

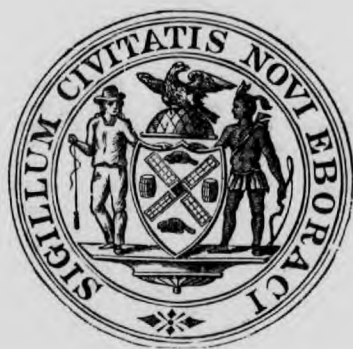
THE CITY RECORD.

OFFICIAL JOURNAL.

VOL. XII.

NEW YORK, MONDAY, MARCH 31, 1884.—WITH SUPPLEMENT.

NUMBER 3,296.



DEPARTMENT OF STREET CLEANING.

Report for the Quarter ending December 31, 1883.

DEPARTMENT OF STREET CLEANING—CITY OF NEW YORK,
Nos. 31 AND 32 PARK ROW,
NEW YORK, March 26, 1884.

Hon. FRANKLIN EDSON, Mayor, etc.:

SIR—I transmit herewith the report of the workings of the Department of Street Cleaning, for the quarter ending December 31, 1883, showing the number of loads of material removed, the amount of money received, and the amount of money expended.

I am, sir, very respectfully,

Your obedient servant,

J. S. COLEMAN, Commissioner.

MONTH.	Expended for Wages of Sweepers, etc.	Expended for Unloading Scows.	Expended for Repairs and Supplies.	Expended for Cleaning First District.	Expended for Cleaning Second District.	Expended for Salaries.	Expended for New Stock.	Expended for Snow and Ice.	Total Expenditure.
Oct.....	\$26,774 93	\$1,640 90	\$10,911 88	\$11,210 95	\$19,109 59	\$8,058 37	.....	.....	\$77,706 62
Nov.....	29,564 24	1,977 45	11,039 17	10,849 31	18,493 15	7,963 65	\$775 00	.....	80,661 98
Dec.....	33,030 04	1,407 18	13,340 33	11,210 95	19,109 59	7,406 36	2,050 00	\$4,052 09	91,666 59
Total..	\$89,419 21	\$5,025 51	\$35,291 43	\$33,271 21	\$56,712 33	\$23,128 38	\$2,815 00	\$1,052 09	\$250,035 19

MONTH.	Removed by the Department.			Removed from the First District.			Removed from the Second District.			Received from De- partment of Public Works.	Received from Bureau of Markets.	Received from Permits.
	Loads of Ashes.	Loads of Rubbish.	Loads of Snow.	Loads of Ashes.	Loads of Rubbish.	Loads of Snow.	Loads of Ashes.	Loads of Rubbish.	Loads of Saow.	Loads.	Loads.	Loads.
Oct.....	32,034	9,123	.....	8,911	4,285	.....	14,611	5,380	.....	596	951	10,633
Nov.....	34,364	10,714	.....	9,326	5,380	.....	14,894	5,602	.....	387	798	10,463
Dec.....	40,747	4,031	15,645	12,256	3,053	6,652	17,633	2,829	7,598	276	615	10,485
Total..	107,395	24,068	15,645	30,493	13,418	6,662	47,138	13,811	7,598	1,259	2,364	31,587

RESUME.

Total Number of Loads of Material Removed.

October.....	87,280
November.....	92,128
December.....	122,030
Total.....	301,438

Expenditures.

October.....	\$77,706 62
November.....	80,661 98
December.....	91,666 59
Total.....	\$250,035 19

Outstanding bills and unadjusted claims..... \$11,923 73

Receipts.

October.....	For trimming scows, street dirt, etc., transmitted to the City Chamberlain.....	\$3,408 50
November.....		
December.....		

NEW YORK, March 25, 1884.

Hon. FRANKLIN EDSON, Mayor, etc.:

SIR—I have the honor to submit to you the report of the workings of this Department of Street Cleaning for the quarter ending December 31, 1883.

I am, sir, very respectfully,

Your obedient servant,

J. S. COLEMAN, Commissioner.

DEPARTMENT OF STREET CLEANING—CITY OF NEW YORK,
Nos. 31 AND 32 PARK ROW,
NEW YORK, March 28, 1884.

In accordance with the provisions of section 51, chapter 410 of the Laws of 1882, the Commissioner of Street Cleaning makes the following report of the transactions of the Department of Street Cleaning for the week ending March 22, 1884:

Number of loads of ashes removed.....	16,878
" " rubbish removed.....	12,157
" " material received from Department of Public Works.....	119
" " " " Markets.....	159
" " " " Permits.....	2,746
Total.....	32,059

Public Moneys Received and Deposited in the City Treasury.

For trimming scows, etc..... \$197 00

Bills.

—audited and transmitted to the Finance Department, chargeable to the appropriation for "Cleaning Streets—Department of Street Cleaning," for the year 1884, as per Schedule No. 181:

American District Telegraph Co., services.....	\$54 50
Thomas C. Avery, repairs.....	13 20
John Claffy, supplies.....	31 50
J. Chicereili, unloading scows.....	266 00
" labor.....	45 00
Chicereili & Tuomey, unloading scows.....	135 00
" ".....	142 00
F. W. Devoe & Co., paint.....	14 00
Jos. Gallo, unloading scows.....	431 50
" ".....	614 00
Guy C. Hotchkiss, Field & Co., supplies.....	13 00
Jno. L. Kipp, wheels.....	90 00
Manhattan Oil Co., oil.....	71 18
Jas. Sanguinotto, services.....	40 00
Terence O'Brien, services.....	80 00
James Shervan, repairs.....	30 00
The Barney Dumping Boat Co., use of boats.....	1,410 00
" ".....	1,860 00
The J. L. Mott Iron Works, supplies.....	90
The Metropolitan Telephone Co., services.....	38 00
Propeller "M. D. Wheeler," services.....	5 00
Total.....	\$5,385 08

Pay-rolls.

—audited and transmitted to the Finance Department for laborers and hired cartmen for the first fifteen days of March, chargeable separately to the appropriations for "Cleaning Streets and the Removal of Snow and Ice—Department of Street Cleaning," for the year 1884:

Cleaning Streets—	
Laborers.....	\$2,863 50
Hired cartmen.....	7,535 86
Department cartmen.....	1,795 00
M. and W. C. drivers.....	14 00
Stables.....	442 00
Mechanics.....	399 50
Dumps.....	496 00
Captains of scows.....	621 33
Total.....	\$14,167 19

Snow and Ice—	
Laborers.....	\$631 00
Hired cartmen.....	24 50
Department cartmen.....	7 00
Total.....	662 50
Total.....	\$14,829 69

Very respectfully,

J. S. COLEMAN, Commissioner of Street Cleaning.

APPROVED PAPERS

Ordinances and Resolutions passed by the Common Council during the week ending March 29, 1884.

Resolved, That permission be and the same hereby is granted to Dr. L. T. Sheffield to employ for advertising purposes the shield of a man representing a mounted knight.

Adopted by the Board of Aldermen, March 14, 1884.

Received from his Honor the Mayor, March 24, 1884, without his approval or objections thereto; therefore, as provided in section 75, chapter 410, Laws of 1882, the same became adopted.

Resolved, That permission be and the same is hereby given to John Blakely to lay a crosswalk across Broadway, diagonally, from the northwest corner of Park place and Broadway to the southeast corner of Mail street and Broadway, the work to be done at his own expense, under the direction of the Commissioner of Public Works; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, March 14, 1884.

Received from his Honor the Mayor, March 24, 1884, without his approval or objections thereto; therefore, as provided in section 75, chapter 410, Laws of 1882, the same became adopted.

Resolved, That the Commissioner of Public Works be and he is hereby directed to connect the opposite sides of Ninth avenue at the intersection of Seventy-second street, by crosswalks on the north and south sides of said Seventy-second street, of two courses of stones of regulation width.

Adopted by the Board of Aldermen, March 14, 1884.

Received from his Honor the Mayor, March 24, 1884, without his approval or objections thereto; therefore, as provided in section 75, chapter 410, Laws of 1882, the same became adopted.

Resolved, That permission be and the same is hereby given to Ferdinand de Majo to place and retain a stand on the curb-line, in front of No. 51 Whitehall street, said stand not to be more than six feet long by two and one-half feet wide; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, March 14, 1884.

Received from his Honor the Mayor, March 24, 1884, without his approval or objections thereto; therefore, as provided in section 75, chapter 410, Laws of 1882, the same became adopted.

Resolved, That permission be and the same is hereby given to Ferdinand de Majo to place and retain a stand on the curb-line, in front of No. 51 Whitehall street, said stand not to be more than six feet long by two and one-half feet wide; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, March 14, 1884.

Received from his Honor the Mayor, March 24, 1884, without his approval or objections thereto; therefore, as provided in section 75, chapter 410, Laws of 1882, the same became adopted.

Resolved, That permission be and the same is hereby given to Edward Ryan to place and keep a watering-trough in front of his premises in West street, near the southeast corner of Twelfth street, the work to be done and water supplied at his own expense, under the direction of the Commissioner of Public Works; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, March 14, 1884.

Received from his Honor the Mayor, March 24, 1884, without his approval or objections thereto; therefore, as provided in section 75, chapter 410, Laws of 1882, the same became adopted.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps lighted in One Hundred and Sixty-second street, from the crossing at Harlem railroad near Melrose depot, west to Grant avenue, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, March 14, 1884.

Approved by the Mayor, March 24, 1884.

Resolved, That Croton-mains be laid in Ninety-third street, between Tenth avenue and Boulevard, as provided in chapter 381, Laws of 1879.

Adopted by the Board of Aldermen, March 14, 1884.

Approved by the Mayor, March 24, 1884.

