

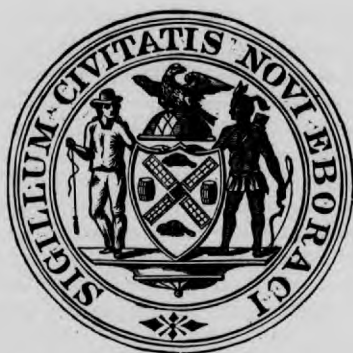
# THE CITY RECORD.

## OFFICIAL JOURNAL.

VOL. XV.

NEW YORK, TUESDAY, AUGUST 23, 1887.

NUMBER 4,338.



### DEPARTMENT OF PUBLIC WORKS.

Report for the Quarter ending June 30, 1887.

DEPARTMENT OF PUBLIC WORKS—COMMISSIONER'S OFFICE,  
No. 31 CHAMBERS STREET,  
NEW YORK, July 9, 1887.

Hon. ABRAHAM 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, 1887:

#### SUMMARY OF EXPENDITURES.

(Being amount of requisitions drawn on the Comptroller.)

On account of appropriations raised by taxation.....	\$543,992 11
On account of Assessment Fund or Local Improvement Fund, for street improvements.....	331,700 46
On account of Funded Debt, for improvement and extension of water supply.....	42,331 25
On account of Special Fund, for restoring pavements over street openings.....	10,306 87
On account of Revenue Bonds, for furnishing and setting water-meters.....	4,184 97
<b>Total.....</b>	<b>\$932,515 66</b>

#### EXPENDITURES FOR THE SIX MONTHS ENDING JUNE 30, 1887.

Appropriation account.....	\$1,009,583 16
Assessment, or Local Improvement Fund.....	440,590 73
Funded Debt, water supply.....	69,994 45
Revenue Bonds, for water meters.....	13,152 69
Special Fund, restoring pavements.....	8,163 98
<b>Total.....</b>	<b>\$1,541,485 01</b>

#### SUMMARY STATEMENT OF CONTRACTS.

Contracts Entered into during the Quarter.

13 sewer contracts.....	\$60,615 70
10 regulating and grading contracts.....	26,527 41
27 paving contracts.....	247,819 31
3 contracts for repairs of pavements.....	14,308 15
2 contracts for water-pipes.....	21,349 00
7 miscellaneous contracts.....	531,170 10
43 contracts, under \$1,000 each.....	21,930 39
<b>105 contracts, estimated cost.....</b>	<b>\$923,720 06</b>

Contracts Completed during the Quarter.

7 sewer contracts.....	\$36,978 96
14 regulating and grading contracts.....	92,941 14
19 paving contracts.....	129,104 20
1 contract for repair of pavement.....	4,275 91
1 contract for water-pipes.....	7,121 34
4 miscellaneous contracts.....	34,980 40
34 contracts, under \$1,000 each.....	13,914 14
<b>80 contracts, total cost.....</b>	<b>\$319,316 09</b>

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

The rain-fall for the three months in the Croton water-shed, on the Bronx river and at the Central Park Reservoir, was as follows:

LOCATIONS.	APRIL. INCHES.	MAY. INCHES.	JUNE. INCHES.	TOTAL. INCHES.
Boyd's Corners Reservoir.....	3.47	0.32	7.70	11.49
South East Reservoir.....	2.90	0.30	6.26	9.46
Croton Dam.....	3.52	0.03	6.77	10.32
Kensico Reservoir.....	2.98	0.20	8.05	11.23
Central Park Reservoir.....	2.84	0.29	8.21	11.34

The natural flow of the Croton river was sufficient to keep the aqueduct supplied to its full capacity, except from June 15 to June 23, when draught had to be made on the two storage reservoirs in the Croton basin, amounting to 165,000,000 gallons.

The deficiency in the flow of the Bronx river was greater, and it was necessary to draw 500,000,000 gallons of water from the Kensico Reservoir for the City's supply.

The unfinished legal proceedings for appraising damages along the Bronx river, caused by the diversion of the water for the City's supply, are progressing slowly.

The work on the receiving and distributing reservoir at Williamsbridge, was resumed in April, and has since been prosecuted with a small force. The Chief Engineer of the Croton Aqueduct estimates that with the present rate of progress it will take at least two years to complete the reservoir.

An average daily supply of 14,940,000 gallons of water was received through the Bronx river conduit.

The care and maintenance of the reservoirs, conduits and other structures connected with the Croton water supply and the Bronx river supply have received assiduous attention, and, with the exception of occasional small leaks in the Croton Aqueduct, these works are in good condition. The work of strengthening the aqueduct by re-enforcing the retaining-walls and embankments and the top arch is being continued at such points as it is found to be necessary and beneficial.

The following are some of the quantities of work done in this connection:

- 1,295 cubic yards earth excavated.
- 1,376 cubic yards placed in embankments.
- 1,543 cubic yards stone quarried.
- 1,417 cubic yards dry masonry built.
- 535 lineal feet additional brick arch built.
- 1,573 cubic yards stone masonry built.
- 10,550 lineal feet fences built.

The following pipes were laid in 19 different streets and avenues in extending and improving the water service:

- 10,916 lineal feet 12-inch pipe.
- 7,830 lineal feet 6-inch pipe.

18,746 lineal feet of pipe or 3.55 miles.

In connection with these pipes 27 stop-cocks and 27 fire-hydrants were placed.

The system for distributing water in the City now includes 610.71 miles of pipes, with 6,327 stop-cocks and 7,885 fire-hydrants.

During the quarter 502 additional water-meters were placed, making 15,539 meters now in use.

At the beginning of the quarter there was a considerable decrease in the excessive waste of water which prevailed during the winter season, and there was a gain of six feet in depth in the water in the distributing reservoirs. With the advent of dry weather in May and during the warm weather in June, however, the consumption of water again increased, so as to reduce the depth of water one foot.

A beginning has been made in replacing the old water-pipes contiguous to the water-front in the lower part of the City, which are corroded by contact with salt water and are unsafe. A force of men is now employed in replacing the water-mains, taps and service pipes in South street, West street, Morris street and Rector street.

#### BUREAU OF WATER PURVEYOR.

##### Pavements.

The resolution of the Common Council authorizing the repavement of streets under the appropriation for 1887 was not finally passed and approved until May 2, 1887, and most of the time since then has been consumed in the preparation and printing of contracts and specifications, in advertising and letting contracts, and in the examination and approval of contractors' sureties by the Comptroller, so that the actual work of repavement for 1887 is not begun, although it will shortly proceed and will be prosecuted with all possible vigor.

The following repavement contracts, remaining over from the year 1886, were completed during the last quarter:

- Pitt street, between Stanton and Division streets.
- Bank street, between Hudson and Washington streets.
- William street, between Duane and North William streets.

The quantity of pavement laid under these contracts is 6,755 square yards, with 858 square feet of bridge stone or crosswalks.

The following repavement contracts of 1886 remain yet to be performed:

- Sixth street, between the Bowery and Avenue B.
- Renwick street, between Canal and Spring streets.
- Congress street, between King and Houston streets.
- Tenth avenue, between Sixty-fourth and Seventy-first streets.
- Wooster street, between Canal and Bleecker streets.
- Twentieth street, between Ninth and Tenth avenues.
- Thirty-first street, between Ninth and Tenth avenues.
- Thirty-eighth street, between Eighth and Tenth avenues.

Under the operation of the constitutional amendment of 1884 limiting the indebtedness of the City, as the effect of the amendment was interpreted by the lower courts before a decision was reached in the Court of Appeals, all street improvement work, payable by assessment on property benefited, including pavements, sewers, and regulating and grading works, was practically suspended for two years. This has caused a great accumulation of demands for street improvements. This appears specially in the demand for the paving of new streets in the upper portion of the City. During the past quarter 21 contracts for such new pavements and several contracts for laying crosswalks were completed, including 52,850 square yards of pavement and 13,147 square feet of crosswalks.

Work is in progress on 6 paving contracts, and on 17 other contracts which have been entered into, no work has yet been done.

Early in June the full force employed in repairing pavements for the season was organized, and now consists of 395 pavers, rammers and laborers, and 75 carts. The plan of relaying pavements from curb to curb, instead of merely patching depressions or defects here and there, has been found advantageous in many instances, and has been pursued to a much greater extent this season than in any previous season. As this work can be accurately measured and estimated so as to form a basis for bids for contracts, it is advertised and publicly let to the lowest bidder. In the report of the Water Purveyor will be found a list of streets in which the pavements have been so relaid, covering an area of 22,591 square yards.

The repairs made by the repair force during the quarter cover an area of 42,136 square yards. 32 permits were issued to citizens to repair pavements at their own expense.



The operations of private corporations and parties in opening the public streets for various purposes continue to receive strict supervision and inspection on the part of this Department, to ensure proper restoration of the pavements and to prevent unnecessary obstruction of the streets. These operations are summarized as follows:

- 4,671 excavations made for gas, water and sewer connections.
- 82,770 lineal feet of gas and steam mains laid.
- 973 lineal feet of trench opened for underground cable for the Fire Department.
- 1,637 defects in pavements repaired on notice from the Department.

#### Public Drinking-hydrants.

The appropriation for drinking-hydrants for 1887 is only \$2,500, leaving little or no margin for placing additional hydrants after paying for the necessary repairs to the existing hydrants. During the quarter 77 drinking-hydrants were repaired, 10 old hydrants were replaced with new ones and two additional hydrants were placed.

#### Repairs of Waters-pipes, Stop-cocks and Hydrants.

An average force of 84 mechanics and laborers and 11 carts has been employed during the quarter under the direction of the Water Purveyor in repairing water pipes, stop-cocks and fire-hydrants. The work performed by this force is as follows:

- 467 defects in pipes and stop-cocks repaired.
- 1,107 fire-hydrants repaired.
- 158 old fire-hydrants replaced with new ones.
- 2 additional fire-hydrants placed.
- 167 taps shut off on account of leaks in service pipes.
- 534 defects in pavements repaired.

#### Fifth Avenue Pavement.

This work was resumed in April, and has since been actively prosecuted, and is rapidly approaching completion. The quantities of work done during the quarter are:

- 15,473 square yards of pavement laid.
- 2,506 cubic yards of concrete laid.
- 7,922 square feet of bridge-stone laid.
- 1,254 lineal feet of new curb set.
- 7,730 lineal feet of old curb reset.
- 2,784 square yards of adjoining intersections repaved.

#### BUREAU OF SEWERS.

Active work on the construction of sewers, which had been practically suspended during the winter season, was resumed about the 15th of April. Since that time 14 contracts for sewers, and 8 contracts for receiving basins have been completed. Work is now in progress on 34 sewers. The aggregate quantities of work done under the several contracts, is:

- 10,096 lineal feet of sewers built.
- 398 lineal feet of culverts built.
- 15 receiving basins built.
- 11,091 lineal feet of piles driven for sewer foundations.

The present total length of sewers on Manhattan Island is 416,78 miles, with 5,090 receiving basins.

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

- 917 receiving basins and culverts cleaned.
- 34,580 lineal feet of sewers cleaned.
- 272 lineal feet of sewers rebuilt.
- 1,011 lineal feet of sewers repaired.
- 35 lineal feet culverts rebuilt.
- 63 lineal feet of new culverts built.
- 83 receiving basins repaired.
- 264 manholes repaired.
- 1,275 square feet flagging relaid.
- 512 square yards pavement relaid.
- 1,129 cubic yards earth excavated and refilled.
- 3,240 cartloads sewer deposit removed.

In connection with these works, 62 new basin-heads, 82 basin-covers, 28 manhole-heads, and 116 manhole-covers were furnished and set.

#### BUREAU OF STREET IMPROVEMENTS.

During the quarter 13 contracts for regulating and grading streets, 6 contracts for curbing and flagging sidewalks, and 20 contracts for fencing vacant lots were completed.

At the close of the quarter, work was in progress on 27 regulating and grading contracts.

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

- 15,709 cubic yards earth excavated.
- 26,735 cubic yards rock excavated.
- 70,707 cubic yards filling placed in embankments.
- 27,273 lineal feet curb stone set.
- 93,572 square feet flagging laid.
- 15,954 lineal feet picket fence built.
- 800 cubic yards masonry built.
- 389 square feet bridge stones laid.
- 50 lineal feet culvert built.

All of the above work is payable by assessment on the property benefited.

Under the appropriation for flagging sidewalks in front of City property, 4,112 square feet new flagging was laid, 463 square feet flagging relaid, 511 lineal feet curbstone set, 223 lineal feet curbstone reset, and 718 square feet bridgestones laid.

#### BUREAU OF STREETS AND ROADS.

Since the close of the winter season, a very large amount of work has been done in putting the 27½ miles of Macadam roadways, under the charge of the Department, in proper condition. Minute details of this work will be found in the report of the Superintendent of Streets, Document H hereto annexed.

All the roadways are sprinkled in dry weather, for which purpose 34,830 barrels or 19,962,833 gallons of water were used.

In cleaning the roadways 6,885 truck loads of dirt were removed.

Large quantities of gravel, broken stone and other road material have been used in repairing and resurfacing about 135,000 square yards of roadway. This work will be continued to even a greater extent during the remainder of the season.

There are about 40 miles of unpaved streets and roads under the care of this bureau, and repairs were made on them in 45 different streets and locations, enumerated in detail in the Superintendent's report.

#### BUREAU OF LAMPS AND GAS.

The following changes in the public lamps were made during the three months:

- 237 new gas-lamps erected and lighted.
- 42 old gas-lamps relighted.
- 94 gas lamps discontinued.
- 12 electric-lights discontinued.

At the close of the quarter there were 24,448 gas-lamps, 699 electric-lights and 120 naphtha lamps in use on the streets, roads, parks, docks and bridges of the City.

#### BUREAU OF REPAIRS AND SUPPLIES.

Repairs and improvements were made in the following buildings: The New Court-house, the building occupied by the Department of Public Works, No. 31 Chambers street, the Hall of Records, No. 49 Beekman street, occupied by the Corporation Attorney, the portion of the Tombs building occupied by the Court of Special Sessions, the Arsenal, corner of White and Elm streets, the County Jail, the Third District Court-house, the Fifth District Court-house, Clinton Market, Fulton Market, Essex Market, Jefferson Market, Washington Market, the Seventy-first Regiment Armory, the Sixty-ninth Regiment Armory and the Seventh Regiment Armory. In the latter building, the four towers at the westerly end, which were insecure, were taken down and rebuilt.

The offices of the Receiver of Taxes have been removed from the Brown Stone building to the Stewart Building, in order to provide additional room for the Court of General Sessions. Preparations are now being made for the alterations and improvements to adapt the vacated rooms for the use of the Court.

The proposals for the contract for the New Gansevoort Market Buildings were received and opened April 18, and the contract was executed and work under it begun May 12. Of the ten buildings to be erected, five are now under way, and the architect in charge of the buildings reports the work so far satisfactory.

#### Free Floating Baths.

The departmental estimate for free floating baths for 1887 contemplated the construction of two new baths in place of the old baths, Nos. 3 and 4, which were considered no longer fit for service; but, in the final estimate, the Board of Estimate and Apportionment left out the provision for two new baths. It thus became necessary to repair and renovate the old baths, Nos. 3 and 4, which the Department has succeeded in doing, so that the baths are now in good, serviceable condition. The necessary repairs on the other nine baths have also been made, and all of the eleven baths were in their positions and opened to the public about the middle of June.

Chapters 209 and 227, passed at the last session of the Legislature, provide for the construction of two additional baths at new and specified locations. By careful management of the appropriation for the present baths there is a surplus of about \$13,000 which can be applied to, and would be sufficient for, the construction of one of the additional baths so authorized.

#### BUREAU OF INCUMBRANCES.

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

- 1,410 complaints of obstructions received and attended to.
- 556 seizures and removals of obstructions made.
- 2,902 permits issued to place building material on streets.
- 10 permits issued to cut down shade trees.
- 393 miscellaneous permits issued.
- 217 notices issued to repair defective sidewalks.

The determination shown by the Department, through the present Superintendent of Incumbrances, to enforce the law in every case coming to its notice, has evoked a large increase in the number of complaints, principally in respect to obstructions which have long been tolerated or remained unnoticed. This is clearly shown by the fact that the number of complaints received during the second quarter of last year was 302, as against 1,410 received during the past quarter.

The very limited means and force at the command of the Department are strained to the utmost to give proper attention to all these complaints.

#### BUREAU OF WATER REGISTER.

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

For water rents.....	\$642,381 15
For penalties on water rents.....	1,593 75
For permits to tap water-pipes.....	5,308 50
Total .....	\$649,283 40

#### MISCELLANEOUS REVENUE.

The Department also collected and paid into the City Treasury:

For sewer permits .....	\$10,256 42
For vault permits .....	29,173 67
For redemption of articles seized as obstructions.....	833 64
For use of sprinkler and road-roller.....	15 00
For work done and material furnished citizens.....	135 93
Articles sold at auction .....	54 32
For restoration of pavements over street openings.....	10,531 00
For furnishing and setting water-meters.....	1,834 43
Total .....	\$52,834 41

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

Very respectfully,

JOHN NEWTON, Commissioner of Public Works.



## Document "A."

## STATEMENT OF APPROPRIATIONS AND EXPENDITURES.

Showing Titles of Appropriations; Appropriations, with Transfers of 1886; Requisitions on 1886 to April 1, 1887; Requisitions on 1886 in Second Quarter, 1887; Balances of 1886 on July 1, 1887; Appropriations, with Transfers of 1887; Requisitions First Quarter of 1887; Requisitions Second Quarter of 1887; Balances, July 1, 1887; the Titles and Expenditures on Trust and Special Accounts, and Receipts for the First Six Months of 1887.

TITLES OF APPROPRIATIONS.	Appropriations, including Transfers, 1886.	Requisitions, from January 1, 1886, to April 1, 1887.	Requisitions on Liabilities of 1886, during Second Quarter, 1887.	Balances of 1886 on July 1, 1887.	Appropriations, with Transfers for 1887.	Requisitions, First Quarter, 1887.	Requisitions, Second Quarter, 1887.	Balances, July 1, 1887.
Aqueduct—Repairs, Maintenance and Strengthening.....	\$225,000 00	\$200,995 03	\$5,374 38	\$18,630 59	\$226,500 00	\$19,764 00	\$52,449 16	\$154,286 84
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	25,000 00	23,910 77	.....	1,089 23	23,500 00	6,439 20	6,509 86	10,550 94
Boring Examinations for Grading and Sewer Contracts.....	4,260 25	4,260 25	.....	.....	4,000 00	253 11	905 58	2,839 31
Boulevards, Roads and Avenues, Maintenance of.....	80,000 00	78,346 42	620 10	1,033 48	100,000 00	7,802 81	23,229 35	68,967 84
Bronx River Works—Maintenance and Repairs.....	17,990 00	16,725 61	112 56	1,151 83	21,100 00	3,513 80	2,720 24	14,865 96
Bronx River Works—Maintenance and Repairs—Salaries.....	3,550 00	3,450 00	.....	200 00	3,900 00	975 00	975 00	1,950 00
Contingencies—Department of Public Works.....	4,000 00	3,507 51	16 72	475 77	5,250 00	316 00	1,197 23	3,736 77
Flagging Sidewalks and Fencing Vacant Lots, etc.....	1,000 00	788 59	.....	211 41	3,000 00	.....	2,053 41	946 59
For Brown-stone Building—Additions to.....	425 00	425 00	.....	.....	75 00	.....	.....	75 00
For Repairs to Seventh Regiment Armory Building.....	3,000 00	2,768 94	.....	231 06	3,000 00	.....	575 00	2,425 00
For Repairing Water-main Leading to North Brother Island.....	.....	.....	.....	.....	.....	.....	.....	3,000 00
For Street Signs on Buildings and Public Lamps.....	1,974 50	1,974 50	.....	.....	.....	.....	.....	.....
Free Floating Baths—Salaries.....	15,000 00	14,734 30	.....	265 70	30,000 00	640 00	7,859 09	21,491 01
Lamps and Gas and Electric Lighting.....	20,000 00	18,635 50	.....	1,364 50	20,000 00	1,175 00	992 00	17,833 00
Lamps and Gas and Electric Lighting—Salaries.....	712,488 18	712,488 18	.....	.....	732,000 00	117,735 09	127,070 32	487,194 59
Laying Croton Pipes.....	5,400 00	5,031 75	.....	368 25	5,800 00	1,227 11	1,024 95	2,947 94
Laying Croton Pipes—Salaries.....	186,000 00	169,914 05	12,121 72	3,964 23	186,000 00	2,293 58	18,324 46	165,381 96
Public Buildings—Construction and Repairs.....	15,500 00	15,888 87	.....	611 13	14,000 00	3,255 98	3,712 48	7,031 54
Public Drinking-hydrants.....	68,100 00	61,809 09	.....	6,290 91	110,500 00	10,731 80	11,963 15	87,805 05
Public Drinking-hydrants—Salaries.....	5,000 00	3,288 57	735 00	376 43	2,500 00	106 81	738 26	1,654 93
Removing Obstructions in Streets and Avenues.....	1,000 00	965 01	.....	34 99	1,000 00	249 99	249 99	500 02
Removing Obstructions in Streets and Avenues—Salaries.....	5,460 95	5,460 95	.....	.....	6,884 00	298 85	1,816 60	4,768 55
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	3,116 00	2,950 97	.....	165 03	3,116 00	1,001 60	900 00	1,214 40
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	139,500 00	137,182 27	352 86	1,964 87	200,000 00	20,701 92	38,638 87	140,659 21
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	43,100 00	43,097 48	.....	2 52	50,000 00	12,308 15	12,021 97	25,669 88
Repairs and Renewal of Pavements and Regrading.....	209,500 00	199,870 20	5,400 15	4,229 65	238,000 00	7,237 73	21,475 64	209,286 63
Repairs and Renewal of Pavements and Regrading—Salaries.....	11,300 00	9,150 50	.....	2,149 50	12,000 00	2,586 00	3,012 76	6,401 24
Repaving Fifth Avenue.....	294,000 00	42,324 36	54,632 13	197,043 51	.....	.....	.....	.....
Repaving Streets and Avenues.....	198,500 00	167,062 30	6,582 58	24,855 12	327,379 06	.....	.....	327,379 06
Repaving Streets and Avenues—Salaries.....	6,600 00	2,424 00	.....	4,176 00	13,000 00	304 00	906 00	11,790 00
Roads, Streets and Avenues Unpaved, etc., and Sprinkling.....	25,000 00	24,983 26	.....	16 74	25,000 00	2,023 25	5,061 05	17,915 70
Salaries—Department of Public Works.....	85,000 00	84,936 23	.....	63 77	108,000 00	22,746 92	23,797 96	61,455 12
Sewers—Repairing and Cleaning.....	105,500 00	101,324 47	3,277 55	897 98	141,500 00	13,831 44	25,488 14	102,180 42
Sewers—Repairing and Cleaning—Salaries.....	9,000 00	8,189 35	.....	810 65	8,500 00	2,184 00	2,148 00	4,168 00
Sewerage System—Salaries.....	15,000 00	12,076 05	.....	2,923 35	12,500 00	2,571 70	2,715 96	7,212 34
Street Improvements—For Surveying, Monumenting, etc.....	3,000 00	1,628 10	.....	1,371 90	3,000 00	317 50	231 00	2,451 50
Supplies for and Cleaning Public Offices.....	100,800 00	98,410 95	2,389 05	.....	110,000 00	26,656 37	26,607 84	56,735 79
Supplies for and Cleaning Public Offices—Salaries.....	25,000 00	24,083 51	.....	916 49	20,000 00	5,254 91	4,992 39	9,752 70
Surveys, Maps, etc., for Street Openings, etc.—Salaries.....	6,321 06	6,321 06	.....	.....	9,000 00	1,234 53	1,491 67	6,023 80
Supplying Water to Shipping and for Building, etc.—Salaries.....	9,000 00	8,524 42	.....	475 58	9,000 00	2,160 96	2,277 96	4,501 08
Water Supply for the Twenty-fourth Ward.....	5,000 00	4,467 84	.....	532 16	11,070 00	804 96	1,330 25	9,534 79
Water Supply for the Twenty-fourth Ward—Salaries.....	1,000 00	924 00	.....	76 00	1,000 00	241 66	249 99	508 35
Wells and Pumps—Repairing and Cleaning.....	250 00	22 90	.....	227 10	250 00	.....	75 57	174 43
Gansevoort Market Building Fund.....	* 12,134 07	4,680 50	7,453 57	.....	.....	.....	.....	.....
Totals.....	\$2,708,870 01	\$2,330,604 21	\$99,068 37	\$279,197 43	\$2,804,924 06	\$301,016 73	\$438,390 05	\$2,065,517 28

\* Commenced and continued as an account of 1886.

TITLES OF TRUST ACCOUNTS.	Balances from 1886, and Receipts, First Quarter, 1887.	Receipts, Second Quarter, 1887.	Total.	Requisitions, First Quarter, 1887.	Requisitions, Second Quarter, 1887.	Requisitions, Six Months to July 1, 1887.	Balances July 1, 1887.
Croton Water Fund.....	.....	.....	.....	\$27,663 20	\$42,331 25	\$69,994 45	.....
Fund for Local Improvements.....	.....	.....	.....	108,890 27	331,700 46	440,590 73	.....
Restoring and Repaving—Special Fund—Department of Public Works.....	\$15,517 14	\$10,531 00	\$26,048 14	2,845 82	10,306 87	13,152 69	\$12,805 45
Water Meter Fund, No. 2.....	26,316 41	1,834 43	28,150 84	3,979 01	4,184 97	8,163 98	19,986 86

Statement of General Bookkeeper, Department of Public Works, showing all Revenues of the City received through the Department during the First and Second Quarters, 1887.

SOURCE OF REVENUE.	FIRST QUARTER.	SECOND QUARTER.	TOTAL.	SOURCE OF REVENUE.	FIRST QUARTER.	SECOND QUARTER.	TOTAL.
Water rents.....	\$315,627 36	\$642,381 15	\$958,008 51	Use of sprinkling wagon and road roller.....	\$17 50	\$15 00	\$32 50
Water penalties.....	6,685 95	1,593 75	8,279 70	Work done and material furnished citizens.....	125 30	135 93	261 23
Pipe tapping.....	2,178 50	5,308 50	7,487 00	Sales at public auction.....	525 52	54 32	579 84
Sewer permits.....	6,947 36	10,256 42	17,203 78	Totals.....	\$342,803 22	\$689,752 38	\$1,032,555 60
Vault permits.....	10,526 88	29,173 67	39,700 55				
Redemption of sale of street obstructions.....	168 85	833 64	1,002 49				

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

## Document "B."

A Detailed Statement of Expenditures for which Requisitions were drawn on the Comptroller by the Commissioner of Public Works, during the Quarter ending June 30, 1887.

## APPROPRIATIONS.

Aqueduct—Repairs, Maintenance and Strengthening—	
Blacksmithing.....	\$570 63
Cable.....	1,233 60
Cement, etc.....	1,209 50
Coal.....	4,847 20
Horse-feed.....	69 52
Lead.....	453 10
Lumber.....	694 96
Oil.....	150 00
Paint.....	205 15
Pay-rolls.....	36,138 18
Rain gauges.....	54 75
Rent of offices.....	106 25
Sand.....	600 00
Sodding.....	95 94
Stone.....	2,848 40
Supplies.....	1,581 35
Taxes.....	1,082 04
Tools.....	81 60
Traveling expenses.....	74 49
Trucking.....	262 50
Total.....	\$52,449 16
Aqueduct—Repairs, Maintenance and Strengthening, 1886—	
Coal.....	\$78 75
Ice.....	68 88
Stone.....	5,226 75
Total.....	\$5,374 38
Boring Examinations for Grading and Sewer Contracts—	
Pay-rolls.....	\$905 58
Boulevards, Roads and Avenues, Maintenance of—	
Coal.....	\$12 00
Dumping privilege.....	50 00
Horse-hire.....	90 00
Paint.....	27 19
Pay-rolls.....	20,262 99

Boulevards, Roads and Avenues, Maintenance of—	
Repairing sprinklers.....	\$44 45
Sand.....	1,388 14
Stone, etc.....	441 45
Supplies.....	792 93
Road machine.....	120 20
Total.....	\$23,229 35
Boulevards, Roads and Avenues, Maintenance of, 1886—	
Stone.....	\$620 10
Bronx River Works—Maintenance and Repairs—	
Pay-rolls.....	\$2,550 00
Oil.....	118 99
Supplies.....	51 25
Total.....	\$2,720 24
Bronx River Works—Maintenance and Repairs, 1886—	
Lumber.....	\$112 56
Contingencies—Department of Public Works—	
Horse-hire.....	\$396 00
Incidental expenses.....	383 28
Postage.....	164 00
Traveling expenses.....	253 95
Total.....	\$1,197 23
Contingencies—Department of Public Works, 1886—	
Incidental expenses.....	\$16 72
Flagging Sidewalks and Fencing Vacant Lots in Front of City Property—	
Flagging in front of Catharine Market.....	\$580 69
Flagging northeast corner of White and Elm streets.....	1,472 72
Total.....	\$2,053 41
For Repairs to Seventh Regiment Armory Building—	
Repairing roof.....	\$60 00
Masonry work.....	515 00
Total.....	\$575 00



Free Floating Baths—	
Anchors and chains.....	\$169 40
Caps and badges.....	49 50
Carpenter work.....	850 00
Caulking.....	1,886 40
Chairs.....	12 50
Painting.....	3,300 00
Storing baths.....	1,012 00
Supplies.....	556 19
Skiff.....	24 00
Total.....	\$7,859 99

Lamps and Gas and Electric Lighting—	
Crossheads.....	\$260 00
Gas examinations.....	374 50
Fenders.....	60 25
Lamps.....	1,934 00
Lamp-globes.....	1,450 00
Lamp-irons.....	341 25
Lamp-posts.....	2,570 22
Lettering globes.....	75 00
Pay-rolls.....	531 00
Rent of Photometrical rooms.....	240 00
Street signs.....	565 00
Lighting Armory, First Battery.....	38 37
" " Second Battery.....	121 98
" " Seventh Regiment.....	905 37
" " Eighth ".....	234 14
" " Ninth ".....	300 74
" " Eleventh ".....	82 63
" " Twelfth ".....	536 50
" " Twenty-second Regiment.....	753 12
" " Sixty-ninth ".....	207 13
" " Seventy-first ".....	213 26
" " Brown-stone Building.....	95 50
" " City Hall.....	320 12
" " CITY RECORD Book Bindery.....	3 25
" " County Jail.....	251 24
" " Court, Civil, First District.....	3 88
" " " Second ".....	18 62
" " " Fourth ".....	11 37
" " " Fifth ".....	42 01
" " " Sixth ".....	3 50
" " " Eighth ".....	10 37
" " " Ninth ".....	11 25
" " Court, Police, First.....	296 01
" " " Second.....	107 51
" " " Third.....	31 37
" " " Fourth.....	101 88
" " " Fifth.....	18 37
" " Court-house, Third District (clock).....	139 75
" " County.....	1,143 37
" " Court, Special Sessions.....	22 63
" " Department of Public Works.....	251 75
" " Taxes and Assessments.....	10 13
" " Dog Pound.....	13
" " Engine-house, High Bridge.....	65 14
" " " Ninety-eighth street.....	124 00
" " Market, Catharine.....	47 25
" " " Centre.....	76 76
" " " Clinton.....	136 74
" " " Essex.....	21 38
" " " Fulton.....	611 00
" " " Jefferson.....	179 12
" " " Tompkins.....	120 50
" " " Union.....	5 75
" " " Washington.....	698 87
" " Office Corporation Attorney.....	53 01
" " Corporation Counsel.....	11 62
" " Photometrical.....	26 76
" " Receiver of Taxes.....	267 99
" " Register.....	50 12
" " Pipe Yard, Rivington street.....	2 75
" " " Twenty-fourth street.....	3 00
" " Repair Shop, Thirtieth street.....	6 38
" " " Eighty-third street.....	4 38
" " " One Hundred and Twenty-ninth street.....	10 74
" " South Gate-house.....	58 25
" " Streets, Brush Electric Illuminating Co.....	14,826 00
" " " United States Illuminating Co.....	15,411 90
" " " Central Gas-light Co.....	11,073 56
" " " Consolidated Gas Co.....	53,695 38
" " " Equitable Gas-light Co.....	3,442 00
" " " New York Mutual Gas-light Co.....	623 42
" " " New York and New Jersey Globe Gas-light Co.....	500 00
" " " Northern Gas-light Co.....	8,610 64
" " " Yonkers.....	1,617 44
Total.....	\$127,070 32

Laying Croton Pipes—	
Altering gas-mains.....	\$141 23
Cast-iron pipe.....	5,203 77
Horse-hire.....	387 00
Pay-rolls.....	3,236 25
Setting hydrants.....	101 85
Traveling expenses.....	26 80
Sixty-ninth street, between Eighth and Ninth avenues.....	532 60
One Hundred and Fortieth street, between Willis and Brook avenues.....	447 71
Eighty-eighth street, between Ninth and Tenth avenues.....	548 88
One Hundred and Sixty-first street, between Delmonico place and one hundred feet west of Cauldwell avenue.....	255 30
Tenth, Seventh, Fourth, Madison avenues, etc.....	1,940 29
Sedgwick, Tenth, Sixth avenues, etc.....	5,502 78
Total.....	\$18,324 46

Laying Croton Pipes, 1886—	
Broadway, Tenth, Ninth, Eighth, Sixth, Fourth avenues, etc.....	\$5,354 88
Cast-iron pipe.....	6,718 84
Traveling expenses.....	48 00
Total.....	\$12,121 72

Laying Croton Pipes, 1885—	
Fordham, Pelham avenues, etc.....	\$855 28

Public Buildings—Construction and Repairs—	
Armory, Second Battery.....	\$107 63
" " Ninth Regiment.....	42 40
" " Eleventh Regiment.....	357 16
" " Sixty-ninth Regiment.....	383 14
Brown-stone Building.....	358 98
Bureau Repairs and Supplies.....	797 36
Court, Civil, Third District.....	99 55
" " Fifth.....	110 00
" " Tenth.....	28 31
" " Police, First District.....	405 26
" " " Third.....	12 50
Court-house, Third District.....	855 70
" " Seventh District.....	98 52

Public Buildings—Construction and Repairs—	
Court-house, County.....	\$1,981 65
City Hall.....	199 31
" " Prison.....	1 66
County Jail.....	329 99
Hall of Records.....	130 78
Market, Essex.....	505 90
" " Fulton.....	1,805 74
" " Jefferson.....	91 37
" " Washington.....	1,202 46
Old arsenal building.....	500 00
No. 31 Chambers street.....	500 07
No. 49 Beekman street.....	143 90
Pay-rolls.....	852 00
Stewart Building.....	1 90
Total.....	\$11,963 15

Public Buildings—Construction and Repairs, 1884—	
Stewart Building.....	\$27 00

Public Drinking-hydrants—	
Repairing hydrants.....	\$738 31

Public Drinking-hydrants, 1886—	
Hydrants.....	\$735 00

Removing Obstructions in Streets and Avenues—	
Pay-rolls.....	\$75 00
Removing obstructions.....	1,357 60
" " trees.....	262 50
Traveling expenses.....	121 50
Total.....	\$1,816 60

Repairing and Renewal of Pipes, Stop-cocks, etc.—	
Cement.....	\$42 00
Charcoal.....	7 50
Coal.....	12 00
Coke.....	105 00
Changing taps.....	70 60
Fenders.....	499 00
Hydrant caps and chains.....	225 00
Lead, etc.....	511 54
Lead pipe.....	336 00
Meter boxes.....	44 75
Oil.....	12 25
Placing meter.....	56 30
Repairing boxes over pipe on bridge.....	85 00
Repairing pressure gauges.....	21 00
Stop-cocks, etc.....	7,043 11
Supplies.....	466 00
Telephone service.....	158 40
Traveling expenses.....	53 00
Pay-rolls.....	28,744 17
Wood.....	146 25
Total.....	\$38,638 87

Repairing and Renewal of Pipes, Stop-cocks, etc., 1886—	
Coal.....	\$52 50
Coke.....	35 00
Hydrant-heads.....	193 66
Stone.....	71 70
Total.....	\$352 86

Repairs and Renewal of Pavements and Regrading—	
Drawing materials.....	\$18 48
Horse-hire, etc.....	350 25
Horse.....	335 00
Pay-rolls.....	18,774 71
Oil.....	40 40
Re-dressing granite blocks.....	173 40
Repairing pavement.....	328 44
" " tools.....	66 85
" " rollers.....	168 50
" " wagon.....	111 95
Resetting stop-cock boxes.....	252 00
Sand.....	553 81
Tools.....	253 30
Traveling expenses.....	48 55
Total.....	\$21,475 64

Repairs and Renewal of Pavements and Regrading, 1886—	
Repairing pavement.....	\$4,319 02
Stone.....	840 88
Tools.....	240 25
Total.....	\$5,400 15

Repaving Streets and Avenues, 1886—	
Cannon and Jackson streets.....	\$781 10
Cornelia and Downing streets.....	308 50
Grand street and Washington place.....	567 30
Greene street, between Canal and Bleecker streets.....	738 00
Jones and Leroy streets.....	329 00
Monroe street, between Clinton and Gouverneur streets.....	255 10
Ridge street, between Stanton and Division streets.....	457 10
Sheriff street and Centre Market place.....	325 40
Suffolk street, between Rivington and Division streets.....	457 90
Fifteenth and Nineteenth streets, between First and Second avenues, and Twenty-fifth street.....	642 00
Eighteenth street, between Eighth and Tenth avenues.....	540 20
Eighteenth street, between First avenue and East river.....	658 30
Avenue B, between Fourteenth and Nineteenth streets.....	408 80
Madison avenue, between Seventy-ninth and Eightieth streets.....	104 91
Surveyor's fees.....	8 97
Total.....	\$6,582 58

Repaving Fifth Avenue, 1886—	
Pay-rolls.....	\$1,336 00
Work on contract.....	53,296 13
Total.....	\$54,632 13

Roads, Streets and Avenues Unpaved, Maintenance of and Sprinkling—	
Building stairway (One Hundred and Fifty-fifth street).....	\$549 00
Horse-hire.....	180 00
Pay-rolls.....	4,326 50
Supplies.....	5 55
Total.....	\$5,061 05

