50 35	\$127 75
" ".....	248	30	182 50	352	35	127 75
East River Electric Light Co.....	248	19 1/2	72 63	441	50 35	\$127 75
" ".....	219	39	742 35	440	35	127 75
Mount Morris Electric Light Co.....	18	40	146 00	44	23	83 95
" ".....	.....	.....	.....	13	28	102 20
" ".....	.....	.....	.....	18	17 1/2	63 87
Harlem Lighting Co.....	116	24	87 60	26	35	127 75
" ".....	19	50	182 50	19	50	182 50
" ".....	7	50	219 00	4	60	219 00
North New York Lighting Co.....	26	40	146 00	7	29	105 85
" ".....	.....	.....	.....	43	35	127 75
American Electric Mfg. Co.....	93	32	116 80	.....	.....	.....
Ball Electrical Illuminating Co.....	.....	.....	.....	48	27 1/2	100 37

Prices for lighting gas-lamps during the years 1887 and 1888:

GAS COMPANY.	PRICE PER YEAR FOR EACH LAMP, 1887.	PRICE PER YEAR FOR EACH LAMP, 1888.	GAS COMPANY.	PRICE PER YEAR FOR EACH LAMP, 1887.	PRICE PER YEAR FOR EACH LAMP, 1888.
Equitable Gas-light Co.....	\$12 00	\$12 00	Northern Gas-light Co.....	\$29 00	\$29 00
Consolidated Gas Co.....	17 30	17 30	Yonkers Gas-light Co.....	29 00	29 00
New York Mutual Gas-light Co.	17 30	17 30	*N. Y. & N. J. Globe Gas- light Co.....	25 00	25 00
Central Gas-light Co.....	28 00	28 00			

\* Naphtha lamps.

Yours, respectfully,  
S. McCORMICK, Superintendent of Lamps and Gas.

#### EXHIBIT "A."

Statement showing the Amounts on Vouchers drawn for Gas to the various Public Markets, Armories, etc., and for Fitting-up, Maintaining and Lighting the Public Lamps, etc., for the Quarter ending June 30, 1888:

Washington Market.....	\$754 12
Catharine Country Market.....	32 25
Catharine Meat Market.....	23 00
Fulton Meat Market.....	301 12
Fulton Country Market.....	430 75
Essex Market.....	18 50
Centre Market.....	98 88
Clinton Market.....	204 87
Union Market.....	4 63
Tompkins Market.....	118 25
Jefferson Market.....	134 75
First District Police Court.....	337 99
Second District Police Court.....	91 50
Third District Police Court.....	25 75
Fourth District Police Court.....	55 50
Fifth District Police Court.....	15 76
First District Civil Court.....	2 12
Second District Civil Court.....	11 63
Fourth District Civil Court.....	11 75
Fifth District Civil Court.....	38 50
Sixth District Civil Court.....	2 25
Eighth District Civil Court.....	3 50
Ninth District Civil Court.....	11 00
Tenth District Civil Court.....	1 76
Court of Special Sessions.....	31 88
Brown-stone (Court-room) Building.....	200 25
New Court-house.....	1,057 24
City Hall.....	305 63
Corporation Counsel's Office.....	13 00
Corporation Attorney's Office.....	49 88
Department of Public Works.....	264 37
Department of Taxes.....	7 87
CRY RECORD Bookbindery.....	4 24
Register's Office.....	79 26
County Jail.....	262 00
Pipe Yard, Rivington Street.....	2 24
Pipe Yard, East Twenty-fourth street.....	2 75
Water Purveyor's Repair Shop, Thirtieth street.....	6 50
Water Purveyor's Repair Shop, Eighty-seventh street.....	2 75
Water Purveyor's Repair Shop, One Hundred and Twenty-ninth street.....	12 38

South Gate-house.....	\$43 25
Engine-house, High Water Service, High Bridge.....	75 87
Engine-house, High Water Service, Ninety-eighth street.....	150 76
Clock-tower, Third District Court-house.....	62 25
Photometrical Rooms, Grand street.....	9 63
Photometrical Rooms, Seventy-ninth street.....	5 75
Public Administrator's Office.....	25
Corporation Yard, East Sixteenth street.....	2 38
Dog Pound, East One Hundred and Second street.....	87
Seventh Regiment Armory.....	429 00
Eighth Regiment Armory.....	250 25
Ninth Regiment Armory.....	304 63
Eleventh Regiment Armory.....	105 00
Twelfth Regiment Armory.....	486 00
Twenty-second Regiment Armory.....	484 75
Sixty-ninth Regiment Armory.....	206 25
Seventy-first Regiment Armory.....	223 00
First Battery Armory.....	34 50
Second Battery Armory.....	83 75
Brigade Headquarters.....	22 75
Public Bath, Battery.....	1 62
Public Bath, Duane street.....	2 88
Public Bath, Horatio street.....	2 00
Public Bath, Stanton street.....	88
Public Bath, Nineteenth street, East river.....	2 50
Public Bath, Twenty-seventh street, North river.....	1 75
Public Bath, One Hundred and Thirty-eighth street, East river.....	80

#### "Gas for Public Buildings and Offices"

Cartages.....	\$235 00	\$8,125 69
Traveling expenses.....	54 20	
Gas examinations.....	384 00	
Tools, etc.....	18 25	
Lighting public markets, etc. (Pay-rolls).....	750 00	
Cleaning Photometrical Rooms (Pay-rolls).....	15 00	
New lamp-posts.....	1,181 24	
New lamp-posts, Twenty-third and Twenty-fourth Wards.....	590 62	
New lamp-irons.....	333 00	
Street signs.....	1,522 50	
Maps.....	70 00	
Photometrical Rooms, Grand street—Rent.....	150 00	
Photometrical Rooms, Seventy-ninth street—Rent.....	90 00	
Fitting-up new lamps.....	520 00	
Fitting-up new lamps, Twenty-third and Twenty-fourth Wards.....	16 00	
Resetting and repairing lamp-posts.....	1,568 00	
Resetting and repairing lamp-posts, Twenty-third and Twenty-fourth Wards.....	271 50	
Lighting public lamps.....	79,387 87	
Lighting public lamps, Twenty-third and Twenty-fourth Wards.....	32,509 28	
Lighting electric-lamps.....	20,954 83	
Lighting naphtha-lamps.....	749 19	

#### "General Lighting"

Inspectors of Lamps, etc. (Pay-rolls).....	\$141,370 48
Total.....	\$151,121 12

#### RECAPITULATION.

Gas to Public Offices, etc.....	\$8,125 69
Supplies to public lamps, etc.....	\$4,803 19
Supplies to public lamps, etc., Twenty-third and Twenty-fourth Wards.....	590 62
Fitting-up new lamps.....	520 00
Fitting-up new lamps, Twenty-third and Twenty-fourth Wards.....	16 00
Resetting and repairing lamp-posts.....	1,568 00
Resetting and repairing lamp-posts, Twenty-third and Twenty-fourth Wards.....	271 50
Lighting public lamps.....	79,387 87
Lighting public lamps, Twenty-third and Twenty-fourth Wards.....	32,509 28
Lighting electric-lamps.....	20,954 83
Lighting naphtha-lamps.....	749 19
Inspectors of Lamps, etc. (Pay-rolls).....	141,370 48
Total.....	\$151,121 12

#### EXHIBIT "B."

Summary of the Appropriation for "Lamps and Gas and Electric Lighting—General Lighting," showing the Amount Expended during the Quarter ending June 30, 1888, with the Balance standing to the Credit of the Appropriation.

Amount appropriated for "Lamps and Gas and Electric Lighting, 1888—General Lighting".....	\$632,000 00
Amount expended during the quarter ending March 31, 1888.....	101,480 72
Amount expended during the quarter ending June 30, 1888.....	141,370 48
Balance against which no vouchers have been drawn.....	\$389,148 80

#### LIABILITIES.

Consolidated Gas Co., lighting public lamps, month of June.....	\$23,592 10
Equitable Gas-light Co., " ".....	1,551 53
N. Y. Mutual Gas-light Co., " ".....	212 91
Central Gas-light Co., " ".....	5,525 02
Northern Gas-light Co., " ".....	4,730 65
Yonkers Gas-light Co., " ".....	1,039 17
N. Y. and N. J. Globe Gas-light Co., " ".....	250 00
United States Illuminating Co., lighting public lamps, months of May and June.....	8,540 00
Brush Electric Illuminating Co., lighting public lamps, months of May and June.....	7,815 15
Harlem Lighting Co., lighting public lamps, months of May and June.....	2,495 15
North New York Lighting Co., lighting public lamps, months of May and June.....	555 10
Mount Morris Electric Light Co., lighting public lamps, months of May and June.....	351 36
East River Electric Lighting Co., lighting public lamps, months of May and June.....	7,613 55
John Millis, electric-light examinations.....	500 00
American Meter Co., photometrical apparatus.....	300 00
D. Prendergast, 375 metal street signs.....	600 00
J. L. Mott Iron Works, 1 lamp-post.....	10 00
Bartlett Lamp Co., 175 boulevard globes.....	350 00
Balance available June 30, 1888.....	\$323,117 11

#### EXHIBIT "C."

Summary of the Appropriation for "Gas to Public Buildings and Offices," showing the Amount Expended during the Quarter ending June 30, 1888, with the Balance standing to the Credit of the Appropriation.

Amount of appropriation for "Gas to Public Buildings and Offices, 1888".....	\$43,000 00
Amount of vouchers drawn during the quarter ending March 31, 1888.....	\$11,725 52
Amount of vouchers drawn during the quarter ending June 30, 1888.....	8,125 69
Balance available June 30, 1888.....	\$23,148 79

## EXHIBIT "D."

Summary of the Appropriation for "Additional Electric Lighting, 1888," for the Quarter ending June 30, 1888.

Amount of appropriation for "Additional Electric Lighting, 1888" .....	\$12,000 00
Amount of vouchers drawn to June 30, 1888 .....	
Balance available June 30, 1888 .....	\$12,000 00

## EXHIBIT "E."

Summary of the Appropriation for "Lamps and Gas and Electric Lighting—Salaries," showing the Amount Expended during the Quarter ending June 30, 1888, with the Balance standing to the Credit of the Appropriation.

Amount of appropriation for "Lamps and Gas and Electric Lighting—Salaries" .....	\$6,500 00
Amount expended during the quarter ending March 31, 1888 .....	\$1,624 95
Amount expended during the quarter ending June 30, 1888 .....	1,624 95
	3,249 90
Balance available June 30, 1888 .....	\$3,250 10

## EXHIBIT "F."

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 June 30, 1888.

CONSOLIDATED GAS COMPANY, BRANCH 1.			
Number of lamps lighted March 31, 1888 .....	3,690		
Number of new lamps lighted during the quarter .....	0		
Number of old lamps relighted during the quarter .....	17	3,707	
Less lamps discontinued during the quarter .....	21		
Less lamps discontinued on account of electric-light .....	650	671	
Number of lamps lighted June 30, 1888 .....		3,036	
CONSOLIDATED GAS COMPANY, BRANCH 2.			
Number of lamps lighted March 31, 1888 .....	2,431		
Number of new lamps lighted during the quarter .....	2		
Number of old lamps relighted during the quarter .....	7	2,440	
Less lamps discontinued during the quarter .....	1		
Less lamps discontinued on account of electric-lights .....	495	496	
Number of lamps lighted June 30, 1888 .....		1,944	
CONSOLIDATED GAS COMPANY, BRANCH 3.			
Number of lamps lighted March 31, 1888 .....	2,553		
Number of new lamps lighted during the quarter .....	4		
Number of old lamps relighted during the quarter .....	2	2,559	
Less lamps discontinued during the quarter .....	4		
Less lamps discontinued during the quarter on account of electric-lights .....	159	163	
Number of lamps lighted June 30, 1888 .....		2,396	
CONSOLIDATED GAS COMPANY, BRANCH 4.			
Number of lamps lighted March 31, 1888 .....	3,322		
Number of new lamps lighted during the quarter .....	40		
Number of old lamps relighted during the quarter .....	18	3,380	
Less lamps discontinued during the quarter .....	12		
Less lamps discontinued on account of electric-lights .....	332	344	
Number of lamps lighted June 30, 1888 .....		3,036	
CONSOLIDATED GAS COMPANY, BRANCH 6.			
Number of lamps lighted March 31, 1888 .....	5,450		
Number of new lamps lighted during the quarter .....	38		
Number of old lamps relighted during the quarter .....	32	5,520	
Less lamps discontinued during the quarter .....	24		
Less lamps discontinued on account of electric-lights .....	29	53	
Number of lamps lighted June 30, 1888 .....		5,467	
Total number of lamps lighted by Consolidated Gas Company, June 30, 1888 .....		15,879	
NEW YORK MUTUAL GAS-LIGHT COMPANY.			
Number of lamps lighted March 31, 1888 .....	191		
Number of new lamps lighted during the quarter .....	0		
Number of old lamps relighted during the quarter .....	2	193	
Less lamps discontinued during the quarter .....	0		
Less lamps discontinued on account of electric-lights .....	47	47	
Number of lamps lighted June 30, 1888 .....		146	
EQUITABLE GAS-LIGHT COMPANY.			
Number of lamps lighted March 31, 1888 .....	2,211		
Number of new lamps lighted during the quarter .....	0		
Number of old lamps relighted during the quarter .....	6	2,217	
Less lamps discontinued during the quarter .....	0		
Less lamps discontinued during the quarter on account of electric-lights .....	685	685	
Number of lamps lighted June 30, 1888 .....		1,532	
CENTRAL GAS-LIGHT COMPANY.			
Number of lamps lighted March 31, 1888 .....	2,281		
Number of new lamps lighted during the quarter .....	2		
Number of old lamps relighted during the quarter .....	14	2,297	
Less lamps discontinued during the quarter .....	16	16	
Number of lamps lighted June 30, 1888 .....		2,281	

## NORTHERN GAS-LIGHT COMPANY.

Number of lamps lighted March 31, 1888 .....	1,873		
Number of new lamps lighted during the quarter .....	9		
Number of old lamps relighted during the quarter .....	0	1,882	
Less lamps discontinued during the quarter .....		2	
Number of lamps lighted June 30, 1888 .....		1,880	

## YONKERS GAS-LIGHT COMPANY.

Number of lamps lighted March 31, 1888 .....	428		
Number of new lamps lighted during the quarter .....	2		
Number of old lamps relighted during the quarter .....	0	430	
Less lamps discontinued during the quarter .....		0	
Number of lamps lighted June 30, 1888 .....		430	
Total number of gas-lamps lighted June 30, 1888 .....		22,148	

## NAPHTHA-LAMPS.

## NEW YORK AND NEW JERSEY GLOBE GAS-LIGHT COMPANY.

Number of lamps lighted March 31, 1888 .....	120		
Number of new lamps lighted during the quarter .....	0		
Number of old lamps relighted during the quarter .....	0	120	
Less lamps discontinued during the quarter .....		0	
Number of lamps lighted June 30, 1888 .....		120	
Total number of naphtha-lamps lighted June 30, 1888 .....		120	

## ELECTRIC-LAMPS.

## BRUSH ELECTRIC ILLUMINATING COMPANY.

Number of lamps lighted March 31, 1888 .....	367		
Number of new lamps lighted during the quarter .....	0		
Number of old lamps relighted during the quarter .....	0	367	
Less lamps discontinued during the quarter .....		0	
Number of lamps lighted June 30, 1888 .....		367	