Resolved, That Croton water-mains be laid in Sixth avenue, from One Hundred and Thirty-fifth street to the north side of One Hundred and Fortieth street, and in One Hundred and Fortieth street, from the Sixth to the Fifth avenue, as provided in chapter 486, Laws of 1875.

Adopted by the Board of Aldermen, March 14, 1884.

Approved by the Mayor, March 24, 1884.

Resolved, That the Commissioner of Public Works be and he is hereby requested to include Forty-first street, between Second avenue and Prospect place, in the list of streets to be repaved this year, as provided in chapter 476, Laws of 1875.

Adopted by the Board of Aldermen, March 18, 1884.

Received from his Honor the Mayor, March 24, 1884, without his approval or objections thereto; therefore, as provided in section 75, chapter 410, Laws of 1882, the same became adopted.

Resolved, That permission be and the same is hereby given to Peter Tisch to place a soda-water stand in front of No. 2 Avenue A, the necessary consent having been received and is hereto annexed; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, March 18, 1884.

Received from his Honor the Mayor, March 24, 1884, without his approval or objections thereto; therefore, as provided in section 75, chapter 410, Laws of 1882, the same became adopted.

Resolved, That the Commissioners of the Department of Public Parks be and they are hereby requested to cause an order to be issued to the police force under their command, allowing children to play and use roller skates in the various public parks below Fifty-ninth street, without molestation.

Adopted by the Board of Aldermen, March 18, 1884.

Approved by the Mayor, March 24, 1884.

Whereas, Extensive repairs are necessary on the public baths under the charge of the Department of Public Works, more especially on the submerged portions thereof, and it is impossible to make sufficiently approximate estimates and specifications for such repairs to form a proper basis for bids or proposals; therefore

Resolved, That authority is hereby given to the Department of Public Works to have the necessary repairs to said public baths made by one or several contracts or orders without public advertisement and letting, and in such manner as the said Department may deem for the best interests of the city, including all the labor and materials necessary for the same, provided the sum or sums so expended shall not exceed \$4,500; to be paid from the appropriation "Free Floating Baths," 1884, as provided in section 64 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, March 18, 1884.

Approved by the Mayor, March 24, 1884.

Resolved, That Croton-mains be laid in One Hundred and Second street, between Second and Third avenues, under the direction of the Commissioner of Public Works, as provided in the New York Consolidation Act of 1882, sections 189 and 194.

Adopted by the Board of Aldermen, March 18, 1884.

Approved by the Mayor, March 24, 1884.

Resolved, That Robert E. Day be and he is hereby appointed a Commissioner of Deeds in and for the City and County of New York, in place of Thomas H. Burlock, deceased.

Adopted by the Board of Aldermen, March 24, 1884.

Resignation of J. M. Supple as Commissioner of Deeds.

Resolved, That Thomas F. Coen be and he is hereby appointed a Commissioner of Deeds in and for the City and County of New York, in place of John M. Supple, who has resigned.

Resignation accepted and resolution adopted by the Board of Aldermen, March 24, 1884.

Resignation of S. M. Anderson as a Commissioner of Deeds.

Resolved, That Arthur S. Hawley be and he is hereby appointed a Commissioner of Deeds in and for the City and County of New York, in place of Stephen M. Anderson, who has resigned.

Resignation accepted and resolution adopted by the Board of Aldermen, March 24, 1884.

Resignation of A. Friedsam as a Commissioner of Deeds.

Resolved, That Louis Levy be and he is hereby appointed a Commissioner of Deeds in and for the City and County of New York, in place of Aaron Friedsam, who has resigned.

Resignation accepted and resolution adopted by the Board of Aldermen, March 24, 1884.

Resignation of James W. McGowan as Commissioner of Deeds.

Resolved, That Joseph J. Fay be and he is hereby appointed a Commissioner of Deeds in and for the City and County of New York, in place of James W. McGowan, resigned.

Resignation accepted and resolution adopted by the Board of Aldermen, March 24, 1884.

Resolved, That Frederick Wm. Jockel be and he hereby is appointed a Commissioner of Deeds in and for the City and County of New York, in place and stead of Thomas Delmoar, who has failed to qualify.

Adopted by the Board of Aldermen, March 24, 1884.

Resolved, That Jacob Steinhardt be and hereby is reappointed a Commissioner of Deeds, to succeed himself, his term having expired 16th March, 1884.

Adopted by the Board of Aldermen, March 24, 1884.

Resolved, That permission be and the same is hereby given to Dr. J. B. White to place a carriage stepping-stone at the curb in front of his premises, No. 709 Madison avenue; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, February 25, 1884.

Received from his Honor the Mayor, March 10, 1884, with his objections thereto.

In Board of Aldermen, March 24, 1884, taken up, reconsidered, as provided in section 75, chapter 410, Laws of 1882, and adopted, notwithstanding the objections of his Honor the Mayor, three-fourths of all the members elected voting in favor thereof.

FRANCIS J. TWOMEY,
Clerk of the Common Council.

POLICE DEPARTMENT.

The Board of Police met on the 28th day of March, 1884.
Present—Commissioners French, Nichols, Mason, and Matthews.

Mask Ball Permits Granted.

May Barry, at Irving Hall, April 18.

Ernest Regelman, at 293 Bowery, April 5.

The following applications for promotion to Second Grade, were referred to the Superintendent for report as to efficiency, etc.:

Patrolman William Boos, First Precinct.

" Frederick Berg, Thirteenth Precinct.

" William F. Ripley, Fourth Precinct.

" Patrick Carroll, Twentieth Precinct.

Application of Patrolman John Gallagher, Twelfth Precinct, for promotion, was referred to the Superintendent to cite for examination.

Application of Dr. John Warren, for appointment as Police Surgeon, was ordered on file.

Communication from Smith E. Lane, enclosing map showing the boundaries of the City of New York, was referred to Chief Clerk to acknowledge the receipt of same, with thanks.

Communication from Edward W. Coope, relative to pension of Mrs. Alice Beekman, was referred to Commissioner Matthews for report.

Communication from A. Schrader and others, complaining of ruffianly boys in Seventy-third street, between Third and Lexington avenues, was referred to the Superintendent to abate the nuisance.

On reading communication from Henry Bergh, Jr., secretary, it was

Resolved, That permission be given to the Society for the Prevention of Cruelty to Animals to connect their offices by telegraph with the Central Office, under direction of the Superintendent of Telegraph, and without expense to this Department.

Resolved, That the bill of Oakley & Smith, \$285, for a horse, be and is hereby ordered to be paid by the treasurer—all aye.

Resignation accepted.

Patrolman John R. Vail, Twenty-third Precinct.

Promotion to Second Grade.

Patrolman John K. Cosgrove, First Precinct.

Transfers.

Patrolman Andrew Bradley, from Fourth Precinct to Eighteenth Precinct.

" James Mullany, from Eighteenth Precinct to Fourth Precinct.

" John Casey, from First Precinct to Twenty-second Precinct.

" Jacob J. Brush, from Sixth Precinct to Twentieth Precinct.

" Michael McLaughlin, from Twenty-first Precinct to Eighteenth Precinct.

" John Taylor, from Twenty-first Precinct to Sanitary Company.

Adjourned.

S. C. HAWLEY, Chief Clerk.

FIRE DEPARTMENT.

HEADQUARTERS FIRE DEPARTMENT, CITY OF NEW YORK,
February 23, 1884.

Present—President Cornelius Van Cott, Commissioners Henry D. Purroy and Richard Croker.

Communications.

From Chief of Battalion in charge Repair-shops—Requisitions for repairs to gong and hose, estimated cost \$9.80 and \$135 respectively. Ordered.

Comptroller—Returning proposal of the Fire Extinguisher Manufacturing Company for furnishing hose-tenders, with approval of the sureties. Filed, and following resolution adopted:

Resolved, That the contract for furnishing to this Department seven four-wheel hose-tenders, as per advertisement in the CITY RECORD, dated January 25, 1884, be and is awarded to the Fire Extinguisher Manufacturing Company, for the sum of \$6,825, on their proposal dated February 13, 1884.

Thomas F. Grady, attorney—Copy of consent and order of discontinuance in the case of Joseph Davis against Fireman Patrick V. Doyle. Laid over.

Commissioner Purroy—Report of conference with the Commissioner of Public Works relative to a permanent site for quarters of Hook and Ladder Co. No. 15, in Old Slip, and recommending that the attorney be directed to advise the Board as to the authority for and manner of obtaining permission to locate a house at the place indicated. Approved.

Chief of Department—Application for leave of absence on 24th instant. Granted.

Resolution.

Resolved, That under the provisions of section 14, chapter 742 of the Laws of 1871, as amended, Fireman Charles Willet, of Engine Co. No. 39, is hereby ordered to be examined by the Medical Officers as to his physical or mental qualifications to perform his duties. Adopted.

On motion, adjourned.

CHARLES DE F. BURNS, Asst. Secretary.

FEBRUARY 25, 1884.

Present—President Cornelius Van Cott, Commissioners Henry D. Purroy and Richard Croker.

Communications.

From—Supreme Court—Order to show cause why peremptory mandamus, directing that James Master-son be restored to the rolls, should not issue. Referred to Counsel to the Corporation for proper action.

Comptroller—Substitution of William H. Fogg for Guy R. Pelton as surety on proposal of Abner Greenleaf for furnishing water tower. Approved and returned.

On motion, ordered that an official test be made, on 1st proximo, of the feasibility of forcing water from the river on an imaginary fire situate at any point within the radius of one mile from the water supply, and at elevation of forty-five feet (greater than the elevation of the highest point in the dry goods district), by means of the pumps of the floating engine "Zophar Mills," strong hose, a portable water-tank, and the land engines of the Department. The "Zophar Mills" to be near the Morrisania Steamboat Pier, on the north side of the Harlem river just east of the Harlem River Bridge, and the lines to be stretched eastward on the Southern Boulevard, and that the public officials, the fire underwriters, and all interested be informed and invited to witness the test.