Sewers—Repairing and Cleaning—	
Basin-heads, etc.....	\$2,427 00
Cement, etc.....	873 00
Cleaning sewers.....	2,572 94



## Sewers—Repairing and Cleaning—

Drawing material	\$44 96
Hammers and sledge	10 56
Horse-hire	270 00
Lumber	155 00
Manhole heads and covers	765 86
Pay-rolls	16,699 87
Pipe, etc.	675 00
Removing basin-heads	25 00
Repairing sewers	704 00
“ tools	36 40
Supplies	14 65
Stone	213 90

Total ..... \$25,488 14

## Sewers—Repairing and Cleaning, 1886—

Basin-heads	\$1,719 00
Building manholes	799 68
Removing gas-main	19 50
Repairing sewers	739 37

Total ..... \$3,277 55

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

Armory, Second Battery	\$11 50
“ Ninth Regiment	11 50
“ Twenty-second Regiment	23 00
“ Sixty-ninth	93 75
“ Seventy-first	11 50
Brown-stone Building	69 97
Bureau Repairs and Supplies	2,186 78
City Hall	288 43
City Prison	19 50
Court, Civil, First District	53 36
“ “ Second	66 00
“ “ Fifth	11 50
“ Police, Second District	26 08
“ “ Third	42 50
“ City	112 50
“ Common Pleas	252 80
“ General Sessions	5 50
“ Superior	24 50
“ Supreme	8 00
Court-house, Third District	34 50
“ County	87 50
Office, Comptroller	100 30
“ Corporation Counsel	52 70
“ Department of Public Works	460 72
“ “ Taxes and Assessments	96 17
“ Mayor	5 50
“ Public Administrator	175 00
“ Recorder	22 60
“ Register	296 46
Coal	4,647 93
Pay-rolls	17,309 79

Total ..... \$26,607 84

## Supplies for and Cleaning Public Offices, 1886—

Bureau Repairs and Supplies	\$59 85
Office, Comptroller	22 50
“ Department of Public Works	33 00
Ice	2,273 70

Total ..... \$2,389 05

## Water Supply for Twenty-fourth Ward—

Supply of water	\$1,315 02
Traveling expenses	15 23

Total ..... \$1,330 25

## For an Iron Bridge over Fourth Avenue, at Ninety-eighth Street, 1884—

Building bridge	\$5,651 41
-----------------	------------

## RECAPITULATION OF APPROPRIATIONS.

Aqueduct—Repairs, Maintenance and Strengthening	\$52,449 16
Aqueduct—Repairs, Maintenance and Strengthening, 1886	5,374 38
Aqueduct—Repairs, Maintenance and Strengthening—Salaries	6,509 86
Boring Examinations for Grading and Sewer Contracts	905 58
Boulevards, Roads and Avenues, Maintenance of	23,229 35
Boulevards, Roads and Avenues, Maintenance of, 1886	620 10
Bronx River Works—Maintenance and Repairs	2,720 24
Bronx River Works—Maintenance and Repairs, 1886	112 56
Bronx River Works—Maintenance and Repairs—Salaries	975 00
Contingencies—Department of Public Works	1,197 23
Contingencies—Department of Public Works, 1886	16 72
Flagging Sidewalks and Fencing Vacant Lots, etc.	2,053 41
For an Iron Bridge over Fourth Avenue at Ninety-eighth Street, 1884	5,651 41
For Repairs to Seventh Regiment Armory Building	575 00
Free Floating Baths	7,859 99
Free Floating Baths—Salaries	992 00
Lamps and Gas and Electric Lighting	127,070 32
Lamps and Gas and Electric Lighting—Salaries	1,624 95
Laying Croton Pipes	18,324 46
Laying Croton Pipes, 1886	12,121 72
Laying Croton Pipes, 1885	855 28
Laying Croton Pipes—Salaries	3,712 48
Public Buildings—Construction and Repairs	11,963 15
Public Buildings—Construction and Repairs, 1884	27 00
Public Drinking-hydrants	738 31
Public Drinking-hydrants, 1886	735 00
Public Drinking-hydrants, Salaries	249 99
Removing Obstructions in Streets and Avenues	1,816 60
Removing Obstructions in Streets and Avenues—Salaries	900 00
Repairing and Renewal of Pipes, Stop-cocks, etc.	38,638 87
Repairing and Renewal of Pipes, Stop-cocks, etc., 1886	352 86
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries	12,021 97
Repairs and Renewal of Pavements and Regrading	21,475 64
Repairs and Renewal of Pavements and Regrading, 1886	5,400 15
Repairs and Renewal of Pavements and Regrading—Salaries	3,012 76
Repaving Streets and Avenues, 1886	6,582 58
Repaving Streets and Avenues—Salaries	906 00
Repaving Fifth Avenue, 1886	54,632 13
Roads, Streets and Avenues Unpaved, Maintenance of, and Sprinkling	5,061 05
Salaries—Department of Public Works	23,797 96
Sewers—Repairing and Cleaning	25,488 14
Sewers—Repairing and Cleaning, 1886	3,277 55
Sewers—Repairing and Cleaning—Salaries	2,148 00
Sewerage System—Salaries	2,715 96
Street Improvements—For Surveying, etc.	231 00
Supplies for and Cleaning Public Offices	26,607 84
Supplies for and Cleaning Public Offices, 1886	2,389 05
Supplies for and Cleaning Public Offices—Salaries	4,992 39
Surveys, Maps, etc., for Street Openings, etc.	1,491 67
Supplying Water to Shipping, etc.—Salaries	2,277 96

Water Supply for Twenty-fourth Ward	\$1,330 25
Water Supply for Twenty-fourth Ward—Salaries	249 99
Wells and Pumps—Repairing and Cleaning, 1886	75 57
Total	\$536,538 59

## TRUST ACCOUNTS.

## CROTON WATER FUND.

Clerical services	\$836 25
Drawing materials	246 84
Expert services	2,026 88
Horse-hire	344 00
Land	10,117 40
Pay-rolls	16,206 64
Printing testimony	766 94
Rent of mill seat	600 00
Rent of offices	289 99
Reservoir at Williamsbridge	10,206 00
Traveling expenses	490 31
Total	\$42,331 25

## FUND FOR LOCAL IMPROVEMENTS.

Paving—	
Eighty-second street, between Avenues A and B	\$221 60
Ninety-first street, between Second and Fourth avenues	495 64
One Hundred and Thirty-second street, between Seventh and Eighth avenues	266 89
One Hundred and Thirty-third street, between Seventh and Eighth avenues	268 10
Regulating, grading, etc.—	
One Hundred and Fourteenth street, between Fourth and Sixth avenues	\$12,314 64
One Hundred and Thirty-third street, between Eighth and St. Nicholas avenues	78 00
Washington street, between Twelfth and Fourteenth streets	119 50
Pay-rolls	156 00
Surveying	642 61
Total	\$13,310 75

Sewers—	
Ninety-fourth street, between Eighth and Ninth avenues	\$216 60
Ninety-seventh street, between Boulevard and Riverside Drive	165 90
One Hundred and Sixth street, between summits east and west of Tenth avenue	180 30
One Hundred and Sixth street, between Boulevard and summit east	107 55
One Hundred and Fourteenth street, between Fourth and Sixth avenues	469 72
One Hundred and Seventeenth street, between Fifth and Sixth avenues, etc.	3,931 50
Fourth avenue, east side, between Fifty-fourth and Fifty-fifth streets	99 78
Ninety-fifth street, between Ninth and Tenth avenues	229 20
Forsyth street, between Stanton and Houston streets	70 05
Pay-rolls	202 20
Total	\$5,672 80

Total ..... \$20,235 78

## LOCAL IMPROVEMENT FUND.

Regulating, grading, etc.—	
One Hundred and Eighty-fifth street, between Tenth avenue and Kingsbridge road	\$396 66
Eleventh avenue, between Kingsbridge road and Dyckman street	2,091 50
Kingsbridge road, between One Hundred and Fifty-fifth and One Hundred and Ninetieth streets	3,410 50
Fort Washington Ridge road	5,474 00
Pay-rolls	468 00
Total	\$10,840 66

Sewers—	
One Hundred and Forty-fifth street, between Boulevard and Tenth avenue	\$123 60
Lexington avenue, between Ninety-fifth and Ninety-seventh streets	448 50
Tenth avenue, east side, between One Hundred and Sixty-second and One Hundred and Seventieth streets	1,471 80
Total	\$2,043 90

Total ..... \$12,884 56

## STREET IMPROVEMENT FUND.

Fencing—	
Southeast corner of Madison avenue and One Hundred and Eleventh street	\$61 98
Seventh avenue, west side, between One Hundred and Twenty-eighth and One Hundred and Twenty-ninth streets	186 69
Ninety-fourth and Ninety-fifth streets, First and Second avenues	752 64
Ninety-fifth and Ninety-sixth streets, Second and Third avenues	241 28
One Hundred and Sixth and One Hundred and Seventh streets, Fourth and Madison avenues	613 08
One Hundred and Eighth and One Hundred and Ninth streets, First and Second avenues	477 75
One Hundred and Tenth street, south side, between Fourth and Madison avenues	67 13
One Hundred and Tenth street, north side, between Fourth and Madison avenues	24 50
One Hundred and Eleventh and One Hundred and Twelfth streets, Madison and Fifth avenues	313 35
One Hundred and Twelfth and One Hundred and Thirteenth streets, Seventh and Eighth avenues	977 55
One Hundred and Thirteenth and One Hundred and Fourteenth streets, Fourth and Madison avenues	400 33
One Hundred and Eighteenth and One Hundred and Nineteenth streets, St. Nicholas and Eighth avenues	560 31
One Hundred and Twenty-second street, south side, west of Seventh avenue	211 19
One Hundred and Twenty-second street, south side, west of Pleasant avenue	25 17
One Hundred and Twenty-second and One Hundred and Twenty-third streets, St. Nicholas and Manhattan avenues	382 45
One Hundred and Twenty-third and One Hundred and Twenty-fourth streets, Madison and Ninth avenues	139 40
One Hundred and Thirty-first and One Hundred and Thirty-second streets, Madison and Fifth avenues	638 47
One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets, Seventh and Eighth avenues	990 66
Surveying	910 77
Curbing, flagging, etc.—	
Fifty-ninth street, between Madison and Fifth avenues	\$236 85
Sixty-second street, between Boulevard and Eighth avenue	1,002 88
Seventieth street, between Ninth and Tenth avenues	442 00
One Hundred and Twenty-second street, south side, between First avenue and Avenue A	360 57
One Hundred and Thirtieth street, between Lexington and Fourth avenues	241 20
Manhattan avenue, between One Hundred and Sixteenth and One Hundred and Twenty-second streets	2,066 08
Surveying	663 36
Total	\$7,974 70

Curbing, flagging, etc.—	
Fifty-ninth street, between Madison and Fifth avenues	\$236 85
Sixty-second street, between Boulevard and Eighth avenue	1,002 88
Seventieth street, between Ninth and Tenth avenues	442 00
One Hundred and Twenty-second street, south side, between First avenue and Avenue A	360 57
One Hundred and Thirtieth street, between Lexington and Fourth avenues	241 20
Manhattan avenue, between One Hundred and Sixteenth and One Hundred and Twenty-second streets	2,066 08
Surveying	663 36
Total	\$5,012 94



## Regulating, grading, etc.—

Claremont avenue, between One Hundred and Sixteenth and One Hundred and Twenty-second streets	\$1,088 50
Edgecomb avenue, west side, between One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets	631 95
Edgecomb avenue, between One Hundred and Forty-fifth street and St. Nicholas place	3,906 00
Fort George avenue, between Tenth and Eleventh avenues	3,749 90
First New avenue west of Eighth avenue, between One Hundred and Forty-fifth and One Hundred and Fifty-fifth streets	2,632 00
Forty-third street, between First avenue and Prospect place	2,975 00
Sixty-fifth street, between First avenue and Avenue A	5,142 20
Sixty-ninth street, between Eighth and Ninth avenues	6,733 29
Eighty-first street, between Avenues A and B	2,427 12
Eighty-second street, between Boulevard and Riverside Drive	3,229 93
Eighty-ninth street, between Boulevard and Riverside Drive	2,415 00
Ninetieth street, between Boulevard and Riverside Drive	1,344 00
Ninety-first street, between Tenth avenue and Riverside Drive	1,522 50
Ninety-fifth street, between Eighth and Ninth avenues	1,427 52
One Hundred and First street, between Eighth and Manhattan avenues	1,970 20
One Hundred and Seventh street, between Boulevard and Tenth avenue	3,203 08
One Hundred and Fourteenth street, between Tenth avenue and Riverside Drive	5,919 15
One Hundred and Thirty-seventh street, between Eighth and St. Nicholas avenues	1,866 28
One Hundred and Thirty-seventh street, between Eighth and Ninth avenues	4,404 13
One Hundred and Thirty-eighth street, between Tenth avenue and Boulevard	1,444 52
One Hundred and Forty-second street, between Seventh and Eighth avenues	1,470 00
One Hundred and Forty-ninth street, between Seventh and Eighth avenues	4,378 37
Altering gas-mains	559 00
Pay-rolls	5,278 00
Surveying	2,202 60
	\$71,920 24

## Paving—

Sixty-fourth street, between First and Second avenues	\$221 30
Sixty-sixth street, between Tenth avenue and Boulevard	4,780 54
Sixty-seventh street, between Second and Third avenues	5,789 25
Seventieth street, between Avenue A and First avenue	7,180 20
Seventy-first street, between East Boulevard and East river	6,020 70
Seventy-third street, between Avenue A and First avenue	7,345 58
Seventy-fifth street, between Tenth avenue and Boulevard	2,469 23
Eighty-third street, between Boulevard and Riverside Drive	7,861 28
Eighty-eighth street, between First and Second avenues	5,663 91
Ninety-first street, between Fourth and Fifth avenues	8,369 48
Ninety-third street, between Ninth and Tenth avenues	8,268 54
One Hundred and First street, between Second and Third avenues	4,160 09
One Hundred and Second street, between Lexington and Fifth avenues	5,460 70
One Hundred and Third street, between First and Second avenues	222 00
One Hundred and Seventh street, between Third and Lexington avenues	144 90
One Hundred and Twenty-first street, between Sixth and Seventh avenues	6,468 05
One Hundred and Thirty-first street, between Sixth and Seventh avenues	7,388 48
One Hundred and Thirty-second street, between Madison and Fifth avenues	2,418 75
One Hundred and Thirty-fifth street, between Eighth and St. Nicholas avenues	6,586 03
One Hundred and Fifty-fifth street, between St. Nicholas avenue and St. Nicholas place	9,956 26
West Fifty-fifth street, from present pavement to North river	225 47
Pleasant avenue and One Hundred and Fifteenth street	260 48
Ninth avenue, between Seventy-seventh and One Hundred and Tenth streets	18,553 50
Pay-rolls	3,199 00
Surveying	2,957 23
	131,970 95

## Sewers—

Avenue A, southwest corners of Eightieth and Eighty-first streets	\$383 52
Avenue A, southwest corner of Sixty-second street	201 00
First avenue, northeast corner of One Hundred and Seventh street	8 70
Fourth avenue, northwest corner of One Hundred and Twenty-first street	6 00
Lexington avenue, between Eighty-ninth and Ninety-first streets, and between Ninety-third and Ninety-fourth streets	1,464 75
Lexington avenue, northeast and southeast corners of One Hundred and Second street	356 40
Manhattan avenue, northeast and northwest corners of One Hundred and Twenty-third street	373 95
Manhattan avenue, southeast corner of One Hundred and Twenty-third street	198 45
Madison avenue, between One Hundred and Seventeenth and One Hundred and Eighteenth streets	2,749 60
St. Nicholas avenue, east side, between One Hundred and Forty-first and One Hundred and Forty-fifth streets	4,991 00
St. Nicholas avenue, east side, between One Hundred and Twenty-sixth street, and four hundred and sixty-nine feet north of One Hundred and Thirtieth street	1,638 00
West End avenue, between Sixty-fourth and Sixty-fifth streets	2,452 24
Eighth avenue, between One Hundred and Fifty-third street and Harlem river	5,201 18
Eighth avenue, between One Hundred and Fifth and One Hundred and Fourteenth streets	3,957 80
Eleventh avenue, between Fourteenth and Seventeenth streets	5,288 17
Thirteenth avenue, southeast corner of Twenty-first street	186 00
Pier 29, North river	1,983 00
Hudson street, between Christopher and Grove	49 50
Sixty-second street, between Tenth and Eleventh avenues	2,228 10
Sixty-fourth street, between Avenue A and First avenue	2,290 40
Seventy-fourth street, between Ninth and Tenth avenues	4,070 50
Seventy-sixth street, between Avenue A and East river	2,993 52
Ninety-first street, between Eighth and Ninth avenues	3,216 89
Ninety-second street, between Ninth avenue and Boulevard	2,222 15
Ninety-seventh street, between Ninth avenue and summit west of Ninth avenue	4,581 30
One Hundredth street, between Boulevard and West End avenue	758 25
One Hundred and Third street, between Ninth and Tenth avenues	1,758 55
One Hundred and Fifth street, between First avenue and Harlem river	180 25
One Hundred and Fifth street, between Manhattan avenue and summit west of Ninth avenue	1,345 05
One Hundred and Eighteenth street, between Fifth and Sixth avenues	4,012 27
One Hundred and Forty-third street, between Seventh and Eighth avenues	4,179 55
One Hundred and Forty-third street, between Boulevard and Hamilton place	2,205 35
Pay-rolls	14,169 85
	\$81,701 24
Total	\$298,580 07

## GANSEVOORT MARKET BUILDING FUND.

Architect's fees	\$7,255 57
Pay-rolls	198 00
Total	\$7,453 57

## RESTORING AND REPAVING—SPECIAL FUND—DEPARTMENT OF PUBLIC WORKS.

Pay-rolls	\$1,289 62
Restoring pavements	8,783 50
Sand	233 75
Total	\$10,306 87

## WATER-METER FUND, NO. 2.

Setting meters	\$1,826 97
Water-meters	2,358 00
Total	\$4,184 97

## RECAPITULATION OF FUNDS.

Croton Water Funds	\$42,331 25
Fund for Local Improvements	20,235 78
Local Improvement Fund	12,884 56
Street Improvement Fund	298,580 07
Gansevoort Market Building Fund	7,453 57
Restoring and Repaving—Special Fund	10,306 87
Water-meter Fund, No. 2	4,184 97
Total	\$395,977 07

## GENERAL SUMMARY.

Appropriations	\$536,538 59
Funds	395,977 07
Total	\$932,515 66

## Document "C."

## STATEMENT OF CONTRACTS.

Contracts Made during the Three Months ending June 30, 1887.

Date of Contract.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.
<i>Sewer Contracts.</i>				
April 4	Sewer in Sixty-fourth street, between Avenue A and East river	M. J. Kane, 126 East 70th street.	Michael Kane, 126 East 70th street. Joseph Garry, 217 East 39th street.	\$4,447 75
" 4	Sewer in Hudson street, between Franklin and Beach streets	Patrick Reilly, 185 East 80th street.	Thomas Gearty, 135 East 83d street. Richard C. Baker, 1041 Park avenue	2,413 75
" 13	Sewer in Fourth avenue, west side, between One Hundred and Twenty-first and One Hundred and Twenty-third streets, with branch in One Hundred and Twenty-second street, between Madison and Fourth avenues	George F. Masterson, 110 W. 130th street.	Edward C. Sheehy, 411 East 83th street. Patrick J. O'Brien, 2303 Eighth avenue.	10,493 50
" 18	Sewer in Ninety-first street, between Avenue A and First avenue	Patrick Larney, 325 East 38th street.	Thomas Regan, 719 Lexington ave. Robert Gordon, 228 East 42d street.	4,688 00
" 30	Sewer in Avenue B, between Fifth and Sixth streets	Lawrence Martin, 675 East 142d street.	Daniel Malone, 2785 Third avenue. Charles Jones, 257 Alexander ave.	1,592 70
May 7	Sewer in One Hundred and Second street, between Ninth and Manhattan avenues	Patrick Kearns, 720 East 143d street.	Thomas Regan, 719 Lexington ave. Edward C. Sheehy, 411 East 83th street.	2,590 00
" 7	Sewer in One Hundred and Third street, between Ninth and Manhattan avenues	Patrick Kearns, 720 East 143d street.	Thomas Regan, 719 Lexington ave. Edward C. Sheehy, 411 East 83th street.	2,990 00
" 16	Sewer in Seventy-fourth street, between Eighth and Ninth avenues	Joseph Moore, 180 East 88th street.	John McQuade, 1328 Lexington ave. Peter McGinness, 1546 Park avenue.	9,102 50
" 18	Sewer in Seventy-sixth street, between West End and Riverside avenues, connecting with sewer in Riverside avenue	Elmer E. De Camp, 879 Park avenue.	John Davidson, 872 Fourth avenue. John Slattery, 868 Fourth avenue.	5,975 00
" 31	Sewer in Attorney street, between Broome and Delancey streets	Joseph Moore, 180 East 88th street.	John McLaughlin, 346 East 81st street. Peter McGinness, 1546 Park avenue.	1,938 00
June 7	Sewer in Avenue B, between Fifteenth and Sixteenth streets, and between Seventeenth and Eighteenth streets	William F. Cunningham, 349 East 77th street.	William Lyman, 52 East 122d street. Daniel McGowan, 1319 Avenue A.	2,273 50
" 21	Sewer in One Hundred and Fifty-eighth street, between Tenth and Eleventh avenues	Boitano & Reilly, 31 and 33 Broadway.	Samuel Barclay, 241 West 19th street. James A. Cowie, 140 Ninth avenue.	6,112 00
" 29	Sewer in Eleventh avenue, east side, between One Hundred and Fifty-ninth and One Hundred and Sixty-first streets	John Slattery, 868 Fourth avenue.	John Davidson, 872 Fourth avenue. Patrick H. Slattery, 686 East 135th street.	5,999 00
				\$60,615 70
<i>Regulating and Grading Contracts.</i>				
April 4	Setting curb-stones and flagging sidewalks in Sixty-second street, from the Boulevard to Eighth avenue	M. J. Kane, 126 East 70th street.	Michael Kane, 126 East 70th street. Joseph Garry, 217 East 39th street.	\$1,289 00
" 13	Flagging sidewalks in Seventieth street, from Eighth to Ninth avenue	George F. Masterson, 110 W. 130th street.	Edward C. Sheehy, 411 E. 83th street. Patrick J. O'Brien, 2303 Eighth avenue.	1,843 20
" 29	Regulating and grading One Hundred and Forty-seventh street, from Eighth avenue to first New avenue west	John J. Farley, 1990 Madison avenue	Alexander McSorley, 123 W. 76th street. John T. Farley, 103 W. 70th street.	4,653 40
" 29	Regulating and grading One Hundred and Third street, from Eighth to Ninth avenue	John J. Farley, 1990 Madison avenue	John T. Farley, 103 W. 70th street. Alexander McSorley, 123 W. 76th street.	5,689 45
May 2	Regulating and grading Eighty-seventh street, from Boulevard to West End avenue	James Slattery, 218 West 57th street.	Leonard W. Johnson, 66 W. 46th street. John G. Smith, 329 W. 48th street.	230 75
Apr. 30	Repairing sidewalk on the northeast corner of Elm and White streets	A. E. Moran, 321 East 72d street.	Peter McGinness, 1546 Park avenue. D. W. Moran, 349 E. 72d street.	1,493 75
May 2	Setting curb-stones and flagging sidewalks on both sides of Coenties Slip, between Front and South streets	Andrew Low, 595 East 139th street.	Peter McGinness, 1546 Park avenue. D. W. Moran, 349 E. 72d street.	1,972 40
" 2	Setting curb-stones and flagging sidewalks in One Hundred and Twenty-second street, from New avenue west to Sixth avenue	Andrew Low, 595 East 139th street.	Peter McGinness, 1546 Park avenue. D. W. Moran, 349 E. 72d street.	1,223 87
" 20	Regulating and grading One Hundred and Second street, from Eighth to Ninth avenue	Patrick McInerney, 214 East 85th street.	Charles McGinness, 127 Broome street. Thomas Smith, 162 East 84th street.	5,624 59
June 22	Regulating and grading One Hundred and Fifty-fifth street, from east line of first New avenue west of Eighth avenue to the west line of first New avenue west of Eighth avenue	William F. Ewing, 258 West 125th street	Thomas F. Russell, 313 West 145th street. James S. Kelly, 28 West Houston st.	2,498 00
				\$26,527 41



Date of Contract.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.	Date of Contract.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.
	<i>Paving Contracts.</i>					<i>Laying Water-main Contracts.</i>			
June 2	Paving with trap-block pavement, Eighty-fourth street, from Avenue A to Avenue B.....	P. H. McCullagh, 240 East 32d street..	Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Charles R. Parfitt, 807 Lexington ave... James Baird, 310 East 57th street. Charles Guidet, 41 Park avenue..... John White, 536 West 40th street. Ransom Parker, Jr., 224 W. 11th street. Thomas E. Crimmins, 1043 Third avenue... James Mulry, 30 East 81st street... Julius A. Candee, 26th street, E. R.... James Mulry, 30 East 81st street... Michael Larkin, 338 East 15th street. James Mulry, 30 East 81st street... Julius A. Candee, 26th street, E. R....	\$5,295 80	April 4	Laying water-mains in Tenth, Seventh, Fourth, Madison, West End and Riverside avenues, and One Hundred and Forty-ninth, One Hundred and Forty-fourth, One Hundred and Thirtieth, One Hundred and First and Seventy-seventh streets, and in Southern Boulevard.....	John Cornwell, Jr., 529 East 161st street.	Moses Mehrbach, 433 Grand street... Anthony Miller, 2031 Sixth avenue...	\$13,594 00
" 2	Paving with trap-block pavement, Sixty-eighth street, from Eighth avenue to the Boulevard.....	Matthew Baird, 339 East 63d street..	James Baird, 310 East 57th street. Charles Guidet, 41 Park avenue..... John White, 536 West 40th street. Ransom Parker, Jr., 224 W. 11th street. Thomas E. Crimmins, 1043 Third avenue... James Mulry, 30 East 81st street... Julius A. Candee, 26th street, E. R.... James Mulry, 30 East 81st street... Michael Larkin, 338 East 15th street. James Mulry, 30 East 81st street... Julius A. Candee, 26th street, E. R....	10,055 38	June 24	Laying water-mains in Morris, Columbia, Jackson, Brook and Westchester avenues, and in One Hundred and Ninth, One Hundred and Fourteenth, One Hundred and Seventeenth, One Hundred and Eighty-eighth and One Hundred and Forty-ninth streets.....	John Cornwell, Jr., 529 East 161st street	Moses Mehrbach, 433 Grand street... Solomon Mehrbach, 154 East 24th street.	7,755 00
" 6	Paving with trap-block pavement, Ninety-fifth street, from Ninth to Tenth avenue.....	P. H. Fitzgerald, 428 West 35th street.	John B. Devlin, 8 Henderson place.	6,852 90					\$21,349 00
" 3	Paving with granite-block pavement, Eighty-first street, from Eighth to Ninth avenue.....	William A. Cumming, 5 Dey street.....	William A. Cummings, 5 Dey street.....	6,557 60					
" 11	Paving with trap-block pavement, Sixty-seventh street, from Tenth to Eleventh avenue.....	William A. Cumming, 5 Dey street.....	William A. Cummings, 5 Dey street.....	6,786 15	April 4	Furnishing and delivering stop-cocks, hydrants, wooden hydrant boxes and cast-iron stop-cock boxes.....	Guy C. Hotchkiss, Field & Co., 624 East 14th street..	Theodore Moss, 543 Madison avenue. James D. Leary, 73 William street... James Fay, 820 Third avenue. Thomas Roche, 339 E. 47th street. John M. Canda, Foot W. 52d street. George Hurst, 156 W. 54th street.	\$14,370 00
" 11	Paving with trap-block pavement, Eightieth street, from Ninth to Tenth avenue.....	William A. Cumming, 5 Dey street.....	William A. Cummings, 5 Dey street.....	6,592 04	June 22	Furnishing and delivering to the Department of Public Works 1200 cubic yards of clean, sharp Cow Bay sand.....	Michael Fay, 308 E. 52d street....	John M. Canda, Foot W. 52d street. George Hurst, 156 W. 54th street.	1,404 00
" 16	Paving with granite-block pavement, One Hundred and Twenty-ninth street, between Eighth avenue and Avenue St. Nicholas.....	P. H. McCullagh, 240 East 32d street..	Thomas Gearty, 135 East 83d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street..	2,392 40	May 9	Furnishing materials and performing work in the erection and completion of the new Gansevoort Market.....	Moran & Armstrong, 1128 First avenue....	Ransom Parker, Jr., 224 W. 11th street. Louis D. Beck, 58 Cedar street.	477,443 00
" 16	Paving with granite-block pavement, One Hundred and Seventh street, from Lexington to Fourth avenue.....	P. H. McCullagh, 240 East 32d street..	Thomas Gearty, 135 East 83d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street..	3,582 60	June 3	Furnishing and delivering to the Department of Public Works 2,000 cubic yards of Roa Hook gravel, suitable for road surfacing; also 3,200 cubic yards Roa Hook gravel bank screenings.....	George F. Doak, 10th ave. and 153d st.	Ransom Parker, Jr., 224 W. 11th street. Louis D. Beck, 58 Cedar street.	9,756 00
" 21	Paving with trap-block pavement, One Hundred and Thirty-fifth street, from Seventh to Eighth avenue.....	P. H. McCullagh, 240 East 32d street..	Thomas Gearty, 135 East 83d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street..	12,546 56	" 7	Furnishing the labor and material required for the laying of a concrete floor in the basement of Tompkins Market.....	John Cox & Co., 1485 Ninth avenue..	Daniel Buhre, Stewart Building. John Devlin, 1076 Fulton street, Brooklyn, N. Y.	2,450 00
" 21	Paving with granite-block pavement, Eighty-fifth street, from Avenue A to Avenue B.....	P. H. McCullagh, 240 East 32d street..	Thomas Gearty, 135 East 83d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street..	5,915 63	" 7	Building the foundation for house for storage of coal, between Ninety-sixth and Ninety-seventh streets, 100 feet west of Ninth avenue, and sewer through the centre of said lot and tunnel across Ninety-seventh street to vault, etc.....	Robert Hanna, 1757 10th avenue....	Robert Murray, 234 Broadway. Oscar C. Ferris, 762 Madison avenue.	24,007 10
" 21	Paving with trap-block pavement, One Hundred and Fourth street, from Ninth avenue to Boulevard.....	Leonard W. Johnson, 66 West 46th street..	Leonard W. Johnson, 66 West 46th street..	9,905 82	" 16	Furnishing and delivering to the Department of Public Works 725 cubic yards of limestone screenings, suitable for road surfacing..	William McDonald, 175th st. and 11th ave.	Patrick Meehan, 175th st., bet. Kingsbridge road and 11th avenue. Patrick Barry, 175th st. and Wadsworth avenue.	1,740 00
" 21	Paving with trap-block pavement, One Hundred and Twenty-second street, from Seventh avenue to Avenue St. Nicholas.....	Leonard W. Johnson, 66 West 46th street..	Leonard W. Johnson, 66 West 46th street..	6,831 78					\$531,170 10
" 21	Paving with trap-block pavement, Ninety-fifth street, from Second to Third avenue.....	Thomas Gearty, 135 East 83d street..	Thomas Gearty, 135 East 83d street..	4,834 67					
" 21	Paving with trap-block pavement, Ninety-seventh street, from Eighth to Ninth avenue.....	Thomas Gearty, 135 East 83d street..	Thomas Gearty, 135 East 83d street..	6,497 00					
" 21	Paving with trap-block pavement, Sixty-fourth street, from First avenue to bulkhead line of East river.....	Thomas Gearty, 135 East 83d street..	Thomas Gearty, 135 East 83d street..	9,135 67	Apr. 6	Fencing vacant lots on south side One Hundred and Twenty-second street, commencing at a point about 100 feet west of Pleasant avenue, and extending westerly about 50 feet.....	Bernard A. Roth, 402 East 122d street..		\$24 50
" 21	Paving with trap-block pavement, Ninety-first street, from First avenue to Avenue A.....	Thomas Gearty, 135 East 83d street..	Thomas Gearty, 135 East 83d street..	5,057 39	" 6	Fencing vacant lots on block bounded by One Hundred and Thirtieth and One Hundred and Forty-ninth streets, Madison to Fourth avenue.....	Bernard A. Roth, 402 East 122d street..		398 86
" 21	Paving with trap-block pavement, Ninety-sixth street, from First to Third avenue.....	Charles Guidet, 237 Broadway.....	Charles Guidet, 237 Broadway.....	20,918 24	" 6	Fencing vacant lots on block bounded by Ninety-fifth and Ninety-sixth streets, Second and Third avenues	Bernard A. Roth, 402 East 122d street..		238 63
" 23	Paving with granite-block pavement, One Hundred and Thirty-seventh street, from Eighth to St. Nicholas avenue.....	John B. Devlin, 8 Henderson place.	John B. Devlin, 8 Henderson place.	4,805 55	" 6	Fencing vacant lots on south side of One Hundred and Tenth street, between Madison and Fourth avenues.....	Bernard A. Roth, 402 East 122d street..		67 62
" 28	Paving with granite-block pavement, One Hundred and Eighteenth street, from Sixth to Seventh avenue.....	William Kelly, 460 West 51st street.	James Fitzpatrick, 529 West 42d street. Henry Kelly, 422 West 42d street.	6,932 12	" 16	Fencing vacant lots on southeast corner of Madison avenue and One Hundred and Eleventh street	Bernard A. Roth, 402 E. 122d street.....		63 21
				\$154,291 30	" 16	Fencing vacant lots on block bounded by Ninety-fourth and Ninety-fifth streets, First and Second avenues.	Bernard A. Roth, 402 E. 122d street.....		747 74
	<i>Paving Contracts under section 194, New York City Consolidation Act of 1882).</i>				" 16	Fencing vacant lots on block bounded by Avenues B and C, Eighteenth and Nineteenth streets.....	Bernard A. Roth, 402 E. 122d street.....		362 60
May 9	Paving with trap-block pavement, Bank street, from Hudson to Washington street; Renwick street, from Canal to Spring street, and Congress street, from King to Houston street.....	P. H. Fitzgerald, 428 West 35th street.	Charles Guidet, 41 Park avenue..... John White, 536 West 40th street.	\$8,599 53	" 16	Laying an additional course of flagging, three feet wide, on south side of Fifty-ninth street, between Madison and Fourth avenues....	Bernard Mahon, 2261 Seventh avenue..		423 60
" 13	Paving with trap-block pavement, Pitt street, from Stanton to Division street.....	William A. Cumming, 5 Dey street.....	James Mulry, 30 E. 81st street.... Julius A. Candee, 26th street, E. R.... Matthew Baird, 339 East 63d street.. Charles R. Parfitt, 807 Lexington ave... Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. James Fitzpatrick, 529 West 42d street. Henry Kelly, 422 West 42d street.	9,052 60	" 16	Flagging sidewalks on south side of One Hundred and Thirtieth street, between Fourth and Lexington avenues, etc.....	Bernard Mahon, 2261 Seventh avenue..		255 00
" 17	Paving with granite-block pavement, Wooster street, from Canal to Bleeker street.....	William J. Clark, 339 East 63d street.	Charles R. Parfitt, 807 Lexington ave... Thomas Gearty, 135 East 83d street.. Farrell Dorrity, 240 East 32d street.. James Fitzpatrick, 529 West 42d street. Henry Kelly, 422 West 42d street.	20,071 36	" 16	Regulating and grading, etc., west side of Edgecomb avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets.....	Bernard Mahon, 2261 Seventh avenue..		655 30
" 26	Paving with trap-block pavement, William street, from Duane to North William street.....	P. H. McCullagh, 240 East 32d street.	Farrell Dorrity, 240 East 32d street.. James Fitzpatrick, 529 West 42d street. Henry Kelly, 422 West 42d street.	2,243 50	" 25	Fencing vacant lots on north side of One Hundred and Tenth street, between Fourth and Madison avenues.....	Bernard A. Roth, 402 E. 122d street.....		24 50
" 27	Paving with granite-block pavement, Thirty-eighth street, from Eighth to Tenth avenue.....	William Kelly, 460 West 51st street.	Henry Kelly, 422 West 42d street.	13,063 74	" 25	Fencing vacant lots on block bounded by One Hundred and Eighth and One Hundred and Ninth streets, First and Second avenues.....	Bernard A. Roth, 402 E. 122d street.....		425 81
" 27	Paving with granite-block pavement, Twentieth street, from Ninth to Tenth avenue, and Thirty-first street, from Ninth to Tenth avenue.....	William Kelly, 460 West 51st street.	James Fitzpatrick, 529 West 42d street. Henry Kelly, 422 West 42d street.	13,009 08	" 25	Fencing vacant lots south side One Hundred and Twenty-second street, commencing about 174 feet west of Seventh avenue, and extending about 498 feet toward Eighth avenue.....	Bernard A. Roth, 402 East 122d street...		196 00
" 16	Paving with granite-block pavement, Tenth avenue, from Sixty-fourth to Seventy-first street.....	John G. Smith, 329 West 48th street.	Henry A. Childs, 113 West 34th street. James Slattery, 218 West 57th street.	27,488 20	" 28	Flagging south side One Hundred and Twenty-second street, from First avenue to Avenue A.....	John S. Masterson, 110 West 130th street..		312 96
				\$93,528 01	" 28	Regulating, grading, etc., One Hundred and Twenty-ninth street, from Twelfth avenue to Hudson River Railroad.....	John S. Masterson, 110 West 130th street..		402 95
	<i>Taking up and Relaying Pavement Contracts.</i>				" 29	Laying crosswalks across the north and south and east and west sides of Tenth avenue and One Hundred and Thirtieth street.....	Bernard Mahon, 2261 Seventh avenue..		653 50
May 6	Taking up and relaying the pavement in Seventy-ninth street, between Fourth and Lexington avenues; Eighty-first street, between Second and Madison avenues; One Hundred and Fourteenth street, between Lexington and Fourth avenues; One Hundred and Seventeenth street, between First and Pleasant avenues.....	George F. Doak, Broadway, near 129th street.....	Ransom Parker, Jr., 224 W. 11th street... Louis D. Beck, 58 Cedar street.....	\$4,862 23	" 29	Laying crosswalks across Tenth avenue, on the northerly and southerly sides of One Hundred and Forty-first street.....	Bernard Mahon, 2261 Seventh avenue..		275 50
" 6	Taking up and relaying the pavement in Twenty-second street, between Fifth and Sixth avenues; Fifty-fifth street, from Sixth avenue to 280 feet easterly; Fifty-fourth street, between Fifth and Sixth avenues; Fifty-fifth street, between First and Second avenues; Fifty-seventh street, between Fifth and Madison avenues; Sixty-first street, between Fourth and Lexington avenues.....	George F. Doak, Broadway, near 129th street.....	Ransom Parker, Jr., 224 W. 11th street... Louis D. Beck, 58 Cedar street.....	5,111 28	May 6	Fencing vacant lots on block bounded by One Hundred and Eleventh and One Hundred and Twelfth streets, Madison to Fifth avenue.	Bernard A. Roth, 402 E. 122d street.....		313 60
" 6	Taking up and relaying the pavement in Liberty street, from Nassau street to 210 feet westerly; Cortlandt street, between Broadway and Church street; Frankfort street, from Pearl to Cliff street; Murray street, between Broadway and Church street; Warren street, between Broadway and Church street; Leonard street, between Broadway and West Broadway; Franklin street, between Broadway and Church street.....	George F. Doak, Broadway, near 129th street.....	Ransom Parker, Jr., 224 W. 11th street... Louis D. Beck, 58 Cedar street.....	4,334 64	" 7	Regulating, grading, etc., One Hundred and Twenty-eighth street, from Eighth avenue to Avenue St. Nicholas.....	George F. Masterson, 110 West 130th street..		997 41
				\$14,308 15	" 9	Fencing vacant lots on block bounded by One Hundred and Twenty-second to One Hundred and Twenty-third street, St. Nicholas to Manhattan avenue.....	Bernard A. Roth, 402 East 122d street...		379 26
					" 9	Fencing vacant lots on block bounded by One Hundred and Twenty-third and One Hundred and Twenty-fourth streets, Manhattan and Ninth avenues.....	Bernard A. Roth, 402 East 122d street...		136 71
					" 12	Sewer in One Hundred and Eighteenth street, between Seventh avenue and Avenue St. Nicholas..	Bernard Mahon, 2261 Seventh avenue..	A. Bigelow Kellogg, Stewart Building....	990 00
					" 12	Sewer in Irving place, between Fifteenth and Sixteenth streets....	Bernard Mahon, 2261 Seventh avenue..	A. Bigelow Kellogg, Stewart Building....	997 60
					" 12	Sewer in Third avenue, between Twenty-first and Twenty-second streets.....	Bernard Mahon, 2261 Seventh avenue..	A. Bigelow Kellogg, Stewart Building....	983 00
					" 13	Fencing vacant lots on Ninety-ninth street, from Ninth to Tenth avenue, both sides.....	Bernard A. Roth, 402 East 122d street...		398 86