## UNITED STATES ILLUMINATING COMPANY.

Number of lamps lighted March 31, 1888 .....	374		
Number of new lamps lighted during the quarter .....	26		
Number of old lamps relighted during the quarter .....	0	400	
Less lamps discontinued during the quarter .....		0	
Number of lamps lighted June 30, 1888 .....		400	

## HARLEM LIGHTING COMPANY.

Number of lamps lighted March 31, 1888 .....	104		
Number of new lamps lighted during the quarter .....	0		
Number of old lamps relighted during the quarter .....	0	104	
Less lamps discontinued during the quarter .....		3	
Number of lamps lighted June 30, 1888 .....		101	

## MOUNT MORRIS ELECTRIC-LIGHT COMPANY.

Number of lamps lighted March 31, 1888 .....	18		
Number of new lamps lighted during the quarter .....	0		
Number of old lamps relighted during the quarter .....	0	18	
Less lamps discontinued during the quarter .....		0	
Number of lamps lighted June 30, 1888 .....		18	

## NORTH NEW YORK LIGHTING COMPANY.

Number of lamps lighted March 31, 1888 .....	26		
Number of new lamps lighted during the quarter .....	0		
Number of old lamps relighted during the quarter .....	0	26	
Less lamps discontinued during the quarter .....		0	
Number of lamps lighted June 30, 1888 .....		26	

## EAST RIVER ELECTRIC-LIGHT COMPANY.

Number of lamps lighted March 31, 1888 .....	0		
Number of new lamps lighted during the quarter .....	361		
Number of old lamps relighted during the quarter .....	0	361	
Less lamps discontinued during the quarter .....		0	
Number of lamps lighted June 30, 1888 .....		361	
Total number of electric-lamps lighted June 30, 1888 .....		1,273	

## RECAPITULATION FOR QUARTER.

Number of gas-lamps lighted March 31, 1888 .....	24,430		
Number of naphtha-lamps lighted March 31, 1888 .....	120		
Number of electric-lamps lighted March 31, 1888 .....	889		
Number of new gas-lamps lighted during the quarter .....	97	25,439	
Number of new naphtha-lamps lighted during the quarter .....	0		
Number of new electric-lamps lighted during the quarter .....	387	484	
Number of gas-lamps relighted during the quarter .....	98		
Number of naphtha-lamps relighted during the quarter .....	0		
Number of electric-lamps relighted during the quarter .....	0	98	
Less gas-lamps discontinued during the quarter .....	80	26,021	
Less gas-lamps discontinued on account of electric-lights .....	2,397		
Less naphtha-lamps discontinued during the quarter .....	0		
Less electric-lamps discontinued during the quarter .....	3	2,480	
Total number of lamps lighted June 30, 1888 .....		23,541	

## EXHIBIT "G."

Statement giving the Illuminating Power in Candles of the Gas supplied to the City by the several Gas-light Companies during the Quarter ending June 30, 1888, 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 5.			N. Y. MUTUAL GAS- LIGHT CO.			EQUITABLE GAS-LIGHT CO.		
	ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.		
Week Ending—	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
Apr. 7, 1888.....	24.52	26.30	25.37	19.20	21.60	20.35	29.43	30.60	29.81	20.99	22.20	21.65	22.93	24.97	24.08	29.51	30.91	30.35	30.68	32.49	31.81
" 14, " .....	24.72	26.36	25.40	19.80	20.83	20.31	28.07	30.46	29.03	21.85	23.57	22.74	24.53	26.08	25.33	28.45	32.00	30.30	31.56	33.20	32.50
" 21, " .....	25.09	26.12	25.74	20.22	20.68	20.49	29.74	30.62	30.17	22.38	22.95	22.76	23.57	25.50	24.75	30.40	32.03	31.40	31.20	32.50	31.61
" 28, " .....	24.24	25.70	24.92	20.03	20.67	20.59	28.76	29.54	29.14	22.13	23.64	23.03	23.59	25.07	24.48	27.77	31.32	30.19	30.38	32.56	31.72
May 5, " .....	25.53	26.32	25.74	20.08	21.73	20.71	28.80	30.77	29.85	22.76	24.12	23.41	24.66	27.54	26.00	29.09	30.91	30.27	31.31	32.78	32.22
" 12, " .....	24.90	26.69	25.90	20.44	20.90	20.65	29.41	30.33	29.95	21.94	23.46	22.71	25.46	26.83	26.11	30.40	31.27	30.88	32.00	32.61	32.30
" 19, " .....	23.38	27.58	24.86	20.64	21.18	20.83	28.42	30.71	29.27	21.83	22.66	22.15	23.14	25.46	24.58	29.85	30.55	30.41	31.53	32.68	32.34
" 26, " .....	23.28	26.34	25.19	21.07	21.57	21.23	29.33	30.66	29.81	20.79	22.42	21.64	25.24	25.88	25.58	30.72	32.04	31.37	32.03	33.39	32.81
June 2, " .....	24.55	26.87	25.70	20.79	22.27	21.35	29.31	29.83	29.58	20.99	21.88	21.49	24.72	26.20	25.53	30.02	32.30	31.10	32.07	33.03	32.51
" 9, " .....	24.72	26.04	25.35	20.00	21.22	20.85	29.64	30.69	30.08	21.09	22.07	21.76	25.02	26.67	25.68	29.33	31.60	30.39	31.40	33.08	32.43
" 16, " .....	25.82	27.44	26.38	20.15	21.04	20.57	27.47	29.50	28.60	22.07	24.38	22.62	26.40	28.22	27.16	30.49	31.72	31.35	31.22	32.03	31.67
" 23, " .....	23.92	25.47	24.77	20.48	21.56	20.83	27.95	30.48	29.11	22.64	24.00	23.32	28.07	29.06	28.44	31.33	32.13	31.77	31.91	33.40	32.77
" 30, " .....	23.22	25.11	24.34	19.04	20.46	19.84	26.92	28.13	27.07	22.03	23.86	22.83	26.48	29.26	27.58	28.24	31.40	30.41	29.72	32.62	31.09
For the Quarter .....	23.22	27.58	25.36	19.04	22.27	20.65	26.92	30.77	29.34	20.79	24.58	22.46	22.93	29.26	25.79	27.77	32.30	30.78	29.72	33.40	32.14
Distance from gas-works.....	1 <sup>5</sup> / <sub>10</sub> Miles .....			1 <sup>5</sup> / <sub>10</sub> Miles .....			3 <sup>3</sup> / <sub>10</sub> Miles .....			3 <sup>3</sup> / <sub>10</sub> Miles .....			1 <sup>5</sup> / <sub>10</sub> Miles.....			1 <sup>5</sup> / <sub>10</sub> Miles.....			2 <sup>1</sup> / <sub>10</sub> Miles.....		
Testing burner.....	Bray's Slit Union No. 7....			Empire, 5 feet.....			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....		

## Document "K."

## 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, July 2, 1888.

Gen. JOHN NEWTON, Commissioner of Public Works:

SIR—In compliance with your instructions I have the honor to submit the following report of the transactions of this Bureau for the three months ending June 30, 1888:

## NEW COURT-HOUSE.

The roof has been repaired; defective plates removed and replaced by new corrugated, galvanized iron plates, the ventilators refastened, the flashings and gutters pointed up with paint skin and roofing cement and the roof painted with metallic paint.

Surrogate's Office—An iron, ash top railing has been put up in Room No. 3, and the wire railing in Room No. 4 has been repaired. In Room No. 2 a pine flooring extending the length of the room was taken up and relaid with vertical grained yellow pine flooring plank, smooth planed and oiled. In rooms Nos. 2, 3, 4 and 5 the walls and ceilings have been cleaned, repaired and painted, the hardwood varnished, radiators rebronzed and some new signs put up. Repairs and alterations are being made to the steam-pipes and radiators in the basement; some of the coils have been taken down, altered and rebuilt, and the work will be progressed until the steam apparatus is put in order.

## CITY HALL.

The Mayor's Office—The walls and ceilings have been washed off, the plastering repaired, the ceiling frescoed, the walls painted and finished in solid relief with raised frieze. The wood work and trim have been painted in parti-colors and the doors grained and varnished. A bronze picture rail put up. In the adjoining rooms the plastering has been repaired, ceilings painted and calcimined, the cornices tinted, the walls, wood work and trim painted and the doors grained and varnished; several oil paintings have been relined, restored and rehung, and new carpet laid.

Mayor's Marshal—The walls and ceilings in this office and the police room adjoining have been washed off, plastering repaired, ceilings painted and calcimined, walls, wood work and trim painted, wood work grained and varnished, the desk railing and radiators bronzed, and the hard wood varnished and the sign over the door of Mayor's Marshal relettered.

In the room occupied by the Grand Army of the Republic and the adjoining room and passage-way the walls and ceilings have been painted and calcimined, the wood work painted in tints.

The roof, gutters and leaders have been repaired, a new copper flashing put on the north hip of the east wing, a new chimney top put on and portion of the roof painted.

In Room No. 11 the walls and ceiling have been repaired; ceiling calcimined, the walls and wood painted and an ornamental paper border put up; a paneled glass partition has been put up, and the door leading to room No. 10 has been opened and put in repair. In the office of City Court a new verticle grained yellow pine floor has been laid and oiled, the ceiling calcimined, walls and wood work painted and grained, the hard wood touched up and varnished. In the Clerk's private office and adjoining toilet room the ceilings have been painted and calcimined, walls and wood work painted, grained work touched up and varnished and a window cut through on the east side, and new back lining framed and painted, and a set of new shutters and trim put up, painted and grained and the floor repaired; the steam radiators in the rooms bronzed.

By an ordinance signed by the Mayor, January 18, 1888, the Commissioner of Public Works was directed to make important changes in the plumbing, drainage and ventilation of the building. A sanitary expert was appointed to make necessary drawings and superintend the work under direction of this Bureau. As charge of this whole matter has been given to an expert in matters looking toward sanitary improvement, I respectfully call attention to his report, which I hereby append.

ALBERT L. WEBSTER, SANITARY ENGINEER,  
OFFICE, NO. 107 DREXEL BUILDING, WALL AND BROAD STREETS,  
NEW YORK, June, 1888.

W. G. BERGEN, Esq., Superintendent Repairs and Supplies,  
Department of Public Works, No. 31 Chambers Street:

DEAR SIR—Your letter of June 28, asking me to furnish your Bureau with a statement of my operations in correcting and improving the sewerage and ventilation system of the City Hall, and asking for a statement concerning the present sanitary condition of the City Hall, is at hand.

I was appointed by General Newton on January 24, as Sanitary Expert, to prepare plans and specifications for an improved system of plumbing, drainage and local ventilation for the City Hall. I made a careful examination of the sanitary condition of the building, and prepared three sets of complete architectural plans of each floor, on a scale of  $\frac{1}{4}$  of an inch = 1 foot.

I found that the building was in a dangerous and unhealthy condition, that the plumbing in it was highly imperfect and defective, and at variance with all the present accepted principles of proper sanitary plumbing. The main drain in the basement running the entire length of the building, a distance of 207 feet, was a square masonry drain, one square foot in section, with imperfect and defective gradient, and exceedingly foul. There was no trap on this drain to disconnect it from the sewer which it joined to the eastward, and heated sewer air and steam poured out of the drain in the building as soon as it was uncovered. Hot water drips, from steam radiators, had in several cases been connected with soil or waste pipes. The fixtures throughout the building were lacking in trap ventilation, and almost without exception were old, insufficiently flushed, or defective. No attempt at ventilating the air spaces immediately connected with the various groups of closets and fixtures had been made, and there was more or less offensive odor from all of them. Two cesspools close to the building, without, and having overflows connecting with sewers, received all or the greater part of the drainage of the building.

The entire water supply of the building was very imperfect and defective, all the water being raised by hand pumps, connecting either directly with the fixtures or with small and insufficient tanks. The fixtures were thus often scantily flushed or totally without water.

The plans and specifications prepared by me and submitted by the Department of Public Works to the Board of Health were accepted by that Board in the middle of February, and filed as "Plan No. 7739."

The new work as recommended and already executed comprised the entire abandonment and complete removal of all the plumbing in the building, and the substitution of entirely new work throughout, designed according to modern practice with "extra heavy" cast-iron, drain, soil and ventilation pipes.

The main drain and laterals in the basement, all of which lie below the floor level, were laid throughout in trenches having concrete base and side walls of brick masonry, covered in the corridors with blue stone flags, elsewhere with slate slabs. For inspection and ready accessibility, man-holes are cut at intervals in the flagging and provided with iron covers flush with the surface. A new vitrified pipe sewer was laid through the City Hall Park and connected with the Frankfort street sewer direct, with man-holes for inspection and cleaning. All fixtures have been arranged in groups, closely connected in each case with soil-pipes extending to and above the roof. The traps of all fixtures have been carefully and systematically ventilated. All closets and urinals have been connected with air-tight, copper, local ventilation pipes leading, wherever it was practicable, to and above the roof. These local ventilation pipes have been provided with gas-jets within to insure an upward current, and thus far have been entirely efficient and satisfactory. A steam pump has been placed in the basement and connected with the 4-inch Croton-main passing under the basement corridor. The delivery-pipe extends to the attic, and discharges into two 6,000 gallon wrought-iron tanks, supported on heavy iron I beams, resting on the stone corridor walls and provided with necessary overflows, emptying-pipes, drip-trays, tell-tale and indicator gauge. A proper arrangement of piping and valves allows the separate or united use of the tanks. A main supply-pipe returns from these tanks to the basement, where branch supply-pipes lead to each group of fixtures. Stop-cocks on the branches control the supply to each group.

A fire service-line, with accessible valves and couplings on each floor, connects directly with the tanks, and can be thrown on the pump service by an arrangement of quick acting gate-valves.

The fixtures throughout the building are of excellent quality. The fixture work has been finished neatly, but with much simplicity, with a view to keeping it readily cleaned and in order.

The cesspools, already referred to, have been emptied, disinfected, the openings into them securely sealed and the vaults filled with earth.

The entire system of vertical soil and ventilation pipes in the building was tested with water pressure from basement to roof. The main drain was also carefully tested with water pressure. All pipes have been left so that they can be readily examined without damage to the building. From a sanitary point of view I believe the City Hall to be exceptionally secure in its plumbing, water supply and local ventilation.

Very respectfully yours,  
ALBERT L. WEBSTER.

## BROWN-STONE BUILDING.

District Attorney's Office—The walls, ceilings, wood work and trim of the rooms of the Assistant District Attorneys have been washed off, plastering repaired, ceilings calcimined, walls and wood work painted, grained work touched up and varnished and new signs lettered on the glass panels of the several office doors. A new paneled glass partition and an iron railing put up in centre room on second floor. An opening was cut over door on third floor, and window frame with pivoted sash and transom lifter put in. An electric annunciator has been placed in Chief Clerk's Office and connected with the several rooms. The safes have been connected with City Hall Police Station.

The flooring in the toilet-room in the basement has been taken up, the old closets and soil-pipes removed, a new concrete-floor laid, new soil-pipes and improved water-closets put in and enclosed and the room painted and calcimined.

## NO. 31 CHAMBERS STREET.

The iron rolling-shutters on Reade and Chambers streets front of the building have been repaired and put in good order. A rack has been built in the cellar for use of the Bureau of Lamps and Gas. A case of shelving and pigeon-holes has been put up in the office of the Water Purveyor. Shoring has been put up, and the large safe in the Water Register's Office has been removed to the front of the building. The location of cashier's desk has been changed and alterations made to the desks and wire railings and guards.