On motion, adjourned.

CARL JUSSEN, Secretary.

FEBRUARY 26, 1884.

Present—President Cornelius Van Cott, Commissioners Henry D. Purroy and Richard Croker.

Communications.

From—Inspector of Buildings—Notice of unsafe condition of building No. 253 Spring street and adjoining bell tower. Referred to Chairman Committee on Repairs and Supplies.

Chief of Battalion in charge Repair Shops—Recommending suspension of the mechanical and laboring force for four days. Ordered.

Supply Clerk—Requisition for articles required; estimated cost, \$777. Ordered.

Counsel to the Corporation—Form of affidavit required to oppose motion in case of Ernest Drevet, with request that same be returned verified. Compliance directed.

On motion, adjourned.

CARL JUSSEN, Secretary.

February 27, 1884.

Present—President Cornelius Van Cott, Commissioners Henry D. Purroy and Richard Croker.
On motion it was ordered, that application be made to the Commissioner of Public Works for a site, 25 x 130 feet, in the centre of Old Slip, between Water and Front streets, to be used for an apparatus-house.

Communications.

From—Supply Clerk—Requisitions for articles required, estimated cost \$352.50, \$75.65, \$579.20, \$154, and \$386, respectively. Ordered.

Superintendent Repairs to Buildings—Requisitions for work required at various company quarters, estimated cost, \$45, \$140, \$35, \$45, \$60, \$250, \$60, \$530, \$555, and \$575, respectively. Ordered.

Chief of Battalion in charge Repair Shops—Requisitions for work required, estimated cost, \$15, and \$100, respectively. Ordered.

Superintendent of Telegraph—Requisition for rental of telephones, \$510. Expenditure authorized.

Superintendent of Horses—Recommending purchase of horse at \$300. Ordered.

Same—Requisition for team for Hook and Ladder Co. No. 1. Selection ordered.

Second Assistant Chief of Department—Relative to employment of watchman at building used by School of Instruction. Filed, and expenditure of \$5 per month authorized.

Comptroller—Statement of condition of appropriation to 23d instant. Filed.

Resolution.

Resolved, That the bill of W. A. L. Vogt for Custom House charges for inspection of boiler of Fire-boat "Zophar Mills," and fees, amounting to \$34.05, be and is hereby allowed and audited. Adopted.

The action of the President in directing appointment of Thomas H. Sullivan as Machinists' Helper in Repair Shops, at \$1.75 per day, from 25th instant, was approved.

The consideration of communications was continued, as follows:

Second Assistant Chief of Department—Report of members relieved from attendance at School of Instruction. Filed.

Chief Second Battalion—Returning report of rescue by Assistant Foreman James Heaney at fire No. 4 Dover street, with additional information as to risk incurred. Filed, with directions to enter on Roll of Merit.

Same—Report of rescue by Fireman John Banks, of Engine Co. No. 7, at fire No. 173 West street. Referred back for statement as to whether personal risk was incurred.

Arnold Reif—Commending members of the Department for rescuing himself and family from burning building No. 173 West street. Filed.

Foreman Engine Co. No. 38—Reporting loss of seal on horse. Referred to Property Record Clerk.

Foreman Engine Co. No. 21—Requesting permission to use rear part of first floor of quarters as a sitting-room. Referred to Commissioner Croker.

Foreman Engine Co. No. 37—Reporting loss of cap device by Fireman John Murray, while working on Fire-boat "Zophar Mills." Filed.

Privates Martin Kelly of Engine Co. No. 5, and George W. Greer of Engine Co. No. 26, applying for promotion to rank of Assistant Engineer of Steamer. Referred to Examining Board for Engineers.

Foreman Engine Co. No. 8—Reporting loss of badge by private John J. Bulger. Filed and a fine of \$5 imposed.

Fireman Malachi Donohue, of Engine Co. No. 5—Volunteering for instruction in Life Saving Corps. Filed.

Foreman Hook and Ladder Co. No. 12—Reporting death of Fireman William J. Galbraith, on 25th instant. Filed.

Inspector of Combustibles—Report of licenses and permits issued to 25th instant. Filed.

Same—Reporting violations of law. Referred back with directions to collect penalties.

Same—Recommending that legal proceedings be instituted. Approved and referred to the Attorney.

Same—Recommending remission of penalties. Approved.

Superintendent of Telegraph—Recommending that alarm-boxes be placed at locations designated. Referred to Chief of Department for opinion.

Same—Reporting that six new alarm-boxes have been located and are ready for service. Approved.

Superintendent of Horses—Recommending sale of four horses. Referred back for details as to length of service and cause of disability.

Thomas F. Grady, attorney—Order of discontinuance, etc., in case of Davis v. Doyle (laid over on 23d instant). Filed and charges preferred against Fireman Patrick V. Doyle, under date of December 7, 1883, dismissed.

Medical Officers—Report of examination of Fireman Charles Willett, of Engine Co. No. 39, as to his ability to perform duty. Filed and following preamble and resolution adopted by a unanimous vote:

Whereas, It appears from the report of the Medical Officers, dated February 27, 1884, that Fireman Charles Willett, of Engine Co. No. 39, is totally and permanently physically disabled for the performance of his duties, and that such disability was caused in or induced by the actual performance of the duties of his position; therefore, be it

Resolved, That under the provisions of section 14, chapter 742 of the Laws of 1871, as amended, the said Fireman Charles Willett, of Engine Co. No. 39, be and is hereby retired from all service in this Department on an annual pension of \$600, payable monthly, to take effect from and after the 1st proximo.

The minutes of the meetings held 8th, 9th, 13th, 14th, 15th, 16th, 18th and 19th instant, were read and approved.

Appointments.

Patrick Cuff, as Examiner in Bureau of Inspection of Buildings, at a salary of \$1,100 per annum, 1st proximo.

Patrick H. Deviney, as Messenger and Copyist in Bureau of Inspection of Buildings, at a salary of \$800 per annum, 1st proximo.

Report on badges was submitted by Commissioner Croker, with recommendations. Approved.

Bills

—audited and transmitted to the Comptroller for payment:

For the Year 1883—Schedule No. 76.

Arctander, A., & Co., apparatus, supplies, etc. \$947 00

For the Current Year—Schedule No. 9.

Bloomfield, John J., apparatus, supplies, etc.	\$36 60
Bowns, H. E., "	1,667 46
Clapp & Jones Mfg. Co., "	149 25
Dahlman, I. H., "	900 00
Finney & Fetter, "	15 00
Frost & Wood, "	65 00
Gutta Percha and Rubber Mfg. Co., apparatus, supplies, etc.	155 85
Hayes, George, "	10 00
Hoyt, David, "	104 70
Hunter-Keller Mfg. Co., "	147 74
Ilsey, Doubleday & Co., "	78 20
Powers, John, manager, "	60 75
Quackenbush, Townsend & Co., "	127 68
Tillotson, L. G., & Co., "	106 52
Vandewater, W. C., "	69 00
Vogt, W. A. L., "	34 05
	\$3,730 80

On motion, adjourned.

CARL JUSSEN, Secretary.

FEBRUARY 28, 1884.

Present—President Cornelius Van Cott, Commissioners Henry D. Purroy and Richard Croker.

On motion, ordered, that in consequence of the unfavorable condition of the streets, the test of the feasibility of delivering water a mile distant from the source of supply, be postponed to 4th proximo, at 3 P. M.

On motion, ordered, that the officers and men of the uniformed force, detailed for special service, report back to their respective companies, without delay.

Resolutions.

Resolved, That under the provisions of section 14, chapter 742, Laws of 1871, as amended, Fireman James Roland, of Engine Co. No. 18, and Fireman William M. Gordon, of Engine Co. No. 51, are hereby ordered to be examined by the Medical Officers as to their physical or mental qualifications to perform their duties. Adopted.

Resolved, That an advertisement be inserted in the CITY RECORD inviting proposals for furnishing new boiler and making repairs to Engine No. 29, as per specifications therefor submitted by Chief of Battalion in charge Repair Shops. Adopted.

Trial.

Private John J. Bulger of Engine Co. No. 8, charged with "absence without leave" and "neglect of duty," under date of January 19, and with "absence without leave," under date of January 20 and February 24. Accused failed to appear; evidence taken, and case adjourned to 1st proximo.

On motion, adjourned.

CARL JUSSEN, Secretary.

EXECUTIVE DEPARTMENT.

Appointments by the Mayor.

To be a Board of Examiners for all positions in Schedule B of the regulations prescribed by the Mayor for admission to the Civil Service of the City of New York:

CHARLES S. FAIRCHILD,
J. SEAVER PAGE, and
A. R. MACDONOUGH.

To be a Board of Examiners for all positions in Schedule C of the regulations prescribed by the Mayor for admission to the Civil Service of the City of New York, except positions as nurses, attendants, and orderlies in the city asylums and hospitals:

DAN. B. SMITH,
ARTHUR H. DUNDON, and
JAMES MOIR.

To be a Board of Examiners for positions as nurses, orderlies, and attendants in the city asylums and hospitals:

THOMAS H. BURCHARD, M. D.,
F. TILDEN BROWN, M. D., and
T. H. MANLEY, M. D.

WM. E. LUCAS,
Secretary.

NEW YORK, January 8, 1884.

Notice is hereby given that the Board of Examiners for all positions in Schedule B, as specified in the regulations prescribed by the Mayor of the City of New York for the admission of persons into the Civil Service of said city, has this day been organized by the election of Augustus R. Macdonough as Chairman, and that blanks for applicants for positions included in said Schedule B can be obtained on and after January 15, 1884, from the Secretary of the Municipal Service Examining Board, No. 6 City Hall.