Date of Contract.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.	DATE.	NATURE.	LOCATION OF WORK.	TOTAL COST.
May 13	Fencing vacant lots on west side of Seventh avenue, from One Hundred and Twenty-eighth to One Hundred and Twenty-ninth street, and extending in One Hundred and Twenty-eighth street on north side about 100 feet, and extending in One Hundred and Twenty-ninth street on south side about 75 feet.	Bernard A. Roth,		\$183 75	May 13	Fencing vacant lots.	On block bounded by One Hundred and Eighth and One Hundred and Ninth streets, First and Second avenues.	\$539 10
" 17	Receiving-basin on the northeast corner of Nineteenth street and Avenue B.	Patrick Larney,	Henry Kohlmann.	244 40	" 14	Paving.	Seventieth street, from Avenue A to First avenue.	7,759 01
" 17	Receiving-basin on northwest corner of One Hundred and Twenty-fifth street and First avenue.	Patrick Larney,	Henry Kohlmann.	285 25	" 14	Fencing vacant lots.	On block bounded by One Hundred and Twelfth and One Hundred and Thirteenth streets, Seventh to Eighth avenue.	1,096 01
" 19	Fencing vacant lots on block bounded by One Hundred and Eighteenth and One Hundred and Nineteenth streets, St. Nicholas and Eighth avenues, where not already done.	Bernard A. Roth,		549 78	" 14	Paving.	Seventy-fifth street, from Tenth avenue to Boulevard.	2,674 22
" 20	Completing unfinished sewer in One Hundred and Thirty-first street, between Broadway and Tenth avenue.	Bernard Mahon,	Walter J. Ford, Stewart Building.	350 00	" 14	Regulating and grading.	One Hundred and Thirty-seventh street, from Eighth to St. Nicholas avenue.	2,299 43
June 3	Fencing vacant lots on block bounded by One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets, Seventh and Eighth avenues, where not already done.	Bernard A. Roth,		987 83	" 14	Flagging, etc.	Sixty-second street, from Boulevard to Eighth avenue.	1,239 98
" 3	Fencing the vacant lots in the block bounded by One Hundred and Seventeenth and One Hundred and Eighteenth streets, St. Nicholas and Eighth avenues, where not already done.	Bernard A. Roth,		693 00	" 16	Fencing vacant lots.	On north side One Hundred and Tenth street, between Madison and Fourth avenues.	27 50
" 7	Repairs to sewer in Eighty-first street, between Eighth and Ninth avenues.	Bernard Mahon,	Walter J. Ford, Stewart Building.	998 00	" 16	Paving.	Sixty-sixth street, from Boulevard to Tenth avenue.	5,198 49
" 7	Receiving-basins and alterations to manholes north and south sides of Counties Slip, between Front and South streets.	R. A. Cunningham,	William H. Taylor,	992 76	" 16	Laying crosswalks.	Across Pleasant avenue at or near the southerly and northerly intersections of One Hundred and Fiftieth street.	365 02
" 7	Repairs to sewer in Avenue B, etc., from Nineteenth street to first manhole in Twentieth street, west of Avenue B.	R. A. Cunningham,	William H. Taylor,	879 00	" 16	Paving.	One Hundred and First street, from Second to Third avenue.	4,574 01
" 9	Sewer in Hudson street, west side, between Horatio and Garzevoort streets.	James E. Byrne,	Morris Jacoby,	1,012 50	" 19	Regulating and grading.	In One Hundredth street, between Boulevard and West End avenue.	1,030 87
" 10	Receiving-basin, northeast corner One Hundred and Thirteenth street and Tenth avenue.	John Slattery,	P. H. Slattery,	311 50	" 19	Fencing vacant lots.	Sixty-ninth street, from Eighth to Ninth avenue.	13,726 90
" 10	Receiving-basin, northeast corner One Hundred and Twenty-third street and Eighth avenue.	R. A. Cunningham,	William H. Taylor,	240 50	" 20	Regulating and grading.	On the block bounded by One Hundred and Twenty-third and One Hundred and Twenty-fourth streets, Manhattan and Ninth avenues.	157 01
" 16	Fencing vacant lots in block bounded by One Hundred and Thirty-fifth and One Hundred and Thirty-sixth streets, Seventh to Eighth avenue.	Bernard A. Roth,		870 37	" 20	Sewer.	In One Hundred and Eighteenth street, between Fifth and Sixth avenues.	5,233 04
" 13	Laying an additional course of flagging, four feet wide, on east side of Edgecomb avenue, from north side of One Hundred and Thirty-fifth to the south side of One Hundred and Thirty-sixth street, alongside of present flagging.	Bernard Mahon,		280 20	" 20	Fencing vacant lots.	In Ninety-seventh street, between Ninth avenue and summit west of Ninth avenue.	5,476 64
" 20	Fencing vacant lots in the block bounded by One Hundred and Eleventh and One Hundred and Twelfth streets, Seventh and Eighth avenues.	Bernard A. Roth,		870 50	" 20	Regulating and grading.	On block bounded by One Hundred and Eleventh and One Hundred and Twelfth streets, Madison to Fifth avenue.	352 97
" 28	Fencing vacant lots in block bounded by One Hundred and Seventeenth and One Hundred and Eighteenth streets, Sixth and Seventh avenues.	Bernard A. Roth,		911 33	" 21	Paving.	One Hundred and Forty-ninth street, from Seventh to Eighth avenue.	8,975 73
" 28	Fencing vacant lots in block bounded by One Hundred and Nineteenth streets, Sixth and Seventh avenues.	Bernard A. Roth,		545 00	" 21	Flagging.	West Fifty-fifth street, from present pavement to bulkhead line at North river.	270 67
				\$21,930 39	" 23	Regulating and grading.	Fifty-ninth street, from Madison to Fourth avenue.	262 00

## RECAPITULATION.

13 Sewer Contracts.	\$60,615 70
10 Regulating and Grading Contracts.	26,527 41
20 Paving Contracts.	154,291 30
7 Paving Contracts (under section 194, New York Consolidation Act, 1882).	93,528 01
3 Taking Up and Relaying Pavement Contracts.	14,308 15
2 Laying Water-main Contracts.	21,349 00
7 Miscellaneous Contracts.	531,479 00
43 Special Contracts.	21,930 39
105 Contracts.	\$923,720 06

## Contracts Completed during the Three Months ending June 30, 1887.

DATE.	NATURE.	LOCATION OF WORK.	TOTAL COST.
Apr. 11	Furnishing and delivering ice.	To the Department of Public Works, for eight months ending December 31, 1886.	\$1,613 07
" 12	Building foot bridge and retaining walls and grading.	Fourth avenue, at Ninety-eighth street.	19,043 61
" 13	Fencing vacant lots.	On block bounded by One Hundred and Thirty-first and One Hundred and Thirty-second streets, Madison and Fifth avenues.	714 75
" 13	Receiving-basins.	On southwest corners of Eightieth and Eighty-first streets and Avenue A.	486 41
" 13	"	On southwest corner of Sixty-second street and Avenue A.	252 15
" 20	Fencing vacant lots.	On south side of One Hundred and Tenth street, between Fourth and Madison avenues.	75 38
" 20	"	On block bounded by One Hundred and Sixth and One Hundred and Seventh streets, Fourth to Madison avenue.	686 72
" 23	"	On block bounded by Ninety-fifth and Ninety-sixth streets, Second and Third avenues.	271 08
" 23	"	On block bounded by One Hundred and Thirteenth and One Hundred and Fourteenth streets, Fourth and Madison avenues.	452 37
" 26	"	On south side One Hundred and Twenty-second street, commencing at a point about 100 feet west of Pleasant avenue, and extending easterly about 50 feet.	28 21
" 26	Furnishing cast-iron water-pipes, branch pipes and special castings.	On northeast and southeast corners of One Hundred and Eighth street and Lexington avenue.	12,935 58
" 26	Receiving-basins.	On southeast corner of Madison avenue and One Hundred and Eleventh street.	440 31
" 27	Fencing vacant lots.	On southeast corner of Madison avenue and One Hundred and Eleventh street.	72 41
May 2	Regulating and grading.	One Hundred and Seventh street, from Boulevard to Tenth avenue.	3,053 77
" 4	Fencing vacant lots.	On block bounded by Ninety-fourth and Ninety-fifth streets, First and Second avenues.	843 78
" 6	Sewer.	In One Hundred and Third street, between Ninth and Tenth avenues.	7,503 10
" 10	Receiving-basins.	On the northeast and northwest corners of One Hundred and Twenty-third street and Manhattan avenue.	464 71
" 10	"	On the southeast corner of One Hundred and Twenty-third street and Manhattan avenue.	256 63
" 11	Regulating and grading.	Eighty-second street, from Boulevard to Riverside Drive.	7,561 17
" 12	Paving.	Eighty-eighth street, from First to Second avenue.	6,358 76
" 13	"	Ninety-third street, from Ninth to Tenth avenue.	8,942 67
" 13	Fencing vacant lots.	South side of One Hundred and Twenty-second street, about 174 feet west of Seventh avenue and extending about 498 feet toward Eighth avenue.	236 87
" 13	Flagging.	South side One Hundred and Thirtieth street, between Fourth and Lexington avenues.	268 68

" 13	Flagging.	South side One Hundred and Thirtieth street, between Fourth and Lexington avenues.	268 68
" 14	Paving.	Seventieth street, from Avenue A to First avenue.	7,759 01
" 14	Fencing vacant lots.	On block bounded by One Hundred and Twelfth and One Hundred and Thirteenth streets, Seventh to Eighth avenue.	1,096 01
" 14	Paving.	Seventy-fifth street, from Tenth avenue to Boulevard.	2,674 22
" 14	Regulating and grading.	One Hundred and Thirty-seventh street, from Eighth to St. Nicholas avenue.	2,299 43
" 14	Flagging, etc.	Sixty-second street, from Boulevard to Eighth avenue.	1,239 98
" 14	Fencing vacant lots.	On north side One Hundred and Tenth street, between Madison and Fourth avenues.	27 50
" 16	Paving.	Sixty-sixth street, from Boulevard to Tenth avenue.	5,198 49
" 16	Laying crosswalks.	Across Pleasant avenue at or near the southerly and northerly intersections of One Hundred and Fiftieth street.	365 02
" 16	Paving.	One Hundred and First street, from Second to Third avenue.	4,574 01
" 19	Sewer.	In One Hundredth street, between Boulevard and West End avenue.	1,030 87
" 19	Regulating and grading.	Sixty-ninth street, from Eighth to Ninth avenue.	13,726 90
" 19	Fencing vacant lots.	On the block bounded by One Hundred and Twenty-third and One Hundred and Twenty-fourth streets, Manhattan and Ninth avenues.	157 01
" 20	Sewer.	In One Hundred and Eighteenth street, between Fifth and Sixth avenues.	5,233 04
" 20	"	In Ninety-seventh street, between Ninth avenue and summit west of Ninth avenue.	5,476 64
" 20	Fencing vacant lots.	On block bounded by One Hundred and Eleventh and One Hundred and Twelfth streets, Madison to Fifth avenue.	352 97
" 20	Regulating and grading.	One Hundred and Forty-ninth street, from Seventh to Eighth avenue.	8,975 73
" 21	Paving.	West Fifty-fifth street, from present pavement to bulkhead line at North river.	270 67
" 23	Flagging.	Fifty-ninth street, from Madison to Fourth avenue.	262 00
" 27	Regulating and grading.	One Hundred and Thirty-seventh street, from Seventh to Eighth avenue.	5,012 92
" 27	Laying water-mains.	In Broadway and Tenth, Ninth, Eighth, Sixth, Fourth and Riverside avenues, and in Eighty-eighth street.	7,121 34
" 28	Fencing vacant lots.	In block bounded by One Hundred and Twenty-second and One Hundred and Twenty-third streets, St. Nicholas to Manhattan avenue.	428 78
June 1	Paving.	Sixty-seventh street, from Second to Third avenue.	6,198 14
" 1	Regulating and grading.	One Hundred and First street, from Eighth to Manhattan avenue.	2,468 25
" 6	Fencing vacant lots.	On block bounded by One Hundred and Eighteenth and One Hundred and Nineteenth streets, St. Nicholas and Eighth avenues.	627 88
" 6	Flagging.	South side of One Hundred and Twenty-second street, from First avenue to Avenue A.	391 11
" 6	Receiving-basin.	On southeast corner of Twenty-first street and Thirtieth avenue.	256 38
" 6	Sewer.	In One Hundred and Forty-third street, between Seventh and Eighth avenues.	5,207 09
" 6	Paving.	One Hundred and Thirty-fifth street, from Eighth to St. Nicholas avenue.	7,075 75
" 9	"	Seventy-first street, from Eastern Boulevard to East river.	6,597 17
" 9	Sewer.	In Lexington avenue, between One Hundred and Twenty-second and One Hundred and Twenty-third streets.	2,180 62
" 10	Regulating and grading.	West side of Edgecomb avenue, between One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets.	719 83
" 10	Flagging.	Seventieth street, from Ninth to Tenth avenue.	493 23
" 15	Paving.	One Hundred and Thirty-second street, from Madison to Fifth avenue.	2,790 29
" 15	"	Seventy-third street, from Avenue A to First avenue.	7,788 61
" 18	"	One Hundred and Fifty-fifth street, from Avenue St. Nicholas to St. Nicholas place.	10,683 44
" 18	Regulating and grading.	One Hundred and Fourteenth street, from Fourth to Fifth avenue.	23,345 00
" 18	"	Eighty-first street, from Avenue A to Avenue B.	2,924 40
" 18	"	Ninety-fifth street, from Eighth to Ninth avenue.	1,976 00
" 18	Sewer.	In One Hundred and Seventeenth street, between Fifth and Sixth avenues; in Avenue St. Nicholas, between One Hundred and Sixteenth and One Hundred and Seventeenth streets, and in One Hundred and Seventeenth street, between Avenue St. Nicholas and Eighth avenue.	10,347 60
" 20	Fencing vacant lots.	On block bounded by One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets, Seventh and Eighth avenues.	1,108 59
" 21	Paving.	One Hundred and Thirty-first street, from Sixth to Seventh avenue.	7,928 17
" 21	Regulating and grading.	One Hundred and Fourteenth street, from Tenth avenue to Riverside Drive.	13,059 21
" 21	Paving.	Eighty-third street, from Boulevard to Riverside Drive.	8,782 72
" 21	"	One Hundred and Twenty-first street, from Sixth to Seventh avenue.	7,022 57
" 21	"	Ninety-first street, from Fourth to Fifth avenue.	9,018 93
" 25	Laying crosswalks.	Across Tenth avenue, at northerly and southerly sides of One Hundred and Forty-first street.	306 96
" 25	Paving.	One Hundred and Second street, from Lexington to Fifth avenue.	13,952 32
" 25	Regulating and grading.	One Hundred and Twelfth street, from Eighth to New avenue.	5,825 66
" 25	Receiving-basin.	On northwest corner of One Hundred and Twenty-fifth street and First avenue.	281 46
" 25	"	On northeast corner of Nineteenth street and Avenue B.	263 43
" 20	Furnishing and delivering 1200 cubic yards of clean, sharp Cow Bay sand.		1,388 14
" 27	Paving.	William street, from Duane to North William street.	1,083 50
" 25	"	Eighty-seventh street, from Madison to Park avenue.	3,770 73
" 27	Repairing sidewalks.	On north-east corner of Elm and White streets.	1,472 72
" 29	Fencing vacant lots.	On block bounded by Avenues B and C, Eighteenth and Nineteenth streets.	420 78
" 30	Taking up and relaying pavement.	In Liberty street, from Nassau street to 210 feet westerly; Cortlandt street, between Broadway and Church street; Frankfort street, from Pearl to Cliff street; Murray street, from Broadway to Church street; Warren street, between Broadway and Church street; Leonard Street, between Broadway and West Broadway; Franklin street, between Broadway and Church street.	4,275 91
	Total.		\$319,316 09

## RECAPITULATION.

7 Sewer Contracts.	\$36,978 96
14 Regulating and Grading Contracts.	92,941 14
18 Paving Contracts.	127,120 70
1 Repaving Contracts.	1,083 50
4 Miscellaneous Contracts.	34,280 40
1 Laying Water-main Contract.	7,121 34
1 Taking Up and Relaying Pavement Contract.	4,275 91
34 Special Contracts.	13,914 14
80 Contracts.	\$319,316 09

## 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 5, 1887.

Gen. JOHN NEWTON, Commissioner of Public Works:

DEAR SIR—In compliance with your instructions, I submit the following report for the quarter ending June 30, 1887:

## EXPENDITURES.

Aqueduct—Repairs, Maintenance and Strengthening.	\$57,823 54
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.	6,509 86
Bronx River Works—Maintenance and Repairs.	2,832 80
Bronx River Works—Maintenance and Repairs—Salaries.	975 00
Croton Water Fund.	42,331 25



Iron Bridge over Fourth avenue, at Ninety-eighth street.....	\$5,651 41
Laying Croton Pipes.....	31,301 46
Laying Croton Pipes—Salaries.....	3,712 48
Repairing and Renewal of Pipes, Stop-cocks, etc.....	13,072 02
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	2,247 99
Water Supply—Twenty-fourth Ward.....	1,315 02
Water Meter Fund No. 2.....	4,184 97
<b>Total.....</b>	<b>\$171,957 80</b>

## STORAGE RESERVOIRS.

The Croton river furnished a full supply of water to the Aqueduct, except from June 15, 1887 to June 23, 1887.

## Storage Drawn during the Quarter.

Boyd's Corner Reservoir.....	Gallons. 110,000,000
Southeast Reservoir.....	50,000,000
Kensico Reservoir.....	500,000,000
<b>Total.....</b>	<b>660,000,000</b>

## Rain-fall—Inches.

	APRIL.	MAY.	JUNE.	TOTAL FOR QUARTER.
Boyd's Corners Reservoir.....	3.47	0.32	7.70	11.49
South East Reservoir.....	2.90	0.30	6.26	9.46
Kensico Reservoir.....	2.78	0.30	8.95	11.23
Central Park Reservoirs.....	2.84	0.29	8.21	11.34
Croton Dam.....	3.52	0.03	6.77	10.32

## BRONX RIVER SUPPLY.

The Commissioners appointed to appraise damages on the Bronx river, from White Plains to Bronxville, have made their report, which will be confirmed by the Supreme Court, July 30, 1887. Application will be made to the Supreme Court, July 23, 1887, for the appointment of a Commission to appraise damages on the Bronx river from Bronxville to Woodlawn, caused by the diversion of the water at Kensico.

Searches and maps are being made of the property along the Bronx river from Woodlawn to West Farms. The work on the Williamsbridge Reservoir commenced in April and has been carried on by a small force. At the present rate of working it will take at least two years to complete same.

The conduit has furnished to the city during the quarter 1,362,000,000 gallons of water. The conduit, roads, fences and reservoirs have been kept in order by two gangs of men.

## AQUEDUCT—REPAIRS, MAINTENANCE AND STRENGTHENING.

## Amount of Work Done during the Quarter.

DIVISION.	Earth Excavation.	Stone Quarried.	Dry Masonry.	FENCE.		Arching Aqueduct.	Filling, Grading, etc.	Stone Masonry.	Cut-stone Masonry.	Brick Masonry.	Paving.	Sodding.	Flagging.	Concrete.
				Repaired.	Built.									
	Cu. yds.	Cu. yds.	Cu. yds.	Lin. feet.	Lin. feet.	Lin. feet.	Cu. yds.	Cu. yds.	Cu. feet.	Cu. yds.	Sq. yds.	Sq. yds.	Sq. feet.	Cu. yds.
First.....	...	...	...	...	2,231	...	...	...	...	...	...	...	...	...
Second.....	100	...	270	10,896	2,640	...	...	...	...	...	...	...	...	...
Third.....	...	400	306	...	...	...	...	...	...	...	...	...	...	...
Fourth.....	...	...	...	1,075	130	...	350	...	...	...	...	...	...	...
Fifth.....	751	...	140	5,000	2,000	...	350	352	...	4	27	500	231	...
Sixth.....	350	768	617	2,227	2,639	535	...	...	...	79	...	...	...	...
Seventh.....	94	375	84	...	...	...	676	125	1,096	...	...	...	...	100
Eighth.....	...	...	...	840	910	...	...	...	...	...	...	...	...	...
<b>Total.....</b>	<b>1,295</b>	<b>1,543</b>	<b>1,417</b>	<b>20,038</b>	<b>10,550</b>	<b>535</b>	<b>1,376</b>	<b>477</b>	<b>1,096</b>	<b>83</b>	<b>27</b>	<b>500</b>	<b>231</b>	<b>100</b>

The usual work of repairs and maintenance has been carried on. This includes the care of Croton Lake, the gate-houses, reservoirs, pumping stations and High Bridge; the care of aqueduct, tending and treating the leaks, building fences, etc.

The particular work may be summarized, as follows:

First Division—Repairing apron below dam; repairing bridge; policing vicinity of Croton Dam.

Second Division—Building walls in the vicinity of Quaker Bridge, and laying telephone cable.

Third Division—Building wall at Arch Bank and quarrying stone for same. The Aspinwall leak continues to give a great deal of trouble.

Fourth Division—Grading at Minturn's Bank.

Fifth Division—Building dry walls above Glenwood avenue; laying 36-inch iron pipe to carry water from culvert at the Glen to the Saw Mill river; building masonry wall in the Glen; paving gutters, etc.

Sixth Division—Building walls in "Long Lot"; arching in "Long Lot" and O'Brien's Bank; the care of the numerous leaks on this division, and quarrying stone for walls.

Seventh Division—Care of High Bridge, pumps and reservoir; concreting platforms of High Bridge steps; grading around steps; hoisting coal; quarrying on Tenth avenue side of reservoir; building walls around High Bridge Tower.

Eighth Division—Care of Central Park and Forty-second street reservoirs, and Ninth and Tenth avenue gate-houses; cleaning bottom of old reservoir; painting machinery and fences.

## LAYING CROTON PIPES.

Contracts for laying Croton pipes in the following streets and avenues have been completed: Riverside avenue, between One Hundred and Thirteenth and One Hundred and Twenty-fifth streets.

Broadway, between Riverside avenue and Church street.

Ninth avenue, between One Hundred and First and One Hundred and Fourth streets.

Eighth avenue, between Eighty-fourth and Ninetieth streets.

Sixth avenue, west side, between One Hundred and Sixteenth and One Hundred and Nineteenth streets.

Sixth avenue, between One Hundred and Twenty-first and One Hundred and Twenty-second streets.

Fourth avenue, between Seventy-fifth and Seventy-seventh streets.

Tenth avenue, between Eighty-third and Eighty-seventh streets.

Tenth avenue, between Eighty-eighth and Ninetieth streets.

Eighty-eighth street, between Tenth avenue and Boulevard.

Sedgwick avenue, between Kingsbridge road and Boston avenue.

Tenth avenue, between Ninetieth and Ninety-sixth streets.

Sixth avenue, between One Hundred and Forty-first and One Hundred and Forty-fifth streets.

One Hundred and Eighty-fourth street, between McComb's Dam road and Sedgwick avenue.

One Hundred and Sixty-fourth street, between Boston avenue and Delmonico place.

Seventy-fifth street, between Avenue A and East river.

Eleventh avenue, between Eighty-first and Eighty-third streets.

Eighty-eighth street, between Ninth and Tenth avenues.

One Hundred and Fortieth street, between Willis and Brook avenues.

Two contracts for laying pipe, one contract for stop-cocks, hydrants, etc., and one contract for building foundation for coal-house at Ninety-seventh and Ninety-sixth streets, near Ninth avenue, have been entered into.

## Amount of Pipe Laid during the Quarter.

12-inch pipe.....	10,916 lineal feet.
6-inch pipe.....	7,830 "
<b>Total laid.....</b>	<b>18,746 lineal feet.</b>
12-inch stop-cocks set.....	8
6-inch stop-cocks set.....	19
Hydrants placed.....	27

## METERS.

Number of meters placed during the quarter.....	502
Number of meters in use March 31, 1887.....	15,037
<b>Total number in use June 30, 1887.....</b>	<b>15,539</b>

Owing to decrease of waste and large rain-fall in the Bronx River Valley the reservoirs in Central Park gained during April and part of May six feet of water; and during the dry weather of the latter part of May and warm weather during June, one foot of same has been lost by increased use.

The repairing and placing of Navarro meters has been commenced.

A gang of men have been employed replacing water-mains, taps and service-pipes on South, West, Morris and Rector streets, where they were corroded by salt and brackish water.

Yours respectfully,

G. W. BIRDSALL, Chief Engineer Croton Aqueduct.

## Document "E."

## REPORT OF THE WATER PURVEYOR.

DEPARTMENT OF PUBLIC WORKS,  
WATER PURVEYOR'S OFFICE, No. 31 CHAMBERS STREET, ROOM 1,  
NEW YORK, July 5, 1887.

Gen. JOHN NEWTON, Commissioner of Public Works:

SIR—I have the honor to submit the following report of the transactions of this Bureau during the quarter ending June 30, 1887.

## RECEIPTS.

For Vault Permits.....	\$29,173 67
For Labor and Materials Furnished.....	100 93
For use of Steam Road-roller.....	35 00
<b>Total received and deposited in the City Treasury.....</b>	<b>\$29,309 60</b>

## EXPENDITURES.

On account of:

Public Drinking-hydrants, 1886.....	\$735 00
Public Drinking-hydrants, 1887.....	738 31
Public Drinking-hydrants—Salaries.....	249 99
Repaving Streets and Avenues, 1886.....	10,199 44
Repaving Streets and Avenues, 1887.....	5,463 50
Repaving Streets and Avenues—Salaries.....	906 00
Repaving Fifth Avenue.....	54,632 13
Repairs and Renewal of Pavements, etc., 1886.....	3,564 31
Repairs and Renewal of Pavements, etc., 1887.....	21,475 64
Repairs and Renewal of Pavements, etc.—Salaries.....	3,012 76
Repairing and Renewal of Pipes, Stop-cocks, etc.....	19,459 61
Wells and Pumps—Repairing and Cleaning.....	75 57
Contingencies—Department of Public Works.....	20 00
Restoring and Repaving—Special Fund—Department of Public Works.....	10,619 75
Fund for Local Improvements.....	1,252 23
Street Improvement Fund.....	131,863 13
<b>Total.....</b>	<b>\$264,267 37</b>

## REPAIRS AND RENEWAL OF PAVEMENTS AND REGRADING.

The average force employed on repairs to street pavements, etc., during the quarter was as follows:

In April, 60 men and 8 carts.

In May, 65 men, 8 carts and 2 teams.

In June, 395 men, 75 carts and 2 teams.

The regular repair force was organized on the 9th day of June, and is now engaged in making general repairs throughout the city, special attention being given to all complaints from citizens received either personally or by letter. 42,136 square yards of pavement were repaired.

It has been found that in many streets where general repairs were needed, requiring the pavement to be taken up and relaid from curb to curb, that the work could be more economically performed by contract than by day's work, thus confining the repair force mainly to the work of patching and repairing dangerous places.

The following-named streets have been relaid by contract during the quarter:

Wall street, from Broadway to Broad street.

Liberty street, from Nassau street to 210 feet westerly.

Cortlandt street, from Broadway to Church street.

Frankfort street, from Pearl to Cliff street.

Murray street, from Broadway to Church street.

Warren street, from Broadway to Church street.

Leonard street, from Broadway to West Broadway.

Franklin street, from Broadway to Church street.

Twenty-second street, between Fifth and Sixth avenues.

Thirty-first street, between Broadway and Sixth avenue.

Forty-sixth street, between Third and Lexington avenues.

Forty-sixth street, between Madison and Fifth avenues.

Forty-eighth street, between Broadway and Seventh avenue.

Fiftieth street, between Fifth and Sixth avenues.

Sixtieth street, between Third and Lexington avenues.

Sixty-first street, between Boulevard and Ninth avenue.

Sixty-ninth street, between Lexington and Third avenues.

Seventy-fifth street, between Madison and Fifth avenues.

Eightieth street, between Third and Lexington avenues.

Eightieth street, between Fifth and Madison avenues.

Eighty-third street, between Third and Lexington avenues.

The quantities of work done are as follows:

22,591 square yards of pavement relaid.

496 square feet of new bridge laid.

Cost, \$10,566.37, or about 47 cents per square yard.

The asphalt pavements have been in fair order during the quarter, having been repaired during the previous quarter. A few repairs are now necessary and they will be made during the present month.

The roadway of Chambers street, from Broadway to Centre street, which was repaired with asphalt pavement in October last, will not come under the care of this Bureau for several years; the terms of the contract requiring it to be kept in good repair for the term of ten years from date of completion.

It has been the custom for citizens to apply to this Bureau for permits to repair pavements at their own expense, under the supervision of the Bureau, and 32 of such permits were issued during the quarter.

In order to protect the pavements from injury it has been found necessary to require parties desiring to build fires in the streets for the purpose of heating tar or other materials for roofing, etc., to procure permits for the same and to notify me twenty-four hours in advance where the fires are to be built.

152 of such permits have been issued during the quarter, and inspectors from this office have visited each place and seen that the pavement was properly protected. But one permit was revoked on account of failure to comply with the conditions prescribed in the permit.



The practice of driving stakes and placing guy posts in the street pavements by builders has been regulated, by requiring parties to procure permits for the purpose from this Bureau, on condition that they will properly restore the pavement when the said stakes or posts have been removed. 188 of such permits were issued during the quarter, and Inspectors were detailed from this office to see that the conditions were complied with.

## REPAVING STREETS AND AVENUES.

Owing to the late date on which the usual recommendation of the Commissioner of Public Works was adopted by the Board of Aldermen, and approved by the Mayor, May 2, 1887, no work has yet been done, but a number of the streets authorized to be repaved are now advertised for public letting, and bids for the same will be opened in a few days.

The work of repaving a number of streets authorized in 1886 could not be done last year, in consequence of an insufficient appropriation for the purpose; these were placed under contract early this year, and the following have been completed:

Pitt street, from Stanton to Division street.  
Bank street, from Hudson to Washington street.  
William street, from Duane to North William street.  
The quantities of work done are as follows:  
6,755 square yards of pavement laid.  
858 square feet of new bridge stone laid.

The contract for repaving William street, from Duane to North William street, was signed June 28, 1886, and abandoned by John Kearny, contractor. It was readvertised and relet to P. H. McCullagh, on May 19, 1887, and the work was completed June 25, 1887. The excess of cost over the first contract was \$771.46, for which amount the sureties on Kearny's contract are liable.

The following-named streets are under contract to be repaved, the first four of which are now in progress, and the others will soon be commenced:

Sixth street, from Bowery to Avenue B.  
Renwick street, from Canal to Spring street.  
Congress street, from King to Houston street.  
Tenth avenue, from Sixty-fourth to Seventy-first street.  
Wooster street, from Canal to Bleecker street.  
Twentieth street, from Ninth to Tenth avenue.  
Thirty-first street, from Ninth to Tenth avenue.  
Thirty-eighth street, from Eighth to Tenth avenue.

## REPAVING FIFTH AVENUE, CHAP. 371, LAWS OF 1885.

This work is being prosecuted under the direction of General Roy Stone, Engineer, and is rapidly approaching completion.

The quantities of work done during the quarter is as follows:

15,473 square yards of pavement laid.  
2,506 cubic yards of concrete laid.  
7,922 square feet of bridge-stone laid.  
1,254 lineal feet of new curb set.  
7,730 lineal feet of old curb reset.  
2,784 square yards of repavement adjoining intersections.

## STREET IMPROVEMENT FUND.

A large number of contracts were awarded late in the fall of last year, for the construction of new pavements, payable from assessments on the property benefited, and, with the exception of five contracts, have all been completed since April 15, last, when the work of paving was resumed.

New pavements were laid during the quarter in the following-named streets:

Washington street, from Little West Twelfth to Fourteenth street.  
West Fifty-fifth street, near North river.  
Sixty-sixth street, from Boulevard to Tenth avenue.  
Sixty-seventh street, from Second to Third avenue.  
Seventieth street, from Avenue A to First avenue.  
Seventy-first street, from Eastern Boulevard to East river.  
Seventy-third street, from Avenue A to First avenue.  
Seventy-fourth street, from Boulevard to Eleventh avenue.  
Seventy-fifth street, from Tenth avenue to Boulevard.  
Eighty-third street, from Boulevard to Riverside Drive.  
Eighty-seventh street, from Madison to Park avenue.  
Eighty-eighth street, from First to Second avenue.  
Ninety-first street, from Fourth to Fifth avenue.  
Ninety-third street, from Ninth to Tenth avenue.  
Ninety-sixth street, from Third to Lexington avenue.  
One Hundred and First street, from Second to Third avenue.  
One Hundred and Second street, from Lexington to Fifth avenue.  
One Hundred and Fifth street, from First avenue to East river.  
One Hundred and Twenty-first street, from Sixth to Seventh avenue.  
One Hundred and Thirty-first street, from Sixth to Seventh avenue.  
One Hundred and Thirty-second street, from Madison to Fifth avenue.  
One Hundred and Thirty-fifth street, from Eighth avenue to Avenue St. Nicholas.  
One Hundred and Fifty-fifth street, from Avenue St. Nicholas to St. Nicholas place.

The quantities of work done are as follows:

52,744 square yards of pavement laid.  
6,688 square feet of bridge-stone laid.

New crosswalks laid, payable from assessments:

Both sides of Sixth avenue, across the intersecting streets, from One Hundred and Twenty-fifth to One Hundred and Forty-fifth street, where not already laid.

Across Pleasant avenue, on north and south sides of One Hundred and Fifteenth street.

Across One Hundred and Twenty-sixth street, on west side of Avenue St. Nicholas.

Across Tenth avenue, on north and south sides of One Hundred and Forty-first street.

Across the north, south, east and west sides of Tenth avenue and One Hundred and Thirtieth street.

The quantities of work done are as follows:

106 square yards of pavement laid.  
6,459 square feet of bridge-stone laid.

New pavements are in progress in the following-named streets:

Ninth avenue, from Seventy-seventh to One Hundred and Tenth street.  
Tenth avenue, from Seventy-fourth to One Hundred and Tenth street.  
Sixty-eighth street, from Eighth avenue to the Boulevard.  
Sixty-eighth street, from Tenth to Eleventh avenue.  
Eighty-first street, from Eighth to Ninth avenue.  
Eighty-fourth street, from Avenue A to Avenue B.

The following-named streets are under contract to be paved, and the work will be progressed as rapidly as practicable:

Sixty-fourth street, from First avenue to East river.  
Eighty-fifth street, from Avenue B to Avenue A.  
Eighty-fifth street, from Eighth to Ninth avenue.  
Eightieth street, from Ninth to Tenth avenue.  
Ninety-first street, from First avenue to Avenue A.  
Ninety-fifth street, from Second to Third avenue.  
Ninety-fifth street, from Ninth to Tenth avenue.  
Ninety-sixth street, from First to Third avenue.  
Ninety-seventh street, from Eighth to Ninth avenue.  
Ninety-seventh street, from Ninth to Tenth avenue.  
One Hundred and Fourth street, from Ninth avenue to the Boulevard.  
One Hundred and Seventh street, from Lexington to Fourth avenue.  
One Hundred and Eighteenth street, from Sixth to Seventh avenue.  
One Hundred and Twenty-second street, from Seventh avenue to Avenue St. Nicholas.  
One Hundred and Twenty-ninth street, from Eighth avenue to Avenue St. Nicholas.  
One Hundred and Thirty-fifth street, from Seventh to Eighth avenue.  
One Hundred and Thirty-seventh street, from Eighth avenue to Avenue St. Nicholas.  
Crosswalks, Tenth avenue, between One Hundred and Fifty-fifth and One Hundred and Sixty-fifth streets.