## STEWART BUILDING.

Office of the City Paymaster—The paneled partition has been altered and extended, the door and vestibule has been altered, transom-light put in and an additional barrier put up in front of rear window and the Paymaster's desk and safe has been enclosed with wire railing.

## POLICE AND CIVIL COURTS.

Court of Special Sessions and Tombs—The old flooring of the balcony and "Bridge of Sighs" was removed and a new floor of vertical grained yellow pine strips laid, and the work given two coats of oil.

First District Police Court—The windows in the skylight over the Court have been stained on the outside to moderate the light in the Court-room.

Fifth District Civil Court—The walls, ceilings and wood work in the Court-room, Judges' and Clerks' rooms and the halls and stairways have been washed off, plastering repaired, ceilings painted and calcimined, grained work touched up and varnished and iron work painted, the plastering in Janitor's rooms has been repaired and ceilings calcimined.

Fourth District Police Court—A case to hold Court records has been put up, the platform repaired and some new locks put on.

## COUNTY JAIL.

A new galvanized iron leader has been put up on the east end of the building to convey water from the roof.

## THE DOG POUND.

The cage has been repaired, new wrought-iron knees with rods and turn-buckles put in.

## CORPORATION YARD, SIXTEENTH STREET AND EAST RIVER.

The old flooring and kennels in the building formerly used as a Dog Pound have been taken out, some new posts and girders put in, and alterations made to fit it for use of the Bureau of Incumbrances.

## PUBLIC ADMINISTRATOR'S OFFICE.

The roof and leaders of the store-room, No. 5 Duane street, have been repaired, the flashing pointed up and the roof painted.

## OLD ARSENAL BUILDING, ELM AND WHITE STREETS.

An opening has been made and window frame and sash put in. The flooring, steps and platform of the fire-escapes have been repaired and made secure.

## REPAIR SHOPS, NOS. 427 AND 429 EAST EIGHTY-SEVENTH STREET.

The old flooring in the tool-room has been taken up and a new floor laid on chestnut sleepers, shelves and bins put up, wainscoting and a bench put up on west side of room. A work-bench put up in the shop and the windows on the front covered with iron wire guards.

## ARMORIES.

First Battery—New lockers have been put up in the company room, and a large storage-closet built for use of Quartermaster.

Second Battery—The old partitions have been altered and a new yellow pine partition built, the flooring repaired, the rooms ceiled with narrow yellow pine beaded strips, the location of doors changed, and some new doors furnished, windows with pivoted sash and transom-litters have been put up, new water-closets and wash basins have been put in the toilet-rooms and cased up with yellow pine.

The company lockers have been altered, repaired, cleaned and varnished and put up in their new locations in rooms. All the partitions and ceilings in company rooms, toilet-rooms, closets, workshops and store-rooms, have been painted and varnished.

Seventh Regiment Armory—The galvanized iron leaders on Sixty-sixth and Sixty-seventh streets sides of the armory have been repaired, some new leader pipe furnished, and the work painted.

Eighth Regiment Armory—A white pine locker, with drawers, shelves and clothes-hooks, has been built for use of Quartermaster, and new locks put on lockers in the several company rooms.

Eleventh Regiment Armory—The walls, ceilings and wood work in the Janitor's rooms have been washed off, ceilings painted and calcimined, walls painted and grained work touched up and varnished. Chandeliers have been put up in one of the company rooms. The large tank over water-closets has been repaired and relined with heavy sheet lead, and new and improved water-closets with cisterns put in, and the urinal repaired and back-aired in the officers' toilet-room.

Twelfth Regiment Armory—Iron guard plates have been furnished and put up in the rear and on the mantelets of rifle range.

Sixty-ninth Regiment Armory—The walls, ceilings and wood work in headquarters room, squad drill-room and Armorer's room have been cleaned off, plastering repaired, ceilings calcimined, walls painted, grained work touched up and varnished, floor oiled and hard wood cleaned and varnished, new gas pendants have been put up in the squad rooms, the fixtures in the basement have been repaired, some new cocks put on, and lava tip burners placed on all the fixtures. Repairs have also been made to the glazing.

## THE MARKETS.

West Washington Market—Repairs have been made to Vesey street pier in several places, the old planking removed, some new stringers put in, and the defective places planked over.

Fulton Market—The gravel roof on the centre building has been repaired, the smoke-pipes repaired and a new galvanized-iron smoke-pipe put up. The iron shed around the Market has been repaired and painted.

Centre Market—Semi-circular window-sashes have been put up on the Hall place side of the building, and the same covered with iron wire guards. The glazing of the building has been repaired. The shed on Centre Market place has been covered with a new tin roof, leaders repaired and some new pipe furnished.

Tompkins Market—The roof of the building has been repaired, new slate and zinc hips put in where required, the gutters repaired and painted. The doors and windows have been repaired, the doors all rehung with heavy wrought-iron hinges, and new bolts and fastenings furnished. New storm-doors have been put up on five of the openings, the flooring repaired in several places, and the platform and steps on Third avenue, near Seventh street, rebuilt. New sash cords, parting strips and stop-heads have been put in the windows, the sash reglazed where required, and all the doors and windows painted. Old gas pipes have been removed and replaced by new pipes and fixtures, and some alterations made to the steam pipes.

Jefferson Market—The doors on Greenwich avenue side have been repaired and rehung with double-acting spring butts. Some repairs have been made to the waste-pipes and gas-fixtures in the Market.

Gansevoort Market—I submit herewith the report of Douglas Smyth, architect, showing his operations in charge of the construction of the new Gansevoort Market building.

OFFICE OF DOUGLAS SMYTH, ARCHITECT,  
No. 48 EXCHANGE PLACE,  
NEW YORK, July 2, 1888.

W. G. BERGEN, Esq., Superintendent Repairs and Supplies:

SIR—The work on the new Gansevoort Market is more than four-fifths done. As you are aware, the work consists of ten separate buildings, with surrounding sidewalks, and paving of intersecting streets or alleys. Up to date the amount of work done is as follows:

All grading, filling and excavating; all foundations, concrete footings, concrete floors; all drains, basins, hydrants, water-pipes are laid; all brick work and terra cotta is complete; all granite and blue stone work in buildings is complete; all flagging and curbing is done, except on Gansevoort street and Thirtieth avenue.

Plastering is required on the second floor of each building. This plastering is done in two buildings.

All the iron work, including posts, girders, awning frames, tower roofs, skylight frames, transoms, etc., is done, with the exception of a little patching. The steel shutters which are provided for all the market stands are set in five buildings.

The carpenter work is about three-quarters done. All roof frames are built; all floor beams, girders and posts are set.

Partitions are set in six buildings. In seven buildings the flooring is done, and all inside window frames set. The outside window frames of all ten buildings are set. The ceiling of one building is ceiled. Five buildings are lathed. Seven buildings have their tin roofs, gutters and iron cornices complete; the others are in different stages of completion.

The work from the bottom up is of the best quality, and is in strict accordance with the plans and specifications. The amount of the contract is \$477,443. Estimates have been made for work done to date, aggregating \$389,540, less 10 per cent. The weather during the winter and spring has been unfavorable for building. I think it will require two months more of work to complete the present contract.

I also think that the further amount of from \$10,000 to \$15,000 will be needed in addition to the sum of \$500,000, originally estimated by the Commissioners of the Sinking Fund, in order to render the buildings suitable for occupancy.

Hoping the information conveyed concerning the market is satisfactory.

I am, yours respectfully,

DOUGLAS SMYTH, Architect.

## FREE FLOATING BATHS.

Prior to the removal of the baths from the basin where they were stored during the winter months they were thoroughly repaired, cleaned and painted; especial care having been taken to cleanse the dressing rooms.

The pontoons have been examined, and graving, caulking and repairing done where needed. In all cases where pontoons were found defective new ones have been put in their stead. The baths have been towed from winter quarters and are now in their summer stations for use of the public. The approaches and guards have been carefully constructed to secure safety to those entering the baths.

The locations of the baths are:

Battery.  
Duane street, North river.  
Horatio street, North river.  
Twenty-seventh street, North river.  
Forty-sixth street, North river.  
Corlears street, East river.  
Stanton street, East river.  
Nineteenth street, East river.  
Thirty-seventh street, East river.  
One Hundred and Twelfth street, East river.  
One Hundred and Thirty-eighth street, East river.

The following shows the returned number of male and female bathers, from their opening to date:

BATH.	MALE.	FEMALE.	TOTAL.
Battery, North river.....	6,975	3,420	10,395
Duane street, North river.....	4,430	1,300	5,730
Horatio street, North river.....	7,675	4,460	12,135
Twenty-seventh street, North river.....	10,500	3,800	14,300
Forty-sixth street, North river.....	8,963	4,770	13,733
Corlears street, East river.....	14,200	10,200	24,400
Stanton street, East river.....	23,950	16,400	40,350
Nineteenth street, East river.....	19,217	2,445	21,662
Thirty-seventh street, East river.....	9,810	3,500	13,310
One Hundred and Twelfth street, East river.....	3,500	2,300	5,800
One Hundred and Thirty-eighth street, East river.....	6,000	4,000	10,000
	115,220	56,595	171,815

Two new baths, provided for by chapters 209 and 227, Laws of 1887, to be stationed on the East river, one to be between Dover and Pike streets and one between Forty-ninth and Fifty-first streets, are being constructed under contract. The work is going forward to completion, and will be ready to go into service at an early day.

Not the least of the duties of the Bureau during the quarter was the furnishing of office and court supplies and furniture, and repairing the same. In this report no allusion is made to the furnishing of coal, wood and ice to the several courts, Civil and Police, and the armories of the National Guard.

Very respectfully,

W. G. BERGEN, Superintendent Repairs and Supplies.

## Document "L."

## REPORT OF THE SUPERINTENDENT OF INCUMBRANCES.

DEPARTMENT OF PUBLIC WORKS—BUREAU OF INCUMBRANCES,  
No. 31 CHAMBERS STREET,  
NEW YORK, July 5, 1888.

Gen. JOHN NEWTON, Commissioner of Public Works:

DEAR SIR—I have the honor to make the following report of the business of this Bureau for the quarter ending June 30, 1888 (months of April, May and June):

2,071 complaints of obstructions received and attended to.	
673 seizures and removals of obstructions made.	
2,872 building permits issued.	
13 permits issued to cut down shade trees.	
408 miscellaneous permits issued.	
320 notices issued to repair defective sidewalks.	
20 notices issued to repair defective vault covers.	
Expense of seizing and removing 673 articles, including 444 loads of dirt, refuse, stones, etc., and 178 dead and dangerous trees from various parts of the city.....	\$3,553 07
Total expenses for the quarter.....	\$5,285 56
Received from owners for the redemption of seized articles.....	\$1,165 50
Received from public auction sale held May 9, 1888, at the Corporation Yards, foot of East Sixteenth street and One Hundred and Nineteenth street and St. Nicholas avenue.....	273 83
Total.....	\$1,439 33
All of which was duly paid over to the City Chamberlain.	
Salary account appropriation.....	\$7,500 00
Expended up to July 1, 1888.....	3,212 95
Balance.....	\$4,287 05
Appropriation for removal of obstructions in streets and avenues, including rents for Corporation Yards.....	\$22,000 00
Amount expended to July 1, 1888.....	6,786 07
Balance.....	\$15,213 93

Very respectfully,

JOHN RICHARDSON, Superintendent of Incumbrances.

## Document "M."

## REPORT OF THE WATER REGISTER.

BUREAU OF WATER REGISTER, No. 31 CHAMBERS STREET,  
NEW YORK, June 30, 1888.

Hon. JOHN NEWTON, Commissioner of Public Works:

SIR—I herewith transmit statement of moneys received for water rents, penalties and taps, for the quarter ending June 30, 1888:

	Principal.	Penalties.	Taps.
April.....	\$71,110 93	\$1,207 20	\$1,421 50
May.....	280,802 60	540 30	1,469 50
June.....	268,522 22	291 45	1,028 50
	\$620,435 84	\$2,038 95	\$3,859 50
Total.....	\$626,334 29		
Deposit to the credit of "Water-meter Fund, No. 2"—			
April.....			\$483 70
May.....			1,433 48
June.....			966 44
Total.....			\$2,883 62
"Special Fund—Repairing Streets"—			
April.....			\$1,531 50
May.....			1,389 00
June.....			1,083 00
Total.....			\$4,003 50

The provisions of chapter 559, Laws 1887, making extra charges for water a lien on property are now in full force, and its operation seems to be generally satisfactory to the public as well as to this Bureau in simplifying the accounts. Penalties are now enforced for violation of the rules of the Department for the prevention of waste of water. Fines amounting to the sum of \$275 have been received and paid into the City Treasury during this quarter for violation of the rules prohibiting the use of water through hose for washing sidewalks, stoops, house-fronts, court-yards, gardens and for all other purposes. The books of the Bureau containing charges for extra water-rents standing for six years or longer, from the time of the passage of the Law of 1887, will be closed during the present year. In accordance with the provisions of chapter 696, Laws 1887, exempting hospitals, orphan asylums and houses for the aged from the payment of water-rents, twenty institutions of above character have been allowed the benefit of the act, and which exemption will reduce the revenue \$10,500 per annum.

Respectfully submitted,

J. H. CHAMBERS, Water Register.

## EXECUTIVE DEPARTMENT.

MAYOR'S OFFICE,  
NEW YORK, February 10, 1888.

I, Abram S. Hewitt, Mayor of the City of New York, pursuant to the provisions of chapter 10 of the Laws of 1888, do hereby designate the Sun, Herald, Times, World, Star, Tribune, Journal, Press, Evening Post, Commercial Advertiser, Graphic, Telegram, Evening Sun, Evening World, Mail and Express, Staats Zeitung, New Yorker Zeitung and Daily News as the newspapers in which the advertisements provided for in said act may be printed.

(Signed), ABRAHAM S. HEWITT,  
Mayor.

CITY COURT—TRIAL TERM,  
PART I.

In view of the alterations going on in the old City Hall, the April term of Part I. of the City Court will be held in room known as Part III. of the Superior Court in the New Court-house.

By order of the Court.  
MICHAEL T. DALY,  
Clerk.

CIVIL SERVICE SUPERVISORY  
AND EXAMINING BOARDS.

CITY OF NEW YORK—CIVIL SERVICE  
SUPERVISORY AND EXAMINING BOARDS,  
SECRETARY'S OFFICE,  
ROOM 11, CITY HALL,  
NEW YORK, June 3, 1887.

THOMAS COSTIGAN, Esq.,  
Supervisor City Record:

DEAR SIR—The following amendment to Regulation 16 of the New York City Civil Service Regulations has been made:

If the appointing officer shall notify the Secretary of more than one vacancy at any one time, the Secretary shall certify to the appointing officer for appointment, the names of as many persons as there are vacancies to be filled, with the addition of two names for the first vacancy and one name for every two vacancies in addition to the first.

Yours respectfully,  
LEE PHILLIPS,  
Secretary and Executive Officer.

CITY OF NEW YORK—CIVIL SERVICE  
SUPERVISORY AND EXAMINING BOARDS,  
SECRETARY'S OFFICE,  
ROOM 11, CITY HALL,  
NEW YORK, May 31, 1887.