A. R. MACDONOUGH,
CHAS. S. FAIRCHILD,
J. SEAVER PAGE,
Board of Examiners.

NEW YORK, January 16, 1884.

Notice is hereby given that the Board of Examiners for all positions in Schedule C, except nurses, etc., as specified in the regulations prescribed by the Mayor of the City of New York for the admission of persons into the Civil Service of said city, has been organized by the election of Arthur H. Dundon as Chairman, and that blanks for applicants for positions included in said Schedule C can be obtained on and after this date from the Secretary of the Municipal Service Examining Board, No. 6 City Hall.

ARTHUR H. DUNDON,
DAN. B. SMITH,
JAMES MOIR,
Board of Examiners.

NEW YORK, January 8, 1884.

Notice is hereby given that the Board of Examiners for all positions as nurses, attendants and orderlies for the city hospitals and asylums in the Department of Public Charities and Correction, as specified in the regulations prescribed by the Mayor for the admission of persons into the Civil Service of the City of New York, has been organized by the election of Thomas H. Burchard, M. D., as Chairman and F. Tilden Brown M. D., as Recording Officer, and that blanks for applicants for positions as nurses, attendants and orderlies as aforesaid can be obtained on and after January 15, 1884, from the Secretary of the Municipal Service Examining Board, No. 6 City Hall.

THOMAS H. BURCHARD, M. D.,
F. TILDEN BROWN, M. D.,
THOMAS H. MANLEY, M. D.,
Board of Examiners.

Appointment by the Mayor.

January 18, 1884—Ehrman S. Nadal, Secretary of the Boards of Examiners, Municipal Service, City of New York.

WM. E. LUCAS,
Secretary.

MAYOR'S OFFICE—BUREAU OF LICENSES,
NEW YORK, March 29, 1884.

Number of licenses issued and amount received therefor for the week ending Friday, March 28, 1884:

DATE.	NUMBER OF LICENSES.	AMOUNT.
March 22, 1884	45	\$336 50
" 24, "	37	62 00
" 25, "	33	77 00
" 26, "	52	232 00
" 27, "	36	54 50
" 28, "	35	102 00
Totals	238	\$864 00

GEO. A. McDERMOTT,
Mayor's Marshal.

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.
FRANKLIN EDSON, Mayor; WILLIAM E. LUCAS, Secretary; AUGUSTUS WALSH, Chief Clerk.

Mayor's Marshal's Office.

No. 1 City Hall, 9 A. M. to 4 P. M.
GEORGE A. McDERMOTT, First Marshal.

Permit Bureau Office.

No. 13 1/2 City Hall, 9 A. M. to 4 P. M.
HENRY WOLTMAN, Registrar.

COMMISSIONERS OF ACCOUNTS.

No. 1 County Court-house, 9 A. M. to 4 P. M.
GEO. EDWIN HILL, ANDREW B. MARTIN.

AQUEDUCT COMMISSIONERS.

Room 78, Tribune Building, 9 A. M. to 5 P. M.
THE MAYOR, President; JAMES W. McCULLOH, Secretary; BENJAMIN S. CHURCH, Chief Engineer.

LEGISLATIVE DEPARTMENT.

Office of Clerk of Common Council.

No. 8 City Hall, 10 A. M. to 4 P. M.
WILLIAM P. KIRK, President Board of Aldermen.
FRANCIS J. TWOMEY, Clerk Common Council.

City Library.

No. 12 City Hall, 10 A. M. to 4 P. M.

DEPARTMENT OF PUBLIC WORKS.

Commissioner's Office.

No. 31 Chambers street, 9 A. M. to 4 P. M.
HUBERT O. THOMPSON, Commissioner; FREDERICK H. HAMLIN, Deputy Commissioner.

Bureau of Chief Engineer.

No. 31 Chambers street, 9 A. M. to 4 P. M.
ISAAC NEWTON, Chief Engineer.

Bureau of Water Register.

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

Bureau of Street Improvements.

No. 31 Chambers street, 9 A. M. to 4 P. M.
GEORGE A. JEREMIAH, Superintendent.

Engineer in Charge of Sewers.

No. 31 Chambers street, 9 A. M. to 4 P. M.
STEPHENSON TOWLE, Engineer-in-Charge.

Bureau of Repairs and Supplies.

No. 31 Chambers street, 9 A. M. to 4 P. M.
THOMAS H. McAVOY, Superintendent.

Bureau of Water Purveyor.

No. 31 Chambers street, 9 A. M. to 4 P. M.
DAVID L. SMITH, 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.
JAMES J. MOONEY, Superintendent.

Bureau of Incumbrances.

No. 31 Chambers street, 9 A. M. to 4 P. M.
JOSEPH BLUMENTHAL, Superintendent.

Keeper of Buildings in City Hall Park.

MARTIN J. KEENE, City Hall.

FINANCE DEPARTMENT.

Comptroller's Office.

Nos. 19 and 20 New County Court-house, 9 A. M. to 4 P. M.
S. HASTINGS GRANT, Comptroller; RICHARD A. STORRS, Deputy Comptroller.

Auditing Bureau.

No. 19 New County Court-house, 9 A. M. to 4 P. M.
WM. J. LYON, Auditor of Accounts.
DAVID E. AUSTEN, Assistant Auditor.

Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents.

No. 5 New County Court-house, 9 A. M. to 4 P. M.
ARTEMAS S. CADY, Collector of Assessments and Clerk of Arrears.

Bureau for the Collection of City Revenues and of Markets.

No. 6 New County Court-house, 9 A. M. to 4 P. M.
FRANCIS TOMES, Collector of the City Revenue and Superintendent of Markets.

Bureau for the Collection of Taxes.

First floor Brown-stone Building, City Hall Park.
MARTIN T. McMAHON, Receiver of Taxes; ALFRED VREDENBURG, Deputy Receiver of Taxes.

Bureau of the City Chamberlain.

No. 18 New County Court-house, 9 A. M. to 4 P. M.
J. NELSON TAPPAN, City Chamberlain.

Office of the City Paymaster.

Room 1, New County Court-house, 9 A. M. to 4 P. M.
MOOR FALLS, City Paymaster.

LAW DEPARTMENT.

Office of the Counsel to the Corporation.

Staats Zeitung Building, third floor, 9 A. M. to 5 P. M.
Saturdays, 9 A. M. to 4 P. M.

GEORGE P. ANDREWS, Counsel to the Corporation;
ANDREW T. CAMPBELL, Chief Clerk.

Office of the Public Administrator.

No. 49 Beekman street, 9 A. M. to 4 P. M.
ALGERNON S. SULLIVAN, Public Administrator

Office of the Corporation Attorney.

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

POLICE DEPARTMENT.

Central Office.

No. 300 Mulberry street, 9 A. M. to 4 P. M.
STEPHEN B. FRENCH, President; SETH C. HAWLEY, Chief Clerk; JOHN J. O'BRIEN, Chief Bureau of Elections.

DEPARTMENT OF CHARITIES AND CORRECTION.

Central Office.

No. 66 Third avenue, corner Eleventh street, 8.30 A. M. to 5.30 P. M.
H. H. PORTER, Preside GEORGE F. BRITTON, Secretary.

FIRE DEPARTMENT.

Office hours for all except where otherwise noted from 9 A. M. to 4 P. M. Saturdays, to 3 P. M.

Headquarters.

Nos. 155 and 157 Mercer street.
CORNELIUS VAN COTT, President; CARL JUSSEN, Secretary.

Bureau of Chief of Department.

ELI BATES, Chief of Department.

Bureau of Inspector of Combustibles.

PETER SEERY, Inspector of Combustibles.

Bureau of Fire Marshal.

GEORGE H. SHIELDON, Fire Marshal.

Bureau of Inspection of Buildings.

WM. P. ESTERBROOK, Inspector of Buildings.

Attorney to Department.

WM. L. FINDLEY, Nos. 155 and 157 Mercer street.

Fire Alarm Telegraph.

J. ELLIOT SMITH, Superintendent of Telegraph, Nos. 155 and 157 Mercer street.
Central Office Fire Alarm Telegraph open at all hours.

Repair Shops.

Nos. 128 and 130 West Third street.
JOHN MCCABE, Chief of Battalion-in-Charge, 8 A. M. to 5 P. M.

Hospital Stables.

99th street, between 9th and 10th avenues.
JOSEPH SHEA, Superintendent of Horses.
Open at all hours.

HEALTH DEPARTMENT.

No. 301 Mott street, 9 A. M. to 4 P. M.
ALEXANDER SHALER, President; EMMONS CLARK, Secretary.

DEPARTMENT OF PUBLIC PARKS.

No. 36 Union Square, 9 A. M. to 4 P. M.
EGBERT L. VIELE, President; EDWARD P. BARKER, Secretary.

Civil and Topographical Office.

Arsenal, 64th street and 5th avenue, 9 A. M. to 5 P. M.

Office of Superintendent of 23d and 24th Wards.
146th street and 3d avenue, 9 A. M. to 5 P. M.

DEPARTMENT OF DOCKS.

Nos. 117 and 119 Duane street, 9 A. M. to 4 P. M.
LUCIUS J. N. STARK, President; JOHN T. CUMING, Secretary.
Office hours from 9 A. M. to 4 P. M. daily, except Saturdays; on Saturdays as follows: from September 15 to June 15, from 9 A. M. to 3 P. M.; from June 15 to September 15, 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.
THOMAS B. ASTEN, 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 COMERFORD, Clerk.

DEPARTMENT OF STREET CLEANING.

31 and 32 Park Row, "World" Building, Rooms 8 and 9, 9 A. M. to 4 P. M.
JAMES S. COLEMAN, Commissioner; A. H. ROGERS, Deputy Commissioner; M. J. MORRISON, Chief Clerk.

BOARD OF ASSESSORS.