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

The average force employed on repairs to pipes, stop-cocks, fire-hydrants, etc., under the direction of this Bureau, during the quarter, was as follows:

In April, 82 men and 11 carts.  
In May, 84 men and 11 carts.  
In June, 85 men and 11 carts.

467 defects in pipes and stop-cocks were repaired.  
107 taps were shut off on account of leaks in service-pipes.  
1,107 fire-hydrants were repaired.  
158 old fire-hydrants were replaced with new ones.  
2 new fire-hydrants were erected.  
534 defects in pavements were repaired.

## PUBLIC DRINKING-HYDRANTS.

The appropriation for drinking-hydrants for 1887 is only \$3,500, \$1,000 of which is for the salary of the Inspector in charge.

The necessary repairs have been carefully and economically made, in order to keep the hydrants in good condition and not exceed the very small amount allowed for the work.

77 drinking-hydrants were repaired.  
10 old hydrants were replaced with new ones.  
2 new hydrants were erected.

There are now on file in this office twenty-two resolutions of the Common Council authorizing the erection of drinking-hydrants which cannot be carried out, and many applications urging their erection are necessarily denied for want of funds.

The cost of furnishing and erecting a public drinking-hydrant for man and beast is about \$200, and of course it will not be possible to purchase any this year. There are, however, four new hydrants in the Corporation yard, which it is purposed to erect at places most needed during the summer, provided the repairs can be kept at a sufficiently low point to admit of the expense of about \$60 each for their erection.

## WELLS AND PUMPS, REPAIRING AND CLEANING.

One pump was repaired at One Hundred and Fifty-fourth street and Seventh avenue.

One old pump was replaced with a new one in One Hundred and Twenty-fifth street near Fourth avenue.

## STREET OPENINGS BY PRIVATE CORPORATIONS.

The following is a summary of the work done under the supervision of the General Inspector in charge:

4,671 openings to repair mains and make gas, water, and sewer service connections, each of which was inspected three times and many of them four and five times.

1,346 notices sent to corporations and others to repair bad pavement over their openings.

1,637 bad places in the pavements repaired in compliance with notices sent from this office.

82,770 lineal feet of gas and steam mains laid.

973 lineal feet of trench opened for underground cable laid by the Fire Department.

\$4,587 was paid during the quarter by the various corporations to inspectors appointed to supervise the work on certificates issued from this office.

## VAULTS AND AREAS.

75 permits were issued for the construction of vaults under sidewalks, and the amount received for the same, as stated in the commencement of this report, was \$29,173.67.

45 permits were issued to repair vaults.

## RESOLUTIONS.

Sixty resolutions of the Board of Aldermen, affecting the work of this Bureau, were referred to me for examination and report, as follows:

26 resolutions for pavements.  
15 " crosswalks.  
7 " drinking-hydrants.  
8 " watering-troughs.  
4 " extension of vaults beyond the curb-line.

In accordance with reports from this office thirty-three resolutions were vetoed by the Mayor, as follows:

14 resolutions for pavements.  
14 " crosswalks.  
3 " drinking-hydrants.  
2 " watering-troughs.

## LETTERS.

Two hundred and ninety-three (293) letters to the Commissioner of Public Works were referred to me for examination and report, and they were all promptly examined and report made.

Where repairs were required the work was given out to the gangs for immediate attention, except in cases over plumbers' openings, which were referred to Contractor Cunningham for attention.

## STATEMENT

Showing the present condition of the appropriations which are drawn upon exclusively by this Bureau, and the amounts on vouchers drawn upon other appropriations and funds.

Public Drinking-hydrants—	
Appropriation for 1887 .....	\$2,500 00
Vouchers drawn, first quarter .....	\$106 81
Vouchers drawn, second quarter .....	738 31
Estimated liabilities to date .....	300 00
	<u>1,145 12</u>
Balance available June 30 .....	\$1,354 88
Public Drinking-hydrants—Salaries—	
Appropriation for 1887 .....	\$1,000 00
Vouchers drawn, first quarter .....	\$249 99
Vouchers drawn, second quarter .....	249 99
	<u>499 98</u>
Balance available June 30 .....	\$500 02
Repaving Fifth Avenue, Chapter 471, Laws of 1885—	
Unexpended balance of appropriation January 1, 1887 .....	\$253,609 29
Vouchers drawn, first quarter .....	\$1,933 65
Vouchers drawn, second quarter .....	54,632 13
	<u>56,565 78</u>
Balance June 30 .....	\$197,043 51
Repaving Streets and Avenues—	
Appropriation and transfers for 1887 .....	\$327,379 06
Vouchers drawn, second quarter .....	\$5,463 50
Estimated liabilities to date .....	86,019 95
	<u>91,483 45</u>
Balance available June 30 .....	\$235,895 61
Repaving Streets and Avenues—Salaries—	
Appropriation for 1887 .....	\$13,000 00
Vouchers drawn, first quarter .....	\$304 00
Vouchers drawn, second quarter .....	906 00
	<u>1,210 00</u>
Balance available June 30 .....	\$11,790 00
Repairs and Renewal of Pavements and Regrading—	
Appropriation for 1887 .....	\$238,000 00
Vouchers drawn, first quarter .....	\$7,237 73
Vouchers drawn, second quarter .....	21,475 64
Estimated liabilities to date .....	30,902 02
	<u>59,615 39</u>
Balance available June 30 .....	\$178,384 61



Repairs and Renewal of Pavements and Regrading—Salaries—	
Appropriation for 1887.....	\$12,000 00
Vouchers drawn, first quarter.....	\$2,586 00
Vouchers drawn, second quarter.....	3,012 76
	5,598 76
Balance available June 30.....	\$6,401 24
Wells and Pumps—Repairing and Cleaning—	
Appropriation for 1887.....	\$250 00
Vouchers drawn, second quarter.....	75 57
Balance available June 30.....	\$174 43
Repairing and Renewal of Pipes, Stop-cocks, etc.—	
Vouchers drawn, first quarter.....	\$14,526 86
Vouchers drawn, second quarter.....	19,459 61
Estimated liabilities to date.....	3,547 06
Total.....	\$37,533 53
Contingencies—Department of Public Works—	
Vouchers drawn, second quarter.....	\$20 00
Restoring and Repaving—Special Fund—Department of Public Works—	
Vouchers drawn, first quarter.....	\$2,845 82
Vouchers drawn, second quarter.....	10,619 75
Total.....	\$13,465 57
Fund for Local Improvements—	
Vouchers drawn, second quarter.....	\$1,252 23
Street Improvement Fund—	
Vouchers drawn, first quarter.....	\$3,236 44
Vouchers drawn, second quarter.....	131,863 13
Total.....	\$135,099 57
Respectfully submitted,	
A. CULVER, Water Purveyor.	

## Document "F."

## REPORT OF THE 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 1, 1887.

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

SIR—I beg leave to hand you herewith my report of the transactions of this office for the quarter ending June 30, 1887. During this time 10,096 lineal feet of sewer, 398 lineal feet of culvert and 15 receiving-basins have been built, and 11,091 lineal feet of piles have been driven, making the present total length of sewerage in the city 2,200,633 lineal feet (416 $\frac{7}{10}$  miles), with 5,090 receiving-basins.

14 contracts for sewers and 8 contracts for receiving-basins have been completed, viz.:

## Sewers.

Lexington avenue, between One Hundred and Twenty-second and One Hundred and Twenty-third streets.  
One Hundredth street, between Boulevard and West End avenue.  
Ninety-seventh street, between Ninth avenue and summit west of Ninth avenue.  
One Hundred and Forty-third street, between Seventh and Eighth avenues.  
One Hundred and Eighteenth street, between Fifth and Sixth avenues.  
Eighth avenue (outlet), between One Hundred and Fifty-third street and Harlem river.  
One Hundred and Seventeenth street, between Fifth and Sixth avenues, etc.  
One Hundred and Thirty-first street, between Broadway and Tenth avenue.  
One Hundred and Eighteenth street, between Seventh avenue and Avenue St. Nicholas.  
One Hundred and Forty-second street, between Seventh and Eighth avenues.  
Ninety-first street, between Eighth and Ninth avenues.  
Seventy-fourth street, between Ninth and Tenth avenues.  
One Hundred and Thirteenth street, between Boulevard and Riverside avenues.  
Third avenue, between Twenty-first and Twenty-second streets.

## Basins.

Southeast corner of Twenty-first street and Thirteenth avenue.  
Southwest corners of Eightieth and Eighty-first streets and Avenue A.  
Northeast and southeast corners of One Hundred and Eighth street and Lexington avenue.  
Northeast and northwest corners of One Hundred and Twenty-third street and Manhattan avenue.  
Southeast corner of One Hundred and Twenty-third street and Manhattan avenue.  
Northeast corner of Nineteenth street and Avenue B.  
Northwest corner of One Hundred and Twenty-fifth street and First avenue.  
Southwest corner of Sixty-second street and Avenue A.  
34 sewers are now in progress of construction.

The laborers and mechanics employed in repairing and cleaning sewers have been kept steadily at work. 917 receiving-basins and 34,589 lineal feet of sewer have been cleaned. 272 lineal feet of sewer have been rebuilt and 1,011 lineal feet of sewer have been repaired. 1,275 square feet of flagging and 512 square yards of pavement have been relaid.

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, 1887.

Credits to General Fund—	
Amount received for 442 permits for sewer connections.....	\$9,906 62
Engineers' Fees—	
Amount of Engineers' fees assessed on property benefited, charged on assessment lists and credited to—	
Street Improvement Fund.....	\$2,297 54
Fund for Local Improvements.....	721 05
	\$3,018 59
Sewers—Repairing and Cleaning—	
Balance on hand March 31, 1887.....	\$122,165 63
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Laborers, etc.....	\$16,952 25
Special repairs.....	2,740 61
Materials and sundries.....	5,967 60
Balance on hand June 30, 1887.....	96,505 17
	122,165 63
Salaries—Sewers—Repairing and Cleaning—	
Balance on hand March 31, 1887.....	\$6,316 00
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Inspectors, etc.....	\$2,148 00
Balance on hand June 30, 1887.....	4,168 00
	6,316 00

Sewers—Repairing and Cleaning (1886 account)—	
Balance on hand March 31, 1887.....	\$8,675 53
Vouchers transmitted to the Commissioner of Public Works—	
Special repairs.....	\$1,539 05
Materials and sundries.....	1,738 50
Balance on hand June 30, 1887.....	5,397 98
	8,675 53
Salaries—Sewerage System—	
Balance on hand March 31, 1887.....	\$9,928 30
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Engineers, etc.....	\$2,715 56
Balance on hand June 30, 1887.....	7,212 34
	9,928 30
Surveys, Maps, etc., for Street Openings, etc.—	
Balance on hand March 31, 1887.....	\$7,765 47
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Draughtsmen, etc.....	\$1,491 67
Balance on hand June 30, 1887.....	6,273 80
	7,765 47
Restoring and Repaving—Special Fund—	
Amount received for 607 permits for street openings.....	\$6,727 00
Vouchers transmitted to the Commissioner of Public Works.....	\$92,012 45
Street Improvement Fund—	
Pay-rolls of Engineers, etc.....	\$15,147 53
On contracts for sewers, etc.....	67,531 39
	\$82,678 92
Fund for Local Improvements—	
Pay-rolls of Engineers, etc.....	\$188 75
On contracts for sewers, etc.....	5,470 60
	5,659 35
Local Improvement Fund—	
On contracts for sewers, etc.....	2,043 90
Boring Examinations for Grading and Sewer Contracts—	
Pay-rolls of Engineers, etc.....	1,220 33
Contingencies—Department of Public Works—	
Transportation expenses of Engineers, Inspectors, etc.	\$253 95
Horse and wagon for use of the General Inspector of Sewers.....	156 00
	409 95
	92,012 45

## Work done by Laborers and Mechanics—

917 receiving-basins and culverts cleaned.  
34,589 lineal feet of sewer cleaned.  
272 lineal feet of sewer rebuilt.  
1,011 lineal feet of sewer repaired.  
35 lineal feet of culvert rebuilt.  
93 lineal feet of spur pipe laid.  
239 lineal feet of new curb set.  
17 lineal feet of curb reset.  
63 lineal feet of culvert built.  
1,275 square feet of flagging relaid.  
83 receiving-basins repaired.  
62 new basin-heads and covers put on.  
20 new basin covers put on.  
5 basin-heads reset.  
1 manhole rebuilt.  
264 manholes repaired.  
28 new manhole-heads and covers put on.  
88 new manhole covers put on.  
232 manhole-heads reset.  
512 square yards of pavement relaid.  
1,129 cubic yards of earth excavated and refilled.  
46 cart-loads of earth filled in.  
3,240 cart-loads of dirt removed.

## Work done by contract—

10,096 lineal feet of sewer built.  
398 lineal feet of culvert built.  
15 receiving-basins built and  
11,091 lineal feet of piles driven.

Making the present total length of sewerage in the city 2,200,633 lineal feet (416 $\frac{7}{10}$  miles), with 5,090 receiving-basins.

## 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, June 30, 1887.

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, 1887.

Respectfully,

W. M. DEAN, Superintendent Street Improvements.

## STATEMENT OF THE AMOUNT OF WORK DONE DURING THE QUARTER ENDING JUNE 30, 1887.

Earth excavated.....	cubic yards	15,709
Rock excavated.....	"	26,735
Filling furnished.....	"	70,707
Curb-stones set.....	lineal feet.	27,273 $\frac{08\frac{1}{2}}{100}$
Flagging laid.....	square feet.	93,572 $\frac{96}{100}$
Picket fence built.....	lineal feet.	15,954 $\frac{1\frac{1}{2}}{12}$
Dry stone box culvert built.....	"	50
Masonry built.....	cubic yards.	800
Bridge stones laid.....	square feet.	389

## WORK DONE IN FRONT OF CITY PROPERTY.

Curb-stones set.....	lineal feet.	511 $\frac{90}{100}$
" reset.....	"	223
Flagging laid.....	square feet.	4,112 $\frac{17}{100}$
" relaid.....	"	463
Bridge stones laid.....	"	718

## AMOUNT OF VOUCHERS DRAWN.

On account of—	
Fund for Local Improvements.....	\$13,310 75
Local Improvement Fund.....	11,020 66
Street Improvement Fund.....	87,987 97
Street Improvements—For Surveying, Monumenting and Numbering of Streets.....	231 00
Flagging Sidewalks and Fencing Vacant Lots in Front of City Property.....	2,043 41
Contingencies of Department of Public Works.....	255 00
Repaving Street and Avenues.....	113 88
Total.....	\$115,562 67



## APPROPRIATIONS.

## Contingencies of Department of Public Works—

Amount of vouchers drawn ..... \$255 00

## Repaving Street and Avenues—

Amount of vouchers drawn ..... \$113 88

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

Amount of vouchers drawn during first quarter..... \$317 50  
 Amount of vouchers drawn during second quarter..... 231 00  
 Outstanding liabilities (estimated)..... 502 00  
 Balance (estimated)..... 1,949 50  
 3,000 00

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

Amount of vouchers drawn during second quarter..... \$2,643 41  
 Outstanding liabilities (estimated)..... 350 00  
 Balance (estimated)..... 6 59  
 3,000 00

## WORKS COMPLETED DURING THE QUARTER.

## Regulating, grading, etc.—

West side of Edgecomb avenue, One Hundred and Thirty-sixth to One Hundred and Thirty-seventh street..... \$719 83  
 Sixty-ninth street, Eighth to Ninth avenue..... 13,719 74  
 Eighty-first street, Avenue A to Avenue B..... 2,924 40  
 Eighty-second street, Boulevard to Riverside Drive..... 7,561 17  
 Ninety-fifth street, Eighth to Ninth avenue..... 1,976 00  
 One Hundred and First street, Eighth to Manhattan avenue..... 2,468 25  
 One Hundred and Seventh street, Boulevard to Tenth avenue..... 3,053 77  
 One Hundred and Twelfth street, Eighth to New avenue..... 5,825 66  
 One Hundred and Fourteenth street, Fourth to Eighth avenue..... 23,345 00  
 One Hundred and Fourteenth street, Tenth avenue to Riverside Drive..... 13,059 21  
 One Hundred and Thirty-seventh street, Eighth to St. Nicholas avenue..... 2,299 43  
 One Hundred and Thirty-seventh street, Seventh to Eighth avenue..... 5,012 92  
 One Hundred and Forty-ninth street, Seventh to Eighth avenue..... 8,975 73  
 \$90,941 11

## Curb and Flagging—

Manhattan avenue, One Hundred and Sixteenth to One Hundred and Twentieth street..... \$2,507 72  
 Sixty-second street, Boulevard to Eighth avenue..... 1,239 98  
 3,747 70

## Flagging—

South side Fifty-ninth street, Madison to Fourth avenue..... \$262 00  
 South side Seventieth street, Ninth to Tenth avenue..... 493 23

## Flagging—

South side One Hundred and Twenty-second street, First avenue to Avenue A..... \$391 11  
 South side One Hundred and Thirtieth street, Fourth to Lexington avenue..... 268 68  
 \$1,415 02

## Fencing Vacant Lots—

Avenues B and C, Eighteenth to Nineteenth street..... \$420 78  
 Ninety-fourth and Ninety-fifth streets, First to Second avenue..... 343 78  
 Ninety-fifth and Ninety-sixth streets, Second to Third avenue..... 271 08  
 One Hundred and Sixth and One Hundred and Seventh streets, Fourth to Madison avenue..... 686 72  
 One Hundred and Eighth and One Hundred and Ninth streets, First to Second avenue..... 539 10  
 One Hundred and Eleventh and One Hundred and Twelfth streets, Madison to Fifth avenue..... 352 97  
 One Hundred and Twelfth and One Hundred and Thirteenth streets, Seventh to Eighth avenue..... 1,096 01  
 One Hundred and Thirteenth and One Hundred and Fourteenth streets, Fourth to Madison avenue..... 452 37  
 One Hundred and Eighteenth and One Hundred and Nineteenth streets, St. Nicholas to Eighth avenue..... 627 88  
 One Hundred and Twenty-second and One Hundred and Twenty-third streets, St. Nicholas to Manhattan avenue..... 428 78  
 One Hundred and Twenty-third and One Hundred and Twenty-fourth streets, Manhattan to Ninth avenue..... 157 01  
 One Hundred and Thirty-first and One Hundred and Thirty-second streets, Madison to Fifth avenue..... 714 75  
 One Hundred and Thirty-sixth and One Hundred and Thirty-seventh streets, Seventh to Eighth avenue..... 1,108 59  
 Ninety-ninth street, Ninth to Tenth avenue..... 447 69  
 South side One Hundred and Tenth street, Fourth to Madison avenue..... 75 38  
 North side One Hundred and Tenth street, Fourth to Madison avenue..... 27 50  
 South side One Hundred and Twenty-second street, west of Pleasant avenue..... 28 21  
 South side One Hundred and Twenty-second street, Seventh to Eighth avenue..... 236 87  
 Southeast corner Madison avenue and One Hundred and Eleventh street..... 72 41  
 West side Seventh avenue, One Hundred and Twenty-eighth to One Hundred and Twenty-ninth street..... 209 36  
 8,797 24

Total ..... \$104,901 07

## RECAPITULATION.

13 contracts for regulating, grading, etc..... \$90,941 11  
 2 contracts for curb and flagging..... 3,747 70  
 4 contracts for flagging..... 1,415 02  
 20 contracts for fencing vacant lots..... 8,797 24  
 39 contracts, amounting to..... \$104,901 07

## Statement showing Works under Contract in Bureau of Street Improvements on the 30th day of June, 1887.

LOCATION OF WORK.	CONTRACTOR.	SURVEYOR.	INSPECTOR.	CONTRACT TIME.	ESTIMATED COST.	AMOUNT EARNED.	AMOUNT RETAINED.	AMOUNT PAID.	REMARKS.
<i>Regulating, Grading, Curb and Flagging.</i>									
<i>Local Improvement Fund—</i>									
Fort Washington Ridge road.....	Allen & O'Maley.....	J. McIntyre Smith	James R. Mount.....	400 days.	\$130,161 70	\$138,194 00	\$41,458 20	\$96,735 80	
Ninety-fourth street, Boulevard to Riverside Drive.....	Thomas O'Maley.....	R. L. Waters.....		150 "	33,311 60	31,301 00	9,390 30	21,910 70	Work completed, but not yet accepted.
<i>Street Improvement Fund—</i>									
One Hundred and Thirty-second street, Tenth avenue to Broadway.....	F. Thilemann, Jr.....	R. L. Waters.....		200 "	9,468 56				Work completed but not yet accepted.
Edgecomb avenue, One Hundred and Thirty-seventh to One Hundred and Fortieth street.....	William Guilfoyle.....	J. McIntyre Smith	Sylvester Bennett.....	75 "	11 534 40	7,490 00	2,247 00	5,243 00	
Edgecomb avenue, One Hundred and Forty-first to One Hundred and Forty-fifth street.....	Bernard Mahon.....	J. McIntyre Smith	John McCue.....	275 "	18,196 00	4,200 00	1,250 00	2,940 00	
Edgecomb avenue, One Hundred and Forty-fifth street to St. Nicholas place.....	John F. Dawson.....	J. McIntyre Smith	Leander Buck.....	300 "	86,826 06	5,580 00	1,674 00	3,906 00	
First new avenue, One Hundred and Forty-second to One Hundred and Forty-fifth street.....	Bernard Mahon.....	R. L. Waters.....	Thomas P. Moore.....	275 "	17,414 96				
First new avenue, One Hundred and Forty-fifth to One Hundred and Fifty-fifth street.....	William J. Kelly.....	J. McIntyre Smith	J. Brady & C. Myers	500 "	55,120 00	13,160 00	3,948 00	9,212 00	
Claremont avenue, One Hundred and Sixteenth to One Hundred and Twenty-second street.....	John Cox & Co.....	J. McIntyre Smith	Benjamin V. Fraser	200 "	17,128 95	9,555 00	2,866 50	6,688 50	
Fort George avenue, Tenth to Eleventh avenue.....	James H. Sullivan.....	J. McIntyre Smith	John W. Keogh.....	350 "	23,119 40	6,910 00	2,073 00	4,837 00	
Coenties Slip, Front to South street.....	Andrew Low.....	Frank E. Towle.....		20 "	1,972 40				Work suspended.
Forty-third street, First avenue to Prospect place.....	John Cox & Co.....	Frank E. Towle.....	John O'Leary.....	150 "	12,505 00	4,250 00	1,275 00	2,975 00	
Sixty-fifth street, First avenue to Avenue A.....	Terence A. Smith.....	R. L. Waters.....	Isaac Smith.....	175 "	12,212 91	7,345 00	2,203 80	5,142 20	
Sixty-fifth street, Tenth to Eleventh avenue.....	D. W. Moran.....	R. L. Waters.....		35 "	2,866 26				Work completed, but not yet accepted.
Seventieth street, Eighth to Ninth avenue.....	Geo. F. Masterson.....	M. A. Lacy.....		15 "	1,843 20				Work not yet commenced.
Seventy-seventh street, Boulevard to Riverside Drive.....	James Slattery.....	R. L. Waters.....	Robert V. Davis.....	200 "	13,983 21				
Eighty-seventh street, Boulevard to West End avenue.....	James Slattery.....	Frank E. Towle.....	Dennis O'Connor.....	25 "	230 75				
Eighty-ninth street, Boulevard to Riverside Drive.....	F. C. Hopkins.....	J. McIntyre Smith	Joseph McGowan.....	100 "	10,379 20	9,070 00	2,721 00	6,349 00	
Ninetyth street, Boulevard to Riverside Drive.....	Thomas O'Maley.....	J. McIntyre Smith	Matthew Stripp.....	100 "	7,737 80	1,920 00	576 00	1,344 00	
Ninety-first street, Boulevard to Riverside Drive.....	J. W. Phelan.....	J. McIntyre Smith	David Simmons.....	200 "	14,363 15	8,494 00	2,548 20	5,945 80	
Ninety-seventh street, Boulevard to Riverside Drive.....	John Brady.....	R. L. Waters.....	Theophilus Pratt.....	200 "	3,468 95				
One Hundred and Second street, Ninth avenue to Riverside Drive.....	James H. Sullivan.....	J. McIntyre Smith	Nathan Frank.....	365 "	28,127 55	1,500 00	450 00	1,050 00	
One Hundred and Second street, Eighth to Ninth avenue.....	Patrick McInerney.....	Frank E. Towle.....	Albert Stern.....	150 "	5,624 59				
One Hundred and Third street, Eighth to Ninth avenue.....	John J. Farley.....	Frank E. Towle.....	William J. Girvan.....	100 "	5,689 45				
One Hundred and Seventh street, Eighth to Ninth avenue.....	Thomas E. Crimmins.....	Robert J. Dodge.....	John Lawrence.....	350 "	10,753 00	4,655 00	1,396 50	3,258 50	
One Hundred and Eighth street, Eighth to Manhattan avenue.....	John Cox & Co.....	M. A. Lacy.....	Benjamin F. Crane.....	300 "	6,155 60				
One Hundred and Thirteenth street, Eighth to New avenue.....	Thomas E. Crimmins.....	R. L. Waters.....	William F. Gannon.....	200 "	4,790 45				
One Hundred and Seventeenth street, Eighth to St. Nicholas avenue.....	Thomas Murray.....	R. L. Waters.....		10 "	1,909 20				
One Hundred and Twenty-second street, New to Sixth avenue.....	Andrew Low.....	Robert J. Dodge.....		7 "	1,223 87				
One Hundred and Thirty-seventh street, Tenth to Convent avenue.....	John Slattery.....	J. McIntyre Smith		150 "	2,991 81				
One Hundred and Forty-second street, Seventh to Eighth avenue.....	Bernard Mahon.....	J. McIntyre Smith	Frederick G. Fay.....	125 "	13,475 33	2,063 60	619 08	1,444 52	
One Hundred and Forty-third street, Seventh to Eighth avenue.....	William J. Clark.....	J. McIntyre Smith	Edward Gobel.....	200 "	8,308 00	3,850 00	1,155 00	2,695 00	
One Hundred and Forty-seventh street, Eighth to New avenue.....	John J. Farley.....	J. McIntyre Smith	Patrick C. McGuire.....	60 "	5,509 81				
One Hundred and Forty-eighth street, Seventh to Eighth avenue.....	William Kelly.....	M. A. Lacy.....	Alexander Kyle.....	200 "	4,653 40				
One Hundred and Fifty-fifth street, intersection of New avenue.....	Wm. F. Erwing.....	J. McIntyre Smith	Henry Marshall.....	125 "	9,874 08				Work not yet commenced.
West End avenue, intersection of Seventy-second street, etc.....	Michael J. Kane.....	R. L. Waters.....		100 "	2,498 00				
Ninetyth street, First to Ninth avenue.....	Cornelius Ward.....	Frank E. Towle.....		9 "	1,958 00				Work completed, but not yet accepted.
<i>Special Contracts.</i>									
<i>Regulating, Grading, Curb and Flagging—</i>									
One Hundred and Twenty-eighth street, Eighth to St. Nicholas avenue.....	Geo. F. Masterson.....	Thos. Slator.....		10 "	997 41				
One Hundred and Twenty-ninth street, Twelfth avenue to Hudson River Railroad track.....	John S. Masterson.....	R. Amerman.....		5 "	402 95				
<i>Flagging—</i>									
East side Edgecomb avenue, One Hundred and Thirty-fifth to One Hundred and Thirty-sixth street.....	Bernard Mahon.....	M. A. Lacy.....		3 "	280 20				
<i>Fencing vacant lots—</i>									
One Hundred and Eleventh and One Hundred and Twelfth streets, Seventh to Eighth avenue.....	Bernard A. Roth.....	Frank E. Towle.....			870 50				
One Hundred and Seventeenth and One Hundred and Eighteenth streets, St. Nicholas to Eighth avenue.....	Bernard A. Roth.....	Jas. R. Wardlaw.....			693 00				
One Hundred and Seventeenth and One Hundred and Eighteenth streets, Sixth to Seventh avenue.....	Bernard A. Roth.....	M. A. Lacy.....			911 33				Work completed, but not yet accepted.
One Hundred and Eighteenth and One Hundred and Nineteenth streets, Sixth to Seventh avenue.....	Bernard A. Roth.....	Thos. Slator.....			545 00				
One Hundred and Thirty-fifth and One Hundred and Thirty-sixth streets, Seventh to Eighth avenue.....	Bernard A. Roth.....	R. Amerman.....			870 37				
Total.....					\$604,044 42	\$259,538 60	\$77,861 58	\$181,677 02	



## Document "H."

## REPORT OF THE SUPERINTENDENT OF STREETS.

DEPARTMENT OF PUBLIC WORKS,  
BUREAU OF STREETS AND ROADS, No. 31 CHAMBERS STREET,  
NEW YORK, July 6, 1887.

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

SIR—In compliance with your instructions I have the honor to submit the following report of work done and material used; also, the amounts expended from the various appropriations under the charge of this Bureau for the quarter ending June 30, 1887.

Respectfully,

GEORGE E. BABCOCK, Superintendent of Streets.

The following statement shows the work done during the quarter ending June 30, 1887, with the area cleaned or repaired, and paid for from the appropriation for "Boulevards, Roads and Avenues, Maintenance of:"

	Area.		
Western Boulevard, between the circle at Fifty-ninth street and One Hundred and Fifty-fifth streets—		Seventh avenue, between One Hundred and Tenth and One Hundred and Fifty-fourth streets—	
Roadway and gutters cleaned, between the circle at Fifty-ninth street and Eighty-sixth street (four times).....	2,229,910 square feet.	Roadway and gutters cleaned, between One Hundred and Tenth and One Hundred and Fifty-fourth streets.....	928,188 square feet.
Roadway and gutters cleaned from Eighty-sixth to One Hundredth street (three times).....	840,058 "	Cow Bay sand spread between One Hundred and Twenty-eighth and One Hundred and Fifty-fourth streets.....	545,233 "
Roadway and gutters cleaned between One Hundredth and One Hundred and Sixteenth street (twice).....	650,633 "	Gravel bank screenings spread between One Hundred and Tenth and One Hundred and Twenty-eighth streets.....	382,955 "
Gutters cleaned between One Hundred and Sixteenth and One Hundred and Thirty-sixth, and One Hundred and Forty-fourth and One Hundred and Fifty-fifth streets.....	62,281 "	Macadam repaired.....	1,576 "
Repairs to macadam.....	2,071 "	Trees trimmed, 296.	
Basin cleaned, 1.		Trees cultivated, 30.	
Roadway and gutters cleaned between One Hundred and Thirty-sixth and One Hundred and Forty-fourth streets.....	218,137 "	Crosswalks cleaned, One Hundred and Thirty-fifth, One Hundred and Twenty-ninth, One Hundred and Twenty-eighth, One Hundred and Twenty-fifth, One Hundred and Twenty-fourth, One Hundred and Twenty-third, One Hundred and Twenty-second and One Hundred and Sixteenth streets.	
St. Nicholas avenue, between One Hundred and Twenty-fifth and One Hundred and Fifty-fifth streets—		Crosswalk laid at north side One Hundred and Twenty-seventh street...	624 "
Gutters cleaned between One Hundred and Twenty-fifth and One Hundred and Fifty-fifth streets.....	65,198 "	Paving blocks used, 465.	
Gravel roadway repaired with broken stone.....	7,170 "	Relaid flagging.....	96 lineal feet.
Gravel roadway repaired with gravel.....	4,156 "	Reset curb.....	12 "
Stone drain cleaned.....	1,430 lineal feet.	Avenue St. Nicholas, between One Hundred and Tenth and One Hundred and Twenty-fifth streets—	
Gutter-stone relaid.....	76 "	Trees cultivated, 122.	
Trees cultivated, 162.		Cleaned gutters, between One Hundred and Twentieth and One Hundred and Twenty-fifth streets.....	9,680 square feet.
Basins cleaned, 7.		Relaid flagging.....	132 "
Box drain laid.....	24 "	One Hundred and Twenty-fourth street, between Sixth and Seventh and Fifth and Pleasant avenues—	
Ninth avenue, between One Hundred and Twenty-third and One Hundred and Twenty-sixth streets—		Roadway and gutters cleaned entire length.....	141,870 "
Roadway and gutters cleaned.....	44,207 square feet.	Roadway, between Fifth avenue and car-track on Madison avenue entirely resurfaced.....	14,270 "
One Hundred and Forty-fifth street, between Eighth avenue and Boulevard—		Repairs to macadam.....	3,202 "
Roadway and gutters cleaned from car-track at Eighth avenue to car-track at Tenth avenue (three times).....	306,060 "	Crosswalk relaid on Fifth avenue.....	168 "
Gutters cleaned between Tenth avenue and Boulevard (once).....	6,552 "	New crosswalk stone laid.....	82 "
Basin cleaned, 1.		Pleasant avenue, between One Hundred and Nineteenth and One Hundred and Twenty-fourth streets—	
One Hundred and Tenth street, between Riverside Drive and Ninth avenue—		Drain pipe laid.....	18 lineal feet.
Roadway and gutters cleaned between Riverside Drive and Tenth avenue.....	48,720 "	Gutters cleaned entire length.....	10,533 square feet.
Gutters cleaned between Ninth and Tenth avenues.....	6,720 "	One Hundred and Sixteenth street, between Seventh and Pleasant avenues—	
Tenth avenue, between One Hundred and Fifty-first and One Hundred and Sixty-second streets—		Roadway and gutters cleaned between Fourth and Pleasant avenues.....	116,220 "
Roadway and gutters cleaned between One Hundred and Fifty-first and One Hundred and Fifty-fifth streets, full width (twice) and from One Hundred and Fifty-fifth to One Hundred and Sixty-second streets, from car-track to curb (twice).....	307,026 "	Gutters cleaned between Fourth and Seventh avenues.....	21,440 "
Macadam repaired.....	6,378 "	Repairs to macadam.....	7,734 "
Curb reset.....	34½ lineal feet.	Spread with trap-rock screenings between Lexington and Fourth avenues and Madison and Fifth avenues.....	37,884 "
Flagging relaid.....	104 square feet.	Fifth avenue, between One Hundred and Twenty-fourth and One Hundred and Thirtieth streets—	
One Hundred and Fifty-second street, from Avenue St. Nicholas to Boulevard—		Gutters cleaned entire length.....	12,528 "
Roadway and gutters cleaned (twice).....	86,033 "	Mount Morris avenue, between One Hundred and Twentieth and One Hundred and Twenty-fourth streets—	
One Hundred and Fifty-fifth street, from Avenue St. Nicholas to Boulevard—		Gutters cleaned entire length.....	8,370 "
Roadway and gutters cleaned between Avenue St. Nicholas and Tenth avenue (twice).....	55,609 "	Repairs to macadam.....	168 "
Gutters cleaned between Tenth avenue and Boulevard (once).....	6,552 "	One Hundred and Twentieth street, between Fifth and Mount Morris avenues—	
St. Nicholas Place, from Avenue St. Nicholas to One Hundred and Fifty-fifth street—		Gutters cleaned entire length.....	12,900 "
Gutters cleaned full length (once).....	14,680 "	Repairs to macadam.....	18 "
Box drain built.....	45 lineal feet.	One Hundred and Twenty-third street, between Eighth and Mount Morris avenues—	
Block pavement gutters repaired.....	18 square feet.	Roadway and gutters cleaned entire length.....	65,100 "
Manhattan street, from Avenue St. Nicholas to One Hundred and Twenty-fifth street—		Repairs to macadam.....	273 "
Roadway and gutters cleaned (twice).....	86,802 "	One Hundred and Forty-fifth street, between Sixth and Eighth avenues—	
Block pavement gutter repaired.....	24 "	Gutters cleaned entire length.....	12,720 "
Macadam repaired.....	5,220 "		
Avenue A, between Fifty-seventh and Eighty-sixth streets—			
Roadway and gutters cleaned entire length (three times).....	1,344,612 "		
Limestone screenings spread, between Fifty-seventh and Sixty-first streets.....	62,599 "		
Limestone screenings spread, between Eighty-fourth and Eighty-sixth streets.....	28,120 "		
Sand spread, between Sixty-first and Sixty-second streets.....	15,650 "		
Macadam repaired.....	93,259 "		
Basins cleaned, 5.			
Seventy-second street, between Fifth avenue and Avenue A—			
Roadway and gutters cleaned entire length (three times).....	459,480 "		
Macadam repaired.....	18,909 "		
One Hundred and Tenth street, between Fifth and First avenues—			
Roadway and gutters cleaned from rail to curb, entire length (three times).....	150,903 "		
First avenue, between One Hundred and Ninth and One Hundred and Sixteenth streets—			
Cleaned roadway and gutters from rail to curb (three times).....	277,236 "		
Macadam repaired.....	3,000 "		
Laid crosswalk on north side One Hundred and Fifteenth street.....	464 "		
Paving blocks laid.....	240 lineal feet.		
Macadam repaired.....	100 square feet.		
Paving blocks, 240.			
Fifth avenue, between One Hundred and Tenth and One Hundred and Twentieth streets—			
Roadway and gutter cleaned entire length (three times).....	336,834 "		
Block pavement repaired.....	80 "		
Sixth avenue, between One Hundred and Tenth and One Hundred and Fourth streets—			
Gutters cleaned, between One Hundred and Twentieth and One Hundred and Forty-fifth streets.....	53,156 "		
Roadway and gutters cleaned, between One Hundred and Tenth and One Hundred and Twentieth streets.....	223,464 "		
Gravel bank screenings spread, between One Hundred and Tenth and One Hundred and Sixteenth streets.....	120,080 "		
Repairs to macadam.....	900 "		
Relaid flagging.....	544 "		
Trees trimmed, 227.			
Crosswalks cleaned, One Hundred and Thirty-fifth, One Hundred and Twenty-ninth, One Hundred and Twenty-eighth, One Hundred and Twenty-fifth, One Hundred and Twenty-fourth, One Hundred and Twenty-third, One Hundred and Nineteenth and One Hundred and Sixteenth streets.			