THOMAS COSTIGAN, Esq.,  
Supervisor:

DEAR SIR—The following resolution was passed by the Supervisory Board at their meeting, held May 27, 1887:

"Resolved, That in view of the inadequate space in the Secretary's office and in order to enable him more readily to discharge the business of the same, the Secretary is authorized to arrange the business of the office so that the same shall be open for personal interviews with applicants and the public during a part of the day only."

Pursuant to the above action, I hereby designate the two hours between 2 and 4 o'clock in afternoon as the time for which the offices shall be open for personal interviews with applicants and the public.

Very respectfully,  
LEE PHILLIPS,  
Secretary and Executive Officer.

## OFFICIAL DIRECTORY.

STATEMENT OF THE HOURS DURING WHICH all the Public Offices in the City are open for business, and at which each Court regularly opens and adjourns, as well as of the places where such offices are kept and such Courts are held; together with the heads of Departments and Courts.

## EXECUTIVE DEPARTMENT.

Mayor's Office.  
No. 6 City Hall, 10 A. M. to 3 P. M.  
ABRAHAM S. HEWITT, Mayor. ARTHUR BERRY, Secretary and Chief Clerk.

Mayor's Marshal's Office.  
No. 1 City Hall, 9 A. M. to 4 P. M.  
THOMAS W. BYRNES, First Marshal.  
GEORGE W. BROWN, Jr., Second Marshal.

## COMMISSIONERS OF ACCOUNTS.

Rooms 114 and 115, Stewart Building, 9 A. M. to 4 P. M.  
WM. PITT SHEARMAN, JAMES DALY.

## AQUEDUCT COMMISSIONERS.

Room 209, Stewart Building, 5th floor, 9 A. M. to 5 P. M.  
CHARLES C. SPENCER, President; JOHN C. SHERMAN, Secretary; BENJAMIN S. CHURCH, Chief Engineer; J. C. LULLY, Auditor.

## BOARD OF ARMORY COMMISSIONERS.

THE MAYOR, Chairman; PRESIDENT OF DEPARTMENT OF TAXES AND ASSESSMENTS, Secretary.  
Address M. COLEMAN, Staats Zeitung Building, Tryon Row. Office hours, 9 A. M. to 4 P. M.; Saturdays, 9 A. M. to 12 M.

## LEGISLATIVE DEPARTMENT.

Office of Clerk of Common Council.  
No. 8 City Hall, 10 A. M. to 4 P. M.  
GEORGE H. FORSTER, President Board of Aldermen.  
FRANCIS J. TWOMEY, Clerk Common Council.

City Library.  
No. 12 City Hall, 10 A. M. to 4 P. M.  
D. N. CARVALHO, City Librarian.

## DEPARTMENT OF PUBLIC WORKS.

Commissioner's Office.  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
JOHN NEWTON, Commissioner; D. LOWBER SMITH, Deputy Commissioner.

Bureau of Chief Engineer.  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
GEORGE W. BIRDSALL, Chief Engineer.

Bureau of Water Register.  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
JOHN H. CHAMBERS, Register.

Bureau of Street Improvements.  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
WM. M. DEAN, Superintendent.

Engineer-in-Charge of Sewers.  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
HORACE LOOMIS, Engineer-in-Charge.

Bureau of Repairs and Supplies.  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
WILLIAM G. BERGEN, Superintendent.

Bureau of Water Purveyor.  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
ALSTON CULVER, Water Purveyor.

Bureau of Lamps and Gas.  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
STEPHEN MCCORMICK, Superintendent.

Bureau of Streets.  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
GEO. E. BARCOCK, Superintendent.

Bureau of Incumbrances.  
No. 31 Chambers street, 9 A. M. to 4 P. M.  
JOHN RICHARDSON, Superintendent.

Keeper of Buildings in City Hall Park.  
MARTIN J. KEES, City Hall.

## FINANCE DEPARTMENT.

Comptroller's Office.  
No. 15 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
THEODORE W. MYERS, Comptroller; RICHARD A. STOKES, Deputy Comptroller.

Auditing Bureau.  
Nos. 19, 21, 23 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
WILLIAM J. LYON, First Auditor.  
DAVID E. AUSTEN, Second Auditor.

Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rent.  
Nos. 33, 35, 37, 39 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
ARTEMAS S. CADY, Collector of Assessments and Clerk of Arrears.

Bureau for the Collection of City Revenue and of Markets.

Nos. 1 and 3 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
JAMES J. KELSO, Collector of the City Revenue and Superintendent of Markets.  
GRAHAM MACADAM, Chief Clerk.

Bureau for the Collection of Taxes.  
No. 57 Chambers street and No. 35 Reade street, Stewart Building.  
GEORGE W. McLEAN, Receiver of Taxes; ALFRED VREDENBURGH, Deputy Receiver of Taxes.

Bureau of the City Chamberlain.  
Nos. 25, 27 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
WM. M. IVINS, City Chamberlain.

Office of the City Paymaster.  
No. 33 Reade street, Stewart Building.  
JOHN H. TIMMERMAN, City Paymaster.

## LAW DEPARTMENT.

Office of the Counsel to the Corporation.  
Staats Zeitung Building, third floor, 9 A. M. to 5 P. M.  
Saturdays, 9 A. M. to 4 P. M.  
HENRY E. BREKID, Counsel to the Corporation.  
ANDREW T. CAMPBELL, Chief Clerk.

Office of the Public Administrator.  
No. 40 Beekman street, 9 A. M. to 4 P. M.  
RICHARD J. MORRISON, Public Administrator.

Office of the Corporation Attorney.  
No. 40 Beekman street, 9 A. M. to 4 P. M.  
WILLIAM A. BOYD, Corporation Attorney.

## POLICE DEPARTMENT.

Central Office.  
No. 300 Mulberry street, 9 A. M. to 4 P. M.  
STEPHEN B. FRENCH, President; WILLIAM H. KIPP, Chief Clerk; JOHN J. O'BRIEN, Chief Bureau of Elections.

## DEPARTMENT OF CHARITIES AND CORRECTION.

Central Office.  
No. 66 Third avenue, corner Eleventh street, 9 A. M. to 4 P. M.  
NOS. 35 BRENNAN, President; GEORGE F. BRITTON, Secretary.  
Purchasing Agent, FREDERICK A. CUSHMAN. Office hours, 9 A. M. to 4 P. M. Closed Saturdays, 12 M.  
Contracts, Proposals and Estimates for Work and Materials for Building, Repairs and Supplies, Bills and Accounts, 9 A. M. to 4 P. M. Closed Saturdays, 12 M.  
RUFUS L. WILDER, General Bookkeeper and Auditor.

## 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 Fifty-seventh street.  
HENRY D. PURROY, President; CARL JUSSEN, Secretary.

Bureau of Chief of Department.  
CHARLES O. SHAY, Chief of Department.

Bureau of Inspector of Combustibles.  
PETER SEERY, Inspector of Combustibles.

Bureau of Fire Marshal.  
GEORGE H. SHIELDON, Fire Marshal.

Bureau of Inspection of Buildings.  
ALBERT F. D'OUEN, Superintendent of Buildings.

Attorney to Department.  
WM. L. FINDLEY.

Fire Alarm Telegraph.  
J. ELLIOT SMITH, Superintendent.  
Central Office open at all hours.

## Repair Shops.

Nos. 128 and 130 West Third street.  
JOHN CASTLES, Foreman-in-Charge, 8 A. M. to 5 P. M.

## Hospital Stables.

Ninety-ninth street, between Ninth and Tenth avenues.  
JOSEPH SHEA, Foreman-in-Charge.  
Open at all hours.

## HEALTH DEPARTMENT.

No. 301 Mott street, 9 A. M. to 4 P. M.  
JAMES C. BAYLES, President; EMMONS CLARK, Secretary.

## DEPARTMENT OF PUBLIC PARKS.

Emigrant Industrial Savings Bank Building, Nos. 49 and 51 Chambers street, 9 A. M. to 4 P. M.  
J. HAMPDEN ROBB, President; CHARLES DE F. BURNS, Secretary.

Civil and Topographical Office.  
Arsenal, Sixty-fourth street and Fifth avenue, 9 A. M. to 5 P. M.

Office of Superintendent of 23d and 24th Wards.  
One Hundred and Forty-sixth street and Third avenue, 9 A. M. to 5 P. M.

## DEPARTMENT OF DOCKS.

Battery, Pier A, North River, 9 A. M. to 4 P. M.  
L. J. N. STARK, President; G. KEMBLE, Secretary.

Office hours from 9 A. M. to 4 P. M. daily, except Saturdays: on Saturdays as follows: from October 1 to June 1, from 9 A. M. to 3 P. M.; from June 1 to September 30, from 9 A. M. to 12 M.

## DEPARTMENT OF TAXES AND ASSESSMENTS

Staats Zeitung Building, Tryon Row, 9 A. M. to 4 P. M. Saturdays, 12 M.  
MICHAEL COLEMAN, President; FLOYD T. SMITH, Secretary.

Office Bureau Collection of Arrears of Personal Taxes.  
Brown-stone Building, City Hall Park, 9 A. M. to 4 P. M.  
CHARLES S. BEARDSLEY, Attorney; WILLIAM COMBERFORD, Clerk.

## DEPARTMENT OF STREET CLEANING.

49 and 51 Chambers street. Office hours, 9 A. M. to 4 P. M.  
JAMES S. COLEMAN, Commissioner; JACOB SEABOLD, Deputy Commissioner; R. W. HORNOR, Chief Clerk.

## CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS.

Cooper Union.  
EVERETT P. WHEELER, Chairman of the Supervisory Board; LEE PHILLIPS, Secretary and Executive Officer.

## BOARD OF ESTIMATE AND APPORTIONMENT.

Office of Clerk, Staats Zeitung Building, Room 5.  
THE MAYOR, Chairman; CHARLES V. ADEE, Clerk.

## BOARD OF ASSESSORS.

Office City Hall, Room No. 115, 9 A. M. to 4 P. M.  
EDWARD GILON, Chairman; WM. H. JASPER, Secretary.

## BOARD OF EXCISE.

No. 54 Bond street, 9 A. M. to 4 P. M.  
CHARLES H. WOODMAN, President; DAVID S. WHITE, Secretary and Chief Clerk.

## SHERIFF'S OFFICE.

Nos. 3 and 4 New County Court-house, 9 A. M. to 4 P. M.  
HUGH J. GRANT, Sheriff; JOHN B. SEXTON, Under Sheriff; BERNARD F. MARTIN, Order Arrest Clerk.

## REGISTER'S OFFICE.

East side City Hall Park, 9 A. M. to 4 P. M.  
JAMES J. SLEVIN, Register; JAMES J. MARTIN, Deputy Register.

## COMMISSIONER OF JURORS.

Room 127, Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
CHARLES KELLY, Commissioner; JAMES E. CONNER, Deputy Commissioner.

## COUNTY CLERK'S OFFICE.

Nos. 7 and 8 New County Court-house, 9 A. M. to 4 P. M.  
JAMES A. FLACK, County Clerk; THOMAS F. GILROY, Deputy County Clerk.

## DISTRICT ATTORNEY'S OFFICE.

Second floor, Brown-stone Building, City Hall Park, 9 A. M. to 4 P. M.  
JOHN R. FELLOWS, District Attorney; JAMES McCABE, Chief Clerk.

## THE CITY RECORD OFFICE,

And Bureau of Printing, Stationery, and Blank Books.  
No. 2 City Hall, 9 A. M. to 5 P. M., except Saturdays, on which days 9 A. M. to 3 P. M.  
THOMAS COSTIGAN, Supervisor; R. P. H. ABELL, Book-keeper.

## CORONERS' OFFICE.

Nos. 13 and 15 Chatham street, 8 A. M. to 5 P. M. Sundays and holidays, 8 A. M. to 12.30 P. M.  
MICHAEL J. B. MESSEMER, FERDINAND LEVY, FERDINAND EIDMAN, JOHN R. NUGENT, Coroners; JOHN T. TOAL, Clerk of the Board of Coroners.

## SUPREME COURT.

Second floor, New County Court-house, opens at 10.30 A. M.  
CHARLES H. VAN BRUNT, Presiding Justice; JAMES A. FLACK, Clerk; THOMAS F. GILROY, Deputy County Clerk.  
General Term, Room No. 9, WILLIAM LAMB, Jr., Clerk.  
Special Term, Part I., Room No. 10, HUGH DONNELLY, Clerk.  
Special Term, Part II., Room No. 18, WILLIAM J. HILL, Clerk.  
Chambers, Room No. 11, WALTER BRADY, Clerk.  
Circuit, Part I., Room No. 12, J. J. CLARK, Clerk.  
Circuit, Part II., Room No. 14, JOHN B. MCGILDRICK, Clerk.  
Circuit, Part III., Room No. 13, GEORGE F. LYON, Clerk.  
Circuit, Part IV., Room No. 15, J. LEWIS LYON, Clerk.  
Judges' Private Chambers, Rooms Nos 19 and 20, EDWARD I. KNIGHT, Librarian.

## DEPARTMENT OF DOCKS.

## NOTICE.

MESSRS. VAN TASSEL & KEARNEY, Auctioneers, will sell, to the highest bidders, at public auction, for account of the Department of Docks, on Wednesday, August 15, 1888, commencing at 10 o'clock A. M., the following named and described old material, at the places stated, to wit:

At West Fifty-seventh Street.  
Lot 1—Old wrought-iron, about 6,800 pounds.  
Lot 2—Old cast-iron, about 800 pounds.  
Lot 3—Consisting of about 9 pairs old rubber boots, about 6 old hoses, about 7 pairs old ash oars, about 24 old canal barrows.  
Lot 4—Raft of old timber, about 40 feet long, about 17 feet wide, 1 foot high.  
Lot 5—Raft of old timber, about 42 feet long, about 24 feet wide, and about 1 foot high.  
Lot 6—Raft of old timber, about 30 feet long, about 17 feet wide, and about 1 foot high.  
All these lots at West Fifty-seventh street must be removed within five days from the date of sale, by the purchaser.

At West Thirtieth Street.  
Lot 7—Raft of old 3" plank and pile butts, about 18' x 24' x 4'.  
Lot 8—Raft of old piles, about 30' x 18' x 4'.  
Lot 9—Raft of old square timber and short pile butts, 24' x 15' x 3 1/2'.  
Lot 10—Raft of old square timber, old piles and short pile butts, 100' x 28' x 4'.  
Lot 11—Raft of old square timber and short pile butts, 37' x 16' x 4'.  
Lot 12—Raft of old 3" plank and pile butts, 25' x 14' x 3 1/2'.  
Lot 13—Raft of old 3" plank, square timber and short pile butts, 41' x 18' x 3 1/2'.  
Lot 14—Raft of old 3" plank, 29' x 15' x 5'.  
Lot 15—Raft of old 3" plank, 29' x 20' x 6'.  
Lot 16—Raft of old piles (about twenty-five), 46' x 19' x 5'.  
Lot 17—Raft of old 4" plank, 25' x 26' x 5'.  
Lot 18—Raft of old 3" plank, square timber and square timber, 25' x 16' x 5'.  
Lot 19—Raft of old 3" plank, 25' x 17' x 4'.  
Lot 20—Raft of old square timber, pile butts and plank, 100' x 20' x 5'.  
The purchaser must remove the whole of these lots within five days from the date of sale.