Office, City Hall, Room No. 12½, 9 A. M. to 4 P. M.
JOHN R. LYDECKER, Chairman; WM. H. JASPER, Secretary.

BOARD OF EXCISE.

Corner Bond street and Bowery, 9 A. M. to 4 P. M.
NICHOLAS HAUGHTON, President; BENJAMIN F. HASKIN, Secretary and Chief Clerk.

SHERIFF'S OFFICE.

Nos. 3 and 4 New County Court-house, 9 A. M. to 4 P. M.
ALEXANDER V. DAVIDSON, Sheriff; JOEL O. STEVENS, Under Sheriff; DAVID MCGONIGAL, Order Arrest Clerk.

REGISTER'S OFFICE.

East side City Hall Park, 9 A. M. to 4 P. M.
JOHN REILLY, Register; J. FAIRFAX McLAUGHLIN, Deputy Register.

COMMISSIONER OF JURORS.

No. 17 New County Court-house, 9 A. M. to 4 P. M.
GEORGE CAULFIELD, 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.
PATRICK KEENAN, County Clerk; H. S. BEATTIE, Deputy County Clerk.

DISTRICT ATTORNEY'S OFFICE.

Second floor, Brown-stone Building, City Hall Park, 9 A. M. to 4 P. M.
PETER B. OLNEY, District Attorney; HUGH DONNELLY, Chief Clerk.

THE CITY RECORD OFFICE.

And Bureau of Printing, Stationery, and Blank Books.
No. 2 City Hall, 8 A. M. to 5 P. M., except Saturdays, on which days 8 A. M. to 3 P. M.
THOMAS COSTIGAN, Supervisor; R. P. H. ABELL, Book-keeper.

CORONERS' OFFICE.

Nos. 13 and 15 Chatham street, 8 A. M. to 5 P. M. Sundays and Holidays, 8 A. M. to 12:30 P. M.
PHILIP MERKLE, FERDINAND LEVY, BERNARD F. MARTIN and WILLIAM H. KENNEDY, Coroners; JOHN T. TOAL, Clerk of the Board of Coroners.

SUPREME COURT.

Second floor, New County Court-house, 10½ A. M. to 3 P. M.
General Term, Room No. 9.
Special Term, Room No. 10.
Chambers, Room No. 11.
Circuit, Part I., Room No. 12.
Circuit, Part II., Room No. 13.
Circuit, Part III., Room No. 14.
Judges' Private Chambers, Room No. 15.
NOAH DAVIS, Chief Justice; PATRICK KEENAN, Clerk.

SUPERIOR COURT.

Third floor, New County Court-house, 11 A. M.
General Term, Room No. 35.
Special Term, Room No. 33.
Chambers, Room No. 33, to 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.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

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

TO CONTRACTORS.

PROPOSALS FOR GROCERIES, DRY GOODS, LEATHER AND LUMBER.

SEALED BIDS OR ESTIMATES FOR FURNISHING

GROCERIES.
4,000 pounds Dairy Butter, sample on exhibition Thursday, April 10, 1884.
30,000 Fresh Eggs, all to be candled.
3,000 pounds C. Cicory.
200 barrels prime quality American Salt, 320 pounds net each, to be delivered at Blackwell's Island.
3,000 pounds Cheese.
50 dozen Canned Tomatoes, 3 pounds.
30 " " Peas, 2 pounds.
30 " " Peaches, 3 pounds.
100 barrels prime Carrots, 120 pounds net per barrel.
100 barrels prime Russia Turnips, 135 pounds net per barrel.
50 barrels prime Red Onions.
600 barrels good sound Irish Potatoes, to weigh 178 pounds net per barrel, and to be delivered at Blackwell's Island.
50 pieces prime City Cured Bacon, to average not over 6 pounds each.

DRY GOODS.
500 yards Canton Flannel.
500 " " Linen Dowls.
400 dozen Men's S raw Hare.
100 " " Women's " "
25 " " Boys' " "
100 packages Pins.

LEATHER
500 sides good damaged Sole Leather.
2,000 pounds Offal Leather.

LUMBER
25,000 feet (B. M.) good shipping Box Boards, 12 to 16 inches wide, 12 to 16 feet long, dressed one side.
10,000 feet prime quality Pine Shelving, dressed both sides.
10,000 feet prime quality 1-inch Clear Pine, 12 to 16 inches by 14 to 16 feet long, dressed one side.
All Lumber to be delivered at Blackwell's Island.

—Or any single article thereof, will be received at the office of the Department of Public Charities and Correction, in the City of New York, until 9:30 o'clock A. M., of Friday, April 11, 1884. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Groceries, Dry Goods, Leather and Lumber," with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the President of said Department, and read.

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

No bid or estimate will be accepted from, or 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.

whom he consents to become surety. The adequacy and sufficiency of the security offered to be approved by the Comptroller of the City of New York.

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

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

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

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

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

Payment will be made by a requisition on the Comptroller, issued on the completion of the contract, or from time to time, as the Commissioners may determine.

Bidders are informed that no deviation from the specifications will be allowed, unless under the written instructions of the Commissioners of Public Charities and Correction, AND ARE PARTICULARLY CAUTIONED TO EXAMINE WITH CARE THE PROVISIONS OF ARTICLE 5 OF THE PRINTED CONTRACT FORM.

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, March 31, 1884.

JACOB HESS,

HENRY H. PORTER,

THOMAS S. BRENNAN,

Commissioners of the Department of Public Charities and Correction.

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

TO CONTRACTORS.

PROPOSALS FOR CONSTRUCTION AND FITTING UP OF DRYING-ROOM FOR LAUNDRY BUILDING AT HOMOEOPATHIC HOSPITAL, WARD'S ISLAND.

THE SPECIFICATIONS AND PLANS FOR which are at this office—will be received at the office of the Department of Public Charities and Correction, in the City of New York, until 9:30 o'clock A. M., of Friday, April 11, 1884. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Drying-room in Laundry Building, Homoeopathic Hospital, Ward's Island," for which there is one separate set of specifications, and the work for which is to be let in one contract, 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.

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 SIX HUNDRED (\$600) 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 the work, by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities, as bail, surety, or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by section 27 of chapter 8 of the Revised Ordinances of the City of New York, if the contract shall be awarded to the person or persons for whom he consents to become surety. The adequacy and sufficiency of the security offered to be approved by the Comptroller of the City of New York.

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

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

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, as the Commissioners may determine.

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, AND ARE PARTICULARLY CAUTIONED TO EXAMINE WITH CARE THE PROVISIONS OF ARTICLE 5 OF THE PRINTED CONTRACT FORM.

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, March 26, 1884.

JACOB HESS,

HENRY H. PORTER,

THOMAS S. BRENNAN,

Commissioners of the Department of Public Charities and Correction.

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

NEW YORK, March 25, 1884.

IN ACCORDANCE WITH AN ORDINANCE OF the Common Council, "In relation to the burial of strangers or unknown persons who may die in any of the public institutions of the City of New York," the Commissioners of Public Charities and Correction report as follows:

At Work-house, Blackwell's Island—Kate Horan; aged 29 years. Committed March 16, 1884.

At Homoeopathic Hospital, Ward's Island—Francis's Garnier; aged 43 years; 5 feet 7 inches high; dark hair and eyes. Had on when admitted brown coat and vest, dark pants, laced shoes, light derby hat.

Louis Perchtold; aged 65 years; 5 feet 6 inches high; blue eyes; brown hair. Had on when admitted black overcoat, vest, gray pants, slippers, brown derby hat.

James C. Tilford; aged 41 years; 5 feet 8 inches high; brown eyes; gray hair. Had on when admitted dark mixed sack coat, blue vest, brown striped pants, brogan shoes, black derby hat.

Nothing known of their friends or relatives.

By order, G. F. BRITTON, Secretary.

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

NEW YORK, March 18, 1884.

IN ACCORDANCE WITH AN ORDINANCE OF the Common Council, "In relation to the burial of strangers or unknown persons who may die in any of the public institutions of the City of New York," the Commissioners of Public Charities and Correction report as follows:

At Workhouse, Blackwell's Island—Maggie Lockwood; aged 27 years; committed March 10, 1884.

At Homoeopathic Hospital, Ward's Island—Bridget Anderson; aged 60 years; 5 feet 5 inches high; blue eyes, gray hair. Had on when admitted black dress, gray shawl, gingham apron, hood.

At Bran's Lunatic Asylum, Hart's Island—Catharine McLoughlin; aged 46 years; admitted July, 1877.

Margaret Martin; aged 51 years; admitted September 6, 1879.

At Hart's Island Hospital—Mary Burns; aged 50 years.

Nothing known of their friends or relatives.

By order, G. F. BRITTON, Secretary.

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

NEW YORK, March 13, 1884.

DEPARTMENT OF STREET CLEANING.

DEPARTMENT OF STREET CLEANING,
Nos. 31 and 32 PARK ROW.

TO CONTRACTORS.

PROPOSALS FOR ESTIMATES.

ESTIMATES FOR A NEW BOILER, ETC., TO

be constructed and placed in the steam tug "F. Dasso," will be received by the Commissioner of Street Cleaning, at the office of the Department of Street Cleaning, in the City of New York, until 12 o'clock, M., of Thursday, the third day of April, 1884, at which time and place the bids will be publicly opened by the head of said Department and read. The award of the contract, if awarded, will be made as soon as practicable after the opening of the bids.

Any person making an estimate for the work shall furnish the same in a sealed envelope to said Commissioner, at said office, on or before the day and hour above named, which envelope shall be endorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

The amount of security required is EIGHT THOUSAND DOLLARS.

The entire work is to be completed in eighty-five working days after the date of commencement thereof.

For information as to the amount and kind of work to be done, bidders are referred to the specifications, which are annexed to and form part of the proposals, and the plans, which can be seen at the office of said Department.