## RECAPITULATION.

	Area.
Roadway and gutters cleaned.....	8,972,102 square feet.
Gutters cleaned.....	303,310 "
Gravel bank screenings spread.....	503,035 "
Cow Bay sand spread.....	545,233 "
Roadway covered with trap-rock screenings.....	37,884 "
Roadway covered with limestone screenings.....	90,719 "
Sand or gutter stuff spread.....	5,650 "
Macadam repaired.....	143,308 "
Macadam roadway entirely resurfaced.....	14,271 "
Gravel roadway repaved with trap-rock stone.....	7,170 "
Gravel roadway repaired with gravel.....	4,156 "
Flagging relaid.....	876 "
Block pavement repaired.....	122 "
New crosswalk laid.....	1,170 "
Old crosswalk relaid.....	168 "
Stone drains cleaned.....	1,430 lineal feet.
Gutter-stone relaid.....	76 "
Box drain built.....	69 "
Curb reset.....	46½ "
Drain pipe laid.....	18 "
Basins cleaned.....	14 "
Trees trimmed.....	523 "
Trees cultivated.....	314 "
Paving blocks used.....	705 "
Crosswalks cleaned.....	16 "

The following material was used for repairs:

Broken stone.....	352 truck-loads.
Screenings, trap-rock.....	159 "
Sand.....	27 "
Dirt.....	37 "
Gravel.....	6 "
Limestone screenings.....	16 "
Sidewalks.....	7 "
Paving blocks.....	705 "

The following material was spread on the roadways:

Cow Bay sand.....	564 truck-loads.
Gravel bank screenings.....	414 "
Limestone screenings.....	123 "
Sand or gutter stuff.....	11 "

The following material was removed from the macadamized roadways:

Dirt.....	6,885 "
Stone.....	14 "
Brush.....	6 "
Telford.....	11 "
Broken stone.....	2 "
Dirt from sewer connections.....	101 "

All of the macadamized roadways have been thoroughly sprinkled during the quarter, and there was used for this purpose, 34,630 barrels, which is equal to 19,962,833 gallons.

The following basins were cleaned:

Southwest corner of One Hundred and Forty-first street and St. Nicholas avenue, three times.	
Northwest corner of One Hundred and Forty-first street and St. Nicholas avenue, three times.	
Southwest corner of One Hundred and Forty-fifth street and Convent avenue.	
West side St. Nicholas avenue, opposite One Hundred and Thirty-fifth street.	
Southwest corner Sixtieth street and Avenue A.	
Northwest corner Sixtieth street and Avenue A.	
Northwest corner Sixty-first street and Avenue A.	
Southwest corner Seventy-third street and Avenue A.	
Northwest corner Sixty-second street and Avenue A.	
Northeast corner One Hundred and Thirtieth street and Boulevard.	



Of the 6,885 truck-loads of dirt removed from the macadamized roadways, 625 truck-loads was delivered on the Street Cleaning Department scows at Seventieth street and East river, 647 truck-loads delivered on Street Cleaning Department scows, especially provided by that Department for this purpose at Seventy-ninth street and North river.

The following streets were repaired with sweepings from the macadamized roads, streets and avenues:

Madison avenue, between Ninetieth and Ninety-ninth streets.  
Ninety-sixth street, between Fifth and Madison avenues.  
Ninety-fifth street, between Madison and Fourth avenues.  
Ninety-seventh street, between Fourth and Madison avenues.  
One Hundred and Fourteenth street, between Fifth and Sixth avenues.  
One Hundred and Seventeenth street, near Fifth avenue.  
One Hundred and Eighteenth street, near Fifth avenue.  
Tenth avenue, between One Hundred and Forty-fifth and One Hundred and Fifty-first streets.  
One Hundred and Fifty-first street, between Avenue St. Nicholas and Tenth avenue.  
One Hundred and Fifty-sixth street, between Tenth and Eleventh avenues.  
One Hundred and Fifty-ninth street, between Tenth and Eleventh avenues.  
One Hundred and Fifty-first street, west of Boulevard.  
One Hundred and Eleventh street, east of Boulevard.  
Eighty-fourth street, east of Boulevard.  
Eighty-fifth street, between Tenth avenue and Boulevard.  
New avenue, between One Hundred and Thirteenth and One Hundred and Fourteenth streets.  
Eighty-sixth street, between Tenth avenue and Riverside Drive.  
One Hundredth street, between Tenth avenue and Riverside Drive.  
One Hundred and Sixth street, east of Boulevard.  
One Hundred and Twenty-third street, between Ninth and Tenth avenues.  
One Hundred and Fifteenth street, between Boulevard and Riverside Drive.  
One Hundred and Thirty-first street, west of Boulevard.  
One Hundred and Thirtieth street, west of Eighth avenue.  
One Hundred and Thirty-seventh street, east of Boulevard.  
One Hundred and Thirty-eighth street, east of Boulevard.  
One Hundred and Thirty-ninth street, west of Boulevard.  
One Hundred and Forty-third street, west of Boulevard. N. G.  
One Hundred and Fifty-fifth street and St. Nicholas place. Sidewalk.  
Ninety-first street and Boulevard.  
One Hundred and Fifty-eighth street, between Tenth and Eleventh avenues.  
One Hundred and First street, between Boulevard and Eleventh avenue.  
Ninety-fourth street, between Boulevard and Tenth avenue.  
Ninety-third street, between Boulevard and Tenth avenue.  
One Hundred and Fifty-fourth street, between Seventh avenue and McCombs Dam Road.  
One Hundred and Forty-seventh street, between Sixth and Seventh avenues. N. G.  
Pleasant avenue, between One Hundred and Thirteenth and One Hundred and Nineteenth streets.  
One Hundred and Thirty-fifth street, between Sixth and Seventh avenues. Stored.  
One Hundred and Thirty-sixth street, between Sixth and Seventh avenues.  
One Hundred and Eighteenth street, between Sixth and Seventh avenues.  
One Hundred and Twelfth street, between Sixth and Eighth avenues.  
One Hundred and Twelfth street, between St. Nicholas and Seventh avenues.  
One Hundred and Twentieth street, between Eighth and Ninth avenues.  
One Hundred and Fifteenth street, between Seventh and Eighth avenues.  
One Hundred and Sixteenth street, between Eighth and St. Nicholas avenues.  
Repaired hole at Fourth avenue and One Hundred and Sixteenth street. Sidewalk.

There was used in the above repairs:

2,997 truck loads of dirt.

13 truck loads of stone.

352 truck loads of dirt stored in One Hundred and Thirty-fifth street, between Sixth and Seventh avenues, to be used in repairs for unpaved streets.

The following sewer and water connections have been repaired:

South side One Hundred and Twenty-fourth street, 275 feet east of Seventh avenue. B. S.  
East side Ninth avenue, 65 feet north of One Hundred and Twenty-third street. S. C.  
South side One Hundred and Twenty-fourth street, 175 feet east of Seventh avenue. S. C.  
North side One Hundred and Tenth street, 75 feet east of Madison avenue. S. C.  
South side One Hundred and Sixteenth street, 100 feet east of Second avenue. S. C.  
South side One Hundred and Sixteenth street, 100 feet east of Second avenue. W. T. B. S.  
No. 2070 First avenue. W. T. R.  
Northwest corner One Hundred and Thirteenth street and First avenue. W. T. R.  
No. 2227 First avenue. W. T. R.  
Northeast corner One Hundred and Tenth street and Second avenue. S. C.  
No. 212 East One Hundred and Tenth street. W. T. R.  
No. 207 East One Hundred and Tenth street. S. C.  
Southwest corner One Hundred and Twenty-fourth street and Sixth avenue. S. C.  
No. 204 West One Hundred and Twenty-third street. W. T. R.  
No. 2207 First avenue. W. T. R.  
South side One Hundred and Tenth street, 60 feet east of Third avenue. W. T. R.  
No. 203 East One Hundred and Tenth street. S. C.  
No. 120 East One Hundred and Tenth street. W. T.  
South side One Hundred and Tenth street, 170 and 245 feet west of Third avenue. W. T. R.  
South side One Hundred and Tenth street, 195 and 220 feet west of Third avenue. W. T. R.  
No. 205 East One Hundred and Tenth street. S. C.  
No. 69 East One Hundred and Tenth street. S. C. R.  
South side One Hundred and Twenty-fourth street, 88 feet west of Fourth avenue. W. T.

The following places where openings were made have been examined and the pavement found in good condition:

South side One Hundred and Twenty-third street, 392 feet west of Sixth avenue. S. C.  
West side Fifth avenue, 20 feet north of One Hundred and Twenty-eighth street. S. C.  
South side One Hundred and Twenty-third street, 375 and 407 feet east of Seventh avenue. S. C.

No. 111 West One Hundred and Twenty-fourth street. S. C. R.  
Southeast corner One Hundred and Sixteenth street and Second avenue. W. T. R.  
North side One Hundred and Tenth street, 150 feet west of Lexington avenue. S. C.  
No. 108 West One Hundred and Tenth street. W. T. R.  
No. 264 Fifth avenue. W. T. R.  
East side Avenue A and One Hundred and Twenty-second street. W. T. R.  
Northeast corner One Hundred and Nineteenth street and Avenue A. W. T. R.  
No. 2089 Sixth avenue. W. T. R.  
Nos. 1615, 1617, 1619 and 1621 Avenue A. W. T. R.  
No. 2188 First avenue. W. T. R.  
No. 414 East One Hundred and Sixteenth street. W. T. R.  
No. 400 East One Hundred and Sixteenth street. W. T. R.

The following amount of material was used in repairing sewer and water connections:  
16½ truck loads of broken stone of trap-rock.  
11 truck loads of screenings of trap-rock.  
34 truck loads of Telford stone.

The following is an account of repairs made to monitors, sprinklers, hand carts; also tools sharpened, made or repaired, with the amount of materials used:

Monitor No. 1—Repaired top, repaired pole and chain, caulked.  
Monitor No. 2—Repaired whiffletrees, repaired valves, repaired bottom board, painted inside.  
Monitor No. 4—Lashed new sprinkler to frame and painted same, 3 new valves, new board in bottom, spliced staves inside and outside, repaired hose.  
Monitor No. 6—Generally overhauled, 3 new bolts, 2 fifth wheel bolts, tightened clips and bolts, packed valves, repaired hose, new iron plates on sway bars.  
Monitor No. 7—2 new axles set, boxed 4 wheels, repaired front, new moulding, new side blocks, new valves and blocks.  
Monitor No. 8—Repaired wheels, new washers and nuts, repaired hose, repaired springs, 7 new bolts, tightened clips, lashed sprinkler to frame and hose, painted inside and outside, painted and varnished carriage part, new valve block.  
Monitor No. 9—Repaired seat spring, new spring blocks, new manhole top, 2 new spring bolts, repaired valve block, 2 new valves, new piece across bottom under valves, new seat stay, new front piece, repaired carriage part, repaired hose, 4 new bolts, painted inside and outside, painted and varnished carriage part.  
Monitor No. 10—3 new valves, 3 rubber valve seats, wedged wheels.  
Monitor No. 11—Repaired valve rods and valves, repaired the lining, lashed sprinkler to frame, tightened clips and bolts, repaired hose, caulked, painted inside.  
Monitor No. 12—Lashed sprinkler to frame, repaired hose, 2 new bolts, repaired seat spring.  
Monitor No. 14—Lashed sprinkler to frame, packed valves, tightened clips and bolts, repaired hose, 1 new bolt, 1 new hose band.  
Monitor No. 15—New iron cross bars inside, setting up sprinkler frame, 1 new axle set, new hose from barrel to sprinkler, repaired wheels, repaired whiffletrees, new irons, new rims on front

wheels, 3 new spokes, 4 pair new rims, 2 new tyres, repaired fender, 5 new bolts, repaired valves, repaired barrel, new valve blocks, lashed sprinkler to frame, packed valves, new stop on inside bottom of barrel, painted inside and outside, painted and varnished carriage part, 2 nuts on valve rod.

Monitor No. 16—New hose from barrel to sprinkler, packed valves, repaired back bar, new blocks, new manhole cover, tightened bolts and clips, 8 new bolts, painted inside and outside, painted and varnished carriage part.

Monitor No. 17—Repaired fifth wheel, 4 new bolts, tightened clips, repaired top, repaired hose, repaired top of manhole.

Monitor No. 18—Lashed new sprinkler to frame and painted same.

Sprinkler No. 19—2 new pump-handles, carriage part, 14 new bolts, new king-bolt stays, repaired body, new perch, repaired hose, new iron plates, new iron stays, new bolster, 2 cross-bars on bottom, repaired sprinkler side blocks, 2 bolster bars, new sprinkler frame, lashed sprinkler to frame.

Sprinkler No. 20—One new sprinkler, lashed sprinkler to frame, 3 new bolts, new collar bolts, 8 new bolts, repaired sprinkler frame, repaired top, repaired king-bolt, repaired hose, readjusted valve blocks, caulked.

Sprinkler No. 21—2 new bolts, welded axle, new pail hook, 10 new bolts, 2 new nuts, 2 new strap bolts, new sprinkler frame.

Sprinkler No. 22—New seat-spring, repaired irons, new valves, 6 new bolts, new king-bolt, repaired top, repaired sprinkling frame, repaired pump-handle, painted new sprinkler, lashed sprinkler to frame, caulked, painted inside and outside, painted and varnished carriage part.

Sprinkler No. 23—Repaired valves, new leathers, 6 new bolts, lashed sprinkler to frame, caulked.

Sprinkler No. 24—New iron stay on sprinkler frame, 9 new bolts, new pump handles, 2 new strap-bolts, repaired king-bolts, repaired hose, repaired carriage part, lashed sprinkler to frame.

Sprinkler No. 25—New brakes complete, painted same, 2 new hanging irons, 4 new bolts, repaired iron on sprinkler frame.

Sprinkler No. 26—New king-bolt, 10 new bolts, repaired seat-spring, new water pail hook, tightened bolts and clips, repaired valve blocks, new side blocks, 1 new collar bolt, 2 new clip nuts.

Sprinkler No. 27—Repaired irons to sprinkler frame, 14 new bolts, repaired carriage part, repaired kingbolt, new lever hook, new water-pail hook, caulked.

Sprinkler No. 28—Repaired back stay, 8 new bolts, 4 new side blocks, repaired bottom, new tyre on wheels, repaired wheel, lashed sprinkler to frame, painted inside and outside, painted and varnished carriage part.

Sprinkler No. 30—New back stay, 15 new bolts, two back stays, new plate on pole, new water-pail hook, new iron stays, new sprinkler frame, lashed sprinkler to frame, lashed hose to barrel and frame.

Sprinkler No. 31—New pump handles, 4 new bolts, lashed sprinkler to frame.

Sprinkler No. 32—Tightened back axle, lashed sprinkler to frame.

Sprinkler No. 33—Spliced and repaired barrel staves, 2 new bolts, new strips on joints, new water-pail hook, new king-bolt, repaired hose, 2 new stay-bolts, lashed sprinkler to frame, painted inside and outside, painted and varnished carriage part.

One hose sprinkler—Painted inside and outside, painted and varnished carriage part, lashed sprinkler to frame.

Patent road scraper—Readjusted the knife and repaired plate, tightened bolts, 1 new strap bolt, 6 new carriage bolts.

Steam road roller—Repaired door to cab, new corner seat, painted cab inside and outside, 8 new bolts on windows, repaired scraper, new zinc front, new bonnet on smoke stack, repaired slice bar, riveted on 5 brass numbers, 8 new carriage bolts, cleaned steering gear complete, repaired tool box, new bottom.

#### Snow Ploughs Repaired.

No. 6—New flooring and guard rail.

No. 11—New side and flooring.

No. 12—New flooring.

Nos. 10 and 4—Generally overhauled.

Tool-cart No. 5—2 new tyres, new axle set, new sway bar.

Hand-cart No. 1—Repaired bottom and tightened bolts, painted.

Hand-cart No. 2—Painted.

Hand-cart No. 3—Repaired wheels, 8 spokes, 2 pieces of rims, set 1 new tyre, painted.

Hand-cart No. 4—10 new bolts.

Hand-cart No. 6—New axle, new wheels, new tyres, 13 new bolts, boxed wheels, painted.

Hand-cart No. 7—Repaired bottom, tightened bolts.

Hand-cart No. 8—Painted.

Hand-cart No. 9—Painted.

Horse Roller Nos. 1, 2, 3—Painted.

Horse Roller No. 4—2 new irons, 16 new bolts, 8 strap bolts, new stone boxes front and rear, new pole and stay, new scrape irons, painted.

#### Miscellaneous Shop Work.

Lettered and numbered 42 water-pails, numbered 9 stocks and crooks, made 16 hydrant wrenches, made 2 iron brackets for tool-box, made 1 large statement chest, made hand cart wheels, painted 6 hand-cart wheels, painted 4 hand-cart wheels, boxed 4 wheels, made 2 wheels for tool-cart, made 1 saw handle, painted 4 pairs shafts, made and painted 1 new tool-box, painted 2 new sprinklers, varnished 2 wheels, repaired wrenches for Sewer Bureau, made new bench for painters, painted 6 new poles, made 2 box wrenches, made 2 new wheel jacks, made 1 pole, crab-plate and chain; painted 5 new wagon-poles, 25 new valve blocks made, made 4 staves for tool box, made 2 new flats, made 2 new brackets, made 3 covers for water-pails, riveted 4 stays on bonnet for steam-roller, repaired tree trimmers' snips, 104 feet of sluice-box made, repaired 1 desk for foreman, made and placed 10 window bars on shop-windows, repaired 6 wheelbarrows, new wheels, repaired wagon used by Superintendent, welded axle arms, boxed wheels, repaired front spring, spliced perch, 13 new bolts, reset tyre, repaired back axle and spring, new leaf, 2 new bolts, painted whiffletrees, made new whiffletrees, made 6 wheels, placed 4 hydrant wrench boxes, made 10 wagon poles, painted 4 sets of whiffletrees, repaired 3 wheelbarrows in bottom, 19 new bolts, repaired 1 water pail, fitted 18 handles to brooms, sharpened 15 sounding bars for Sewer Bureau, repaired office chair, made 3 blow-off wrenches, repaired 2 lawn mowers, 2 new bolts, made 17 hooks for water pails, made and painted 2 signs for steam roller, made new frame for sand screen, made 1 new shoe for road scraper, repaired 3 wagon poles and chains; made and painted 30 signs for trucks, Department of Public Works; stamped 12 crow-bars, repaired office ceiling and partly painted same, repaired wagon used by Foreman J. E. Mooney, 1 new spring leaf, reset tires, used 12 bolts, new whiffletrees, new back spring bar, new rim on wheels, 2 rim plates, painted new wood, made 2 new straight edges, made 8 plates for whiffletrees, made 2 rock drills, made 4 sets plugs and feather, made 1 new snow plough, made 3 hand drills, made 4 hydrant wrenches, made 6 sets of plates for whiffletree bars, sharpened 840 picks, steeled 23 picks: picks laid, 9, points sharpened, 13, chisels sharpened, 20, crowbars sharpened, 14, rock drills sharpened, 3, hose and crook repaired, 46, grubs sharpened, 23, made 4 sets of whiffletrees and sway bars.

The following material was used in the above work:

29 pieces of rims, 153 spokes, 12 hubs, 220 feet of pine, 260 feet of oak, 55 feet of white wood, 20 pounds of nails, 1½ gross of screws, 646 feet of old boards, 346 carriage bolts, 2 new axles, 141 feet of new hose, 9 new couplings, 310 pounds of iron, 60 pounds of steel, 24 leather washers, 450 feet of marling; pipe for crooks, 39 feet; 9 feet of new chain, 20 new hose bands, 295 pounds of white lead, 1 axle for sprinkler, 32 pounds of putty; raw oil, 6 gallons, Japan, 2½ gallons, naphtha, 2 pints, turpentine, 7¾ gallons, vermilion red, 36 pounds, varnish, 4¾ gallons, gasoline, ¾ gallons, ivory black, 18 pounds, Indian red, 14¾ pounds, boiled oil, 4¾ gallons.

The following streets and avenues have been repaired during the quarter ending June 30, 1887, the expense of which was paid from the appropriation for "Roads, Streets and Avenues Unpaved—Maintenance of and Sprinkling":

#### By Contract.

Wooden stairway, 12 feet wide, from One Hundred and Fifty-fifth street, at Avenue St. Nicholas to a point about 80 feet east; railing on top of wall at St. Nicholas place.

#### By the Employees of the Bureau.

Regulated roadway and cleaned gutters.

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

One Hundred and Thirty-eighth street, between Seventh and Eighth avenues.

Ninety-fifth street, between Lexington and Madison avenues.

Madison avenue, between Ninety-second and Ninety-ninth streets.

Ninety-sixth street, between Lexington and Fourth avenues.

Ninety-ninth street, between Lexington and Fifth avenues.

Ninety-eighth street, between Madison and Fourth avenues.

Ninety-seventh street, between Third and Fifth avenues.

Lexington avenue, between Ninety-third and Ninety-seventh streets, and One Hundred and Second and One Hundred and Third streets.

One Hundred and Fifty-third street, between Tenth avenue and Boulevard.

One Hundred and First street, between Third and Fifth avenues.

One Hundredth street, between Fourth and Fifth avenues.

One Hundred and Fifth street, between Fourth and Fifth avenues.

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



One Hundred and Fifty-fourth street, between Seventh avenue and McComb's Dam road.  
One Hundred and Seventh street, between Fifth and Madison avenues.  
Eighty-eighth street, between Riverside Drive and Boulevard.  
One Hundred and Twelfth street, between Madison and Sixth avenues.  
One Hundred and Thirty-fourth street, between Madison and St. Nicholas avenues.  
Pleasant avenue, between One Hundred and Sixteenth and One Hundred and Nineteenth streets.  
One Hundred and Thirty-first street, between Sixth and Seventh avenues.  
Madison avenue, between One Hundred and Thirty-fourth and One Hundred and Thirty-seventh streets.  
Boulevard north of One Hundred and Fifty-eighth street.  
One Hundred and Fifteenth street, between Seventh and Eighth avenues.  
One Hundred and Twelfth street, between Third and Madison avenues, and from Sixth to St. Nicholas avenue.  
One Hundred and Thirteenth street, between St. Nicholas and Eighth avenues.  
One Hundred and Ninth street, between Fifth and Madison avenues.  
One Hundred and Thirty-sixth street, between Fifth and St. Nicholas avenues.  
Eleventh avenue, from One Hundred and Fifty-fifth to One Hundred and Fifty-eighth street.  
One Hundred and Seventy-fifth street, from Tenth to Eleventh avenue.  
One Hundred and Fourteenth street, east of Fifth avenue.

The following unpaved streets have been repaired—dangerous holes :

Eleventh avenue, between One Hundred and Fifty-fifth and One Hundred and Sixty-seventh streets, and One Hundred and Seventy-second and One Hundred and Seventy-third streets.  
Two Hundred and Sixth street, and between One Hundred and Eighty-fifth and One Hundred and Ninetieth streets.  
One Hundred and Thirty-sixth street, between St. Nicholas and Eighth avenues.

Constructed a pathway from the foot of the stairs in One Hundred and Fifty-fifth street to Coogan avenue.  
Built 200 feet rail fence.

The following unpaved streets have been cleaned and surplus dirt removed therefrom :

One Hundredth street, between Fifth and Madison avenues.  
One Hundred and Thirty-fourth street, between Sixth and Seventh avenues.  
One Hundred and Thirty-first street, between Sixth and Seventh avenues.  
One Hundred and Thirty-seventh street and Madison avenue.

The following amount of material was used on, or removed from the above streets :

*For Repairs.*

2,848 truck-loads of dirt.  
22 " stone.  
220 " earth excavated.  
70 feet retaining wall built.  
30 lineal feet curb reset.  
8 " gutter-stone reset.  
128 square feet flagging relaid.

The following amount of material was removed from the above streets :

225 truck-loads surplus dirt, stone and general refuse.

The following unpaved streets have been sprinkled during the quarter :

Kingsbridge road, One Hundred and Fifty-fifth to One Hundred and Seventy-fifth street.  
One Hundred and Seventy-fifth street, Kingsbridge road to Tenth avenue.  
Kingsbridge road, between One Hundred and Seventy-fifth street and Spuyten Duyvil.  
One Hundred and Fifty-fourth street, Seventh avenue to McComb's Dam road.  
McComb's Dam road, between One Hundred and Seventy-fourth street and Central Bridge.

The following is a statement of the Appropriations and Expenditures on Boulevards, Roads and Avenues, Maintenance of, 1886 :

Balance, January 1, 1887.....	\$2,488 01
Amount transmitted first quarter ending March 31, 1887.....	834 43
	\$1,653 58
Amount transmitted during the second quarter ending June 30, 1887.....	620 10
	\$1,033 48

The following is a statement of the Appropriations and Expenditures on Boulevards, Roads and Avenues, Maintenance of, 1887 :

Amount appropriated for 1887.....	\$100,000 00
Amount transmitted during the first quarter of 1887.....	7,862 81
	\$92,137 19

Amount transmitted during the second quarter, ending June 30, 1887 :

Pay-roll, Laborers, etc., ending March 31.....	1,837 00
" " April 15.....	2,000 75
" " April 30.....	2,864 50
" " May 15.....	4,271 00
" " May 31.....	4,849 99
" " June 15.....	4,439 75
Supplies.....	649 36
Coal.....	12 00
Repairs to sprinkler.....	44 45
Road machine.....	120 20
Use of horse.....	90 00
Trap-rock screenings.....	441 45
Rims, hose, etc.....	143 57
Dumping sweepings.....	50 00
Paints, etc.....	27 19
Cow Baysand.....	1,388 14
	23,229 35
Balance, July 1, 1887.....	\$68,907 84

The following is a statement of the Appropriations and Expenditures on Roads, Streets and Avenues, unpaved, Maintenance of, 1887 :

Amount appropriated for 1887.....	\$25,000 00
Amount transmitted during the first quarter, 1887.....	1,953 25
	\$23,046 75

Amount transmitted during the second quarter, ending June 30, 1887 :

Pay-roll, Laborers, etc., ending March 31.....	507 25
" " April 15.....	540 00
" " April 30.....	693 75
" " May 15.....	758 25
" " May 31.....	923 00
" " June 15.....	904 25
Use of horse.....	90 00
Foot bridge.....	549 00
Use of horse.....	90 00
Hardware.....	5 55
	5,061 05
Balance, July 1, 1887.....	\$17,985 70

The following is the amount received during the second quarter, ending June 30, 1887, for use of one two-horse road-roller and sprinkling wagon, and deposited to the credit of the General Fund :  
\$15. ....

Document "I."

REPORT OF THE SUPERINTENDENT OF LAMPS AND GAS.

DEPARTMENT OF PUBLIC WORKS—BUREAU OF LAMPS AND GAS, }  
NEW YORK, July 5, 1887. }

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, 1887 :

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.

In Exhibit "B" is a summary of the appropriation for "Lamps and Gas and Electric Lighting," and this shows an expenditure during the quarter of One hundred and twenty-three thousand nine hundred and eighty-nine dollars and eighty-seven cents (\$123,989.87), with liabilities amounting to One hundred and one thousand six hundred and seventy-one dollars and thirty-nine cents (\$101,671.39), leaving an available balance of Three hundred and eighty-two thousand nine hundred and seventy-seven dollars and thirty cents (\$382,977.30).

Exhibit "C" is a summary of the appropriation for "Salaries—Lamps and Gas and Electric Lighting," and this shows an expenditure during the quarter of Sixteen hundred and twenty-four dollars and ninety-five cents (\$1,624.95), leaving an available balance of Twenty-nine hundred and forty-seven dollars and ninety-four cents (\$2,947.94).

Exhibit "D" is a summary of the "Lamp Account," showing the number of new gas-lamps lighted, old lamps relighted and lamps discontinued by each gas company during the quarter ; a total of two hundred and thirty-seven new gas-lamps having been fitted-up and lighted, forty-two old lamps relighted and ninety-four gas-lamps and twelve electric-lamps having been discontinued. The net increase of the public lamps during the quarter was one hundred and four.

Exhibit "E" 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 companies, as determined by the analyses made by Dr. E. G. Love, the Gas Examiner, at the laboratories of this Department.

OF WHAT COMPANY.	SULPHUR. (Grs. in 100 cu. ft.)	AMMONIA. (Grs. in 100 cu. ft.)	SULPHURETTED HYDROGEN.
Consolidated Gas Co.—			
Branch 1.....	3.37	0.34	None.
Branch 2.....	11.85	12.53	"
Branch 3.....	4.48	0.54	"
Branch 4.....	29.46	5.28	"
Branch 6.....	2.74	0.78	"
New York Mutual Gas-light Co.....	4.77	0.09	Traces.
Equitable Gas-light Co.....	5.69	0.30	None.

The following shows the specific gravity of the gases :

Consolidated Gas Co.—	
Branch 1, specific gravity.....	.664
Branch 2, ".....	.462
Branch 3, ".....	.668
Branch 4, ".....	.547
Branch 6, ".....	.637
N. Y. Mutual Gas-light Co., specific gravity.....	.748
Equitable Gas-light Co., ".....	.715

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

OF WHAT COMPANY.	AVERAGE MAXIMUM PRESSURE.	AVERAGE MINIMUM PRESSURE.	WHERE TAKEN.	DISTANCE FROM GAS-WORKS.
Consolidated Gas Co.—	Inches.	Inches.		Miles.
Branch 1.....	1.65	1.59	Cor. of Bowery and Grand street	1.1 <sup>00</sup>
Branch 2.....	2.62	1.54	" " "	1.1 <sup>00</sup>
Branch 3.....	2.50	1.66	" " "	3.1 <sup>00</sup>
Branch 4.....	1.82*	0.92*	{ Seventy-ninth street, between } { Second and Third avenues. }	3.1 <sup>00</sup>
Branch 6.....	2.91*	1.37*	{ Seventy-ninth street, between } { Second and Third avenues. }	1.1 <sup>00</sup>
New York Mutual Gas-light Co....	3.02	1.99	Cor. of Grand street and Bowery	1.1 <sup>00</sup>
Equitable Gas-light Co.....	2.43	1.53	" " "	2.7 <sup>00</sup>

\*For part of the quarter.

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, Repairing, and Lighting the Public Lamps, etc., for the Quarter ending June 30, 1887.

Washington Market.....	\$585 49
Catharine Country Market.....	22 26
Catharine Meat Market.....	20 62
Fulton Meat Market.....	226 87
Fulton Country Market.....	326 38
Essex Market.....	19 00
Centre Market.....	72 63
Clinton Market.....	123 25
Union Market.....	5 00
Tompkins Market.....	105 13
Jefferson Market.....	143 87
First District Police Court.....	283 25
Second District Police Court.....	86 26
Third District Police Court.....	28 12
Fourth District Police Court.....	90 00
Fifth District Police Court.....	15 38
First District Civil Court.....	2 25
Second District Civil Court.....	17 37
Fourth District Civil Court.....	9 50
Fifth District Civil Court.....	34 51
Sixth District Civil Court.....	3 12
Eighth District Civil Court.....	9 87
Ninth District Civil Court.....	11 75
Court of Special Sessions.....	18 88
Court-room, Brown-stone Building.....	83 63
New Court-house.....	1,042 74
City Hall.....	294 87
Corporation Counsel's Office.....	7 36
Corporation Attorney's Office.....	41 39
Receiver of Taxes' Office.....	220 00
Department of Public Works.....	202 88
Department of Taxes.....	9 50
CITY RECORD Bookbindery.....	3 12
Register's Office.....	45 25
County Jail.....	224 12
Rivington Street Pipe Yard.....	2 12



Total .....	\$123,989 87
-------------	--------------

Gas to public offices, etc.	\$7,576	63
Supplies to public lamps, etc.	5,352	90
Supplies to public lamps, etc., Twenty-third and Twenty-fourth Wards	1,260	00
Fitting-up new lamps	472	00
Fitting-up new lamps, Twenty-third and Twenty-fourth Wards	56	00
Resetting and repairing lamp-posts	920	00
Resetting and repairing lamp-posts, Twenty-third and Twenty-fourth Wards	107	50
Lighting public lamps	56,368	80
Lighting public lamps, Twenty-third and Twenty-fourth Wards	21,138	14
Lighting naphtha-lamps	500	00
Lighting electric-lamps	30,237	90

Total.....	\$123,989 87
------------	--------------

*Summary of the Appropriation for "Lamps and Gas and Electric Lighting," showing the Amount Expended during the Quarter ending June 30, 1887, with the Balance standing to the Credit of the Appropriation.*

Balance against which no vouchers have been drawn.....	\$484,648 69
--	--------------

Consolidated Gas Co., lighting public lamps, months of May and June ..	\$55,028 90
Equitable Gas-light Co., " " ..	3,413 35
N. Y. Mutual Gas-light Co., " " ..	610 74
Central Gas-light Co., " " ..	11,249 18
Northern Gas-light Co., " " ..	8,901 52
Yonkers Gas-light Co., " " ..	1,601 70
N. Y. and N. J. Globe Gas-light Co., " " ..	500 00
Brush Electric Illuminating Co., " " ..	5,654 00
United States Illuminating Co., " " ..	11,020 00
E. P. Gleason Manufacturing Co., repairing, etc., boulevard tops and reflectors ..	85 00
Composite Iron Works, 75 boulevard lamp-posts ..	633 75
John Millis, electric light examinations ..	500 00
Mary Unger, lettering boulevard globes ..	91 50
American Meter Co., repairs to photometric apparatus ..	152 75
J. L. Mott Iron Works, 28 lamp-posts ..	170 00
" " 75 ..	590 00
" " 100 ..	787 00
J. W. Fiske, 350 lamp-irons ..	182 00
D. Prendergast, 250 street lamps ..	500 00

Balance available June 30, 1887.....	\$382,977 30
--------------------------------------	--------------

*Summary of the Appropriation for "Lamps and Gas and Electric Lighting—Salaries," showing the Amount Expended during the Quarter ending June 30, 1887, with the Balance standing to the Credit of the Appropriation.*

Balance available June 30, 1887.....	\$2,947 94
--------------------------------------	------------

*Summary of the "Lamp Account," showing the Number of New Lamps Lighted, Old Lamps Relighted and Lamps Discontinued by each Gas Company during the Quarter ending June 30, 1887.*

Number of lamps lighted March 31, 1887 .....	3,868
Number of new lamps lighted during the quarter.....	3
Number of old lamps relighted during the quarter.....	4

Number of lamps lighted June 30, 1887.....	.....	3,868
--	-------	-------

Number of lamps lighted March 31, 1887 .....	2,671
Number of new lamps lighted during the quarter .....	3
Number of old lamps relighted during the quarter .....	1

Number of lamps lighted June 30, 1887.....	2,670
--	-------

Number of lamps lighted March 31, 1887 .....	2,709
Number of new lamps lighted during the quarter.....	14
Number of old lamps relighted during the quarter.....	3

Number of lamps lighted June 30, 1887.....	.....	2,714
--	-------	-------

Number of lamps lighted March 31, 1887 .....	3,167
Number of new lamps lighted during the quarter .....	40
Number of old lamps relighted during the quarter .....	9

Number of lamps lighted June 30, 1887.....	3,108
--	-------

Number of lamps lighted March 31, 1887 .....	5,559
Number of new lamps lighted during the quarter .....	106
Number of old lamps relighted during the quarter .....	11

Number of lamps lighted June 30, 1887.....	5,665
--	-------

Total number of lamps lighted by Consolidated Gas Com-	
--	--

Party, June 30, 1887.....	.....	.....	18,115
---------------------------	-------	-------	--------

Number of lamps lighted March 31, 1887.....	208
Number of new lamps lighted during the quarter.....	0
Number of old lamps relighted during the quarter.....	0

Number of lamps lighted June 30, 1887 .....	207
---	-----

Number of lamps lighted March 31, 1887.....	1,677
Number of new lamps lighted during the quarter.....	3
Number of old lamps relighted during the quarter.....	0

Number of lamps lighted June 30, 1887	1,670
---------------------------------------	-------

Number of lamps lighted March 31, 1887 .....	2,341
Number of new lamps lighted during the quarter .....	20
Number of old lamps relighted during the quarter .....	12

Number of lamps lighted June 30, 1887	3,350
---------------------------------------	-------

Number of lamps lighted March 31, 1887.....	1,726
Number of new lamps lighted during the quarter.....	48
Number of old lamps relighted during the quarter.....	1

Number of lamps lighted June 30, 1887			1,760
---------------------------------------	--	--	-------

Number of lamps lighted March 31, 1887.....	337
Number of new lamps lighted during the quarter.....	0
Number of old lamps relighted during the quarter.....	0

Number of lamps lighted June 30, 1887	237
---------------------------------------	-----

Total number of gas-lamps lighted June 30, 1887.....	24,448
--	--------

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

Number of lamps lighted March 31, 1887.....	120
Number of new lamps lighted during the quarter.....	0
Number of old lamps relighted during the quarter.....	0

Less lamps discontinued during the quarter .....	120
--	-----

Total number of naphtha-lamps lighted June 30, 1887	130
---	-----



ELECTRIC-LAMPS.			RECAPITULATION FOR QUARTER.		
BRUSH ELECTRIC ILLUMINATING COMPANY.					
Number of lamps lighted March 31, 1887.....	348	336	Number of gas-lamps lighted March 31, 1887.....	24,263	25,094
Number of new lamps lighted during the quarter.....	0		Number of naphtha-lamps lighted March 31, 1887.....	120	
Number of old lamps relighted during the quarter.....	0		Number of electric-lamps lighted March 31, 1887.....	711	
Less lamps discontinued during the quarter.....	12		Number of new gas-lamps lighted during the quarter.....	237	
Number of lamps lighted June 30, 1887.....	336		Number of new naphtha-lamps lighted during the quarter.....	0	279
UNITED STATES ILLUMINATING COMPANY.			Number of new electric-lamps lighted during the quarter.....	0	
Number of lamps lighted March 31, 1887.....	363	363	Number of gas-lamps relighted during the quarter.....	42	
Number of new lamps lighted during the quarter.....	0		Number of naphtha-lamps relighted during the quarter.....	0	
Number of old lamps relighted during the quarter.....	0		Number of electric-lamps relighted during the quarter.....	0	
Less lamps discontinued during the quarter.....	0		Less gas-lamps discontinued during the quarter.....	94	25,373
Number of lamps lighted June 30, 1887.....	363		Less naphtha-lamps discontinued during the quarter.....	0	
			Less electric-lamps discontinued during the quarter.....	12	
Total number of electric-lamps lighted June 30, 1887.....	699		Total number of lamps lighted June 30, 1887.....	25,267	

## EXHIBIT "E."

Statement giving the Illuminating Power in candles of the Gas supplied to the City by the several Gas-light Companies during the Quarter ending June 30, 1887, as shown by the Daily Observations at the Photometrical Rooms of the Department of Public Works.