## At West Street, between North Moore and Beach Streets.

Lot 21—One two-story shed, about 28 feet wide by 57 feet deep by 35 feet high, with everything now standing above the deck plank or sheathing on the bulkhead platform, between the north and south sides of North Moore street, including siding, gates, posts, guard-timbers, and also one pile of about thirty old pile butts from 10 feet to 30 feet long.  
The purchaser must remove the whole of this lot within thirty days from the date of sale.  
Lot 22—One one-story shed, about 54 feet long, 69 feet deep and 24 feet high, with everything now standing above the deck plank or sheathing on the bulkhead platform, between the north line of North Moore street and a line about 54 feet north of same, including gates, posts, guard-timbers and siding on the east and south sides. (The siding on the north side goes with lot No. 23.)  
The purchaser must remove the whole of this lot within thirty days from the date of sale.  
Lot 23—One one-story shed, 123 feet long, 69 feet deep and 24 feet high; one one-story shed, 58 feet long, 61 feet deep and 26 feet high, with everything now standing above the deck or sheathing on the bulkhead platform, between a line 54 feet north of the north side of North Moore street and the north line of Beach street, including siding, gates, posts, guard-timbers, and one fence about 10 feet by 10 feet, between lots 23 and 24.  
The purchaser must remove the whole of this lot within thirty days from the date of sale.

## East Seventeenth Street Yard.

Lot 24—Lot old wrought-iron screw-bolts, about 7,647 pounds.  
Lot 25—Lot old wrought-iron, about 13,508 pounds.  
Lot 26—Lot old cast-iron, about 3,868 pounds.  
Lot 27—Lot old dock plank, 72 feet long, 12 feet wide, and 9 feet high.  
Lot 28—Lot old wood, 26 feet long, 15 feet wide and 5 feet high.  
Lot 29—Lot old centres covering or arches, 34 feet long, 5 feet wide and 5 feet high.  
Lot 30—13 old sky-light sashes.  
Lot 31—7 old wooden concrete buckets.  
Lot 32—5 old iron concrete buckets.  
Lot 33—2 old gable heaters.  
Lot 34—2 old iron buckets.  
Lot 35—1 old oil-can.  
Lot 36—2 old oil barrels.  
Lot 37—1 old ladder.  
Lot 38—1 old stove.  
Lot 39—5 old double blocks.  
The purchaser must remove all of each one of these lots within five days from the date of sale.

## CONDITIONS OF THE SALE.

The sale will commence at 10 o'clock A. M., and be continued in the following order: First, at the East Seventeenth Street Yard; second, at West street, between North Moore and Beach streets; third, at basin foot of Thirtieth street, North river; and fourth, at Fifty-seventh Street Yard, North river.

Each of the above lots will be sold separately and for a steep in gross.  
The estimated quantities stated to be in the several lots are believed to be correct, but the Department will not make any allowance from the purchase money for short delivery on any lot, and bidders must judge for themselves as to the correctness of the estimate of quantity when making their bids.  
All property not removed promptly will remain at the risk of the buyer.

Terms of sale to be cash, to be paid at the time of sale. An order will be given for the material purchased.

LUCIUS J. N. STARK,  
JAMES MATTHEWS,  
EDWIN A. POST,  
Commissioners of the Department of Docks.

DEPARTMENT OF STREET  
CLEANING.

DEPARTMENT OF STREET CLEANING,  
Nos. 49 and 51 CHAMBERS STREET,  
NEW YORK, August 1, 1888.

PUBLIC NOTICE IS HEREBY GIVEN THAT the following articles, the property of the Department of Street Cleaning, will be sold at Public Auction at the Stables of this Department, Seventeenth Street and Avenue C, by William Kennedy, auctioneer, on Thursday, 15th day of August, 1888, at eleven o'clock in the forenoon:

Four Horses, known as Nos. 27, 45, 56, and 116.  
About 10,000 pounds old Rope.  
About 20,000 pounds Scrap Iron.  
About 2,000 pounds old Horse-shoes.  
About 100 pounds old Composition Metal.  
1 old Prop. Wheel and Shaft.  
1 old Gig.

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 relating to the articles to be sold may be obtained from the Superintendent of the Stables, at Seventeenth street and Avenue C.

JAMES S. COLEMAN,  
Commissioner of Street Cleaning.

## HEALTH DEPARTMENT.

HEALTH DEPARTMENT, No. 301 MOTT STREET,  
NEW YORK, January 31, 1888.

AT A MEETING OF THE BOARD OF HEALTH of the Health Department of the City of New York, held at its office, No. 301 Mott street, January 27, 1888, the following resolution was adopted:

Secretary.

## FINANCE DEPARTMENT.

CITY OF NEW YORK—FINANCE DEPARTMENT,  
BUREAU FOR THE COLLECTION OF ASSESSMENTS AND  
ARRAIRS OF TAXES AND ASSESSMENTS  
AND OF WATER RENTS,  
OFFICE OF THE COLLECTOR OF ASSESSMENTS  
AND CLERK OF ARRAIRS,  
STEWART BUILDING, ROOM 35, AUGUST 7, 1888.

## NOTICE OF THE SALE OF LANDS AND TENEMENTS FOR UNPAID TAXES OF 1886 TO 1888, AND CROTON WATER RENTS OF 1886 TO 1888, UNDER THE DIRECTION OF THEODORE W. MYERS, COMPTROLLER OF THE CITY OF NEW YORK.

The undersigned hereby gives public notice, pursuant to the provisions of section 926 of the New York City Consolidation Act of 1882—

That the respective owners of all the lands and tenements situated in the Wards North and South of the City of New York, on which taxes have been laid and confirmed for the years 1886 to 1888, both inclusive, and are now remaining due and unpaid; and also the respective owners of all lands and tenements in the City of New York, situated in the Wards aforesaid, on which the regular Croton water rents have been laid for the years 1886 to 1888, both inclusive, and are now remaining due and unpaid, are required to pay the said taxes and Croton water rents so remaining due and unpaid, with the interest thereon at the rate of seven per cent. per annum, from the time when the same became due to the time of payment, together with the charges of this notice and advertisement, to the Collector of Assessments and Clerk of Arraers at his office in the Finance Department, in the Stewart Building, corner of Broadway and Chambers street, in said city.

And that if default shall be made in such payment such lands and tenements will be sold at public auction at the Court-house, in the City Hall Park, in the City of New York, on Monday, November 12, 1888, at 12 o'clock noon, for the lowest term of years at which any person shall offer to take the same in consideration of advancing the amount of tax or Croton water rent, as the case may be, so due and unpaid, and the interest thereon as aforesaid to the time of sale, together with the charges of this notice and advertisement, and all other costs and charges and disbursements, and that such sale will be continued, from time to time, until all the lands and tenements so advertised for sale shall be sold.

Notice is hereby further given that a detailed statement of the taxes and Croton water rents, the ownership of the property on which taxes and Croton water rents remain unpaid, is published in a pamphlet, and that copies of the said pamphlet are deposited in the office of the Collector of Assessments and Clerk of Arraers, and will be delivered to any person applying for the same.

A. S. CADY,  
Collector of Assessments and Clerk of Arraers.

## PROPOSALS FOR \$1,100,000 STOCKS AND BONDS OF THE CITY OF NEW YORK.

EXEMPT FROM CITY AND COUNTY TAXATION.

INTEREST THREE PER CENT. PER ANNUM.

SEALED PROPOSALS WILL BE RECEIVED AT the office of the Comptroller of the City of New York, until Tuesday, the 14th day of August, 1888, at 2 o'clock P. M., when the same will be opened by him in the presence of the Commissioners of the Sinking Fund, or such of them as shall attend, for the whole or a part of the following registered Stocks and Bonds of the City of New York, to wit:

## 1. CONSOLIDATED STOCK OF THE CITY OF NEW YORK.

as provided by section 132 of the New York City Consolidation Act of 1882; also to be denominated "Armory Bonds," pursuant to section 7 of chapter 497 of the Laws of 1886, amending section 62 of chapter 259 of the Laws of 1883, and in accordance with the resolution of the Commissioners of the Sinking Fund, passed April 20, 1887, for the purpose of constructing and completing an armory to be occupied by the Eighth Regiment, N. G. S. N. Y., upon the plot of ground designated that purpose between Madison and Fourth avenues, Ninety-fourth and Ninety-fifth streets, for the sum of \$250,000. The principal of said stock will be redeemable NOVEMBER 1, 1907, and the interest thereon, at the rate of three per cent. per annum, is payable semi-annually on the first day of May and November in each year.

## 2. CONSOLIDATED STOCK

of the City of New York, authorized by sections 132 and 134 of the New York City Consolidation Act of 1882, and chapter 497 of the Laws of 1886, as amended, "An Act to provide for the construction of a bridge over the Harlem river in the City of New York," and to be issued in pursuance of a resolution adopted by the Bridge Commission, dated July 1, 1887, and as authorized by a resolution adopted by the Board of Estimate and Apportionment, July 26, 1888, for the sum of \$350,000. The principal of said stock is payable NOVEMBER 1, 1908, and the interest thereon, at the rate of three per cent. per annum, is payable semi-annually on the first day of May and November in each year.

## 3. DOCK BONDS.

of the City of New York, authorized by section 143 of the New York City Consolidation Act of 1882, for the sum of \$500,000. The principal of said bonds will be payable NOVEMBER 1, 1918, and the interest thereon, at the rate of three per cent. per annum, payable semi-annually on the first day of May and November in each year. For the redemption of said Consolidated Stock and Dock Bonds, a sum sufficient, with the accumulation of interest thereon, will be included in the annual estimate and raised by tax each year, to meet and discharge the principal of the principles as provided by section 132 of the New York City Consolidation Act of 1882.

Said Consolidated Stock and Dock Bonds are also

## EXEMPT FROM CITY AND COUNTY TAXATION.

pursuant to section 137 of said Consolidation Act, and as authorized by an ordinance of the Common Council of the City of New York passed October 2, 1886, and by "concurrent resolutions" adopted by the Commissioners of the Sinking Fund, April 20, 1887, June 17, 1887, and July 27, 1888, respectively.

## CONDITIONS.

Section 146, New York City Consolidation Act of 1882, provides that "The Comptroller, with the approval of the Commissioners of the Sinking Fund, shall determine what, if any, part of said stocks and bonds shall be sold, and upon the payment into the City Treasury of the amounts due by the persons whose bids are accepted, respectively, certificates therefor shall be issued to them as authorized by law." And also, "that no proposal 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 bonds awarded to them, within three days after notice of such acceptance.

Proposals will be received for any of said stocks or bonds in sums of one thousand dollars or multiples thereof, stating the amount and kind of securities which are desired by the bidders.

The proposals should be enclosed in a sealed envelope, indorsed "Proposals for Stocks and Bonds of the City of New York," and each proposal should also be enclosed in a second envelope, addressed to the Comptroller of the City of New York.

THEO. W. MYERS,

Comptroller.

CITY OF NEW YORK—FINANCE DEPARTMENT,  
COMPTROLLER'S OFFICE, July 31, 1888.

## NOTICE OF SALE AT AUCTION OF THE CITY'S INTEREST IN CERTAIN REAL ESTATE IN THE TWELFTH WARD.

NOTICE IS HEREBY GIVEN THAT ALL THE right, title and interest of the Corporation of the City of New York in and to certain land in the Twelfth Ward of said city will be sold at public auction, to the highest bidder, at the Comptroller's Office, No. 250 Broadway, at noon on Wednesday, the 22d day of August, 1888, under a resolution adopted by the Commissioners of the Sinking Fund, July 12, 1888, as follows:

Resolved, That the Comptroller be and he is hereby authorized and directed to appoint an appraiser and have an appraisal made of the right, title and interest of the City in and to a certain plot of land in the Twelfth Ward of the City of New York, described and bounded as follows:

Beginning at a point formed by the intersection of the northern side of One Hundred and Seventh street with the westerly side of First avenue; thence running northerly along said First avenue seventy-five feet seven inches; thence running westerly, parallel with One Hundred and Seventh street, one hundred feet; thence running southerly, parallel with said First avenue, seventy-five feet seven inches to the northerly side of said One Hundred and Seventh street; and thence running easterly along said One Hundred and Seventh street, one hundred feet to the point or place of beginning; and when said appraisal is made, to sell the same at public auction, to the highest bidder, for cash, pursuant to section 170 of the New York City Consolidation Act of 1882, the purchase money to be paid in addition to the amount of unpaid taxes, assessments and water rents that may be due on the premises.

THEO. W. MYERS,

Comptroller.

CITY OF NEW YORK—FINANCE DEPARTMENT,  
COMPTROLLER'S OFFICE, July 17, 1888.

## REAL ESTATE RECORDS.

THE ATTENTION OF LAWYERS, REAL ESTATE AGENTS, OWNERS, AND OTHERS, is hereby called to the fact that the City of New York has caused to be made a complete and accurate index of all the real estate records in the City of New York from 1853 to 1887, prepared under the direction of the Commissioners of Records.

Grants, grants, suits in equity, insolvents' and Sheriff's sales in full, full bound, price..... \$100 00  
The same in 25 volumes, half bound..... 50 00  
Complete sets, folded, ready for binding..... 15 00  
Records of judgments, 25 volumes, bound..... 10 00  
Orders should be addressed to "Mr. Stephen Angel Room 23, Stewart Building."

THEODORE W. MYERS,  
Comptroller

## FIRE DEPARTMENT.

## HEADQUARTERS

FIRE DEPARTMENT, CITY OF NEW YORK,  
157 AND 159 EAST SIXTY-SEVENTH STREET,  
NEW YORK, July 31, 1888.

## TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING THE materials and labor, and doing the work required for constructing and erecting two houses—one on the south side of West Eighty-third street, 200 feet west of Ninth avenue, for an engine company, and the other on the west side of East Twenty-fifth street, between Hook and Ladder Co. No. 14, of this Department, will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 159 East Sixty-seventh street, City of New York, until 10 o'clock A. M., Monday, August 20, 1888, at which time and place they will be publicly opened by the head of said Department and read.

Estimates will be received from bidders for both houses together in one bid, in which case the lowest bid or estimate submitted should state a lump sum for both houses together (only and not a separate price for each house) and for each house in a separate bid. Estimates in any or all of these forms will be received from the same bidder if desired.

No estimate will be received or considered after the hour named.

For information as to the amount and kind of work to be done, bidders are referred to the specifications and drawings which form part of these proposals.

The form of the agreement with specifications and drawings, showing the manner of payment for the work, and the conditions of contract, 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 within one hundred and ten (110) days after the execution of the contract.

The damages to be paid by the contractor for each day that the contract may be unfulfilled after the time specified for the completion of the work has 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 the bid 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 endorsed with the name or names of the person or persons presenting the same, the date of its presentation and a statement of the work to which it relates.

All bidders 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 for a contract awarded to any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

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, the bidder distinctly state that he 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 thereof, or any 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 that 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 bidder, he will, on its being so awarded, become bound as sureties for its faithful performance, in the sum of eighteen thousand (\$18,000) dollars for both houses together, or of nine thousand (\$9,000) dollars for each of the houses in West Eighty-third street, and of eight thousand and five hundred (\$8,500) dollars for the house in East One Hundred and Twenty-fifth street; 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 householders 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 debts of every nature, and over and above his liabilities as surety in any good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.