The damages to be paid by the Contractor for each day that the contract may be unfulfilled after the time specified for the completion thereof shall have expired, are, by a clause in the contract, fixed and liquidated at fifty dollars per day.

The person or persons to whom the contract may be awarded will be required to attend at the office of the said Department with the sureties offered by him or them and execute the contract within five days after written notice that the same has been awarded to his or their bid or estimate, and that the sureties offered by him or them have been approved by the Comptroller; 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 thereupon the work will be readvertised and relet, and so on until the contract be accepted and executed. The work to commence at such time as the Commissioner of Street Cleaning may designate.

No estimate will be received or considered unless accompanied by either a certified check upon one of the NATIONAL BANKS of the City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect to execute the contract 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.

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.

Permission will not be given for the withdrawal of any bid or estimate, and the Commissioner expressly reserves the right to decline any and all bids or estimates if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

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

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders 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 will pay to the Corporation of the City of New York, any difference between the sum to which he would be entitled on its completion, and that which said Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety, or otherwise; and that he has offered himself as a surety in good faith, and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered 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.

Bidders will state the price for doing the whole work, by which the bids will be tested.

The old boiler and the fixtures to be removed under the contract will be relinquished to the Contractor, and bidders must estimate the value of such boiler and fixtures when considering the price for which they will do the work under the contract.

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

Payment will be made by a requisition on the Comptroller, issued on completion of the contract.

Bidders are informed that no deviation from the specifications will be allowed, unless under the written instruction of the Commissioner of Street Cleaning.

All bids must be made with reference to the form of contract and the requirements thereof, and the plans or drawings which will be on file at the Department of Street Cleaning, or they will be rejected; and the same is referred to as a part of this notice.

Dated NEW YORK, March 20, 1884.

JAMES S. COLEMAN,
Commissioner of Street Cleaning.

FIRE DEPARTMENT.

HEADQUARTERS
FIRE DEPARTMENT, CITY OF NEW YORK,
155 AND 157 MERCER STREET,
NEW YORK, March 17, 1884.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING THIS

Department with the following articles:

250,000 pounds Hay, of the quality and standard known as Best Sweet Timothy.
43,000 pounds good clean Rye Straw.
2,300 bags clean No. 1 White Oats, 80 pounds to the bag.
1,300 bags first quality Bran, 40 pounds to the bag.

—will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 155 and 157 Mercer street, in the City of New York, until 10 o'clock A. M., Wednesday, April 2, 1884, at which time and place they will be publicly opened by the head of said Department and read.

Proposals must include all of the items, specifying the price per cwt. for hay and straw, and per bag for oats and bran.

All of the articles are to be delivered at the various houses of the Department below Fifty-ninth street, in such quantities and at such times as may be directed.

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

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

Any person making an estimate for the work shall present the same in a sealed envelope, to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation and a statement of the work to which it relates.

The Fire Department reserves the right to decline any and all bids or estimates if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

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

Each bid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded become bound as his sureties for its faithful performance; and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the

amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety, or otherwise; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the security offered is to be approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract.

No estimate will be considered unless accompanied by either a certified check upon one of the National Banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of two hundred dollars (\$200). Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk, and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

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

Bidders will write out the amount of their estimate, in addition to inserting the same in figures. The form of the agreement and specifications, and showing the manner of payment for the articles, may be seen and forms of proposals may be obtained at the office of the Department.

CORNELIUS VAN COTT,
HENRY D. PURROY,
RICHARD CROKER,
Fire Commissioners.

HEADQUARTERS
FIRE DEPARTMENT, CITY OF NEW YORK,
155 AND 157 MERCER STREET,
NEW YORK, March 17, 1884.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING THIS

Department with the following articles:

120,000 pounds Hay, of the quality and standard known as Best Sweet Timothy.
22,000 pounds good clean Rye Straw.
1,200 bags clean No. 1 White Oats, 80 pounds to the bag.
700 bags first quality Bran, 40 pounds to the bag.

—will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 155 and 157 Mercer street, in the City of New York, until 10 o'clock A. M., Wednesday, April 2, 1884, at which time and place they will be publicly opened by the head of said Department and read.

Proposals must include all of the items, specifying the price per cwt. for hay and straw, and per bag for oats and bran.

All of the articles are to be delivered at the various houses of the Department above Fifty-ninth street, in such quantities and at such times as may be directed.

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

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

Any person making an estimate for the work shall present the same in a sealed envelope, to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation and a statement of the work to which it relates.

The Fire Department reserves the right to decline any and all bids or estimates if deemed to be for the public interest. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

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

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

No estimate will be considered unless accompanied by either a certified check upon one of the National Banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of one hundred dollars (\$100). Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk, and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same within three days after the contract is awarded. If the successful bidder shall refuse or neglect within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

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

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

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

The form of the agreement and specifications, and showing the manner of payment for the articles, may be seen and forms of proposals may be obtained at the office of the Department.

CORNELIUS VAN COTT,
HENRY D. PURROY,
RICHARD CROKER,
Fire Commissioners.

HEADQUARTERS
FIRE DEPARTMENT, CITY OF NEW YORK,
155 & 157 MERCER STREET,
NEW YORK, Nov. 21, 1883.

NOTICE IS HEREBY GIVEN THAT THE Board of Commissioners of this Department will meet daily, at 10 o'clock A. M., for the transaction of business.

By order of
CORNELIUS VAN COTT, President.
HENRY D. PURROY,
RICHARD CROKER,
Commissioners.

CARL JENSEN,
Secretary.

DEPARTMENT OF DOCKS.

PUBLIC NOTICE.

DEPARTMENT OF DOCKS,
Nos. 117 AND 119 DUANE STREET.

FOR THE INFORMATION OF THE PUBLIC, and especially of those using the Wharf Property of the City of New York, the following extracts from the rules and regulations established for the guidance of the Dock Masters appointed by the Board governing this Department, and to be observed by them in the performance of their duties, are hereby promulgated and published:

Resolved, For the proper supervision of the waterfront of the City, the care of the wharf property located thereon placed in the charge of this Department, the rendering of necessary facilities for the prompt berthing of vessels of every kind, and the collection of the wharfage accruing therefrom, that the waterfront of the City of New York be a-d hereby divided into nine districts, and that for each of the said districts there shall be appointed, designated, or assigned, from time to time, at the pleasure of the Board, a suitable and competent person to be known and entitled as "Dock Master," who shall perform such duties and render such services in relation to the supervision, regulation, and occupation of the wharf property and waterfront in their respective districts, as the laws of the United States and of the State of New York, the ordinances of the City of New York, and the by-laws of this Board, and its rules, or orders, shall or may require, prescribe, or direct.

The several districts so made and created, and the Dock Masters assigned thereto, are as follows, to wit:

District No. 1.—Embracing all that portion of the East river, extending from Castle Garden, on the Battery, to and including Pier 21, East river.
Charles H. Thompson, Dock Master; office, 33 Coenties Slip.

District No. 2.—All that portion of the North river extending from Castle Garden, to a-d including Pier old 42, North river.
George W. Wamaker, Dock Master; office, foot of Duane street, N. R.

District No. 3.—From east side Pier 21, East river, to a-d including Pier 55, East river.
Edward Abel, Dock Master; office, 262 South street.

District No. 4.—From north side Pier, old 42, North river, to and including pier at foot of West Twenty-third street, North river.
John M. Smith, Dock Master; office, Pier, new 43, N. R.

District No. 5.—From north side Pier 55, East river, to north side of Thirty-fourth street, East river.
Bernard Kenney, Dock Master; office, foot of East Sixteenth street, E. R.

District No. 6.—From north side Pier at Twenty-third street, North river, to and including Pier at foot Fifty-ninth street, North river.
Edward Gilon, Dock Master; office, Pier, new 57, N. R.

District No. 7.—From north side of Thirty-fourth street, East river, to south side of Ninety-second street, East river.
Robert Hall, Dockmaster; office, 645 First avenue.

District No. 8.—From north side of Pier at Fifty-ninth street, North river, to Yonkers and Spuyten Duyvil Creek, from North river to Kingsbridge.
Theodore S. Croft, Dockmaster; office, foot of West Seventy-ninth street, N. R.

District No. 9.—From south side Ninety-second street, East river, to and including Bronx river, and also Harlem river, from East river to Kingsbridge.
John Callan, Dockmaster; office, foot of East One Hundred and Fourth street, Harlem river.

Resolved, That until otherwise ordered by this Board the following rules and instructions are issued for the guidance and observance of the several Dock Masters of the Department:

* * * * *

Each Dock Master shall promptly designate and assign in the order in which application is made, suitable and convenient berths, so far as practicable, within the limits of his district, for the use of such vessel and water craft as may require the same for the reception or discharge of passengers, merchandise, etc., therefrom or for the necessary repair or the safety of any vessel or water craft.

It shall be the duty of each Dock Master to require and enforce the due observance of and compliance with such of the national and State laws, city ordinances, and the rules, regulations and orders of the Department of Docks as pertain to the use, care, and custody of the wharf property of and about the City of New York, promptly reporting to the Board all violations and evasions of such laws, ordinances, rules, regulations and orders.

* * * * *

Each Dock Master is expressly prohibited, under penalty of immediate dismissal from his position, from receiving or demanding, directly or indirectly, any fee, gratuity, compensation, or article of value of any nature or kind, for the assignment of a berth to a vessel at any pier, slip, or wharf property whatsoever, or for the performance of or the omission to perform any of the duties required of or pertaining to the position of Dock Master of this Department.

Any person or persons having any cause of complaint against the Dock Masters for any failure or omission in the performance of the duties as required by the above rules, are requested to promptly communicate the same to this Board, at their offices, Nos. 117 and 119 Duane street.