FOR WHAT TIME.	CONSOLIDATED GAS CO. NEW YORK BRANCH.			CONSOLIDATED GAS CO. MANHATTAN BRANCH.			CONSOLIDATED GAS CO. MUNICIPAL BRANCH.			CONSOLIDATED GAS CO. METROPOLITAN BRANCH.			CONSOLIDATED GAS CO. KNICKERBOCKER BRANCH.			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.
April 2.....	24.90	26.59	25.76	19.25	21.22	19.84	25.04	27.44	26.27	20.10	21.22	20.90	23.61	25.36	24.52	27.25	29.88	29.12	29.95	32.08	30.76
" 9.....	25.45	29.90	26.90	19.86	21.98	20.99	28.52	30.11	29.43	20.26	21.68	21.04	24.53	25.79	25.36	29.39	30.48	30.06	31.39	33.47	32.11
" 16.....	25.59	27.53	26.53	20.40	21.90	21.04	29.53	31.04	30.23	20.68	21.48	21.21	24.55	25.80	25.23	29.83	31.76	30.54	30.55	32.80	31.91
" 23.....	24.71	26.36	25.82	19.50	20.54	19.92	26.94	28.84	28.14	21.63	22.92	22.36	23.63	25.56	24.64	28.54	30.68	29.44	31.66	33.08	32.43
" 30.....	25.45	27.01	26.17	20.21	20.79	20.39	26.33	28.14	27.34	21.52	23.78	22.48	24.61	26.55	25.62	28.30	30.10	29.42	29.64	32.35	30.94
May 7.....	25.33	29.04	27.31	19.65	20.75	20.37	27.46	28.50	27.85	22.19	23.33	22.87	24.34	25.82	25.16	28.12	30.50	29.59	29.13	32.38	31.06
" 14.....	25.35	26.43	26.08	19.96	20.74	20.34	27.89	29.16	28.47	22.67	24.64	23.36	25.65	26.53	26.13	27.60	30.87	29.39	30.34	31.04	30.79
" 21.....	25.08	28.86	26.37	19.58	21.03	20.27	27.96	29.46	28.62	22.48	23.96	23.20	24.56	26.69	25.88	28.20	30.86	29.21	30.84	31.79	31.50
" 28.....	26.09	28.16	26.97	19.69	21.37	20.12	28.68	30.43	29.43	22.79	23.88	23.30	24.83	27.18	25.80	26.23	30.86	29.36	30.14	32.55	31.34
June 4.....	26.23	27.12	26.71	19.94	22.13	21.11	27.26	30.03	28.43	22.68	23.55	22.95	24.55	25.83	24.98	29.21	32.70	30.61	30.51	32.06	31.18
" 11.....	26.94	28.94	27.84	20.70	21.48	20.99	28.04	29.47	28.68	21.20	22.74	22.14	23.94	25.18	24.63	30.22	31.14	30.72	32.04	33.57	32.81
" 18.....	25.30	27.24	26.35	20.18	22.70	20.86	27.47	30.58	28.84	21.55	24.41	22.97	24.43	28.27	26.51	28.03	32.27	29.80	29.25	31.95	30.36
" 25.....	27.11	29.30	28.50	20.88	21.54	21.26	28.31	29.02	28.60	20.54	22.36	21.62	24.90	26.15	25.49	27.62	30.51	29.03	29.49	31.42	30.15
For the Quarter.....	24.71	29.90	26.72	19.26	22.70	20.58	25.04	30.58	28.49	20.10	21.64	22.34	23.61	28.27	25.38	26.23	32.70	29.72	29.13	33.57	31.34
Distance from Gas-works.....	1.8 Miles			1.6 Miles			3.1 Miles			3.1 Miles			1.5 Miles			1.6 Miles			2.7 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, June 30, 1887.

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, 1887.

## NEW COURT-HOUSE.

Repairs have been made to the vault light doors, a wrought-iron door has been put in and repairs made to grating. Some changes made to wire railing, flooring laid in "Lis Pendens" room and a "tub" built for use of the bookbinders in the County Clerk Office.

## CITY HALL.

Enlarged accommodations have been afforded the Relief Committee G. A. R.

## 31 CHAMBERS STREET.

In rooms 9 and 15 the partition has been changed to admit of more room, the plastering repaired, and wood work and new plaster painted, repairs have been made to the iron revolving shutters at entrance. A map closet has been put up in the office of Engineer in charge of sewers. In the basement, the plastering has been repaired, the walls and ceilings washed off and kalsomined, and the wood and iron work painted.

## RECEIVER OF TAXES.

The office of the Receiver of Taxes, hitherto located in the Brown-stone Building, has been transferred to the Stewart Building, the change has been effected, and the alterations necessary to be made are now in progress.

## HALL OF RECORDS.

In the Register office pigeon-holes and book-racks have been put up, and extensions made to shelving, the ceiling of the toilet-room has been taken down and replaced by a hard finish ceiling.

## 49 BEEKMAN STREET.

This roof has been repaired and painted and the coping pointed up.

## TOMBS BUILDING.

An iron wire railing has been put up enclosing the Sergeant's desk, the ceilings and walls of the clerk's office of the Court of Special Sessions have been kalsomined, the cap stone and cornice on the south main entrance have been pointed up, a case for the safe-keeping of documents has been put up in the office of Clerk of Special Sessions.

## ARSENAL, CORNER WHITE AND ELM STREETS.

The joints in the east and north walls, and the cornice on the street fronts have been pointed up with Portland cement, the chimneys and the fire-wall on the north side have been taken down and rebuilt, the walls of the northwest tower have been lowered and covered with blue-stone coping.

## COUNTY JAIL.

New castings furnished and repairs made to kitchen range.

Third District Court-house—In the Second District Police Court, located in this building, a general cleaning up has been effected; the court-room, together with the adjoining rooms, namely, Court offices, corridors, prison-pens and closets, have been renovated to the extent of the walls and ceiling being washed off, kalsomined and painted. The wood and iron work in this court-room floor has been painted.

All the brick and stone work on clock tower above the balcony have been thoroughly cleaned out and painted with Portland cement.

Fifth District Court-house—The dangerous portion of the stone wall has been taken down, rebuilt and the coping reset. The insecure parts of the front and rear area walls have been made good and the coping secured, and yard flagging relaid.

Pigeon-holes have been constructed and put in place for use of the Civil Court.

## CIVIL AND POLICE COURTS.

Eleventh District Civil Court—Repairs have been made to iron railing in Court room.

Third District Police Court—This court-room and offices have been thoroughly renovated, the plastering repaired, ceilings kalsomined, walls, wood and iron work painted, alterations and changes have been made to iron railings in front of Judge's bench.

## THIRD DISTRICT COURT-HOUSE.

The lift or elevator has been furnished with new rope, sheave, axle, and necessary castings to place the same in good working order.

## CITY PROPERTY NOS. 8, 10 AND 12 CHAMBERS STREET.

The old slate roofs have been taken off, the defective roof planking removed, new timber put in, new tin roofs have been put on and the same painted, the coping and gutters have been reset, the leaders repaired and addition made thereto.

## CLINTON MARKET.

The skylights have been overhauled, new sash frames put in, and glass supplied where needed, and iron window guards put on windows, the tin and gravel roofs repaired and new tin work painted.

## FULTON MARKET.

In the above market galvanized strainers have been put in leaders where needed. The asphalt flooring in the gangways and passages on Beekman street and to the centre of the market on Front street has been taken up, all the damaged timbers removed, the space underneath the flooring filled in with clean earth, chestnut sleepers put down and a new floor of second yellow pine flooring plank laid. The east end of both sections of the gravel roof have been secured by galvanized iron flashings, the roof tin and slate, and the skylight repaired and painted.

## ESSEX MARKET BUILDING, ELEVENTH REGIMENT.

The east side of the drill-room, the eastern end of the floor of the main drill-room used by the Eleventh Regiment has been shored up, new yellow pine girders and iron columns put in to secure the same, 100 lockers for the safe keeping of State and regimental property have been constructed and put in place.

## JEFFERSON MARKET.

The damaged portion of ceilings on the corner of Sixth and Greenwich avenues has been repaired.







DATE.	TIME.	Thermometer.	Barometer.	GAS COMPANY.	BURNER.	Pressure as Delivered to Burner.	Consumption of Gas, Rate per hour.	Consumption of Candle, Grs. per hour.	ILLUMINATING POWER.	
									Observed.	Corrected.
Aug. 1	8.50 A.M.	87.	30.00	Equitable.....	Bray's Slit Union, 7	.84	5.00	120.0	28.89	28.89
" 2	7.30 A.M.	87.	29.98	" .....	"	.84	5.00	120.0	29.71	29.71
" 3	8.50 A.M.	84.	30.09	" .....	"	.84	5.00	116.4	30.49	29.57
" 4	8.30 A.M.	82.	30.27	" .....	"	.86	5.00	126.0	27.32	28.68
" 5	8.50 A.M.	82	30.16	" .....	"	.86	5.00	120.0	29.51	29.51
" 6	8.30 A.M.	84.	29.89	" .....	"	.85	5.00	114.0	33.11	31.45
Average.									29.65	
Aug. 1	10 A.M.	87.	30.00	Metropolitan...	" No. 6	.68	5.00	126.0	20.43	21.45
" 2	9.30 A.M.	86	30.00	" .....	"	.70	5.00	124.2	20.26	20.97
" 3	10 A.M.	84.	30.09	" .....	"	.70	5.00	121.2	21.00	21.21
" 4	3.30 A.M.	83.	30.28	" .....	"	.70	5.00	120.0	20.39	20.39
" 5	10 A.M.	84.	30.16	" .....	"	.70	5.00	123.0	20.24	20.75
" 6	3.30 P.M.	84.	29.85	" .....	"	.65	5.00	115.2	21.36	20.50
Average.									20.87	
Aug. 1	9.30 A.M.	87.	30.00	Knickerbocker.	"	.78	5.00	122.4	21.36	21.79
" 2	10 A.M.	86.	30.00	" ..	"	.78	5.00	120.0	22.30	22.30
" 3	9.30 A.M.	84.	30.09	" ..	"	.80	5.00	122.4	21.20	21.62
" 4	10 A.M.	83.	30.28	" ..	"	.80	5.00	121.2	22.01	22.23
" 5	9.30 A.M.	84.	30.16	" ..	"	.80	5.00	120.0	22.03	22.03
" 6	4 P.M.	84	29.85	" ..	"	.80	5.00	126.0	21.51	22.58
Average.									22.09	

E. G. LOVE, PH. D., Gas Examiner.

## Permits Issued.

- 94 permits to tap Croton pipes.
- 50 permits to open streets.
- 39 permits to make sewer connections.
- 27 permits to repair sewer connections.
- 187 permits to place building material on streets.
- 13 permits—special.
- 3 permits to construct street vaults.

## Obstructions Removed.

- 9 obstructions removed from the various streets and avenues.

## Pavement Repairs.

- 10,423 square yards of pavement repaired in various streets and avenues.

## Repairing and Cleaning Sewers.

- 67 receiving-basins and culverts cleaned.
- 710 lineal feet of sewer cleaned.
- 20 lineal feet of sewer rebuilt.
- 3 lineal feet of spur pipe laid.
- 4 lineal feet of new curb set.
- 22 manholes repaired.
- 1 basin repaired.
- 1 new basin head and cover put on.
- 2 new manhole heads and covers put on.
- 4 new manhole covers put on.
- 20 manhole heads reset.
- 108 cubic yards of earth excavated and refilled.
- 36 square yards of pavement relaid.
- 30 cart-loads earth filling.
- 223 cart-loads of dirt removed.

Statement of Laboring Force Employed in the Department of Public Works during the Week ending August 5, 1887.

NATURE OF WORK.	MECHANICS.	LABORERS.	TEAMS.	CARTS.
Aqueduct—Repairs and maintenance and strengthening.....	50	211	18	7
Supplying water to shipping.....	5	...	..	..
Laying Croton pipes.....	3	11	2	..
Repairs and renewals of pipes, stop-cocks, etc.....	55	127	2	11
Bronx River Works—Maintenance and repairs.....	2	20	2	1
Repairing and cleaning sewers.....	5	48	..	23
Repairs and renewals of pavements.....	155	272	2	84
Boulevards, roads and avenues—Maintenance of .....	13	71	29	2
Roads, streets and avenues.....	1	24	6	..
Totals.....	289	784	61	128
Increase over previous week .....	..	3	..	1
Decrease from previous week .....	1	..	..	..

## Requisitions on the Comptroller.

The total amount of requisitions drawn by the Department on the Comptroller during the week is \$94,087.62.

D. LOWBER SMITH, Deputy Commissioner of Public Works.

## APPROVED PAPERS.

Resolved, That the name of William Romer, recently appointed a Commissioner of Deeds, be and is hereby corrected so as to read William Roemer.

Adopted by the Board of Aldermen, August 16, 1887.

Resolved, That the name of Otto I. Overbauer, recently appointed Commissioner of Deeds, be corrected so as to read Otto I. Oberbauer.

Adopted by the Board of Aldermen, August 16, 1887.

## HEALTH DEPARTMENT

Births \* reported during the week ending August 13, 1887.

TOTAL.	COLOR.		SEX.			NATIVITY OF PARENTS.								NAME OF CHILD.		
	White.	Colored.	Male.	Female.	Not stated.	Foreign.	Native.	Foreign Father only.	Foreign Mother only.	NATIVITY OF FATHER STATED ONLY		NATIVITY OF MOTHER STATED ONLY		Not stated.	Stated.	Not stated.
										Native.	Foreign.	Native.	Foreign.			
740	735	5	385	355	..	391	228	74	41	..	..	3	3	..	629	111

Marriages \* reported during the week ending August 13, 1887.

TOTAL.	COLOR.		NATIVITY.						CONDITION.					
	White.	Colored.	Foreign.	Native.	Born at Sea.	Not stated.	First Marriage.	Second Marriage.	Third Marriage.	Fourth Marriage.	Not stated.	Not stated.	Not stated.	Not stated.
288	285	3	218	209	70	79	..	..	..	..	..	..	..	..

\* The returns of births, marriages, and still-births are incomplete.

Nativity of those who were Married, and the Parents of the Births and Still-Births, for the week ending August 13, 1887, and those who Died (actual mortality), week ending August 6, 1887.

NATIVITY OF DECEASED.	COUNTRY.	DEATHS.		BIRTHS.		MARRIAGES.		STILL-BIRTHS.	
		Nativity of Father.	Nativity of Mother.	Nativity of Father.	Nativity of Mother.	Nativity of Groom.	Nativity of Bride.	Nativity of Father.	Nativity of Mother.
7	Austria.....	29	28	35	33	21	24	3	4
3	British America.....	7	6	0	0	1	1	..	..
11	England.....	21	21	18	21	10	7	..	..
1	France.....	3	2	9	6	4	4	..	..
93	Germany.....	240	228	192	155	65	62	16	13
139	Ireland.....	255	260	103	111	6	9	10	10
11	Italy.....	25	27	12	12	7	6	..	..
10	Poland.....	4	4	21	20	3	3	..	..
5	Scotland.....	22	14	5	7	1	1	..	..
5	Switzerland.....	5	5	4	3	1	5	..	..
568	United States.....	169	191	260	305	70	79	12	17
3	Unknown or not stated.....	49	49	6	..	..	..	7	5
1	West Indies.....	1	2	1	1	1	2	..	..
18	Other countries.....	36	33	60	50	32	21	3	5

Still-Births reported during the week ending August 13, 1887.

TOTAL.	SEX.		COLOR.	NATIVITY OF				PERIOD OF UTERO-GESTATION.									
	Male.	Female.		FATHER.	MOTHER.	Not stated.	Not stated.	1	2	3	4	5	6	7	8	9	10
60	39	18	3	59	..	1	12	41	7	17	38	5	..	3	1	2	7

Deaths reported during the week ending August 13, 1887.

TOTAL.	PLACE OF DEATH.										RESIDENCE.	CONDITION.			
	Institutions.	Tenement-houses (four families or more).	Houses containing three families or less.	Hotels and boarding-houses.	In Rivers, Streets, Boats, etc.	Not stated.	Basement.	First.	Second.	Third.	Fourth.	Not stated.	Single.	Married.	Widowed.
741	128	446	146	5	16	..	11	161	167	135	78	41	4	..	..

† Principally children and deaths in Institutions.



# HEALTH DEPARTMENT OF THE CITY OF NEW YORK, SANITARY BUREAU, DIVISION OF VITAL STATISTICS.

REPORTED MORTALITY\* for the week ending August 13, 1887, together with the ACTUAL MORTALITY for the week ending August 6, 1887.

W. DE F. DAY, M. D., Sanitary Superintendent and Register:

SIR—There were 741 deaths reported to have occurred in this city during the week ending Saturday, August 13, 1887, which is a decrease of 187, as compared with the number reported the preceding week, and 19 more than were reported during the corresponding week of the year 1886. The actual mortality for the week ending August 6, 1887, was 870, which is 15.2 above the average for the corresponding week for the past five years, and represents an annual death-rate of 30.44 per 1,000 persons living, the population estimated at 1,486,266.

Table showing the Reported Mortality for the week ending August 13, 1887, and the Actual Number of Deaths each day, from the Principal Causes, with the Ages of Decedents, for the week ending August 6, 1887.

METEOROLOGY.		Week ending Aug. 13.	Week ending Aug. 6.	ACTUAL NUMBER OF DEATHS EACH DAY DURING THE WEEK ENDING SATURDAY, AUGUST 6, 1887.							AGE BY YEARS.																SEX.										
Mean temperature (Fahr.) for the week was.		70.0	77.6																																		
" reading of barometer		29.974	29.890																																		
" humidity for the week was.....		61	73																																		
Number of miles traveled by the wind was..		821	695																																		
Total rain-fall, in inches, for the week.....		.41	.41																																		
CAUSES OF DEATH.		Total Deaths reported during the week ending Aug. 13, 1887.	Total Deaths reported during the week ending Aug. 6, 1887.	DATE.							Total Actual Mortality during the week ending Aug. 6, 1887.	Actual number of Deaths for the corresponding week of 1886.	Average number of Deaths in the corresponding week of the past five years.	Annual Death-rate per 1,000, during week (population estimated at 1,486,266).	AGE BY YEARS.																Male.	Female.	COLORIED.				
				July 31.	Aug. 1.	Aug. 2.	Aug. 3.	Aug. 4.	Aug. 5.	Aug. 6.				Under 1 year.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	Total under 5 years.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 and over.				
Total Deaths from all Causes.....		741	928	177	147	142	103	86	96	113	870	705	719.8	30.44	293	64	21	19	8	405	18	6	21	41	51	59	57	50	24	47	23	19	18	31	496	374	26
Total Zymotic Diseases.....		273	303	50	38	45	42	26	32	40	273	270	287.8	9.55	100	33	8	10	5	216	9	3	3	7	6	4	3	3	5	2	2	5	132	141	5		
Total Constitutional Diseases.....		131	171	26	24	23	18	25	20	24	161	132	146.2	5.67	35	4	1	1	1	41	3	0	11	18	13	14	15	6	11	6	6	4	5	88	73	9	
Total Local Diseases.....		263	370	77	72	66	34	25	34	41	349	235	218.4	12.21	67	26	12	5	3	113	3	3	8	17	19	33	34	26	13	29	13	10	18	215	134	11	
Total Developmental Diseases.....		45	39	11	7	5	5	5	6	7	49	46	44.2	1.43	30	1	1	1	1	30	1	1	2	2	1	1	1	1	1	1	1	2	3	24	17	1	
Deaths by Violence.....		29	45	13	6	8	4	4	4	7	46	22	32.2	1.61	1	1	1	3	1	5	3	1	4	6	6	5	6	2	2	2	1	1	1	37	9	1	
Small-pox.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Measles.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Scarlatina.....		6	7	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Diphtheria.....		31	23	2	4	4	1	3	4	4	28	26	16.2	1.77	2	3	4	5	2	16	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Membranous Croup.....		5	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Whooping Cough.....		6	9	1	1	1	1	1	1	1	7	10	14.4	2.4	4	1	1	1	1	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Erysipelas.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Typhus Fever.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Yellow Fever.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Typhoid Fever.....		11	14	1	1	3	1	1	1	1	10	6	6.6	35	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Cerebro-Spinal Fever.....		3	3	1	1	1	1	1	1	1	3	5	3.4	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Remittent, Intermittent, Typho-Malarial, Congestive and Simple Continued Fevers.....		7	8	1	1	1	1	1	1	1	4	5	8.2	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Puerperal Diseases.....		6	8	1	1	1	1	1	1	1	7	11	6.8	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Diarrhoeal Diseases.....		182	217	37	27	31	36	18	21	25	195	174	199.8	6.82	135	29	3	1	1	168	1	1	1	3	2	2	1	2	4	2	2	2	4	93	102	5	
Inanition, Want of Breast Milk, etc.....		5	7	2	1	1	1	1	1	1	3	8	5.4	28	1	1	1	1	1	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Alcoholism.....		6	7	1	1	1	1	1	1	1	2	7	4	2.6	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rheumatism and Gout.....		1	3	1	1	1	1	1	1	1	1	1	2.4	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Cancer.....		10	13	1	2	1	2	3	1	1	10	17	13.4	35	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Phthisis Pulmonalis.....		77	112	21	14	14	13	17	13	13	105	79	89.4	3.67	2	1	1	1	1	2	1	6	10	16	14	14	14	6	10	2	6	1	3	60	45	6	
Bronchitis.....		27	9	1	1	2	2	3	1	3	13	18	14.6	45	7	1	1	1	1	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Pneumonia.....		13	27	4	6	3	1	1	3	3	20	28	25.8	1.70	5	3	1	2	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Heart Diseases.....		34	35	5	10	0	1	2	5	5	34	22	20.0	1.19	1	1	1	1	1	1	1	2	3	4	2	4	3	1	4	3	2	5	20	14	3		
Aneurism.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Marasmus—Tubercular and Scrofula.....		26	30	3	3	5	1	5	6	7	30	20	26.6	1.05	26	3	1	1	1	29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Hydrocephalus and Tubercular Meningitis.....		14	12	4	4	3	1	1	1	1	11	14	13.2	38	7	1	1	1	1	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Meningitis and Encephalitis.....		21	19	4	4	3	4	1	2	6	23	14	14.2	80	7	6	4	1	17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Convulsions.....		11	13	2	2	2	1	1	1	4	16	7	9.5	50	12	2	1	1	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Direct Effect of Solar Heat.....		3	106	35	25	18	9	1	2	2	90	5	3.4	3.15	5	1	1	1	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Apoplexy.....		12	10	5	1	3	1	1	2	2	15	14	9.8	52	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
All Diseases of the Brain and Nervous System.....		58	169	47	36	29	16	4	6	14	155	56	53.4	5.32	26	8	7	1	42	1	1	1	7	10	18	16	17	8	13	3	4	6	7	104	48	1	
Cirrhosis of Liver and Hepatitis.....		11	7	1	3	1	1	1	1	1	6	7	6.4	21	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Enteritis, Gastro-Enteritis, Peritonitis, and Gastritis.....		43	36	7	9	9	4	6	4	9	48	39	29.8	1.68	22	14	1	1	1	37	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Bright's Disease and Nephritis.....		47	57	9	0	12	5	6	8	5	51	43	36.8	1.78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Cyanosis and Atelectasis.....		11	6	1	1	1	1	1	1	1	3	5	6.2	17	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Premature and Preterm Births.....		18	12	4	4	1	2	1	2	2	15	13	16.6	52	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Surgical Operations.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Deaths by Suicide.....		2	6	1	2	1	1	1	1	1	4	5	3.0	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Deaths by Drowning.....		8	17	8	1	3	2	1	3	2	19	7	7.0	66	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Deaths in Children.....		286	295	49	47	47	43	27	36	42	293	266	271																								



## METEOROLOGICAL OBSERVATORY

OF THE

## DEPARTMENT OF PUBLIC PARKS

CENTRAL PARK, NEW YORK.

Latitude 40° 45' 58" N. Longitude 73° 57' 58" W. Height of Instruments above the Ground, 53 feet; above the Sea, 97 feet.

## ABSTRACT OF REGISTERS FROM SELF-RECORDING INSTRUMENTS,

For the week ending August 13, 1887.

## Barometer.

DATE. AUGUST.		7 A.M.	2 P.M.	9 P.M.	MEAN FOR THE DAY.	MAXIMUM.		MINIMUM.	
		Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Time.	Reduced to Freezing.	Time.
Sunday,	7	29.900	29.946	30.010	29.952	30.046	12 P.M.	29.794	0 A.M.
Monday,	8	30.150	30.158	30.160	30.156	30.182	12 M.	30.046	0 A.M.
Tuesday,	9	30.186	30.100	30.090	30.125	30.186	7 A.M.	30.050	12 P.M.
Wednesday,	10	30.038	29.972	29.926	29.979	30.050	0 A.M.	29.908	11 P.M.
Thursday,	11	29.900	29.808	29.800	29.836	29.912	0 A.M.	29.778	6 P.M.
Friday,	12	29.782	29.746	29.842	29.790	29.888	12 P.M.	29.746	2 P.M.
Saturday,	13	29.978	29.978	29.992	29.983	30.000	12 P.M.	29.888	0 A.M.

Mean for the week ..... 29.974 inches.  
Maximum " at 7 A.M., August 9th ..... 30.186 "  
Minimum " at 2 P.M., August 12th ..... 29.746 "  
Range " ..... .440 "

## Thermometers.

DATE. AUGUST.		7 A.M.	2 P.M.	9 P.M.	MEAN.	MAXIMUM.		MINIMUM.		MAXIMUM.
		Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	In Sun.
Sunday,	7	67	58	72	65	59	68.0	59.0	73	5 P.M. 61
Monday,	8	62	53	69	56	67	66.0	56.3	78	4 P.M. 64
Tuesday,	9	66	58	75	64	68	69.6	60.6	78	5 P.M. 66
Wednesday,	10	65	58	79	70	75	73.0	66.0	80	3 P.M. 71
Thursday,	11	70	65	80	73	70	73.3	68.0	80	3 P.M. 74
Friday,	12	72	66	84	73	70	75.3	66.6	86	3 P.M. 73
Saturday,	13	62	54	68	58	66	65.3	57.3	74	5 P.M. 62

Mean for the week ..... 70.0 degrees.  
Maximum for the week, at 3 P.M., 12th ..... 86. " at 3 P.M., 11th ..... 74. "  
Minimum " at 5 A.M., 8th ..... 58. " at 5 P.M., 8th ..... 52. "  
Range " ..... 28. " ..... 22. "

## Wind.

DATE. AUGUST.		DIRECTION.			VELOCITY IN MILES.				FORCE IN POUNDS PER SQUARE FOOT.				Time.
		7 A.M.	2 P.M.	9 P.M.	7 A.M.	2 P.M.	9 P.M.	Distance for the Day.	7 A.M.	2 P.M.	9 P.M.	Max.	
Sunday,	7....	NNE	NW	N	66	70	38	174	1	0	0	1 1/2	8 A.M.
Monday,	8....	N	ENE	SE	15	41	27	83	0	0	0	1/4	9-40 A.M.
Tuesday,	9....	NW	SE	S	6	20	42	68	0	0	0	1/4	3-10 P.M.
Wednesday,	10....	SW	S	S	33	47	44	118	0	1/4	0	1/2	3 P.M.
Thursday,	11....	SW	SSE	SSW	70	49	39	158	1/4	0	0	9/16	7 P.M.
Friday,	12....	WSW	WNW	NNW	24	26	55	105	0	0	0	1/4	3-30 P.M.
Saturday,	13....	NNE	NW	SE	61	39	15	115	0	0	0	1/4	4-15 A.M.

Distance traveled during the week ..... 821 miles.  
Maximum force " ..... 9 1/2 pounds.

DATE.  AUGUST.	Hygrometer.						Clouds.			Rain and Snow. Ozone.					
	FORCE OF VAPOR.			RELATIVE HUMIDITY.			CLEAR, O. OVERCAST, 10.			DEPTH OF RAIN AND SNOW IN INCHES.					
	7 A.M.	2 P.M.	9 P.M.	7 A.M.	2 P.M.	9 P.M.	7 A.M.	2 P.M.	9 P.M.	Time of Beginning.	Time of Ending.	Duration. H. M.	Amount of Water.	Depth of Snow.	O. 10.
Sunday, 7	.363	.358	.420	55	45	68	0	0	0	.....	.....	.....	.....	.....	1
Monday, 8	.284	.276	.425	51	39	64	0	1 Cir.	1 Cir.	.....	.....	.....	.....	.....	0
Tuesday, 9	.376	.449	.411	59	52	60	2 Cir.	5 Cir.	0	.....	.....	.....	.....	.....	0
Wedn'day, 10	.389	.612	.666	63	62	77	4 Cir.	7 Cir.	5 Cir.	.....	.....	.....	.....	.....	0
Thursday, 11	.550	.717	.586	75	70	80	8 Cir. Cu.	10	10	6.30 P.M.	10 P.M.	3.30	.41	.....	0
Friday, 12	.559	.663	.416	71	57	57	3 Cir.	2 Cir.	0	.....	.....	.....	.....	.....	3
Saturday, 13	.312	.350	.438	56	51	68	1 Cir.	1 Cir.	0	.....	.....	.....	.....	.....	0

Total amount of water for the week ..... .41 inch.  
Duration for the week ..... 0 day, 3 hours, 30 minutes.

DANIEL DRAPER, PH. D., Director.

## DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

MEETINGS, AUGUST 1 TO 6, 1887.

## Communications Received.

From Penitentiary—List of prisoners received during week ending July 30, 1887: Males, 24; females, 3. On file.  
List of 45 prisoners to be discharged from August 7 to 13, 1887. Transmitted to Prison Association.  
From Lunatic Asylum, Blackwell's Island—History of 13 patients received during week ending July 30, 1887. On file.  
From N. Y. City Asylum for Insane, Ward's Island—History of 14 patients received during week ending July 30, 1887. On file.  
From Heads of Institutions—Reporting meats, milk, vegetables, etc., received during week ending July 30, 1887, of good quality and up to the standard. On file.  
From the Comptroller—Weekly statement of unexpended balances up to and including July 30, 1887. On file.  
From City Prison—Amount of fines received during week ending July 30, 1887, \$147. On file.  
From District Prisons—Amount of fines received during week ending July 30, 1887, \$331. On file.

## Dismissed.

August 1. Richard McMahon, Attendant, N. Y. City Asylum for Insane.  
2. Mary Purcell, Attendant, Lunatic Asylum.

## Transferred.

August 4. J. S. Wood, Ambulance Surgeon, Bellevue Hospital to Gouverneur Hospital. Salary increased from \$250 to \$600 per annum.  
4. Charles H. Holman, Ambulance Surgeon to Junior Assistant Surgeon, Gouverneur Hospital. Salary increased from \$600 to \$700 per annum.  
6. Emil Hopper, Assistant Orderly to Orderly, Bellevue Hospital. Salary increased from \$180 to \$240 per annum.

## Salary Increased.

August 1. R. M. Miller, Laborer, Storehouse, from \$180 to \$300 per annum.  
2. Rose West, Waitress, Randall's Island Hospital, from \$96 to \$120 per annum.  
6. Bartholomew Barry, Attendant, Randall's Island Hospital, from \$240 to \$300 per annum.

G. F. BRITTON, Secretary.

## 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.  
ABRAM 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, J. B. ADAMSON.

## AQUEDUCT COMMISSIONERS.

Room 209, Stewart Building, 5th floor, 9 A. M. to 5 P. M.  
JAMES C. SPENCER, President; JOHN C. SHEEHAN, Secretary; BENJAMIN S. CHURCH, Chief Engineer; J. C. LULLEY, 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.  
HENRY R. BEEKMAN, President Board of Aldermen.  
FRANCIS J. TWOMEY, Clerk Common Council.

## City Library.

No. 12 City Hall, 10 A. M. to 4 P. M.  
BERNARD JACOBS, 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. BABCOCK, 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. KEESE, City Hall.

## FINANCE DEPARTMENT.

## Comptroller's Office.

No. 15 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
EDWARD V. LOEW, Comptroller; RICHARD A. STORRS, Deputy Comptroller.

## Auditing Bureau.

Nos. 19, 21, 23 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
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 Rents.

Nos. 31, 33, 35, 37, 39 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
ARTEMAS S. CADY, Collector of Assessments and Clerk of Arrears.

## Bureau for the Collection of City Revenue and of Markets.

Nos. 1 and 3 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.  
JAMES J. KELSO, Collector of the City Revenue and Superintendent of Markets.  
GRAHAM MCADAM, 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.  
MORGAN J. O'BRIEN, Counsel to the Corporation.  
ANDREW T. CAMPBELL, Chief Clerk.



**Office of the Public Administrator.**  
No. 49 Beekman street, 9 A. M. to 4 P. M.  
RICHARD J. MORRISON, Public Administrator.

**Office of the Corporation Attorney.**  
No. 49 Beekman street, 9 A. M. to 4 P. M.  
WILLIAM A. BOYD, Corporation Attorney.

#### POLICE DEPARTMENT.

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

#### DEPARTMENT OF CHARITIES AND CORRECTION.

**Central Office.**  
No. 66 Third avenue, corner Eleventh street, 9 A. M. to 4 P. M.  
CHARLES E. SIMMONS, 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, to 12 M.

##### Headquarters.

Nos. 157 and 159 East Sixty-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. SHELTON, Fire Marshal.

##### Bureau of Inspection of Buildings.

ALBERT F. D'ONCH, Superintendent of Buildings.

##### Attorney to Department.

WM. L. FINDLEY.

##### Fire Alarm Telegraph.

J. ELLIOT SMITH, Superintendent of Telegraph, Nos. 155 and 157 Mercer street.

Central Office Fire Alarm Telegraph open at all hours.

##### Repair Shops.

Nos. 128 and 130 West Third street.

JOHN CASTLES, Foreman-in-Charge, 8 A. M. to 5 P. M.

##### Hospital Stables.

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

#### HEALTH DEPARTMENT.

No. 301 Mott street, 9 A. M. to 4 P. M.  
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.  
M. C. D. BORDEN, 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, 3 P. 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.

Nos. 31 and 32 Park Row, "World" Building, Rooms 1, 2 and 3, 9 A. M. to 4 P. M.  
JAMES S. COLEMAN, Commissioner; JACOB SEABOLD, Deputy Commissioner; R. W. HOKNER, Chief Clerk.

#### CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS.

Room No. 11, City Hall.  
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. 11½, 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 REILLY, 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.  
RANDOLPH B. MARTINE, District Attorney; ANDREW D. PARKER, 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, Bookkeeper.

#### CORONERS' OFFICE.

Nos. 13 and 15 Chatham street, 8 A. M. to 5 P. M. Sundays and holidays, 8 A. M. to 12 M.  
MICHAEL J. B. MESSEMER, FERDINAND LEVY, FERDINAND EDMAN, 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, SAMUEL BARRY, Clerk.  
Circuit, Part II., Room No. 14, RICHARD J. SULLIVAN, 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 J. KNIGHT, Librarian.

#### SUPERIOR COURT.

Third floor, New County Court-house, 11 A. M.  
General Term, Room No. 35.  
Special Term, Room No. 33.  
Chambers, Room No. 33, 10 A. M.  
Part I., Room No. 34.  
Part II., Room No. 35.  
Part III., Room No. 36.  
Judges' Private Chambers, Room No. 30.  
Naturalization Bureau, Room No. 32.  
Clerk's Office, Room No. 31, 9 A. M. to 4 P. M.  
JOHN SEDGWICK, Chief Judge; THOMAS BOESE, Chief Clerk.

#### COURT OF COMMON PLEAS.

Third floor, New County Court-house, 11 A. M.  
Assignment Bureau, Room No. 23, 9 A. M. to 4 P. M.  
Clerk's Office, Room No. 22, 9 A. M. to 4 P. M.  
General Term, Room No. 24, 11 o'clock A. M. to adjournment.  
Special Term, Room No. 21, 11 o'clock A. M. to adjournment.  
Chambers, Room No. 21, 10.30 o'clock A. M. to adjournment.  
Part I., Room No. 25, 11 o'clock A. M. to adjournment.  
Part II., Room No. 26, 11 o'clock A. M. to adjournment.  
Part III., Room No. 27, 11 o'clock A. M. to adjournment.  
Naturalization Bureau, Room No. 23, 9 A. M. to 4 P. M.  
RICHARD L. LARREMORE, Chief Justice; NATHANIEL JARVIS, Jr., Chief Clerk.

#### COURT OF GENERAL SESSIONS.

No. 32 Chambers street. Parts I. and II. Court opens at 11 o'clock A. M.  
FREDERICK SMYTH, Recorder; HENRY A. GILDER-SLEEVE and RUFUS B. COWING, Judges of the said Court.  
Terms, first Monday each month.  
JOHN SPARKS, Clerk. Office, Room No. 11, 10 A. M. till 4 P. M.

#### CITY COURT.

City Hall.  
General Term, Room No. 20.  
Trial Term, Part I., Room No. 20.  
Part II., Room No. 19.  
Part III., Room No. 15.  
Special Term, Chambers, Room No. 21, 10 A. M. to 4 P. M.  
Clerk's Office, Room No. 10, City Hall, 9 A. M. to 4 P. M.  
DAVID MCADAM, Chief Justice; JOHN REID, Clerk.