No estimate will be considered unless accompanied by either a certified check upon one of the National Banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of nine hundred (\$900) dollars for both houses together, or of four hundred and seventy-five (\$475) dollars for the house in West Eighty-third street, and of four hundred and twenty-five (\$425) dollars for the house in East One Hundred and Twenty-fifth street. 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-book, and no estimate can be deposited in said book 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 retained by the Department making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York, as liquidated damages for such neglect or refusal, but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Should the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to him or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

HENRY D. PURROY,

THOMAS C. CROKER,

FITZ JOHN PORTER,

Commissioners.

## AQUEDUCT COMMISSION.

AQUEDUCT COMMISSIONERS' OFFICE,  
ROOM 209, STEWART BUILDING, NO. 250 BROADWAY,  
NEW YORK, AUGUST 4, 1888.

## TO CONTRACTORS.

BIDS OR PROPOSALS FOR FURNISHING AND manufacturing, fitting, placing, etc., ten 48-inch stop-cock valves and gearing at the Gate-house at One Hundred and Thirty-third Street and Convent Avenue on Section 15, and four 48-inch stop-cock valves and gearing to be used at Shaft No. 25 on Section 12, and one 48-inch stop-cock valve and gearing to be used at the New Engine-house on Section 16 of the New Aqueduct, as called for in the approved forms of contract and specifications on file in the office of the Aqueduct Commissioners, will be received at this office until Wednesday, August 22, 1888, at 2 o'clock P. M., at which place and hour they will be publicly opened by the Aqueduct Commissioners, and the award of the contract for said work and furnishing said material will be made by said Commissioners as soon thereafter as possible.

Blank forms of said approved contract and the specifications therefor, and bids or proposals and proper envelopes for their enclosure, and form of bonds, and also the plans for said work, and all other information, can be obtained at the above office of the Aqueduct Commissioners on application to the City of New York.

By order of the Aqueduct Commissioners.

JAMES C. DUANE,

President.

JOHN C. SHEEHAN,

Secretary.

AQUEDUCT COMMISSIONERS' OFFICE,  
ROOM 209, STEWART BUILDING, NO. 250 BROADWAY,  
NEW YORK, AUGUST 4, 1888.

## TO CONTRACTORS.

BIDS OR PROPOSALS FOR BUILDING AN Iron-lined Masonry Aqueduct, near Shaft No. 30, on Section 14 of the New Aqueduct, as called for in the approved forms of contract and specifications on file in the office of the Aqueduct Commissioners, will be received at this office until Wednesday, August 22, 1888, at 2 o'clock P. M., at which place and hour they will be publicly opened by the Aqueduct Commissioners, and the award of the contract for doing said work will be made by said Commissioners as soon thereafter as possible.

Blank forms of said approved contract and the specifications therefor, and proper envelopes for their enclosure, and all other information, can be obtained at the above office of the Aqueduct Commissioners on application to the Secretary.

By order of the Aqueduct Commissioners.

JAMES C. DUANE,

President.

JOHN C. SHEEHAN,

Secretary.

## JURORS.

## NOTICE

## IN RELATION TO JURORS FOR STATE COURTS.

OFFICE OF THE COMMISSIONER OF JURORS,  
ROOM 127, STEWART BUILDING,  
CHAMBERS STREET AND BROADWAY,  
NEW YORK, JUNE 1, 1888.

APPLICATIONS FOR EXEMPTIONS WILL BE heard here, from 9 to 4 daily, from all persons hitherto liable or recently serving who have become exempt, and all needed by the court. Those who have not answered as to their liability, or proved permanent exemption, will receive a "jury enrollment notice," requiring them to appear before me this year. Whether liable or not, such notice must be answered in person, if possible, and at this office only under severe penalties. If exempt, the party must bring proof of exemption; if liable, he must also answer in person, giving full and correct name, residence, etc., etc. Those paid to attend will be given.

Persons "enrolled" as liable must serve when called or pay their fines. No mere excuse will be allowed or interference permitted. The fines if unpaid will be entered as judgments upon the property of the delinquents. All good citizens will aid the course of justice, and secure reliable and respectable juries, and equalize their duty by serving promptly when summoned, allowing their clerks or subordinates to serve, reporting to me any excuse, and being ready to appear at the time of their enrollment. Persons between sixty and seventy years of age, summer absentees, persons temporarily ill, and United States jurors are not exempt.

Every man must attend to his own notice. It is a misdemeanor to give any jury paper to another to answer. It is also punishable by fine or imprisonment to give or receive any present or bribe, directly or indirectly, in relation to a jury service, or to withhold any paper or make any false statement, and every case will be fully prosecuted.

CHARLES REILLY,

Commissioner of Jurors.

## DEPARTMENT OF PUBLIC PARKS.

DEPARTMENT OF PUBLIC PARKS,  
Nos. 49 and 51 CHAMBERS STREET,  
NEW YORK, AUGUST 2, 1888.

NOTICE IS HEREBY GIVEN THAT THE COMMISSIONERS of the Department of Public Parks, in the City of New York, will, on the 22d day of August, 1888, at 11 o'clock A. M., at their office, in the Emigrants Savings Bank Building, Nos. 49 and 51 Chambers street, in said city, hear and consider all statements, objections and evidence that may then and there be offered in reference to a proposed change in the lines of Decatur avenue, between Isaac and Travers streets, in the Twenty-fourth Ward, in pursuance of the provisions of chapter 721 of the Laws of 1887.

The contemplated change consists in changing the location, course and lines, and discontinuing and closing a part of Decatur avenue, between Isaac and Travers streets.

A map showing the proposed change is on exhibition in said office.

H. CAMPDEN ROBB,

M. C. D. BORDEN,

WALDEN R. BUCHANAN,

STEVENS TOWLE,

Commissioners of Public Parks.

DEPARTMENT OF PUBLIC PARKS,  
Nos. 49 and 51 CHAMBERS STREET,  
NEW YORK, AUGUST 2, 1888.

## NOTICE.

PARTIES INTERESTED IN THE MATTER OF the grades of the following-named streets in the Twenty-fourth Ward, are requested to call at the office of the Department of Public Parks, on the 15th day from date, and examine maps showing such grades as proposed to be established, and make known their views in relation thereto:

East One Hundred and Seventy-fifth street, from Carter avenue to the Southern Boulevard, in the Twenty-fourth Ward.

Birch street, from Wolf street to Marcher avenue, in the Twenty-third Ward.

Boswell avenue, from the easterly approach to the bridge over Harlem river at West One Hundred and Eighty-first street to Jerome avenue, in the Twenty-third and Twenty-fourth Wards.

By order of the Department of Public Parks.  
CHARLES DE F. BURNS,  
Secretary.

DEPARTMENT OF PUBLIC PARKS,  
Nos. 49 and 51 CHAMBERS STREET,  
NEW YORK, July 27, 1888.

## PUBLIC NOTICE.

UNDER CHAPTER 407 OF THE LAWS OF 1888, an act relative to railways in the Transverse Roads of the Central Park of the City of New York, the Department of Public Parks, with the concurrence of the Sinking Fund Commissioners, is authorized to construct railways in and upon the roads in said park known as the Transverse Roads, and such contract, in the name of the Mayor, Aldermen and Commonalty of the City of New York, with any persons or corporations for the construction, equipment and running of the same upon such terms and conditions, including the rates of fare to be charged to persons using such railways, and such compensation to be paid to the said Mayor, Aldermen and Commonalty of the City of New York, and subject to such rules and regulations as may be determined upon in such contracts, and as the said Department may deem proper, may from time to time establish or impose. The said Department, with the concurrence of the Sinking Fund Commissioners, is authorized to agree with the person or corporation with whom any contract may be made for the construction, equipment and running of said railways that the cost of such construction shall be paid by the City in installments out of the compensation which such person or corporation shall agree to pay to said City, as compensation shall be received.

Public notice is hereby given that the Commissioners of Public Parks will receive and consider proposals for the construction and operation of a railway or railways in and through the Central Park Transverse Roads, in accordance with the provisions of the act above cited, at a meeting to be held at their office, Nos. 49 and 51 Chambers street, on Wednesday, September 5, 1888, at 11 o'clock A. M.

By order of the Commissioners of Public Parks.  
CHARLES DE F. BURNS,  
Secretary.

DEPARTMENT OF PUBLIC PARKS,  
Nos. 49 and 51 CHAMBERS STREET,  
NEW YORK, July 25, 1888.

## TO CONTRACTORS.

## PROPOSALS FOR FORAGE.

## SEALED BIDS OR ESTIMATES FOR FURNISHING

100,000 pounds of Hay, of the quality and standard known as best Sweet Timothy.  
30,000 pounds good clean Rye Straw.  
1,500 bags clean No. 1 White Oats, 80 pounds to the bag.

200 bags clean, sound Yellow Corn, 112 pounds to the bag.

450 bags first quality Bran, 40 pounds to the bag. — will be received at the office of the Department of Public Parks, Nos. 49 and 51 Chambers street, New York, until eleven o'clock A. M., on Wednesday, August 8, 1888. The person or persons making any bid or estimate shall present the same in a sealed envelope, indorsed "Bid or Estimate for Forage," with the name or names of the person or persons presenting the same, and the date of presentation, at the said office, on or before the day and hour above named, at which time and place the bids will be publicly opened by the head of said Department and read, and the award of the contract will be made as soon thereafter as practicable.

The person or persons to whom the contract may be awarded will be required to attend at the office of the said Department, with the sureties offered by him or them, and execute the contract within five days after written notice that the same has been awarded to his or their bid or estimate, and that the sureties offered by him or them have been approved by the Commissioners; and in case of failure or neglect to do so, he or they will be considered as having abandoned it, and as in default to the Corporation, and thereupon the contract will be readvertised and relet, and so on until the contract be accepted and executed. The delivery to commence at such time as the Commissioners of the Department of Public Parks may designate.

N. B.—The prices 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 called for in the specifications, or which contain bids for items not called for therein. Permission will not be given for the withdrawal of any bid or estimate, and the right to expressly reserved by the Department of Public Parks to reject any or all estimates which it may deem prejudicial to the public interests. No estimate will be accepted from, or contract awarded to any person who is in arrears

to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

No estimate will be received or considered unless accompanied by either a certified check upon one of the National or State banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per cent 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 estimates, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited 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.

Bidders are required to state in their estimates, under oath, their names and places of residence; the names of all persons interested with them therein; and if no other person be so interested they shall distinctly state that fact; also that such estimate is made without any connection with any other person making a bid or estimate for the same purpose, and that it is in all respects fair and without collusion or fraud; and also that no member of the Common Council, or any deputy, clerk, or other officer, bureau, deputy thereof or clerk therein, or other officer of the Corporation is directly or indirectly interested therein, or in the supplies or work to which it relates or in any portion of the profits thereof.

The estimate must be verified by the oath, in writing, of the party making such estimate that the several matters therein stated are in all respects true. Where more than one person is interested in the estimate the verification must be made and subscribed by all the parties interested.

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, who are not interested in the business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance; and that if he shall refuse or neglect to execute the same, they shall pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded, or any subsequent letting, the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, and stated in the proposals, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; 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 so offered shall be determined by the Comptroller of the City of New York, after the award is made and prior to the signing of the contract.

All of the articles are to be delivered in such quantities and at such times as may be directed, at the following places:

- Sixty-fourth street and Fifth avenue (Arsenal).
- Sixty-fourth street and Eighth avenue (Sheepfold).
- Eighty-fifth street, transverse road (Stables).
- One Hundred and Fifth street and Fifth avenue (Stables).
- One Hundred and Forty-third street and College avenue (Stables).

N. B.—The amount of security required is one thousand dollars (\$1,000). Blank forms of proposals and form of agreement, including the specifications, and showing the mode of payment can be obtained on application to the Secretary at the office of the Department, Nos. 49 and 51 Chambers street.

J. HAMPTEN ROBB,  
M. C. BORDEN,  
WALDO HUTCHINS,  
STEVENSON TOWLE,  
Commissioners of Public Parks.

#### DEPARTMENT OF PUBLIC WORKS, Nos. 49 and 51 CHAMBERS STREET.

**NOTICE IS HEREBY GIVEN** That the Commissioners of the Department of Public Parks, in the City of New York, will, at their office, in the Emigrants' Savings Bank Building, Nos. 49 and 51 Chambers street, in said city, on Wednesday, August 8, 1888, at 11 o'clock A. M., hear and consider the proposals, plans and evidence that may then and there be offered in reference to the contemplated change of street system in that part of the "Fordham Heights District," Twenty-fourth Ward, between Kingsbridge road and the Aqueduct and Sedgwick avenues, in pursuance of the provisions of chapter 721 of the Laws of 1887.

The general character and extent of the proposed change consists in closing the lower and closing part of Fordham road, Aqueduct avenue, "Academy place," St. James street, the street or road between the lands of William H. Webb and Moses Devoe and the street or road connecting the last mentioned street or road with Fordham road and separating the two parks west of Aqueduct avenue.

The map and plan showing such contemplated change is now on exhibition in said office.

J. HAMPTEN ROBB,  
M. C. BORDEN,  
WALDO HUTCHINS,  
STEVENSON TOWLE,  
Commissioners of Public Parks.

#### SUPREME COURT.

In the matter of the application of the Department of Public Works, for and on behalf of The Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of ONE HUNDRED AND EIGHTY-FIRST STREET, between Tenth and Eleventh avenues.

**WE, THE UNDERSIGNED COMMISSIONERS** of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 200 Broadway (fifth floor), in the said city, on or before the eleventh day of September, 1888, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said eleventh day of September, 1888, at our said office on each of said ten days, at two o'clock P. M.

Second—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the eleventh day of September, 1888.

Third—That the limits embraced by the assessment aforesaid are as follows, to wit: All those lots, pieces or parcels of land, situate, lying and being in the City of New York, which taken together are bounded and described as follows, viz: Northerly by a straight line parallel

with, and distant 100 feet northerly from, the northerly side of One Hundred and Eighty-first street and extending from the westerly side of Eleventh avenue to the easterly side of New (Audubon) avenue and a straight line parallel with, and distant 100 feet northerly from, the northerly side of One Hundred and Eighty-first street and extending from the easterly side of New (Audubon) avenue to the westerly side of Tenth avenue; easterly by a straight line parallel with, and distant 100 feet southerly from, the southerly side of One Hundred and Eighty-first street and extending from the westerly side of Tenth avenue to the easterly side of New (Audubon) avenue and a straight line parallel with, and distant 100 feet southerly from, the southerly side of One Hundred and Eighty-first street and extending from the westerly side of Eleventh avenue to the easterly side of the Eleventh avenue; excepting from said area all the streets, avenues and roads or portions thereof heretofore legally opened and all the unimproved land included within the lines of streets, avenues, roads, public squares or places shown and laid out upon any map or maps filed by the Commissioner of the Department of Public Parks, pursuant to the provisions of chapter 604 of the Laws of 1874, and the laws amendatory thereof, or of chapter 470 of the Laws of 1882, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the twenty-fourth day of August, 1888, 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, July 28, 1888.  
EDWARD HOGAN,  
JOHN WHALEN,  
HAROLD M. SMITH,  
Commissioners.

CARROLL BERRY, 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 SEDGWICK AVENUE (although not yet named by proper authority) extending from the Fordham Landing road to the Fordham Landing road, in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

**NOTICE IS HEREBY GIVEN** THAT THE BILL of the costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the thirteenth day of August, 1888, at 10:30 o'clock in the forenoon, and 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, July 31, 1888.  
EDWARD L. PARRIS,  
WILLIAM HENRY WILLIS,  
JOSEPH KUNZMANN,  
Commissioners.