By order of the Board,
LUCIUS J. N. STARK,
WILLIAM LAMBEER,
JOHN R. VOORHIS,
Commissioners of the Department of Docks.
JOHN T. CUMING, Secretary.
New York, December 1, 1883.

HEALTH DEPARTMENT.

HEALTH DEPARTMENT OF THE CITY OF NEW YORK,
No. 301 MOTT STREET,
NEW YORK, March 25, 1884.

AT A MEETING OF THE BOARD OF HEALTH of the Health Department of the City of New York, held at its office on the 21st day of March, 1884, the following resolutions were adopted:

Resolved, That under the power conferred by law upon the Health Department, the following additional section and 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 36 of the Sanitary Code be and is hereby amended to read as follows:

Section 36. That the keeping and slaughtering of all cattle, and the preparation and keeping of all meat and fish, birds and fowl, shall be in that manner which is, or is generally reputed or known to be best adapted to secure and continue their safety and wholesomeness as food. The slaughtering and driving of cattle shall not be permitted or conducted at any place in the City of New York north of Thirty-ninth street, and the slaughtering of cattle shall not be conducted at any place in the City of New York north of said street, without a special written permit from this Department, nor unless the same shall be done in buildings located directly upon the water front, each having a capacity sufficient for the yarding and slaughtering daily of one-half of the entire number of cattle or hogs, or small stock (all or separately), according to the particular object of each abattoir slaughtered in this city, at the time the application for the permit for such abattoir shall be made; and so constructed as to receive all stock deliverable thereat, directly from cars or transports, and so that all liquid refuse may be discharged below low water-mark, and the proper care and disposition of all parts of the slaughtered animals upon the premises be secured, or the immediate removal thereof by means of boats.

Resolved, That section 5 of the Sanitary Code be and is hereby amended to read as follows:

Section 5. That the word "physician" shall include dentists, and every other person who practices about the cure of the sick or injured, or who has the charge of, or professionally prescribes for, any person sick, injured or diseased, and any person who pursues the business of acting as midwife; that the phrase "contagious disease" shall be held to include all persons sick, affected, or attacked by or of a disease of an infectious, contagious, or pestilential nature more specially, however, referring to cholera, yellow fever, small-pox, diphtheria, a ship or typhus, typhoid, spotted, relapsing, and scarlet fevers, and also including any new disease of an infectious, contagious or pestilential nature, and also any other disease which is declared by this Board dangerous to the public health; and every physician in said city shall at all times cause his or her name, office, and residence, and also his or her kind and class of practice, to be registered within the Sanitary Bureau, and in a manner according to the regulations prescribed by this Board.

Resolved, That section 157 of the Sanitary Code be and is hereby amended to read as follows:

Section 157. That it shall be the duty of every person who has discovered or seen the body of a dead human being, or any part thereof, if there is reason for such person to think that the fact of the death, or the place of such body, or part thereof, is not publicly known, to immediately communicate to the Sanitary Bureau the fact of such discovery of such body, the place where, and the time when, the same was discovered or seen, and where the same is or may be found, and any facts known by which said body may be identified, or the cause of death ascertained.

Resolved, That section 159 of the Sanitary Code be and is hereby amended to read as follows:

Section 159. That at least two hours before the holding of any inquest within the City of New York upon a dead body, the coroner who has been notified of any death, or who may propose or intend to hold such inquest, shall transmit and cause to be delivered to the Sanitary Bureau a written notice containing the following facts, so far as known or reported to any such coroner:

1. The fact of any such call for the holding of an inquest, and by whom made, and when and from whom received by the coroner.
2. The place (giving the street and street number, and if there be none, then other particulars) where the body is.
3. What is reported to be the cause of the death.
4. When and where the death took place, and where the body has since been.
5. When and where he proposes to hold the inquest, giving the street, the street number (or otherwise sufficiently designating such place, and the hour.
6. What physician, or physicians, or other professional person last attended such deceased person, or attended such person within forty-eight hours of such decease.

At any time after the commencement of any inquest, the coroner holding, or who should hold, or who held such inquest, shall within twelve hours after the receipt of a written request so to do from the Sanitary Superintendent, answer in writing such of the following or such other questions as may be propounded to him by the said inspector to the best of his knowledge, information, and belief.

Report of Coroner (here insert Coroner's name), upon the body of (here fill in name or description of deceased), on the (here fill in year, month, and day), at (here mention street and number).

1. What was the age, sex, and last occupation, residence, and nativity of such deceased person?
2. At what house or place, and in or near what street or avenue, and at what number therein did such deceased person die?
3. If such person died of any poison, when and where was the same administered, and what was the kind of poison?
4. If such person died of violence, when and where was the same committed, and upon what part of the body and organs, and of what did it consist?
5. If such person died of any other cause, state such cause, and when and where the cause took effect upon or was received by the deceased?
6. Who was the last in care of or with such deceased person, and at what place and at what time before death, and when, giving the full name and residence of each such person?
7. What was the name and residence of the physician and persons who last attended, and of each physician and person who within forty-eight hours of such death attended upon such deceased person, and where did he so attend; and whether said physician was notified of or attended and was examined at such inquest?
8. The times, places, and dates of holding the inquest, and the names and residences by street number of the jurors and witnesses that attended, and dates of their attendance, and when and where the body of the deceased was present at such inquest?
9. Was any post-mortem examination made, and if so, when, where, and by whom, and who was present thereto?
10. It shall be the duty of all coroners in said city to make return to the Sanitary Bureau of all inquisitions by them taken, except when, by law, such inquests are required to be filed elsewhere, and such return shall include: the evidence taken on such inquest, and the verdict of the jury, and the full names and residences of the several jurymen.

And in all cases where the inquest may be required by law to be filed elsewhere, such coroner shall make return to said Bureau of a copy of such inquest, including a copy of such evidence and verdict; and all such returns shall be made within forty-eight hours after the holding of any and every inquest.

Resolved, That section 161 of the Sanitary Code be and is hereby amended to read as follows:

Section 161. That it shall be the duty of every person mentioned in the last section, or required to make or keep any such register, to present to the Sanitary Bureau a copy of such register, signed by such person, or a written statement, by him signed, of all the facts in said register required to be entered, within five days after the birth or marriage, and within thirty-six hours after the death of any person to whom such registry may or should relate, which shall thereupon be placed on file in the said Bureau.

Resolved, That section 162 of the Sanitary Code be and is hereby amended to read as follows:

Section 162. That every clerk, officer and person within said city, required by the one hundred and fifty-second chapter of the Laws of 1877, or by the three hundred and eightieth chapter of the Laws of 1864, to make or preserve any entry, registry record, or certificate, as to births, deaths, or marriages, shall send, or cause to be sent, to the Sanitary Bureau of this Department, within five days after the knowledge of the birth, death or marriage, a full and true statement in writing, containing all the particulars in respect thereto so far as reasonably ascertainable, which in any other section hereof, are required to be stated by any person relative to any birth, death, or marriage, which shall thereupon be placed on file in said Bureau.

[L.S.]

ALEXANDER SHALER,
President.EMMONS CLARK,
Secretary.

FINANCE DEPARTMENT.

CORPORATION SALE OF FERRY
LEASES.

THE FRANCHISES OF CERTAIN FERRIES on the North and East rivers will be sold by the Commissioners of the Sinking Fund, along with the wharf property belonging to the Corporation of the City of New York, if any, used for ferry purposes, at public auction, at the Comptroller's office, at the time and on the terms and conditions as hereinafter stated and set forth.

TERMS OF SALE.

Bids for the franchise, only, of each ferry, will be received, and the wharf property belonging to the city, if any, will be subject to a fixed yearly rent in addition to the rental to be paid for the franchise or license to operate the ferry.

The minimum rate at which the ferry franchise will be sold and the yearly rent of the wharf property belonging to the city, if any, used for ferry purposes by the several ferries, will be announced at the time of the sale.

The highest bidder will be required to pay the auctioneer's fee of \$10, and to deposit with the Comptroller, at the time of sale, twenty-five per cent. of the yearly rental of the wharf property, if any, and twenty-five per cent. also, of an estimated amount to be paid yearly for the franchise of each ferry, to be credited on the first quarter's rent, or be forfeited to the city if the lease is not executed by the purchaser when notified that it is ready for execution.

Lessees will be required to give bonds in double the amount of the yearly rental, with two sufficient sureties, to be approved by the Comptroller, conditioned for the faithful performance of the covenants and conditions of the lease, and the payment of the rent quarterly, and in advance for the fixed rent payable on the wharf property.

The lease will contain the usual covenants and conditions in conformity with the provisions of law and the ordinances of the Common Council relative to ferries; that the lessee will maintain and operate the ferry during the whole term, and will provide ample accommodation in the way of safe and capacious boats and frequency of trips, as to the sufficiency of which accommodation the decision of the Mayor and Comptroller shall be final; also conditions that the lessees of the ferries will dredge the ferry slips as required by the Department of Docks, and that, during the term of the leases they will at all times, well and sufficiently repair, maintain and keep in good order all and singular, the floats, racks, fenders, bridges and other fixtures at the landing places, and in the event of any damage to the bulkhead or piers from collision by their ferry boats or otherwise, from any accident or negligence on their part, they will immediately repair and restore said wharf property to its previous condition free of cost and expense to the City of New York; and also, that if at any time during the term of the leases the Department of Docks shall require any of the wharf property used for ferry purposes, in order to proceed with the water front improvement in the vicinity of the ferry landings, the said lessees shall surrender and vacate the premises without any claim upon the city for any damages whatever, upon written notice being given to the lessees three months in advance of the termination of said Department. Sworn returns of the amount of ferry receipts shall be made to the Comptroller when required by him, and the books of account of the ferries shall be subject to his inspection.