#### OVER AND TERMINER COURT.

New County Court-house, second floor, southeast corner, Room No. 12. Court opens at 10½ o'clock A. M.  
Clerk's Office, Brown-stone Building, City Hall Park, second floor, northwest corner, Room No. 11, 10 A. M. till 4 P. M.

#### COURT OF SPECIAL SESSIONS.

At Tombs, corner Franklin and Centre streets, daily at 10.30 A. M., excepting Saturday.  
Clerk's Office, Tombs.

#### DISTRICT CIVIL COURTS.

First District—First, Second, Third and Fifth Wards, southwest corner of Centre and Chambers streets.  
MICHAEL NORTON, Justice.  
Clerk's office open from 9 A. M. to 4 P. M.

Second District—Fourth, Sixth and Fourteenth Wards, corner of Pearl and Centre streets, 9 A. M. to 4 P. M.  
CHARLES M. CLANCY, Justice.

Third District—Ninth and Fifteenth Wards, southwest corner Sixth avenue and West Tenth street. Court open daily (Sundays and legal holidays excepted) from 9 A. M. to 4 P. M.  
GEORGE W. PARKER, Justice.

Fourth District—Tenth and Seventeenth Wards, No. 30 First street, corner Second avenue. Court opens 9 A. M. daily; continues to close of business.  
ALFRED STECKLER, Justice.

Fifth District—Seventh, Eleventh and Thirteenth Wards, No. 154 Clinton street.  
JOHN H. MCCARTHY, Justice.

Sixth District—Eighteenth and Twenty-first Wards, No. 61 Union place, Fourth avenue, southwest corner of Eighteenth street. Court opens 9 A. M. daily; continues to close of business.  
WILLIAM H. KELLY, Justice.

Seventh District—Nineteenth and Twenty-second Wards, No. 151 East Fifty-seventh street. Court opens every morning at 9 o'clock (except Sundays and legal holidays) and continues to the close of business.  
AMBROSE MONELL, Justice.

Eighth District—Sixteenth and Twentieth Wards, southwest corner of Twenty-second street and Seventh avenue. Court opens at 9 A. M. and continues to close of business. Clerk's office open from 9 A. M. to 4 P. M. each court day.  
FREDERICK G. GEDNEY, Justice.

Ninth District—Twelfth Ward, No. 225 East One Hundred and Twenty-fifth street.  
HENRY P. MCGOWN, Justice.  
Clerk's office open daily from 9 A. M. to 4 P. M. Trial days Tuesdays and Fridays. Court opens at 2½ A. M.

Tenth District—Twenty-third and Twenty-fourth Wards, corner of Third avenue and One Hundred and Fifty-eighth street.  
Office hours, from 9 A. M. to 4 P. M. Court opens at 9 A. M.  
ANDREW J. ROGERS, Justice.

Eleventh District—No. 919 Eighth avenue; Twenty-second Ward, and all that part of the Twelfth Ward lying south of One Hundred and Tenth street and west of Sixth avenue. Court open daily (Sundays and legal holidays excepted) from 9 A. M. to 4 P. M.  
LEO C. DESSAR, Justice.

#### POLICE COURTS.

Judges—MAURICE J. POWER, J. HENRY FORD, JACOB PATTERSON, JR., JAMES T. KILBRETH, JOHN J. GORMAN, HENRY MURRAY, SOLON B. SMITH, ANDREW J. WHITE, CHARLES WELDE, DANIEL O'REILLY, PATRICK G. DUFFY.

George W. CREGIER, Secretary.  
Office of Secretary, Fifth District Police Court, One Hundred and Twenty-fifth street, near Fourth avenue.

First District—Tombs, Centre street.

Second District—Jefferson Market.

Third District—No. 69 Essex street.

Fourth District—Fifty-seventh street, near Lexington avenue.

Fifth District—One Hundred and Twenty-fifth street, near Fourth avenue.

Sixth District—One Hundred and Fifty-eighth street and Third avenue.

#### HEALTH DEPARTMENT.

HEALTH DEPARTMENT OF THE CITY OF NEW YORK,  
No. 301 MOTT STREET,  
NEW YORK, August 20, 1887.

AT A MEETING OF THE BOARD OF HEALTH held at its office on the 18th day of August, 1887, the following resolutions were adopted:

Resolved, That under the power conferred by law upon the Health Department, the following amendments of the Sanitary Code for the security of life and health be and the same are hereby adopted, and declared to form a portion of the Sanitary Code:

Resolved, That section 3 of the Sanitary Code be and is hereby amended so as to read as follows:

Sec. 3. That a "tenement-house" shall be taken to mean and include every house, building, or portion thereof, which is rented, leased, let or hired out to be occupied, or is occupied, as the house, home, or residence of three or more families living independently of one another, and doing their cooking upon the premises, or by more than two families upon a floor, so living and cooking, but having a common right in the halls, stairways, yards, water-closets, or privies, or some of them. A "lodging-house" shall be taken to mean and include any house or building, or portion thereof, in which persons are harbored or received, or lodged for hire for a single night, or for less than one week at a time, or any part of which is let for any person to sleep in for any term less than a week. A "cellar" shall be taken to mean and include every basement or lower story of any building or house of which one-half or more of the height from the floor to the ceiling is below the level of the street adjoining. The phrase "boarding-house" shall be held to include every building and every story and portion thereof, which is at any time or usually used, leased, or occupied, or intended so to be, by any number of persons exceeding ten, as boarders thereat. The word "manufactory" shall be held to include every building, and every story and portion thereof, in which any sort of labor or work is done, which calls for the continual or usual presence of several persons during several hours of the day or night, engaged about said work or labor; and the word "saloon" shall be held to include every portion of any building in which the business of selling meals, liquors, drinks, or refreshments of any kind shall be conducted, and includes "concert-saloons."

Resolved, That section 59 of the Sanitary Code be and is hereby amended so as to read as follows:

Sec. 59. That no building occupied wholly or partly as a slaughter-house, or any part thereof, or any building on the same lot, shall, without a special permit from this Department, be occupied for a dwelling or lodging place; that every such building shall at all times be kept adequately and thoroughly ventilated; that no blood shall be allowed to remain therein over night; that adequate underground connections shall be made from every such building with a public sewer, and the floor of such building on which such slaughtering is done, and the yard shall be cemented and paved so as not to absorb blood.

Resolved, That section 69 of the Sanitary Code be and is hereby amended so as to read as follows:

Sec. 69. That every owner, tenant, lessee and occupant of any building or lot (whether vacant or occupied) within or near the built-up portions of said city, shall keep and cause to be kept the sidewalk and flagging, and curb-stone in front thereof free from obstructions and nuisances of every kind, and shall not allow anything in the area or yard or on or about his premises to become a nuisance, or dangerous and prejudicial to life and health.

Resolved, That section 72 of the Sanitary Code be and is hereby amended so as to read as follows:

Sec. 72. That no keeper of any public pound shall allow the same, or any animal therein, by reason of any want of care, food, ventilation or cleanliness, or otherwise, to be or become dangerous or detrimental to human life or health.

Resolved, That section 87 of the Sanitary Code be and is hereby amended so as to read as follows:

Sec. 87. That no part of the contents of or substances from any sink, privy, or cesspool, nor any manure, or other offensive substance, shall be by any person flung or allowed to run or drop into or remain in any street or public place, except as herein elsewhere specified; nor shall the same be thrown or allowed to fall or run into the North or East river, save through the proper underground sewers.

Resolved, That section 104 of the Sanitary Code be and is hereby amended so as to read as follows:

Sec. 104. That no person shall engage in the business of transporting manure, swill, offal, or any offensive or noxious substance, or in driving any cart for such purpose, in the City of New York, until he shall have first received a permit from this Department of such form and effect as the regulations of the Board shall provide, authorizing such person so to engage.

Resolved, That section 107 of the Sanitary Code be and is hereby amended so as to read as follows:

Sec. 107. That all carts and vehicles for carrying any

nauseous or offensive substances, boxes, tubs and receptacles in which any nauseous or offensive substance may be, or may be carried, shall be strong and tight, and the sides shall be so high above the load or contents that no part of such contents or load shall fall, leak or spill therefrom; and either the vehicles or vessels carried by it, shall be so covered as to be inoffensive.

Resolved, That section 155 of the Sanitary Code be and is hereby amended so as to read as follows:

Section 155. That no captain, agent, or person having charge of or attached to any ferryboat, sailing or other vessel, nor any person in charge of any car, stage or other vehicle, or public or private conveyance, shall convey or allow to be conveyed thereon or by any means aforesaid, nor shall any person convey or allow to be carried or conveyed, in any manner, from or in the City of New York, the dead body of any human being, or any part thereof, without a permit therefor from this Department. And the proper coupon for that purpose attached to any such permit, when issued, shall be preserved and returned to this Department, as its regulations may require, by the proper officer or person on such boat or vessel, and by the proper person in charge of any train of cars or vehicle on which such body may be carried from said city. Provided, however, that the same effect shall be given under this section, to a transit permit for such dead body issued by the Health Office, or Board of Health of the City of Brooklyn, as to a transit permit, issued from this Department, when the death of the person named in the permit shall have occurred in the City of Brooklyn, and provided that the same effect shall be given, under this section, to transit permits issued severally by the Boards of Health of cities, towns or villages in the State of New York, or by Boards of Health that may be hereafter organized, pursuant to chapter 270 of the Laws of 1885 of the State of New York, passed May 12, 1885, being "An Act for the preservation of the public health and the registration of vital statistics," or when issued by the Health Officer of any such city, town or village, as to a transit permit issued from this Department, when the death of the person named in the permit shall have occurred in the city, town or village from which such permit shall have been issued.

And provided that the same effect shall be given, under this section, to a transit permit issued under the laws of the State of New Jersey, and especially pursuant to provisions of an act of said State, entitled, "An act concerning the registry and returns of marriages, births, and deaths," passed April 5, 1878, as to a transit permit issued from this Department; subject, nevertheless, in every case to all the care, precautions and diligence prescribed by the rules and regulations of this Department.

Resolved, That under the power conferred by law upon the Health Department, the following additional sections of the Sanitary Code for the security of life and health be and the same are hereby adopted, and declared to form a portion of the Sanitary Code:

Resolved, That section 210 of the Sanitary Code be and is hereby adopted to read as follows:

Section 210. It shall be the duty of every undertaker having notice of the death of any person within the City of New York of small-pox, diphtheria, scarlet fever, yellow fever, typhus fever, Asiatic cholera, measles, or any other contagious disease dangerous to the general health of the community, or of the bringing of the dead body of any person who has died of any such disease into such City, to give immediate notice thereof to this Department. And no undertaker shall retain or expose, or assist in the retention or exposure of the dead body of any such person except in a coffin or casket properly sealed; nor shall he allow any such body to be placed in any coffin or casket unless the same be immediately permanently sealed. Nor shall he assist in the public or Church funeral of any such person.

Resolved, That section 211 of the Sanitary Code be and is hereby adopted to read as follows:

Section 211. The walls and ceilings throughout any tenement or lodging-house shall be thoroughly whitewashed as required by the Board of Health, and not less than twice in each year.

Resolved, That section 212 of the Sanitary Code be and is hereby adopted to read as follows:

Section 212. The house drain of every dwelling, manufactory, theatre, store or building in the City of New York, used or occupied or intended to be used, or occupied by human beings, must be of iron with a fall at least of one-quarter inch to the foot, and where water-closets discharge into it the drain must be not less than four inches in diameter.

Resolved, That section 213 of the Sanitary Code be and is hereby adopted to read as follows:

Section 213. No brick, sheet metal, earthenware or chimney flue shall be used as a sewer ventilator, or to ventilate any trap, dra, soil or waste pipe.

Resolved, That section 214 of the Sanitary Code be and is hereby adopted so as to read as follows:

Section 214. The soil, waste and vent pipes in an extension to any building must be extended above the roof of the main building if within thirty feet of the windows of the main building or of an adjoining building, or when so located as to cause a nuisance. The diameter of any soil pipe shall not be less than four inches. A waste pipe into which a line of kitchen sinks discharge must be not less than three inches in diameter, and when receiving the waste from five sinks or when connected with five sinks or fixtures, the branch waste pipes shall be not less than one and a half inches in diameter.

Resolved, That section 215 of the Sanitary Code be and is hereby adopted to read as follows:

Section 215. All joints in iron drain pipes, soil and waste pipes, must be so filled with oakum and lead and hand caulked as to make them gas-tight. All connections of lead with iron pipes must be made with a brass sleeve or ferrule of the same size as the lead pipe, put in the hub of the branch of the iron pipe, and caulked with lead. The lead pipe must be attached to the ferrule by a wiped or overcast joint. All connections of lead waste and vent pipes shall be made by means of wiped joints.

Resolved, That section 216 of the Sanitary Code be and is hereby adopted to read as follows:

Section 216. Every water-closet, urinal, sink, basin, wash-tray, bath and every tub or set of tubs and hydrant waste-pipe must be separately and effectively trapped; except where a sink and wash tubs immediately adjoin each other, in which case the waste pipe from the tubs may be connected with the inlet side of the sink trap. Traps must be placed as near the fixtures as practicable, and in no case shall a trap be more than two feet from the fixture. In no case shall the waste from a bath tub or other fixture be connected with a water-closet trap. No trap vent pipe shall be used as a waste or soil pipe.

Resolved, That section 217 of the Sanitary Code be and is hereby adopted to read as follows:

Section 217. No drain-pipe from a refrigerator shall be connected with the soil or waste-pipe, but shall discharge into an open and water-supplied sink. No overflow pipe from a tank shall discharge into any soil or waste-pipe, water-closet trap or into the drain or sewer, but it may discharge upon the roof or into an open water-supplied tank.

Resolved, That section 218 of the Sanitary Code be and is hereby adopted to read as follows:

Section 218. Rain-water leaders shall not be used as soil, waste or vent pipes, or be connected therewith; nor shall any soil, waste or vent pipe be used as a leader. When within the house, the leader must be of cast-iron, with leaded joints; when outside of the house and connected with the house-drain it must be trapped beneath the ground or just inside of the wall, the trap being arranged in either case so as to prevent freezing. In every case where a leader opens near a window or a light-shaft, it must be properly trapped at its base. The joint between a cast-iron leader and the roof must be made gas and water-tight by means of a brass ferrule and lead or copper pipe properly connected.

Resolved, That under the power conferred by law upon the Health Department, the following sections of the Sanitary Code for the security of life and health be and the same are hereby annulled:

Sections 71, 73, 103, 105, 183 and 191.

[L.S.] JAMES C. BAYLES, President.

C. GOLDBERMAN, Chief Clerk.







2d. Bidders will be required to complete the entire work to the satisfaction of the Department of Docks, and in substantial accordance with the specifications of the contract and the plans therein referred to. No extra compensation beyond the amount payable for the work before mentioned, which shall be actually performed at the price therefor, to be specified by the lowest bidder, shall be due or payable for the entire work.

The work to be done under the contract is to be commenced within five days after the date of the contract, or after the receipt of an order from the Engineer-in-Chief of the Department of Docks that the work is to begin, and all the work contracted for is to be fully completed on or before the 10th day of December, 1887, or within as many days thereafter as the site of the new pier shall be occupied by the Department of Docks in dredging or in the removal of the old structures thereon, or as the timber to be furnished under this contract is delayed in its delivery by said Department, as herein-after provided, and the damages to be paid by the contractor for each day that the contract may be unfulfilled after the time fixed for the fulfillment thereof has expired, are, by a clause in the contract, determined fixed and liquidated at Fifty Dollars per day.

Bidders will state in their estimates a price for the whole of the work to be done in conformity with the approved form of agreement and the specifications therein set forth, by which prices the bids will be tested. This price is to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay from any cause, in the performing of the work thereunder.

Bidders will distinctly write out, both in words and in figures, the amount of their estimates for doing the work.

The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do, he or they will be considered as having abandoned it, and as in default of the Corporation; and the contract will be readvertised and relet, and so on until it be accepted and executed.

Bidders are required to state in their estimates their names and places of residence; the names of all persons interested with them therein, and if no other person be so interested, the estimate shall distinctly state the fact; also that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair and without collusion or fraud; and also, that no member of the Common Council, head of a department, chief of a bureau, deputy thereof or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. *Where more than one person is interested, it is requisite that the verification be made and subscribed to by all the parties interested.*

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, on its being so awarded, become bound as his or their sureties for its faithful performance, and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled on its completion and that which said Corporation may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount, in each case, to be calculated upon the estimated amount of the work to be done in each class by 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, over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; and that he has offered himself as surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered will be subject to approval by the Comptroller of the City of New York, after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either a certified check upon one of the 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 security required for the faithful performance of the contract. Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

Bidders are informed that no deviation from the specifications will be allowed unless under the written instructions of the Engineer-in-Chief.

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.

The right to decline all the estimates is reserved, if deemed for the interest of the Corporation of the City of New York.

Bidders are requested, in making their bids or estimates, to use the blank prepared for that purpose by the Department, a copy of which, together with the form of agreement, including specifications, and showing the manner of payment for the work, can be obtained upon application therefor at the office of the Department.

LUCIUS J. N. STARK,  
JAMES MATTHEWS,  
CHARLES H. MARSHALL,  
Commissioners of the Department of Docks.

Dated New York, August 15, 1887.

## 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 SIXTY-SEVENTH STREET, as a first-class street or road, between Edgecombe road and Tenth avenue.

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 sixth day of September, 1887, at 10½ o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Department of Public Works, there to remain for and during the space of ten days.

Dated New York, August 22, 1887.

GEORGE W. MCLEAN,  
THOMAS J. MILLER,  
BERNARD CASSELY,  
Commissioners.

CARROLL BERRY, Clerk.

In the matter of the application of the Commissioners of the Department of Public Parks, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of PROSPECT AVENUE (although not yet named by proper authority), commencing at Westchester avenue and running to its intersection with the west line of Southern Boulevard, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by said Department.

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

First.—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 73 William street (third floor), in the said city, on or before the fifteenth day of September, 1887, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said fifteenth day of September, 1887, and for that purpose will be in attendance at our said office on each of said ten days at three o'clock P. M.

Second.—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the fifteenth day of September, 1887.

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 Westchester avenue; easterly by the centre line of the blocks between Prospect avenue and Stebbins and Leggett avenues; southerly by the northerly side of the Southern Boulevard; and westerly by the centre line of the blocks between Prospect avenue and Union avenue; excepting from said area all the streets and avenues heretofore 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 410 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 thirtieth day of September, 1887, 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 16, 1887.

JOHN O'BRYEN,  
DELANO C. CALVIN,  
JOHN T. BOYD,  
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 NINETY-FOURTH STREET, from First avenue to Second 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. 73 William street (third floor), in the said city, on or before the tenth day of August, 1887, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said tenth day of August, 1887, and for that purpose will be in attendance at our said office on each of said ten days at 2½ o'clock P. M.

Second.—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the tenth day of August, 1887.

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 between Ninety-fourth and Ninety-fifth streets; easterly by the westerly side of First avenue; southerly by the centre line of the block between Ninety-third and Ninety-fourth streets; and westerly by the easterly side of Second 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 twenty-sixth day of August, 1887, 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 20, 1887.

GEORGE F. LANGEFEL,  
ADOLPH L. SANGER,  
WILLIAM T. BYRNES,  
Commissioners.

CARROLL BERRY, Clerk.

## CORPORATION NOTICE.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessment has been completed and is lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 2360, No. 1. Sewers in Tenth avenue, east side, between One Hundred and Sixty-second and One Hundred and Seventieth streets, and west side, between Kingsbridge road and One Hundred and Seventy-third street.

The limits embraced by such assessment includes all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Blocks bounded on the south by One Hundred and Sixty-second street, on the north by One Hundred and Seventy-third street, on the east by Edgecombe road and Tenth avenue, on the west by Kingsbridge road and Audubon avenue.

All persons whose interests are affected by the above-named assessment, and who are opposed to the same, are requested to present their objections in writing to the

Chairman of the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described list will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 17th day of September, 1887.

EDWARD GILON, Chairman,  
PATRICK M. HAVERTY,  
CHAS. E. WENDT,  
VAN BRUGH LIVINGSTON,  
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,  
No. 11½ CITY HALL,  
NEW YORK, August 16, 1887.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessment has been completed and is lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 2336, No. 1. Building a sewer and appurtenances in Brook avenue, in the Twenty-third Ward of the City of New York, from tidewater to a point in One Hundred and Sixty-fifth street.

The limits embraced by such assessment includes all the several houses and lots of ground, vacant lots, pieces and parcels of land situated within the following area:

Beginning at the junction of Mill brook with the Harlem river, thence northerly along the line of Mill brook, about 140 feet; thence running easterly between One Hundred and Thirtieth and One Hundred and Thirty-first streets, to a point 540 feet east of Gouverneur place; thence northerly to a point 100 feet south of the Southern Boulevard; thence running easterly 150 feet to the west side of Trinity avenue; thence northerly along the west side of Trinity avenue, 75 feet; thence easterly between One Hundred and Thirty-third and One Hundred and Thirty-fourth streets, distant 280 feet; thence northerly, parallel with Trinity avenue, 280 feet; thence northwesterly to the southwesterly corner of One Hundred and Thirty-fifth street and Southern Boulevard; thence northerly, running parallel with Trinity avenue, and distant about 25 feet therefrom to the centre of One Hundred and Thirty-eighth street; thence easterly 75 feet; thence northerly, parallel with Trinity avenue, and distant about 100 feet therefrom to a point about 150 feet north of St. Joseph's street; thence easterly to the westerly line of Spuyten Duyvil and Port Morris Railroad; thence northerly along the line of said railroad to One Hundred and Forty-seventh street; thence easterly about 75 feet; thence northerly on the south side of One Hundred and Forty-ninth street, distant 293 feet east of Trinity avenue; thence easterly along the southerly side of One Hundred and Forty-ninth street, about 100 feet to the centre of Robbins avenue; thence northerly to a point on the easterly side of Robbins avenue 50 feet north of One Hundred and Forty-ninth street; thence easterly 30 feet; thence northerly 50 feet; thence easterly 50 feet; thence northerly parallel with Robbins avenue, and distant 100 feet therefrom to a point about 90 feet south of Kelly street; thence easterly 50 feet; thence northerly to the northerly side of Kelly street; thence westerly to the west side of Westchester avenue, distant 120 feet east of Trinity avenue; thence northerly through the centre of the block, between Trinity and Jackson avenues to a point 50 feet south of One Hundred and Fifty-sixth street; thence westerly to the centre of the block, between Caldwell and Eagle avenues; thence northerly 400 feet; thence westerly to the centre of the block, between Caldwell and Eagle avenues; thence northerly 400 feet to a point 50 feet south of One Hundred and Fifty-sixth street; thence easterly 50 feet; thence northerly 50 feet west of Caldwell avenue and parallel thereto; thence northerly to a point 50 feet north of One Hundred and Fifty-sixth street; thence westerly about 50 feet; thence northerly to a point about 50 feet south of Cedar place; thence easterly to the west side of Caldwell avenue; thence northerly to a point about 50 feet north of Cedar place; thence westerly 100 feet; thence northerly through the centre of the block, between Eagle and Caldwell avenues to a point 50 feet south of Clifton street; thence easterly about 90 feet to westerly side of Caldwell avenue; thence northerly to a point 50 feet north of Clifton street; thence westerly 65 feet; thence northerly through the centre of the block between Eagle and Caldwell avenues to a point 50 feet south of One Hundred and Sixty-third street; thence northerly, parallel with Caldwell avenue and 50 feet westerly therefrom to a point 50 feet south of One Hundred and Sixty-fourth street; thence easterly to a point 50 feet east of Caldwell avenue; thence southerly 50 feet; thence easterly about 150 feet to the westerly side of Trinity avenue; thence northerly along Trinity avenue to a point 100 feet north of One Hundred and Sixty-fifth street; thence westerly 50 feet; thence northerly and parallel with Trinity avenue to the easterly side of Boston road; thence northerly to the northeast corner of One Hundred and Sixty-seventh (or Home) street and Boston road; thence easterly 68 feet; thence northerly 90 feet; thence northerly to the southeast corner of Boston road and Jackson avenue; thence easterly to a point about 100 feet east of Jackson avenue; thence northerly to the Boston road to a point about 210 feet north of One Hundred and Sixty-eighth street; thence westerly to the centre of the block between Franklin avenue and Boston road; thence northerly about 305 feet; thence westerly about 150 feet; thence northerly along the west side of Franklin avenue to a point 100 feet north of One Hundred and Sixty-ninth street; thence easterly 100 feet; thence northerly about 210 feet; thence westerly to the centre of the block between Fulton and Franklin avenues; thence northerly to a point about 100 feet south of One Hundred and Seventieth street; thence easterly about 100 feet; thence northerly to the south side of One Hundred and Seventieth street about 50 feet west of Franklin avenue; thence northerly to a point 50 feet north of One Hundred and Seventieth street; thence westerly 50 feet; thence in a northeasterly direction to a point about 100 feet north of Woodruff street distant 385 feet east of Fulton avenue; thence westerly about 55 feet; thence northerly about 100 feet; thence easterly about 105 feet; thence in a northeasterly direction to a point 100 feet north of Tremont avenue; thence westerly 225 feet to the centre of the block between Jefferson avenue and Rye place; thence northerly to a point 50 feet north of Cedar street; thence westerly to the centre of the block between Arthur (Central) and Jefferson avenues; thence northerly to a point 100 feet south of Samuel street; thence westerly 110 feet; thence northerly to a point 100 feet north of Samuel street; thence westerly 125 feet; thence northerly parallel with Arthur avenue to the southerly side of Kingsbridge road; thence westerly to the easterly side of Quarry road; thence southerly along the easterly side of Quarry road, thence westerly about 150 feet; thence northerly through the centre of the land of the Home of the Incubables to a point about 100 feet east of Kingsbridge road; thence northerly and parallel with Kingsbridge road to the centre of the block between Lorillard and Hoffman streets; thence northeasterly to a point 100 feet north of Pelham avenue; thence southeasterly and parallel with Pelham avenue 150 feet east of Hoffman street; thence in a northeasterly direction to the southwest corner of the Southern Boulevard and Elm street; thence northerly to Gun Hill road to a point about 700 feet east of Jerome avenue; thence westerly along Gun Hill road to a point about midway between Croton Terrace and Jerome avenue; thence southerly to the north side of Boston avenue, about 200 feet west of Jerome avenue; thence westerly along the Boston avenue to the line of the Croton Aqueduct; thence southerly to Croton avenue; thence easterly along Croton avenue to the easterly side of Central or Jerome avenue; thence southerly along Central avenue to a point about 100 feet south of Welch street or Highbridge road; thence easterly to the easterly side of Berrian avenue; thence southerly diagonally through the block between Berrian and Avenue A to a point about 150 feet north of First (One Hundred and Eighty-fourth) street; thence easterly to a point 50 feet east of Avenue A; thence southerly

to a point 75 feet south of First street; thence easterly to a point 100 feet east of Avenue B; thence southerly and parallel with Avenue B to a point 275 feet south of Second street; thence easterly to a point about 40 feet east of Avenue C; thence southerly, parallel with Avenue C, to a point about 250 feet south of Third street; thence easterly 75 feet; thence southerly through the centre of the block to a point 200 feet north of Fifth (One Hundred and Eighty-first) street; thence westerly 100 feet to Avenue C; thence southerly along the easterly side of Avenue C to the southerly side of Fifth (One Hundred and Eighty-first) street; thence westerly along the southerly side of Fifth street to a point 50 feet east of Monroe avenue; thence southerly and parallel with Monroe avenue to the southerly side of Orchard (One Hundred and Seventy-sixth) street; thence southerly 100 feet west of Lafayette avenue and parallel thereto to a point about 120 feet south of Walnut street; thence in a southwesterly direction to a point about 100 feet north of Highwood avenue; thence westerly 135 feet to Fleetwood avenue; thence in a southwesterly direction to the junction of Overlook avenue; thence southerly to a point about 75 feet south of One Hundred and Sixty-fifth street, between College and Morris avenues; thence southeasterly to a point 50 feet north of One Hundred and Sixty-fourth street; thence easterly to a point 50 feet east of College avenue; thence southerly to a point 75 feet south of One Hundred and Sixty-fourth street; thence westerly to a point about 75 feet west of Morris avenue; thence southerly to a point 50 feet north of One Hundred and Sixty-first street; thence easterly to a point 50 feet east of College avenue; thence southwesterly to the southwest corner of College avenue and One Hundred and Sixtieth street; thence southerly 50 feet west of College avenue and parallel thereto to One Hundred and Fifty-fourth street; thence in a diagonal line crossing at the southeast corner of College avenue and One Hundred and Fifty-fourth street to the centre of the block between One Hundred and Fifty-third and One Hundred and Fifty-fourth streets; thence easterly along the centre line of the block to a point 50 feet west of Corlandt avenue; thence southerly and parallel with said avenue to the north side of One Hundred and Forty-sixth street; thence through the centre of North Third avenue to One Hundred and Forty-third street; thence through the centre of Alexander avenue to a point 100 feet south of One Hundred and Fortieth street; thence easterly to a point about 200 feet west of Willis avenue; thence southerly to a point 100 feet south of One Hundred and Thirty-ninth street; thence easterly to the centre of Willis avenue; thence southerly to One Hundred and Thirty-eighth street; thence easterly to a point 50 feet east of Willis avenue; thence southerly to a point 100 feet south of One Hundred and Thirty-eighth street; thence easterly to a point 420 feet west of Brown place; thence southerly to a point 100 feet south of One Hundred and Thirty-sixth street; thence westerly to a point about 200 feet east of Willis avenue; thence southerly to a point 100 feet south of One Hundred and Thirty-fifth street; thence easterly to a point about 407 feet west of Brown place; thence southerly to a point 100 feet south of One Hundred and Thirty-fourth street; thence westerly to a point 100 feet east of Willis avenue; thence southerly 75 feet; thence westerly 50 feet; thence southerly to a point 25 feet south of the Southern Boulevard; thence easterly 50 feet; thence southerly 75 feet; thence easterly 462 feet; thence southerly to a point 100 feet south of One Hundred and Thirty-second street; thence easterly to a point 100 feet east of Brown place; thence southerly to the Harlem river; thence along the Harlem river to Mill brook, the place of beginning.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 13th day of September, 1887.

EDWARD GILON, Chairman,  
PATRICK M. HAVERTY,  
CHAS. E. WENDT,  
VAN BRUGH LIVINGSTON,  
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,  
No. 11½ CITY HALL,  
NEW YORK, August 12, 1887.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 2426, No. 1. Fencing vacant lots on north side of One Hundred and Ninth street, 90 feet east of Madison avenue.

List 2427, No. 2. Fencing vacant lots on block bounded by One Hundred and Thirty-first and One Hundred and Thirty-second streets, Fourth and Madison avenues.

List 2428, No. 3. Fencing vacant lots on block bounded by One Hundred and Thirty-first and One Hundred and Thirty-second streets, Madison and Fifth avenues.

List 2433, No. 4. Fencing vacant lots on block bounded by Ninety-fifth and Ninety-sixth streets, Second and Third avenues.

List 2444, No. 5. Receiving-basins on the northeast and northwest corners of One Hundred and Twenty-third street and Manhattan avenue.

List 2446, No. 6. Fencing vacant lots on block bounded by One Hundred and Twelfth and One Hundred and Thirteenth streets, Seventh and Eighth avenues.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. North side of One Hundred and Ninth street, commencing 70 feet from the northeast corner of Madison avenue and extending 75 feet easterly.

No. 2. Block bounded by One Hundred and Thirty-first and One Hundred and Thirty-second streets, Fourth and Madison avenues.

No. 3. Block bounded by One Hundred and Thirty-first and One Hundred and Thirty-second streets, Madison and Fifth avenues.

No. 4. Block bounded by Ninety-fifth and Ninety-sixth streets, Second and Third avenues.

No. 5. Block bounded by One Hundred and Twenty-third, One Hundred and Twenty-fourth and Manhattan streets, Manhattan and Ninth avenues; also triangle bounded by Avenue St. Nicholas and Manhattan avenue, One Hundred and Twenty-third and One Hundred and Twenty-fourth streets.

No. 6. Block bounded by One Hundred and Twelfth and One Hundred and Thirteenth streets, Seventh and Eighth avenues.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 10th day of September, 1887.

EDWARD GILON, Chairman,  
PATRICK M. HAVERTY,  
CHAS. E. WENDT,  
VAN BRUGH LIVINGSTON,  
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,  
No. 11½ CITY HALL,  
NEW YORK, August 9, 1887.

PUBLIC NOTICE IS HEREBY GIVEN TO THE owner or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz.:

List 2281, No. 1. Regulating, grading, setting curb-stones and flagging, draining and culverts, on the Boule-



ward and Eleventh avenue, from the northerly line of One Hundred and Fifty-fifth street to the westerly line of the Kingsbridge road.

List 2391, No. 2. Extension of sewer at foot of Ninety-sixth street, Hudson river.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Blocks bounded by One Hundred and Fifty-fifth and One Hundred and Fifty-eighth streets, Tenth avenue and Hudson river; also blocks bounded by One Hundred and Fifty-eighth and One Hundred and Seventy-second streets, Tenth avenue, Kingsbridge road and Fort Washington Ridge road.

No. 2. Blocks bounded by Ninety-first and One Hundred and Sixth streets, Eighth avenue and Hudson river; also blocks bounded by One Hundred and Sixth and One Hundred and Seventeenth streets, Ninth avenue, Morningside avenue and West End avenue.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 27th day of August, 1887.

EDWARD GILON, Chairman,  
PATRICK M. HAVERTY,  
CHAS. E. WENDT,  
VAN BRUGH LIVINGSTON,  
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,  
No. 11½ CITY HALL,  
NEW YORK, July 26, 1887.

**PUBLIC NOTICE IS HEREBY GIVEN TO THE** owners or owners, occupant or occupants of all houses and lots, improved or unimproved lands affected thereby, that the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz:

List 2409, No. 1. Sewer and appurtenances in One Hundred and Sixty-fifth street, from Washington to Third avenue, with a branch in Third avenue, between One Hundred and Sixty-fifth and One Hundred and Sixty-fourth streets.

List 2431, No. 2. Fencing vacant lots on the block bounded by One Hundred and Sixth to One Hundred and Seventh street, Fourth to Madison avenue.

List 2432, No. 3. Fencing vacant lots south side of One Hundred and Tenth street, between Fourth and Madison avenues.

List 2434, No. 4. Fencing vacant lots on block bounded by One Hundred and Thirteenth and One Hundred and Fourteenth streets, Fourth and Madison avenues.

List 2435, No. 5. Fencing vacant lots south side of One Hundred and Twenty-second street, at about 100 feet west of Pleasant avenue.

List 2436, No. 6. Fencing vacant lots southeast of Madison avenue and One Hundred and Eleventh street.

List 2441, No. 7. Fencing vacant lots on block bounded by Ninety-fourth and Ninety-fifth streets, First and Second avenues.

List 2443, No. 8. Basin on southeast corner of One Hundred and Twenty-third street and Manhattan avenue.

List 2448, No. 9. Fencing vacant lots on block bounded by One Hundred and Eighth and One Hundred and Ninth streets, First and Second avenues.

List 2449, No. 10. Flagging One Hundred and Thirtieth street, south side, between Lexington and Fourth avenues.

List 2450, No. 11. Fencing vacant lots on One Hundred and Twenty-second street, between Seventh and Eighth avenues.

The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Blocks bounded by One Hundred and Sixty-fourth and One Hundred and Sixty-ninth streets, Eoston and Washington avenues.

No. 2. Block bounded by One Hundred and Sixth and One Hundred and Seventh streets, Madison and Fourth avenues.

No. 3. South side of One Hundred and Tenth street, between Madison and Fourth avenues.

No. 4. Block bounded by One Hundred and Thirteenth and One Hundred and Fourteenth streets, Madison and Fourth avenues.

No. 5. South side of One Hundred and Twenty-second street, commencing 100 feet west of Pleasant avenue, and running 50 feet westerly.

No. 6. Commencing at southeast corner of Madison avenue and One Hundred and Eleventh street, running 125 feet easterly therefrom.

No. 7. Block bounded by Ninety-fourth and Ninety-fifth streets, First and Second avenues.

No. 8. Block bounded by Avenue St. Nicholas and Manhattan avenue, One Hundred and Twenty-second and One Hundred and Twenty-third streets.

No. 9. Block bounded by One Hundred and Eighth and One Hundred and Ninth streets, First and Second avenues.

No. 10. South side of One Hundred and Thirtieth street, between Lexington and Fourth avenues.

No. 11. South side of One Hundred and Twenty-second street, between Seventh and Eighth avenues.

All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice.

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 24th day of August, 1887.

EDWARD GILON, Chairman,  
PATRICK M. HAVERTY,  
CHAS. E. WENDT,  
VAN BRUGH LIVINGSTON,  
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,  
No. 11½ CITY HALL,  
NEW YORK, July 23, 1887.

## DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
No. 66 THIRD AVENUE.

### TO CONTRACTORS.

**PROPOSALS FOR REMOVAL AND RE-SETTING OF A STEAM BOILER, AND RECONSTRUCTING WALLS AND ROOF OF BOILER-HOUSE AT BELLEVUE HOSPITAL.**

**SEALED BIDS OR ESTIMATES FOR THE** aforesaid job, in accordance with the specifications and plans, will be received at the office of the Department of Public Charities and Correction, No. 66 Third avenue, in the City of New York, until 9.30 o'clock A. M. of Tuesday, August 30, 1887. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Removal and Resetting of a Steam Boiler, and Reconstructing Walls and Roof of Boiler-house at Bellevue Hospital," and with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the President of said Department and read.

**THE BOARD OF PUBLIC CHARITIES AND CORRECTION** RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTIMATES IF DEEMED TO BE FOR THE PUBLIC INTEREST, AS PROVIDED IN SECTION 64, CHAPTER 410, LAWS OF 1882.

No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the penal amount of ONE THOUSAND (\$1,000) dollars.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; also that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they shall pay to the Corporation any difference between the sum to which he would be entitled on its completion, and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by section 12 of chapter 7 of the Revised Ordinances of the City of New York, if the contract shall be awarded to the person or persons for whom he consents to become surety. The adequacy and sufficiency of the security offered, to be approved by the Comptroller of the City of New York.