CARROLL BERRY, 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 SEDGWICK AVENUE (although not yet named by proper authority) extending from the Twenty-third Ward line to the Fordham Landing road, in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

**WE, THE UNDERSIGNED COMMISSIONERS** of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 200 Broadway (fifth floor), in the said city, on or before the eleventh day of September, 1888, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said eleventh day of September, 1888, at our said office on each of said ten days, at two o'clock P. M.

Second—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the 28th day of July, 1888.

Third—That the limits embraced by the assessment aforesaid are as follows, to wit: All those lots, pieces or parcels of land, situate, lying and being in the City of New York, which taken together are bounded and described as follows, viz: Northerly by the southerly side of Fordham Landing road; easterly by the centre line of the block between the streets of the Heald, W. Andrews avenue and East One Hundred and Eighty-fourth street, and the centre line of the blocks between Sedgwick avenue and Loring place; southerly by the division line between the lands of the Heald, W. Andrews and Herman C. and Catherine E. Schwab and Doscher, and westerly by the centre line of the blocks between Sedgwick avenue and Heath avenue and Fordham Landing road. Also all those lots, pieces or parcels of land, situate, lying and being in the City of New York, which taken together are bounded and described as follows, viz: Northerly by a straight line drawn westerly and at right angles with the westerly side of Sedgwick avenue, and extending from a point where the westerly line of Heath avenue intersects the westerly line of Sedgwick avenue, about one hundred feet to the easterly line of the lands of the New York City and Northern Railroad, and the easterly line of a straight line drawn from a point on the westerly side of Sedgwick avenue where the easterly line of Heath avenue intersects the said westerly line of Sedgwick avenue, through a point on the easterly line of Sedgwick avenue, to the easterly line of the block between Sedgwick avenue and Commerce avenue, and designated on our benefit map as the end of a straight course of 496.44 feet, to the easterly limit of the area of assessment as hereafter described; easterly by the centre line of the block between the streets of Sedgwick avenue and Undercliff avenue; southerly by the division line between the Twenty-third and Twenty-fourth Wards, and by a straight line drawn easterly from the easterly side of Commerce avenue and at right angles with the same, and extending from the northerly termination of the said Commerce avenue to the centre line of the block between Sedgwick avenue and Commerce avenue, and westerly by the centre line of the block between Sedgwick avenue and Commerce avenue, and the centre line of the block between Sedgwick avenue and Commerce avenue, and a certain unnamed street or avenue parallel or nearly so with Sedgwick avenue, and extending from the westerly side of Sedgwick avenue by a line parallel or nearly so with and distant about 100 feet westerly from the westerly side of Sedgwick avenue, and extending northerly from a certain unnamed street or road, which street or road is situated about 100 feet westerly from the northerly side of East One Hundred and Eighty-first street, to the

straight line heretofore mentioned as a part of the northerly boundary, and extending from Sedgwick avenue to the easterly side of New York City and Northern Railroad; excepting from said area all the streets, avenues and roads, or portions thereof heretofore legally opened, and all the unimproved land included within the lines of streets, avenues, roads, public squares or places, shown and laid out upon any map or maps filed by the Commissioners of the Department of Public Parks, pursuant to the provisions of chapter 604 of the Laws of 1874 and the laws amendatory thereof, or of chapter 470 of the Laws of 1882, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the twenty-fourth day of August, 1888, 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, June 15, 1888.

EDWARD L. PARRIS,  
WILLIAM HENRY WILLIS,  
JOSEPH KUNZMANN,  
Commissioners.

CARROLL BERRY, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of The Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of CLAREMONT AVENUE, from One Hundred and Twenty-second street to the Twenty-fourth street, in the Twelfth Ward, 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 the owner or owners, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 200 Broadway (fifth floor), in the said city, on or before the eleventh day of September, 1888, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said 27th day of August, 1888, and for that purpose will be in attendance at our said office on each of said ten days, at two o'clock P. M.

Second—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the 27th day of August, 1888.

Third—That the limits embraced by the assessment aforesaid are as follows, to wit: All those lots, pieces or parcels of land, situate, lying and being in the City of New York, which taken together are bounded and described as follows, viz: Northerly by the southerly side of the block between the streets of the Heald, W. Andrews avenue and East One Hundred and Eighty-fourth street, and the centre line of the blocks between One Hundred and Twenty-second street; and westerly by the centre line of the block between Clarendon avenue and Boulevard; southerly by the northerly side of One Hundred and Twenty-second street; and westerly by the centre line of the block between Clarendon avenue and Boulevard; excepting from said area all the streets, avenues and roads or portions thereof heretofore legally opened, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the twenty-fourth day of August, 1888, 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, July 13, 1888.

JOSEPH B. ECCLESINE,  
J. ROMAIN BROWN,  
DAVID KEARNEY,  
Commissioners.

CARROLL BERRY, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of The Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of ONE HUNDRED AND THIRTY-NINTH STREET, from the Boulevard to Tenth avenue, in the Twelfth Ward of the City of New York.

**WE, THE UNDERSIGNED COMMISSIONERS** of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 200 Broadway (fifth floor), in the said city, on or before the eleventh day of September, 1888, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said 27th day of August, 1888, and for that purpose will be in attendance at our said office on each of said ten days at one o'clock P. M.

Second—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the 27th day of July, 1888.

Third—That the limits embraced by the assessment aforesaid are as follows, to wit: All those lots, pieces or parcels of land, situate, lying and being in the City of New York, which taken together are bounded and described as follows, viz: Northerly by the centre line of the block or farm number between One Hundred and Thirty-ninth street and One Hundred and Fortieth street, and the centre line of the block or farm number between One Hundred and Thirty-ninth street and One Hundred and Thirtieth street, and westerly by the easterly side of the Boulevard; excepting from said area all the streets and avenues heretofore legally opened, as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the twenty-fourth day of August, 1888, 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, June 15, 1888.

EDWARD L. PARRIS,  
JOHN JEROME,  
JOHN H. KITCHEN,  
Commissioners.

CARROLL BERRY, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of The Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of NINETEENTH STREET, from Third avenue to Fourth avenue, in the Twelfth Ward of the City of New York.

**WE, THE UNDERSIGNED COMMISSIONERS** of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners,

occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 200 Broadway (fifth floor), in the said city, on or before the twenty-fifth day of July, 1888, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said twenty-fifth day of July, 1888, and for that purpose will be in attendance at our said office on each of said ten days at two o'clock P. M.

Second—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the twenty-fifth day of July, 1888.

Third—That the limits embraced by the assessment aforesaid are as follows, to wit: All those lots, pieces or parcels of land, situate, lying and being in the City of New York, which taken together are bounded and described as follows, viz: Northerly by the centre line of the blocks between Ninety-ninth and One Hundredth streets; easterly by the westerly side of Third avenue; southerly by the centre line of the blocks between Ninety-eighth and Ninety-ninth streets, and westerly by the easterly side of Fourth avenue; excepting from said area all the streets and avenues heretofore opened as such area is shown upon our benefit map deposited as aforesaid.

Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the 10th day of August, 1888, 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, June 13, 1888.  
EDWARD L. PARRIS,  
JOHN JEROME,  
JOHN H. KITCHEN,  
Commissioners.

CARROLL BERRY, Clerk.

#### DEPARTMENT OF PUBLIC WORKS.

DEPARTMENT OF PUBLIC WORKS,  
COMMISSIONER'S OFFICE,  
ROOM 6, NO. 31 CHAMBERS STREET,  
NEW YORK, August 7, 1888.

#### 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 M., Tuesday, August 21, 1888, at which place and hour they will be publicly opened by the head of the Department.

No. 1. FOR LAYING WATER-MAINS IN BOSTON ROAD, OLD BOSTON ROAD, KINGSBRIDGE AVENUE, LOCUST STREET, ARTHUR AND WESTCHESTER AVENUES, IN CHESTNUT, VYSE, MAIN, ONE HUNDRED AND FIFTY-SECOND, CENTRE AND FIFTH HUNDRED AND NINETEENTH STREETS, AND IN SOUTHERN BOULEVARD.

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 they 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 clerk or clerk therein, or other officer of the Corporation, is directly or indirectly interested in the estimate or in the work to which it relates or in the profits thereof.

Each estimate must be verified by the oath, in writing, of the party making the same, that the several matters therein stated are true, and must be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, who are not interested in the business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance; and that if he shall refuse or neglect to execute the same, they shall 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 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 his 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 DEEMES IT FOR THE BEST INTERESTS OF THE CITY.

Blank forms of bid or estimate, the proper envelopes in which to inclose the same, the specifications and agreements, and any other information desired, can be obtained at Room 25, No. 31 Chambers street.

JOHN NEWTON,  
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,  
COMMISSIONER'S OFFICE,  
ROOM 6, NO. 31 CHAMBERS STREET,  
NEW YORK, August 7, 1888.

#### 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 M., Tuesday, August 21, 1888, at which place and hour they will be publicly opened by the head of the Department.

No. 2. FOR REGULATING AND GRADING EIGHTY-NINTH STREET, from Tenth avenue to the Boulevard, AND SETTING CURB-STONES AND FLAGGING SIDE-WALKS THEREIN.

No. 2. FOR REGULATING AND GRADING TWELFTH AVENUE, from One Hundred and Thirty-third to One Hundred and Thirty-fifth street, and SETTING CURB-STONES AND FLAGGING SIDEWALKS THERE-ON.

Each estimate must contain the name and place of residence of the person making the same, the names of all persons interested with him therein, and if no other person be so interested, it shall distinctly state that fact. That it is made without any connection with any other person making an estimate for the same work, and is in all respects fair and without collusion or fraud. That no member of the Common Council, head of a department, chief of a bureau, deputy thereof or clerk therein, or other officer of the Corporation, is directly or indirectly interested in the estimate or in the work to which it relates or in the profits thereof.

Each estimate must be verified by the oath, in writing, of the party making the same, that the several matters therein stated are true, and must be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, to the effect that if the contract is awarded to the person making the estimate, they will, upon its being so awarded, become bound as his sureties for its faithful performance; and that if he shall refuse or neglect to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled upon its completion and that which the Corporation may be obliged to pay to the person to whom the contract shall be awarded at any subsequent letting; the amount to be calculated upon the estimated amount of the work by which the bids are tested.

The consent last above mentioned must be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety, or otherwise, and that he has offered himself as surety in good faith, with the intention to execute the bond required by law. No estimate will be considered unless accompanied by either a certified check upon one of the State or National Banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimates-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 security required for the completion of the contract 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 allowed, the amount of his 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, and the several rules, regulations, and any further information desired, can be obtained at Room 5, No. 31 Chambers street.

JOHN NEWTON,  
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,  
COMMISSIONER'S OFFICE,  
ROOM 5, NO. 31 CHAMBERS STREET,  
NEW YORK, AUGUST 1, 1888.

TO CONTRACTORS.

BIDS OR ESTIMATES, INCLOSED IN A SEALED envelope, with the title of the work and the name of the bidder inclosed thereon, also the number of the work as in the schedule of estimates, to be deposited in the Estimates-box, at the City of New York, at the office, until 12 o'clock M., Tuesday, August 14, 1888, at which place and hour they will be publicly opened by the head of the Department.

No. 1. FOR BORING AND TESTING FOR WATER ON NORTH BROTHER ISLAND.

No. 2. FOR FURNISHING MATERIALS AND PERFORMING THE WORK OF BUILDING AND ERECTING AN IRON ROAD BRIDGE ACROSS THE MIDDLE BRANCH OF THE CROTON RIVER AT SOUTH EAST RIVER VOIR, PUTNAM COUNTY, NEW YORK.

No. 3. FOR REGULATING AND PAVING WITH TRAP-BLOCK PAVEMENT THE CARRIAGEWAY OF THIRTEENTH STREET, from Caneyville street to Ninth avenue, and PERRY STREET, from Washington street to Bleeker street.

No. 4. FOR REGULATING AND PAVING WITH GRANITE-BLOCK PAVEMENT THE CARRIAGEWAY OF MONROE STREET, from Government street to Jackson street, and WAVERLY PLACE, from Christopher street to Bank street.

No. 5. FOR REGULATING AND PAVING WITH GRANITE-BLOCK PAVEMENT THE CARRIAGEWAY OF CHERY STREET, from Jackson street to Clinton street.

No. 6. FOR REGULATING AND PAVING WITH GRANITE-BLOCK PAVEMENT THE CARRIAGEWAY OF DRY DOCK STREET, from Tenth street to Twelfth street, TOMPKINS STREET, from Third street to Sixth street, and LUDLOW STREET, from Stanton street to Houston street.

No. 7. FOR REGULATING AND PAVING WITH GRANITE-BLOCK PAVEMENT THE CARRIAGEWAY OF GREEN STREET, from Bleeker street to Eighth street.

No. 8. FOR REGULATING AND PAVING WITH TRAP-BLOCK PAVEMENT THE CARRIAGEWAY OF TWENTY-NINTH STREET, from Ninth street to Tenth avenue, and FORTY-NINTH STREET, from Eleventh avenue to North river.

No. 9. FOR REGULATING AND PAVING WITH GRANITE-BLOCK PAVEMENT THE CARRIAGEWAY OF MOTT STREET, from Canal street to Bleeker street.

No. 10. FOR REGULATING AND PAVING WITH GRANITE-BLOCK PAVEMENT THE CARRIAGEWAY OF TWENTY-SEVENTH STREET, from Ninth to Tenth avenue, and FORTIETH STREET, from Tenth avenue to Eleventh avenue.

No. 11. FOR REGULATING AND PAVING WITH TRAP-BLOCK PAVEMENT THE CARRIAGEWAY OF RIDGE STREET, from Stanton street to Houston street; SUFFOLK STREET, from Kingston street to Stanton street, and THOMPSON STREET, from Bleeker street to Fourth street.

No. 12. FOR REGULATING AND PAVING WITH GRANITE-BLOCK PAVEMENT THE CARRIAGEWAY OF YORK STREET, from St. John's street to West Broadway, ST. JOHN'S LANE, from Beach street to Light street; COTTAGE PLACE, from Houston street to Bleeker street, and GROVE STREET, from Hudson street to Waverly place.

No. 13. FOR REGULATING AND PAVING WITH TRAP-BLOCK PAVEMENT THE CARRIAGEWAY OF LEWIS STREET, from Grand street to Delancey street, and MONTGOMERY STREET, from Division street to Water street.

Each estimate must contain the name and place of residence of the person making the same, the names of all persons interested with him therein, and if no other person be so interested, it shall distinctly state that fact. That it is made without any connection with any other person making an estimate for the same work, and is in all respects fair and without collusion or fraud. That no member of the Common Council, head of a department, chief of a bureau, deputy thereof or clerk therein, or other officer of the Corporation, is directly or indirectly interested in the estimate or in the work to which it relates or in the profits thereof.

Each estimate must be verified by the oath, in writing, of the party making the same, that the several matters therein stated are true, and must be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, to the effect that if the contract is awarded to the person making the estimate, they will, upon its being so awarded, become bound as his sureties for its faithful performance; and that if he shall refuse or neglect to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled upon its completion and that which the Corporation may be obliged to pay to the person to whom the contract shall be awarded at any subsequent letting; the amount to be calculated upon the estimated amount of the work by which the bids are tested.

The consent last above mentioned must be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety, or otherwise, and that he has offered himself as surety in good faith, with the intention to execute the bond required by law.

No estimate will be considered unless accompanied by either a certified check upon one of the State or National banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimates-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 security required for the completion of the contract 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 allowed, the amount of his 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, and the several rules, regulations, and any further information desired, can be obtained at Rooms 10 and 1, No. 31 Chambers street.

JOHN NEWTON,  
Commissioner of Public Works.

REGULATIONS ESTABLISHING A SCALE OF WATER RENTS AND RULES GOVERNING THE USE OF WATER, FOR THE CITY OF NEW YORK, BY ORDER OF JOHN NEWTON, COMMISSIONER OF PUBLIC WORKS.

UNDER CHAPTER 410, LAWS 1882, SECTIONS 350, 351, 352 AND 353, and as amended by chapter 559, Laws 1887, as follows:

The Commissioner of Public Works shall, from time to time, establish scales of rents for the supplying of water, which rents shall be collected in the manner now provided by law, and which shall be apportioned to different classes of buildings and city in reference to their dimensions, values, exposure to fires, ordinary uses for dwellings, stores, shops, private stables and other common purposes, number of families or occupants, or consumption of water, as may be practicable, and modify, alter, amend and increase such scale from time to time, and extend it to other descriptions of buildings and establishments. All extra charges for water shall be deemed to be included in the regular rents, and shall become due and payable when the building, upon which they are respectively imposed, and if not paid, shall be returned as arrears to the clerk of arrears. Such regular rents, including the extra charges above mentioned, shall be collected from the owners or occupants of all such buildings respectively, which shall be situated upon lots adjoining any street or avenue in said city in which the distributing water-pipes are or may be laid, and from which they can be supplied with water. The regular rents for water, as provided by law, shall become a charge and lien upon such houses and lots, respectively, as herein provided, but no charge whatever shall be made against any building in which a water-meter may have been placed, as provided in this act. In all such cases the charge for water shall be determined only by the quantity of water actually used as shown by said meters.

The said Commissioner of Public Works is hereby authorized to prescribe a penalty not exceeding the sum of five dollars for each offense, for permitting water to be wasted, and for any violation of such reasonable rules as he may, from time to time, prescribe for the prevention of the waste of water; such fines shall be added to the regular water rents.

The regular annual rents to be collected by the Department of Public Works shall be as follows, to wit:

Croton Water Rates for Buildings from 16 to 50 feet, all others not specified subject to Special Rates.

FRONT WIDTH.	1 Story.	2 Stories.	3 Stories.	4 Stories.	5 Stories.
16 feet and under.	\$4 00	\$5 00	\$6 00	\$7 00	\$8 00
16 to 18 feet.	5 00	6 00	7 00	8 00	9 00
18 to 20 feet.	6 00	7 00	8 00	9 00	10 00
20 to 22 feet.	7 00	8 00	9 00	10 00	11 00
22 to 24 feet.	8 00	9 00	10 00	11 00	12 00
24 to 26 feet.	9 00	10 00	11 00	12 00	13 00
26 to 28 feet.	10 00	11 00	12 00	13 00	14 00
28 to 30 feet.	11 00	12 00	13 00	14 00	15 00
30 to 32 feet.	12 00	13 00	14 00	15 00	16 00
32 to 34 feet.	13 00	14 00	15 00	16 00	17 00
34 to 36 feet.	14 00	15 00	16 00	17 00	18 00
36 to 38 feet.	15 00	16 00	17 00	18 00	19 00
38 to 40 feet.	16 00	17 00	18 00	19 00	20 00
40 to 42 feet.	17 00	18 00	19 00	20 00	21 00
42 to 44 feet.	18 00	19 00	20 00	21 00	22 00
44 to 46 feet.	19 00	20 00	21 00	22 00	23 00
46 to 48 feet.	20 00	21 00	22 00	23 00	24 00
48 to 50 feet.	21 00	22 00	23 00	24 00	25 00

The rent of all tenements which shall exceed in width fifty feet shall be the subject of special contract with the Commissioner of Public Works.

The apportionment of the regular rents upon dwellings-houses are on the basis that but one family is to occupy the same, and for each additional family, one dollar per year shall be charged.

Meters will be placed on all houses where waste of water is found, and they will be charged at rates fixed by the Department for the time they pass through them.

The extra and miscellaneous rates shall be as follows to wit:

BAKINGIES.—For the average daily use of flour, for each barrel, three dollars per annum.

BARBER SHOPS shall be charged from five to twenty dollars per annum each in the discretion of the Commissioner of Public Works; an additional charge of five dollars per annum shall be made for each bath-tub therein.

BATHING TUBS in private houses, beyond one, shall be charged at three dollars per annum each, and five dollars per annum each in public houses, boarding-houses, and bathing establishments. Combination stationary wash-tubs, having a movable division in the centre and capable of use for bathing, shall be charged the same as bathing tubs.

BUILDING PURPOSES.—For each one thousand bricks laid, or for stone-work—to be measured as bricks—ten cents per thousand. For plastering, forty cents per hundred yards.

COVERING FOR EACH AND EVERY COVER, one dollar per annum.

DINING SALOONS shall be charged an annual rate of from five to twenty dollars, in the discretion of the Commissioner of Public Works.

FISH STANDS (retail) shall be charged five dollars per annum each.

For all stables not metered, the rates shall be as follows:

HORSES, PRIVATE.—For two horses there shall be charged six dollars per annum; and for each additional horse, two dollars.

HORSES, LIVERY.—For each horse up to and not exceeding thirty in number, one dollar and fifty cents each per annum; and for each additional horse, one dollar.

HORSES, OMNIBUS AND CART.—For each horse, one dollar per annum.

HORSE TROUGHS.—For each trough, and for each half barrel or tub on sidewalk or street, twenty dollars per annum; each trough to be fitted with a proper ball-cock to prevent waste.

HOTELS AND BOARDING HOUSES shall, in addition to the regular rate for private families, be charged for each lodging room, at the discretion of the Commissioner of Public Works.

LAUNDRIES shall be charged from eight to twenty dollars per annum, in the discretion of the Commissioner of Public Works.

LIQUOR AND LAGER BEER SALOONS shall be charged an annual rate of from five to twenty dollars each. An additional charge of five dollars per annum shall be made for each tap or wash-bow.

PHOTOGRAPH GALLERIES shall be charged an annual rate of from five to twenty dollars, in the discretion of the Commissioner of Public Works.

PRINTING OFFICES, when not metered, shall be charged at such rates as may be determined by the Commissioner of Public Works.

SODA, MINERAL WATER AND ROOT BEER FOUNTAINS shall be charged five dollars per annum each.

STEAM ENGINES, when not metered, shall be charged by the horse-power, as follows: For each horse-power up to and not exceeding ten, the sum of ten dollars per annum; for each exceeding ten, and not over fifteen, the sum of seven dollars and fifty cents each; and for each horse-power over fifteen, the sum of five dollars.

WATER-CLOSETS AND URINALS.—To each building on a lot one water-closet having sewer connection is allowed without charge; each additional water-closet or urinal shall be charged as hereinafter stated. All closets connected in any manner with sewer shall be charged two dollars for each seat per annum, whether in a building or on any other portion of the premises.

URINALS shall be charged two dollars per annum each in a building or on any other portion of the premises. Water-closet Rates.—For hoppers of any form, when water is supplied direct from the Croton supply, through any form of the so-called single or double valves, hopper-cocks, stop-cocks, self-closing cocks, or any valve or cock of any description attached to the closet, each, per year, twenty dollars.

For any pan closet, or any of the forms of valve, plunger, or other water-closet not before mentioned, supplied with water as above described, per year, ten dollars.

For any form of hopper or water-closet, supplied from any of the forms of waste-preventing cisterns, that are approved by the Engineer of the Croton Aqueduct, which are so constructed that not more than three gallons of water can be drawn at each lift of the handle, or depression of the seat, if such cisterns are provided with an overflow pipe, such overflow pipe must not connect with the water-closet, but be carried like a safe-waste, as provided by the Board of Health regulations, per year, two dollars.

Cistern answering this description can be seen at this Department.

METERS.

Under the provisions of section 352, Consolidated Act 1882, water-meters, of approved pattern, shall be hereafter placed on the pipes supplying all stores, workshops, hotels, manufactories, public edifices, at wharves, ferries, houses, stables, and in all places where water is furnished for business consumption, except private dwellings. It is provided by section 352, Laws of 1882, that "all expenses of meters, their connections and setting, water rates, and other lawful charges for the supply of Croton water, shall be a lien upon the premises where such water is supplied, as now provided by law."

All manufacturing and other business requiring a large supply of water will be fitted with a meter.

Water measured by meter, ten cents per one hundred cubic feet.

Rate Without Meters.

PER DAY, GALLONS.	PER 100 GALLONS, RATE.	PER ANNUM, AMOUNT.
25	05	\$3 75
50	05	7 50
60	05	9 00
70	05	10 50
80	05	12 00
90	05	13 50
100	05	15 00
150	05	22 50
200	05	30 00
250	04	37 75
300	04	45 00
350	03	56 25
400	03	67 50
450	03	78 75
500	03	90 00
600	03	108 00
700	03	126 00
800	03	144 00
900	03	162 00
1,000	03	180 00
1,500	02	270 00
2,000	02	360 00
2,500	02	450 00
3,000	02	540 00
3,500	02	630 00
4,000	02	720 00
4,500	02	810 00
5,000	02	900 00
5,500	02	990 00
6,000	02	1,080 00
6,500	02	1,170 00
7,000	02	1,260 00
7,500	02	1,350 00
8,000	02	1,440 00
8,500	02	1,530 00
9,000	02	1,620 00
9,500	02	1,710 00
10,000	02	1,800 00

The rate charged for steam-vessels taking water daily or belonging to daily lines, is one-half cent per ton (Custom House measurement) for each time they take water.

Steamers taking water other than daily, one cent per ton (Custom House measurement).

Water supplied to sailing vessels and put on board, twenty-five cents per hundred gallons.

All matters not hereinbefore embraced are reserved for special contract by and with the Commissioner of Public Works.

HYDRANTS, HOSE, TROUGHS, FOUNTAINS, ETC., ETC.

No owner or tenant will be allowed to supply water to another person or persons.

All persons taking water from the City must keep their own service-pipes, street tap, and all fixtures connected therewith, in good repair, protected from frost, at their own risk and expense, and shall prevent all waste of water.

The use of hose to wash coaches, omnibuses, wagons, railway cars or other vehicles or horses, cannot be permitted.

No horse-troughs or horse-watering fixtures will be permitted in the street or on the sidewalk, except upon a license or permit taken out for that purpose. All licenses or permits must be annually renewed on the first of May. Such fixtures must be kept in good order and the water not allowed to drip or waste by overrunning the sidewalk or street, or to become dangerous in winter by freezing in and about such troughs or fixtures.

No hydrant will be permitted on the sidewalk or in the front area, and any hydrant standing in a yard or alley, attached to any dwelling or building, must not be left running when not in actual use, and if the drip or waste from such hydrant freezes and becomes dangerous in winter, the supply will be shut off in addition to the penalty of five dollars imposed.

Taps at wash-basins, water-closets, baths and urinals must not be left running, under the penalty of five dollars for each offense, which will be strictly enforced.

Fountains or jets in hotels, porter-houses, eating-saloons, confectioneries or other buildings are strictly prohibited.

The use of hose for washing sidewalks, stoops, areas, horse-fronts, yards, court-yards, gardens, and about stables, is prohibited. Where premises are provided with wells, special permission will be given for the use of hose, in order that the police or inspectors of this department may understand that the permission is not for the use of Croton water.

Opening fire-hydrants to fill hand sprinklers or other vessels will not be allowed.

The penalty for a violation of any of the preceding rules and regulations will be five dollars for each offense, and if not paid when imposed, will become a lien on the premises in like manner as all other charges for unpaid water rates.

By order, JOHN NEWTON,  
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,  
COMMISSIONER'S OFFICE,  
NO. 31 CHAMBERS STREET,  
NEW YORK, June 21, 1887.

PUBLIC NOTICE AS TO WATER RATES.

PUBLIC NOTICE IS HEREBY GIVEN THAT in compliance with the provisions of chapter 559, Laws of 1887, amending sections 350 and 351 of the New York City Consolidation Act of 1882, passed June 9, 1887, the following changes are made in charging and collecting water rents:

1st. All extra charges for water incurred from and after June 9, 1887, shall be treated, collected and returned in arrears in the same manner as regular rents have heretofore been treated.

2d. In every building where a water meter or meters are now, or shall hereafter be in use, the charge for water by meter measurement shall be the only charge against such building, or such part thereof as is supplied through meter.

3d. The returns of arrears of water rents, including the year 1887, shall be made as heretofore on the confirmation of the tax levy by the Board of Aldermen, and shall include all charges and penalties of water rents.

4th. A penalty of five dollars each is hereby established, and will be imposed in each and every case where the rules and regulations of the Department prohibiting the use of water through hose, or in any other wasteful manner, are violated, and such penalties will be entered on the books of the Bureau against the respective buildings or property, and, if not collected, be returned in arrears in like manner as other charges for water.

5th. Charges for so-called "water rents" of every nature, imposed or incurred prior to June 9, 1887, will be canceled of record on the books of the Department.

D. LOWBER SMITH,  
Deputy and Acting Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,  
COMMISSIONER'S OFFICE,  
NO. 31 CHAMBERS STREET,  
NEW YORK, September 29, 1886.

PUBLIC NOTICE.

PERSONS HAVING ANY BUSINESS IN THIS Department which is not assigned to or transacted by the several Bureaux in the Department, and which come under the immediate notice of the Commissioner of Public Works, are requested to communicate directly in person, or by letter, with the Commissioner.

JOHN NEWTON,  
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,  
COMMISSIONER'S OFFICE,  
NO. 31 CHAMBERS STREET,  
NEW YORK, November 10, 1886.

NOTICE TO CROTON WATER CONSUMERS.

NUMEROUS APPLICATIONS HAVE BEEN made to this Department by citizens claiming reductions or rebates on bills for water supplied through meters, on the alleged ground of leakage caused by defective plumbing and worn-out service pipes, or by willful waste of water by tenants allowing the faucets to be turned on in full force in water-closets, sinks, etc., without the knowledge or consent of the owners of the premises.

The main object of the use of water-meters is to enable this Department to detect and check the useless and unwarrantable waste of an element so valuable and essential to the health and comfort of all the citizens, and this object can only be accomplished by enforcing payment for the water wasted.

Under the law all charges for water supplied through meters are a lien against the respective premises, and the law therefore holds the owner of the premises responsible for the amount of water used or wasted.

Notice is therefore given to all householders that, in all further applications for reductions or rebates on water bills, no allowance will be made on account of waste of water occurring through leaks, from defective service pipes or plumbing, or wasteful use of water by tenants or occupants of buildings, though such leakage or waste may have occurred without the knowledge or consent of the owners of the buildings.

House-owners are further notified that whenever their premises become vacant, and are likely to remain vacant, they must notify this Department in writing, and that unless this requirement is complied with no deductions in extra water rents will be allowed for any portion of one year.

JOHN NEWTON,  
Commissioner of Public Works

THE CITY RECORD.

THE CITY RECORD IS PUBLISHED DAILY, Sundays and legal holidays excepted, at No. 2 City Hall, New York City. Price, single copy, 3 cents; annual subscription, by mail, \$2.30.

THOMAS COSTIGAN,  
Supervisor