No bid or estimate will be considered unless accompanied by either a certified check upon one of the 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 security required for the faithful performance of the contract. Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

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

Bidders will write out the amount of their estimate, in addition to inserting the same in figures.

Payment will be made by a requisition on the Comptroller, in accordance with the terms of the contract.

BIDDERS ARE INFORMED THAT NO DEVIATION FROM THE SPECIFICATIONS WILL BE ALLOWED, UNLESS UNDER THE WRITTEN INSTRUCTIONS OF THE COMMISSIONERS OF PUBLIC CHARITIES AND CORRECTION.

The form of the agreement, including specifications, and showing the manner of payment, can be obtained at the office of the Department, where the plans will be on exhibition for the information of bidders.

Dated New York, August 19, 1887.

CHARLES E. SIMMONS, M. D., President,  
HENRY H. PORTER, Commissioner,  
THOMAS S. BRENNAN, Commissioner,  
Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
No. 66 THIRD AVENUE.

### TO CONTRACTORS.

**PROPOSALS FOR RENEWAL AND REPAIRS TO SEWER CONNECTIONS AND PLUMBING SYSTEM OF INSANE ASYLUM, WARD'S ISLAND.**

**SEALED BIDS OR ESTIMATES FOR THE** aforesaid job, in accordance with the specifications and plans, will be received at the office of the Department of Public Charities and Correction, No. 66 Third avenue, in the City of New York, until 9.30 o'clock A. M. of Tuesday, August 30, 1887. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Renewal and Repairs to Sewer Connections and Plumbing System of Insane Asylum, Ward's Island," and with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the President of said Department and read.

The Board of Public Charities and Correction RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTIMATES IF DEEMED TO BE FOR THE PUBLIC INTEREST, AS PROVIDED IN SECTION 64, CHAPTER 410, LAWS OF 1882.

No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the penal amount of the FIVE THOUSAND (\$5,000) dollars.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; also that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair, and without collusion or fraud; and that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they shall pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting. The amount in each case to be calculated upon the estimated amount of work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by section 12 of chapter 7 of the Revised Ordinances of the City of New York, if the contract shall be awarded to the person or persons for whom he consents to become surety. The adequacy and sufficiency of the security offered to be approved by the Comptroller of the City of New York.

No bid or estimate will be considered unless accompanied by either a certified check upon one of the State or National Banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

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

Bidders will write out the amount of their estimate, in addition to inserting the same in figures.

Payment will be made by a requisition on the Comptroller, in accordance with the terms of the contract.

BIDDERS ARE INFORMED THAT NO DEVIATION FROM THE SPECIFICATIONS WILL BE ALLOWED, UNLESS UNDER THE WRITTEN INSTRUCTIONS OF THE COMMISSIONERS OF PUBLIC CHARITIES AND CORRECTION.

The form of the agreement, including specifications, and showing the manner of payment, can be obtained at the office of the Department, where the plans will be on exhibition for the information of bidders.

Dated, New York, August 19, 1887.

CHARLES E. SIMMONS, M. D., President,  
HENRY H. PORTER, Commissioner,  
THOMAS S. BRENNAN, Commissioner,  
Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
No. 66 THIRD AVENUE.

### TO CONTRACTORS.

**PROPOSALS FOR REPAIRS FOR THE STEAMBOAT "THOMAS S. BRENNAN."**

**SEALED BIDS OR ESTIMATES FOR THE** aforesaid job, in accordance with the specifications and plans, will be received at the office of the Department of Public Charities and Correction, No. 66 Third avenue, in the City of New York, until 9.30 o'clock A. M. of Tuesday, August 30, 1887. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Repairs for the Steamboat 'Thomas S. Brennan,'" and with his or their name or names and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the President of said Department and read.

The Board of Public Charities and Correction RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTIMATES IF DEEMED TO BE FOR THE PUBLIC INTEREST, AS PROVIDED IN SECTION 64, CHAPTER 410, LAWS OF 1882.

No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the penal amount of TWO THOUSAND (\$2,000) dollars.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; also that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they shall pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting. The amount in each case to be calculated upon the estimated amount of work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by section 12 of chapter 7 of the Revised Ordinances of the City of New York, if the contract shall be awarded to the person or persons for whom he consents to become surety. The adequacy and sufficiency of the security offered, to be approved by the Comptroller of the City of New York.

No bid or estimate will be considered unless accompanied by either a certified check upon one of the State or National Banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

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

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

Payment will be made by requisition on the Comptroller, in accordance with the terms of the contract.

BIDDERS ARE INFORMED THAT NO DEVIATION FROM THE SPECIFICATIONS WILL BE ALLOWED, UNLESS UNDER THE WRITTEN INSTRUCTIONS OF THE COMMISSIONERS OF PUBLIC CHARITIES AND CORRECTION.

The form of the agreement, including specifications, and showing the manner of payment, can be obtained at the office of the Department, where the plans will be on exhibition for the information of bidders.

Dated New York, August 19, 1887.

CHARLES E. SIMMONS, M. D., President,  
HENRY H. PORTER, Commissioner,  
THOMAS S. BRENNAN, Commissioner,  
Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,  
No. 66 THIRD AVENUE.

### TO CONTRACTORS.

**PROPOSALS FOR GROCERIES, HARDWARE, TIN, LUMBER, ETC.**

**SEALED BIDS OR ESTIMATES FOR FURNISHING**

GROCERIES.  
7,100 pounds Dairy Butter, sample on exhibition Thursday, August 25, 1887.  
1,000 pounds Cheese.  
1,500 pounds Dried Apples.  
500 pounds Cocoa.  
5,000 pounds Oatmeal, price to include packages.  
5,000 pounds Hominy, price to include packages.  
5,000 pounds Rice.  
3,000 pounds Coffee Sugar.  
2,000 pounds Cut Loaf Sugar.  
3,000 pounds Granulated Sugar.  
500 pounds Whole Pepper.  
20 dozen Chow Chow, "C. & B."  
20 dozen Worcestershire Sauce, "L. & P."  
15 dozen Extract Vanilla.  
3,000 gallons Syrup.  
100 barrels Crackers.  
25 barrels Pickles, 40-gallon barrels, 2,000 per barrel.  
3,100 dozen Fresh Eggs, all to be candled.  
650 barrels good, sound Irish Potatoes, to weigh 172 pounds net per barrel.  
50 barrels prime Red Onions, 150 pounds net per barrel.  
1,600 heads prime, good sized Cabbage.  
50 bags Coarse Meal, 100 pounds net each.  
50 bags Fine Meal, 100 pounds net each.  
50 bushels Oats, 34 pounds net per bushel.  
50 pieces prime quality City Cured Bacon, to average about 6 pounds each.  
50 prime quality City Cured Smoked Hams, to average about 14 pounds each.  
25 prime quality City Cured Smoked Tongues, to average about 6 pounds each.  
300 bales long, bright Rye Straw, prime quality, tare not to exceed three pounds. Weight charged as received at Blackwell's Island.

HARDWARE, TIN, WOODENWARE, ETC.  
10 kegs first quality Horse Shoes, No. 5, fore and hind.  
50 Pass Locks.  
6 dozen Garbage Forks.  
20 boxes best quality Charcoal Tin, 1XX, 14 x 20.  
5 boxes best quality Charcoal Tin, 1XXX, 14 x 20.  
2 boxes best quality I. C. Roofing Tin, 14 x 20.  
5 coils best quality Bright Iron Wire, No. 6.  
200 pounds Broom Twine.  
12 dozen W. W. Brushes.  
10 bales Broom Corn.  
2,000 Broom Handles, No. 1.

LUMBER.  
5,000 feet first quality extra clear White Pine, 1 in. x 12 to 16 in. x 12 to 16 feet, dressed one side.  
2,000 square feet first quality clear thoroughly seasoned, edged or vertical grained Yellow Georgia Pine Flooring, 1½ x 3½ in., tongued, grooved and dressed.  
75 first quality Spruce Plank, 1½ in. x 9 in. x 13 feet, tongued and grooved, dressed one side.  
300 first quality Hemlock Boards.  
1,000 feet first quality extra clear thoroughly seasoned Ceiling Boards, white pine, ¾ x 9 in. x 16 feet, tongued, grooved and beaded.  
12 pieces first quality Spruce 3 x 6 in. x 16 feet.  
36 first quality clear sound thoroughly seasoned white pine Rafters 3 x 4 in. x 16 feet.  
250 pieces first quality extra clear thoroughly seasoned white pine Ceiling Boards, ¾ x 4 in. tongued, grooved and beaded.  
50 first quality Spruce Boards 1 x 9 x 10 in. wide.

All lumber to be delivered at Blackwell's Island.  
—will be received at the Department of Public Charities and Correction, in the City of New York, until 9.30 o'clock A. M. of Friday, August 26, 1887. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Groceries, Hardware, Tin, Lumber, etc.," with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the President of said Department and read.



THE BOARD OF PUBLIC CHARITIES AND CORRECTION RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTIMATES IF DEEMED TO BE FOR THE PUBLIC INTEREST, AS PROVIDED IN SECTION 64, CHAPTER 410, LAWS OF 1882.

No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The award of the contract will be made as soon as practicable after the opening of the bids.

Delivery will be required to be made from time to time, and in such quantities as may be directed by the said Commissioners.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, in the penal amount of fifty (50) per cent. of the ESTIMATED amount of the contract.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; also that it is made without any connection with any other person making an estimate for the same purpose and is in all respects fair and without collusion or fraud; and that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof or Clerk therein, or other officer of the Corporation is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his or her sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they shall pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded, at any subsequent letting. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities, as bail, surety or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by section 12 of chapter 7 of the Revised Ordinances of the City of New York, if the contract shall be awarded to the person or persons for whom he consents to become surety. The adequacy and sufficiency of the security offered to be approved by the Comptroller of the City of New York.

No bid or estimate will be considered unless accompanied by either a certified check upon one of the State or National Banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited 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 his bid or proposal, or if he or they accept, but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corporation; and the contract will be readvertised and relet as provided by law.

The quality of the articles, supplies, goods, wares, and merchandise must conform in every respect to the samples of the same on exhibition at the office of the said Department. Bidders are cautioned to examine the specifications for particulars of the articles, etc., required, before making their estimates.

Bidders will state the price for each article, by which the bids will be tested.

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

Payment will be made by a requisition on the Comptroller, in accordance with the terms of the contract, or from time to time, as the Commissioners may determine.

Bidders are informed that no deviation from the specifications will be allowed, unless under the written instruction of the Commissioners of Public Charities and Correction.

No bid or estimate will be accepted from, or a contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The form of the agreement, including specifications, and showing the manner of payment, can be obtained at the office of the Department.

Dated New York, August 15, 1887.

CHARLES E. SIMMONS, President,  
HENRY H. PORTER, Commissioner,  
THOMAS S. BRENNAN, Commissioner,  
Public Charities and Correction.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION  
No. 66 THIRD AVENUE.

## TO CONTRACTORS.

### PROPOSALS FOR ADDITIONS AND ALTERATIONS TO RETREAT, BLACKWELL'S ISLAND.

SEALED BIDS OR ESTIMATES FOR THE above aid job, in accordance with the specifications and plans, will be received at the office of the Department of Public Charities and Correction, No. 66 Third Avenue, in the City of New York, until 2 o'clock A. M. of Tuesday August 23, 1887. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Additions and Alterations to Retreat, Blackwell's Island," and with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the President of said Department and read.

THE BOARD OF PUBLIC CHARITIES AND CORRECTION RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTIMATES IF DEEMED TO BE FOR THE PUBLIC INTEREST, AS PROVIDED IN SECTION 64, CHAPTER 410, LAWS OF 1882.

No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

The award of the contract will be made as soon as practicable after the opening of the bids.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the penal amount of TWENTY THOUSAND (20,000) dollars.

Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; also that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud; and that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof or Clerk therein, or other officer of the Corporation is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his or her sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they shall pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded, at any subsequent letting; the amount in each case to be calculated upon the estimated amount of work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities, as bail, surety, or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by section 12 of chapter 7 of the Revised Ordinances of the City of New York, if the contract shall be awarded to the person or persons for whom he consents to become surety. The adequacy and sufficiency of the security offered to be approved by the Comptroller of the City of New York.

No bid or estimate will be considered unless accompanied by either a certified check upon one of the 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 security required for the faithful performance of the contract. Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

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

Bidders will write out the amount of their estimate in addition to inserting the same in figures.

Payment will be made by a requisition on the Comptroller, in accordance with the terms of the contract.

BIDDERS ARE INFORMED THAT NO DEVIATION FROM THE SPECIFICATIONS WILL BE ALLOWED, UNLESS UNDER THE WRITTEN INSTRUCTIONS OF THE COMMISSIONERS OF PUBLIC CHARITIES AND CORRECTION.

The form of the agreement, including specifications, and showing the manner of payment, can be obtained at the office of the Department, where the plans will be on exhibition for the information of bidders.

Dated New York, August 10, 1887.

CHARLES E. SIMMONS, M. D., President.  
HENRY H. PORTER, Commissioner.  
THOMAS BRENNAN, Commissioner.  
Public Charities and Correction.

### ARMORY BOARD.

ARMORY BOARD—OFFICE OF THE SECRETARY,  
STAATS-ZEITUNG BUILDING, TRYON ROW,  
NEW YORK, July 30, 1887.

PROPOSALS FOR ESTIMATES FOR FURNISHING MATERIALS AND PERFORMING THE STEAM-HEATING AND GAS-FITTING WORK IN THE ERECTION OF AN ARMORY BUILDING ON FOURTH AVENUE, EXTENDING FROM NINETY-FOURTH TO NINETY-FIFTH STREET, NEW YORK CITY.

PROPOSALS FOR ESTIMATES FOR FURNISHING materials and performing work for Steam-Heating and Gas-fitting Work in the erection of an Armory Building on Fourth Avenue, extending from Ninety-fourth to Ninety-fifth street, County and City of New York, will be received by the Armory Board, at the Mayor's Office, City Hall, until 2 o'clock P. M. of the 25th day of August, 1887, at which time and place they will be publicly opened and read by said Board.

Any person making an estimate for the above work shall furnish the same in a sealed envelope to the President of said Armory Board, indorsed "Estimate for Furnishing Materials and Performing Work for Steam-Heating and Gas-fitting in the Erection of an Armory Building on Fourth Avenue, extending from Ninety-fourth to Ninety-fifth street, County and City of New York," and with the name of the person or persons presenting the same, and the date of its presentation.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, in the amount of four thousand dollars (\$4,000).

Bidders are required to submit their estimates upon the following express conditions, which shall apply to and become part of every estimate received:

1st. Bidders must satisfy themselves by personal examination of the location of the proposed work, and by such other means as they may prefer, as to the accuracy of the estimate, and shall not at any time after the submission of an estimate, dispute or complain of the statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

2d. Bidders will be required to complete the entire work to the satisfaction of the Armory Board, and in substantial accordance with the specifications of the contract and the plans therein referred to. No extra com-

pensation beyond the amount payable for the work before mentioned, which shall be actually performed, at the prices therefor to be specified by the lowest bidder, shall be due or payable for the entire work.

Bidders will state in their estimates a price for the whole of the work to be done, in conformity with the approved form of contract and the specifications therein set forth, by which price the bids will be tested. This price is to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the performing of the work thereunder.

Bidders will distinctly write out, both in words and in figures, the amount of their estimates for doing this work.

The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do he or they will be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet and so on until it be accepted and executed.

Bidders are required to state in their estimate their names and places of residence, the names of all persons interested with them therein; and if no other persons be so interested the estimate shall distinctly state the fact; also that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair and without collusion or fraud; and also that no member of the Common Council, head of a department, chief of a bureau, deputy thereof or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested it is requisite that the verification be made and subscribed by all the parties interested.

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, on its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled on its completion, and that which said Corporation or the Armory Board may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work to be done by which the bids are tested; the consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, and stated in the proposals, over and above all his debts of every nature, and over and above his liabilities, as bail, surety, or otherwise; and that he has offered himself as a surety in good faith, and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York, after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either a certified check upon one of the State or National Banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of two hundred dollars (\$200). 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 Board who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned by the Comptroller to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him by the Comptroller.

No estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter as surety or otherwise, upon any obligation to the Corporation.

Bidders are requested, in making their bids or estimates, to use a blank prepared for that purpose by the Board, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be seen upon application at the office of the architect, J. R. Thomas, No. 160 Broadway.

The Board reserves the right to reject any or all estimates not deemed beneficial to or for the public interest. Plans may be examined, and specifications and blank forms for bids or estimates obtained, by application to the architect, at his office No. 160 Broadway, New York City.

ABRAM S. HEWITT,  
MICHAEL COLEMAN,  
BRIG.-GEN. LOUIS FITZGERALD,  
BRIG.-GEN. JOHN NEWTON,  
Commissioners.

ARMORY BOARD—OFFICE OF THE SECRETARY,  
STAATS-ZEITUNG BUILDING, TRYON ROW,  
NEW YORK, July 30, 1887.

PROPOSALS FOR ESTIMATES FOR FURNISHING MATERIALS AND PERFORMING IRON WORK IN THE ERECTION OF AN ARMORY BUILDING ON FOURTH AVENUE, EXTENDING FROM NINETY-FOURTH TO NINETY-FIFTH STREET, NEW YORK CITY.

PROPOSALS FOR ESTIMATES FOR FURNISHING materials and performing Iron Work in the erection of an Armory Building on Fourth Avenue, extending from Ninety-fourth to Ninety-fifth street, New York City, will be received by the Armory Board at the Mayor's office, City Hall, until 2 P. M. of the 25th day of August, 1887, at which time and place they will be publicly opened and read by said Board.

Any person making an estimate for the above work shall furnish the same in a sealed envelope to the President of said Armory Board, indorsed "Estimate for Furnishing Materials and Performing Iron Work in the Erection of an Armory Building on Fourth Avenue, extending from Ninety-fourth to Ninety-fifth street," and also with the name of the person or persons presenting the same, and the date of its presentation.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the amount of twenty thousand dollars (\$20,000).

Bidders are required to submit their estimates upon the following express conditions, which shall apply to and become part of every estimate received:

1st. Bidders must satisfy themselves, by personal examination of the location of the proposed work, and by such other means as they may prefer, as to the accuracy of the estimate, and shall not at any time after the submission of an estimate, dispute or complain of the statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

2d. Bidders will be required to complete the entire work to the satisfaction of the Armory Board, and in substantial accordance with the specifications of the contract and the plans therein referred to. No extra compensation beyond the amount payable for the work before mentioned, which shall be actually performed, at the prices therefor to be specified by the lowest bidder, shall be due or payable for the entire work.

Bidders will state in their estimates a price for the whole of the work to be done, in conformity with the approved form of contract and the specifications therein set forth, by which price the bids will be tested. This price is to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the performing of the work thereunder.

Bidders will distinctly write out, both in words and in figures, the amount of their estimates for doing this work.

The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do, he or they will be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet, and so on until it be accepted and executed.

Bidders are required to state in their estimate their names and places of residence, the names of all persons interested with them therein; and if no other person be so interested the estimate shall distinctly state the fact; also that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair, and without collusion or fraud; and also that no member of the Common Council, head of a department, chief of a bureau, deputy thereof or clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, on its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled on its completion, and that which said Corporation or Armory Board may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work to be done by which the bids are tested; the consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, and stated in the proposals, over and above all his debts of every nature, and over and above his liabilities, as bail, surety, or otherwise; and that he has offered himself as a surety in good faith, and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York, after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either a certified check upon one of the State or National Banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of one thousand dollars (\$1,000). 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 Board who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned by the Comptroller to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him by the Comptroller.

No estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Bidders are requested, in making their bids or estimates, to use a blank prepared for that purpose by the Board, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be seen upon application at the office of the architect, Mr. J. R. Thomas, No. 160 Broadway.

The Board reserves the right to reject any or all estimates not deemed beneficial to or for the public interest.

Plans may be examined, and specifications and blank forms for bids or estimates obtained, by application to the architect, at his office, No. 160 Broadway, New York City.

ABRAM S. HEWITT,  
MICHAEL COLEMAN,  
BRIG.-GEN. LOUIS FITZGERALD,  
BRIG.-GEN. JOHN NEWTON,  
Commissioners.

ARMORY BOARD—OFFICE OF THE SECRETARY,  
STAATS-ZEITUNG BUILDING, TRYON ROW,  
NEW YORK, July 30, 1887.

PROPOSALS FOR ESTIMATES FOR FURNISHING MATERIALS AND PERFORMING MASONRY WORK IN THE ERECTION OF AN ARMORY BUILDING ON FOURTH AVENUE, EXTENDING FROM NINETY-FOURTH TO NINETY-FIFTH STREET, NEW YORK CITY.

PROPOSALS FOR ESTIMATES FOR FURNISHING materials and performing masonry work in the erection of an Armory Building, on Fourth Avenue, extending from Ninety-fourth to Ninety-fifth street, County and City of New York, will be received by the Armory Board at the Mayor's office, City Hall, until 2 P. M. of the 25th day of August, 1887, at which time and place they will be publicly opened and read by said Board.

Any person making an estimate for the above work shall furnish the same in a sealed envelope to the President of said Armory Board, indorsed "Estimate for Furnishing Materials and Performing Masonry Work in the Erection of an Armory Building on Fourth Avenue, extending from Ninety-fourth to Ninety-fifth street, New York City," and also with the name of the person or persons presenting the same, and the date of its presentation.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, in the amount of thirty-thousand dollars (\$30,000).

Bidders are required to submit their estimates upon the following express conditions, which shall apply to and become part of every estimate received:

1st. Bidders must satisfy themselves, by personal examination of the location of the proposed work, and by



such other means as they may prefer, as to the accuracy of the estimate, and shall not at any time after the submission of an estimate, dispute or complain of the statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

2d. Bidders will be required to complete the entire work to the satisfaction of the Armory Board, and in substantial accordance with the specifications of the contract and the plans therein referred to. No extra compensation beyond the amount payable for the work before mentioned, which shall be actually performed, at the prices therefor to be specified by the lowest bidder, shall be due or payable for the entire work.

Bidders will state in their estimates a price for the whole of the work to be done, in conformity with the approved form of contract and the specifications therein set forth, by which price the bids will be tested. This price is to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the performing of the work thereunder.

Bidders will distinctly write out, both in words and in figures, the amount of their estimates for doing this work. The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do, he or they will be considered as having abandoned it, and as in default to the Corporation; and the contract will be readvertised and relet, and so on until it is accepted and executed.

Bidders are required to state in their estimates their names and places of residence; the names of all persons interested with them therein; and if no other person be so interested, the estimate shall distinctly state the fact, also that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair and without collusion or fraud; and also that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof, or Clerk therein, or other officer of the Corporation is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. *Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.*

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, on its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled on its completion, and that which said Corporation or the Armory Board may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work to be done, by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, and stated in the proposals, over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; and that he has offered himself as surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York, after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either a certified check upon one of the State or National banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of fifteen hundred dollars (\$1,500). Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Board who has charge of the Estimate-box, or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned by the Comptroller to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him by the Comptroller.

No estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Bidders are requested, in making their bids or estimates, to use a blank prepared for that purpose by the Board, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be seen upon application at the office of the architect, J. R. Thomas, No. 160 Broadway, New York City.

The Board reserves the right to reject any or all estimates not deemed beneficial to or for the public interest. Plans may be examined, and specifications and blank forms for bids or estimates obtained, by application to the architect, at his office, No. 160 Broadway, New York City.

ABRAM S. HEWITT,  
MICHAEL COLEMAN,  
BRIG.-GEN. LOUIS FITZGERALD,  
BRIG.-GEN. JOHN NEWTON,  
Commissioners.

ARMORY BOARD—OFFICE OF THE SECRETARY,  
STAATS ZEITUNG BUILDING, TRYON ROW,  
NEW YORK CITY, July 30, 1887.

**PROPOSALS FOR ESTIMATES FOR FURNISHING MATERIALS AND PERFORMING PLUMBING AND DRAINAGE WORK IN THE ERECTION OF AN ARMORY BUILDING ON FOURTH AVENUE, EXTENDING FROM NINETY-FOURTH TO NINETY-FIFTH STREET, NEW YORK CITY.**

**PROPOSALS FOR ESTIMATES FOR FURNISHING materials and performing Plumbing and Drainage work in the erection of an Armory Building on Fourth avenue, extending from Ninety-fourth to Ninety-fifth street, City and County of New York, will be received by the Armory Board at the Mayor's Office, City Hall, until 2 P. M. of the twenty-fifth day of August, 1887, at which time and place they will be publicly opened and read by said Board.**

Any person making an estimate for the above work shall furnish the same in a sealed envelope to the President of said Armory Board, indorsed "Estimate for Furnishing Materials and Performing Plumbing and Drainage Work in the Erection of an Armory Building on Fourth avenue, extending from Ninety-fourth to Ninety-fifth street," and also with the name of the person or persons presenting the same, and the date of its presentation.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, in the amount of three thousand dollars (\$3,000). Bidders are required to submit their estimates upon

the following express conditions, which shall apply to and become part of every estimate received:

1st. Bidders must satisfy themselves by personal examination of the location of the proposed work, and by such other means as they may prefer, as to the accuracy of the estimate, and shall not at any time after the submission of an estimate, dispute or complain of the statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

2d. Bidders will be required to complete the entire work to the satisfaction of the Armory Board, and in substantial accordance with the specifications of the contract and the plans therein referred to. No extra compensation beyond the amount payable for the work before mentioned, which shall be actually performed, at the prices therefor to be specified by the lowest bidder, shall be due or payable for the entire work.

Bidders will state in their estimates a price for the whole of the work to be done, in conformity with the approved form of contract and the specifications therein set forth, by which price the bids will be tested. This price is to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the performing of the work thereunder.

Bidders will distinctly write out, both in words and in figures, the amount of their estimates for doing this work. The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do he or they will be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet, and so on until it is accepted and executed.

Bidders are required to state in their estimates their names and places of residence; the names of all persons interested with them therein; and if no other person be so interested, the estimate shall distinctly state the fact; also that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair and without collusion or fraud; and also that no member of the Common Council, head of a department, chief of a bureau, deputy thereof or clerk therein or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. *Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.*

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, on its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled on its completion, and that which said Corporation or the Armory Board may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work to be done by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, as stated in the proposals, over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; and that he has offered himself as surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either a certified check upon one of the State or National Banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of one hundred and fifty dollars (\$150). 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 Board who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk, and found to be correct. All such deposits, except that of the successful bidder, will be returned by the Comptroller to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect within five days after notice that the contract has been awarded to him to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him by the Comptroller.

No estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Bidders are requested, in making their bids or estimates, to use a blank prepared for that purpose by the Board, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be seen upon application at the office of the architect, J. R. Thomas, No. 160 Broadway.

The Board reserves the right to reject any or all estimates not deemed beneficial to or for the public interest. Plans may be examined, and specifications and blank forms for bids or estimates obtained, by application to the architect, at his office, No. 160 Broadway, New York City.

ABRAM S. HEWITT,  
MICHAEL COLEMAN,  
BRIG.-GEN. LOUIS FITZGERALD,  
BRIG.-GEN. JOHN NEWTON,  
Commissioners.

ARMORY BOARD—OFFICE OF THE SECRETARY,  
STAATS ZEITUNG BUILDING, TRYON ROW,  
NEW YORK CITY, July 30, 1887.

**PROPOSALS FOR ESTIMATES FOR FURNISHING MATERIALS AND PERFORMING CARPENTER WORK IN THE ERECTION OF AN ARMORY BUILDING ON FOURTH AVENUE, EXTENDING FROM NINETY-FOURTH TO NINETY-FIFTH STREET, NEW YORK CITY.**

**PROPOSALS FOR ESTIMATES FOR FURNISHING materials and performing carpenter work in the erection of an Armory Building, on Fourth avenue, extending from Ninety-fourth to Ninety-fifth street, New York City, will be received by the Armory Board, at the Mayor's Office, City Hall, until 2 P. M. of the twenty-fifth day of August, 1887, at which time and place they will be publicly opened and read by said Board.**

Any person making an estimate for the above work shall furnish the same in a sealed envelope to the President of said Armory Board, indorsed "Estimate for Furnishing Materials and Performing Carpenter Work in the Erection of an Armory Building, on Fourth avenue, extending from Ninety-fourth to Ninety-fifth street," and also with the name of the person or persons presenting the same, and the date of its presentation.

Any bidder for this contract must be known to be engaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient

sureties, in the amount of twenty-five thousand dollars (\$25,000).

Bidders are required to submit their estimates upon the following express conditions, which shall apply to and become part of every estimate received:

1st. Bidders must satisfy themselves by personal examination of the location of the proposed work, and by such other means as they may prefer, as to the accuracy of the estimate, and shall not at any time after the submission of an estimate, dispute or complain of the statement of quantities, nor assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

2d. Bidders will be required to complete the entire work to the satisfaction of the Armory Board, and in substantial accordance with the specifications of the contract and the plans therein referred to. No extra compensation beyond the amount payable for the work before mentioned, which shall be actually performed, at the prices therefor to be specified by the lowest bidder, shall be due or payable for the entire work.

Bidders will state in their estimates a price for the whole of the work to be done, in conformity with the approved form of contract and the specifications therein set forth, by which price the bids will be tested. This price is to cover all expenses of every kind involved in or incidental to the fulfillment of the contract, including any claim that may arise through delay, from any cause, in the performing of the work thereunder.

Bidders will distinctly write out, both in words and in figures the amount of their estimates for doing this work. The person or persons to whom the contract may be awarded will be required to attend at this office with the sureties offered by him or them, and execute the contract within five days from the date of the service of a notice to that effect; and in case of failure or neglect so to do he or they will be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and relet, and so on until it is accepted and executed.

Bidders are required to state in their estimate their names and places of residence, the names of all persons interested with them therein; and if no other person be so interested, the estimate shall distinctly state the fact; also that the estimate is made without any connection with any other person making an estimate for the same work, and that it is in all respects fair, and without collusion or fraud; and also that no member of the Common Council, Head of a Department, Chief of a Bureau, Deputy thereof, or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof; which estimate must be verified by the oath, in writing, of the party making the estimate, that the several matters stated therein are in all respects true. *Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested.*

Each estimate shall be accompanied by the consent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person or persons making the estimate, they will, on its being so awarded, become bound as his or their sureties for its faithful performance; and that if said person or persons shall omit or refuse to execute the contract, they will pay to the Corporation of the City of New York any difference between the sum to which said person or persons would be entitled on its completion, and that which said Corporation or the Armory Board may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work to be done by which the bids are tested; the consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, and stated in the proposals, over and above all his debts of every nature, and over and above his liabilities as bail, surety and otherwise; and that he has offered himself as surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York, after the award is made and prior to the signing of the contract.

No estimate will be received or considered unless accompanied by either a certified check upon one of the State or National Banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of \$1,250. 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 Board who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk, and found to be correct. All such deposits, except that of the successful bidder, will be returned by the Comptroller to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him by the Comptroller.

No estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

Bidders are requested, in making their bids or estimates, to use a blank prepared for that purpose by the Board, a copy of which, together with the form of the agreement, including specifications, and showing the manner of payment for the work, can be seen upon application at the office of the architect, J. R. Thomas, No. 160 Broadway.

The Board reserves the right to reject any or all estimates not deemed beneficial to or for the public interest. Plans may be examined, and specifications and blank forms for bids or estimates obtained, by application to the architect, at his office, No. 160 Broadway, New York City.

ABRAM S. HEWITT,  
MICHAEL COLEMAN,  
BRIG.-GEN. LOUIS FITZGERALD,  
BRIG.-GEN. JOHN NEWTON,  
Commissioners.

## FINANCE DEPARTMENT.

CITY OF NEW YORK,  
FINANCE DEPARTMENT,  
COMPTROLLER'S OFFICE,  
August 12, 1887.

## NOTICE TO PROPERTY-OWNERS.

**IN PURSUANCE OF SECTION 976 OF THE "New York City Consolidation Act of 1882,"** the Comptroller of the City of New York hereby gives public notice to all persons, owners of property affected by the following assessment lists, viz:

One Hundred and Thirtieth street opening, between Eighth avenue and Avenue St. Nicholas.

One Hundred and Fortieth street opening, between Eighth avenue and Edgecombe road.

—which were confirmed by the Supreme Court July 29, 1887, and entered on the 10th day of August, 1887, in the Record of Titles of Assessments, kept in the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," that unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon as provided in section 998 of said "New York City Consolidation Act of 1882."

Section 998 of the said act provides that, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such

assessment, to charge, collect and receive interest thereon, at the rate of seven per centum per annum, to be calculated from the date of such entry to the date of payment."

The above assessments are payable to the Collector of Assessments and Clerk of Arrears at the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," Room 31, Stewart Building, between the hours of 9 A. M. and 2 P. M., and all payments made thereon, on or before October 19, 1887, will be exempt from interest as above provided, and after that date will be subject to a charge of interest at the rate of seven per cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

EDWARD V. LOEW,  
Comptroller.

CITY OF NEW YORK,  
FINANCE DEPARTMENT,  
COMPTROLLER'S OFFICE,  
August 6, 1887.

## NOTICE TO PROPERTY-OWNERS.

**IN PURSUANCE OF SECTION 976 OF THE "New York City Consolidation Act of 1882,"** the Comptroller of the City of New York hereby gives public notice to all persons, owners of property affected by the following assessment lists, viz:

Westchester avenue sewer and appurtenances, from Brook to St. Ann's avenue, with branches in St. Ann's avenue, between Port Morris Branch Railroad and Carr street.

One Hundred and Seventieth street sewer and appurtenances, between North Third and Franklin avenues, with a branch in Fulton avenue, between One Hundred and Seventieth and One Hundred and Sixty-ninth streets.

—which were confirmed by the Board of Revision and Correction of Assessments, July 29, 1887, and entered on the same date, in the Record of Titles of Assessments, kept in the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," that unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon as provided in section 976 of said "New York City Consolidation Act of 1882."

Section 976 of the said act provides that, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect, and receive interest thereon at the rate of seven per centum per annum, to be calculated from the date of such entry to the date of payment."

The above assessments are payable to the Collector of Assessments and Clerk of Arrears, at the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," between the hours of 9 A. M. and 2 P. M., and all payments made thereon, on or before October 13, 1887, will be exempt from interest as above provided, and after that date will be subject to a charge of interest at the rate of seven per cent. per annum from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment.

EDWARD V. LOEW,  
Comptroller.

CITY OF NEW YORK,  
FINANCE DEPARTMENT,  
COMPTROLLER'S OFFICE,  
July 30, 1887.

## NOTICE TO PROPERTY-OWNERS.

**IN PURSUANCE OF SECTION 976 OF THE "New York City Consolidation Act of 1882,"** the Comptroller of the City of New York hereby gives public notice to all persons, owners of property affected by the following assessment lists, viz:

William street regulating and grading, from Duane street to the intersection of North William street.

Willis avenue regulating, grading, setting curb-stones, paving, gutters and flagging sidewalks, between the Southern Boulevard and North Third avenue.

One Hundred and Thirty-third street regulating, grading, curbing and flagging, from Eighth avenue to Avenue St. Nicholas.

One Hundred and Thirty-fifth street regulating, grading, curbing, flagging, laying crosswalks and paving with trap-block pavement, from North Third avenue to Mott Haven Canal.

One Hundred and Fifty-fifth street regulating, grading, curbing and flagging, from Eighth avenue to First new avenue west of Eighth avenue.

One Hundred and Sixty-fifth street regulating, grading, setting curb and gutter stones, flagging and laying crosswalks, between Boston road and Union avenue.

Lexington avenue sewer, between Eighty-third and Eighty-fifth streets.

Morris avenue sewer, from the summit between One Hundred and Thirty-ninth and One Hundred and Fortieth streets to North Third avenue.

Eighty-seventh street sewer, between Tenth and Riverside avenues.

One Hundred and Thirty-third street sewer, between Eighth avenue and Avenue St. Nicholas.

One Hundred and Thirty-eighth street sewer, from Brook to St. Ann's avenue.

One Hundred and Fifty-first street sewer, between Avenue St. Nicholas and Tenth avenue, east side, between One Hundred and Fiftieth and One Hundred and Fifty-first streets.

One Hundred and Sixty-fourth street sewer, between Washington and Brook avenues.

Alteration and improvement to receiving-basins on southeast corners of Seventy-ninth and Eightieth streets; on northeast and southeast corners of Eighty-first street; on the northeast corner of Eighty-second street; on the northeast and northwest corners of Eighty-third, Eighty-fourth, Eighty-sixth, Eighty-seventh, and Eighty-eighth street and West End avenue.

Alteration and improvement to receiving-basins on southeast and southwest corners of Ninety-second, Ninety-fourth, and Ninety-sixth streets; on southwest corner of Ninety-third street; on northeast and northwest corners of Ninety-sixth and Ninety-eighth streets, and on northwest corners of Ninety-ninth, One Hundredth, One Hundred and First, and One Hundred and Second streets, and West End avenue.

Receiving-basins on the northwest and southwest corners of One Hundred and First street and Third avenue, and on the northeast, southeast, northwest and southwest corners of One Hundred and Sixth street and Fourth avenue.

First avenue fencing vacant lots, southwest corner of One Hundred and Twenty-fourth street.

Fourth avenue fencing vacant lots, northwest corner of One Hundred and Ninth street.

Seventh avenue fencing vacant lots, east side, between One Hundred and Twenty-first and One Hundred and Twenty-second streets.

Seventh avenue fencing vacant lot, southeast corner of One Hundred and Twenty-second street.

Seventh avenue fencing vacant lots, southwest corner of One Hundred and Thirty-first street.

Ninety-sixth street fencing vacant lots, south side, between Second and Third avenues.

Fencing vacant lots on block bounded by One Hundred and Ninth and One Hundred and Tenth streets, and Fifth and Madison avenues.

One Hundred and Twenty-eighth street fencing vacant lots, south side, from Seventh to Eighth avenue.

—which were confirmed by the Board of Revision and Correction of Assessments July 19, 1887, and entered on the same date, in the Record of Titles of Assessments, kept in the "Bureau for the Collection of Assessments