The rates of ferriage shall not be increased over those now charged, during the term of the leases.

ON TUESDAY, the 22d day of April, 1884, the sale will be held of the following

EAST RIVER FERRIES:

1. The ferry from foot of Whitehall street, New York, to Bay Ridge, Long Island, for the term of nine years from May 1, 1884.
2. The ferry from foot of Whitehall street, New York, to the North Shore, Staten Island, for the term of nine years, from May 1, 1884.
3. The ferry from foot of East Seventh street, New York, to Hunter's Point, Long Island, for the term of nine years from May 1, 1884.
4. The ferry from foot of East Ninety-second street, New York, to Long Island City (Astoria), Long Island, for the term of five years from May 1, 1884.

ON WEDNESDAY, the 23d day of April, 1884, the sale will be held of the following

NORTH RIVER FERRIES:

5. The ferry from foot of Cortlandt street, New York, to Jersey City, State of New Jersey, for the term of two years from May 1, 1884.
6. The ferry from foot of Barclay street, New York, to Hoboken, State of New Jersey, for the term of ten years from May 1, 1884.
7. The ferry from foot of Chambers street, New York, to Pavonia avenue, Jersey City, State of New Jersey, for the term of ten years from May 1, 1884.
8. The ferry from foot of Desbrosses street, New York, to Jersey City, State of New Jersey, for the term of ten years from May 1, 1884.
9. The ferry from foot of Canal street, New York, to Fort Lee, State of New Jersey, for the term of ten years from May 1, 1884.
10. The ferry from foot of Christopher street, New York, to Hoboken, State of New Jersey, for the term of ten years from May 1, 1884.
11. The ferry from foot of West Twenty-third street, New York, to Jersey City, State of New Jersey, for the term of ten years from May 1, 1884.

A copy of the form of lease which the purchaser will be required to execute, and which form is one of the terms of sale, can be seen at the office of the Comptroller on and after April 10, 1884.

The right to reject any bid is reserved, if it is deemed for the interest of the city.

S. HASTINGS GRANT,
Comptroller.CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, March 28, 1884.CORPORATION SALE OF PUBLIC
SCHOOL PROPERTY.

THE COMMISSIONERS OF THE SINKING Fund of the City of New York will sell at public auction, on Thursday, the 24th day of April, 1884, at noon, at the Exchange Sales Rooms, No. 111 Broadway, the two lots of ground known as Nos. 135 and 137 Mulberry street, west side, with the building thereon, being about fifty feet front and rear by about one hundred feet deep, between Hester and Grand streets, in the Fourteenth Ward. This property is sold pursuant to sections

185 and 206 of the New York City Consolidation Act of 1882, which provide for the sale of any land or lands and the buildings thereon, owned by the Mayor, Aldermen and Commonalty of the City of New York, occupied or reserved for school purposes, and no longer required therefor, and the appropriation of the money received in payment to the Board of Education for the purpose of purchasing property or erecting school buildings for new public schools.

TERMS OF SALE.

The auctioneer's fee and ten per cent. of the purchase money to be paid at the time of sale, and the balance cash within thirty days thereafter on delivery of full covenant warranty deed.

S. HASTINGS GRANT,
Comptroller.CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, March 24, 1884.CORPORATION SALE OF REAL ESTATE
AT PUBLIC AUCTION.

PUBLIC NOTICE IS HEREBY GIVEN THAT, by virtue of the powers vested in the Commissioners of the Sinking Fund of the City of New York, under a resolution adopted by them at a meeting held Friday, March 21, 1884, they will offer for sale at public auction, at the Exchange Sales Rooms, No. 111 Broadway, on Thursday, the 24th day of April, 1884, at noon, the following-described real estate belonging to the Corporation of the City of New York, viz:

1. Five-story brick building and lot, No. 18 Baring Slip, sixty-three feet two and one-half inches easterly from Water street, twenty-five feet three and one-half inches in front, twenty-five feet and seven-eighths of an inch in rear, by twenty-four feet nine inches deep on the easterly side, and twenty-four feet seven and one-half inches on the westerly side.

2. Two-story and basement brick building and lots, Nos. 186 and 188 South Fifth avenue, eighty feet two inches southerly from Broome street, forty-five feet three inches front and irregular in rear, by sixty-two feet deep on the northerly side and sixty-eight feet two inches on the southerly side.

3. Unimproved gore lot, one hundred and seven feet nine inches westerly from Third avenue, about twelve feet three inches front, seventeen feet rear, by one hundred feet and five inches in depth, on the northerly side of Fifty-second street.

TERMS OF SALE.

Ten per cent. of the purchase money and the auctioneer's fee, to be paid at the time and place of sale; thirty per cent. on May 1, 1884, when full covenant warranty deeds will be ready for delivery, and the balance (sixty per cent.), or any portion thereof, at the option of the purchaser, may remain on bond and mortgage for three years from May 1, 1884, with interest at the rate of six per cent. per annum, payable semi-annually. Mortgages to contain the customary thirty days' interest and insurance and tax clauses. The amount on bond and mortgage may be paid off at any time on giving thirty days' notice to the Comptroller, or it may be paid by installments of not less than five hundred dollars, on any day when interest becomes due. The bonds and mortgages will be prepared by the Counsel to the Corporation, and twelve dollars and a half will be charged for drawing, acknowledging and recording each separate mortgage.

For the unimproved lot on Fifty-second street the terms of sale are fifty per cent. of the purchase money to be paid at the time of sale, and the balance within thirty days thereafter on delivery of the deed.

The Comptroller may, at his option, re-sell the premises bid off by those failing to comply with the terms and conditions of sale, and the party so failing to comply with them will be held liable for any deficiency that may result from such resale.

Lithographic maps of the above real estate may be had at the Comptroller's office, New County Court-house, on and after April 15, 1884.

S. HASTINGS GRANT,
Comptroller.CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, March 24, 1884.CITY OF NEW YORK,
FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE,
March 17, 1884.

NOTICE TO PROPERTY-OWNERS.

IN PURSUANCE OF SECTION 997 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 assessment list for the opening of One Hundred and Forty-sixth street, between Avenue St. Nicholas and Tenth avenue, which was confirmed by the Supreme Court, March 7, 1884, and entered on the 13th day of March, 1884, in the Record of Titles of Assessments, kept in the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," that unless the amount assessed for benefit on any person or property, shall be paid within sixty days after the date of said entry of the assessment, interest will be collected thereon as provided in section 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 assessment is payable to the Collector of Assessments and Clerk of Arrears, at the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," between the hours of 9 A. M. and 2 P. M., and all payments made thereon, on or before May 20, 1884, 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.

S. HASTINGS GRANT,
Comptroller.MARKET CELLARS, BUILDINGS, AND
OTHER CITY PROPERTY TO BE
SOLD AT PUBLIC AUCTION.

THURSDAY, APRIL 10, 1884.

THE LEASES OF MARKET CELLARS, BUILDINGS, and other real estate, belonging to the Corporation of the City of New York, will be sold, for the terms of years as severally stated, at the Comptroller's office, at Public Auction, on Thursday, April 10, 1884, at 12 o'clock M., by direction of the Commissioners of the Sinking Fund, as follows:

MARKET CELLARS.

CENTRE MARKET CELLARS, Nos. 1 to 11, separately, for the term of five years from May 1, 1884.

ESSEX MARKET CELLARS, Nos. 1 to 10, separately, for the term of five years from May 1, 1884.

BUILDINGS AND LOTS.

1. Old Catharine Fish Market Building, for the term of five years from May 1, 1884.

2. Gouverneur Market Building, for the term of ten years from May 1, 1884.

3. Farmers' Hotel, southeast corner Tenth avenue and Little Twelfth street, for the term of five years from May 1, 1884.

4. Stables and Lots, Nos. 520 and 522 West Twenty-fourth street, from May 1, 1884, to March 1, 1892.

5. Old Engine-house and Lot, One Hundred and Forty-ninth street, near St. Ann's avenue, Twenty-third Ward, for the term of five years from May 1, 1884.

6. Unimproved Lot, northwest corner One Hundred and Twenty-ninth street and Twelfth avenue, for the term of three years from May 1, 1884.

7. Second and third floors, Jefferson Market Building, ten rooms and attic, for the term of five years from May 1, 1884.

8. Plot of Land on Barten Island, containing one hundred and twelve acres, more or less, together with the buildings and appurtenances thereunto belonging, for the term of ten years from May 1, 1884.

TERMS OF SALE.

The highest bidder will be required to pay the auctioneer's fee, and deposit with the Comptroller, at the time and place of sale, twenty-five per cent. of the amount of the annual rent bid, to be credited on account of the first quarter's rent, or forfeited to the city if the bidder refuses to execute the lease when notified that it is ready for execution. He will also be required to give a bond in double the amount of the annual rent bid, with two sufficient sureties, to be approved by the Comptroller, conditioned for the payment of the rent, quarterly in advance, and for the performance and fulfillment of the covenants and terms of the lease.

No bid will be accepted from, nor will the lease be 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; nor will any such person be received as surety on the lease.

No alterations shall be made in the premises, except with the consent of the Comptroller, and all alterations and repairs made are to be made at the expense of the lessee. The lease will be in the usual form of leases of like property, a copy of which may be seen at the Bureau for the Collection of City Revenue and of Markets, Finance Department.

And each lease will contain, in addition to other terms, a covenant or condition that the lease shall be annulled and the term ended whenever the Board of Commissioners of the Sinking Fund shall resolve that the premises are required for the use of the Corporation, or any Department, Board or officer thereof, and the Comptroller shall give to the lessee or his agent ninety days' notice of the adoption of such resolution.

S. HASTINGS GRANT,
Comptroller.CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, March 17, 1884.

CORPORATION SALE AT AUCTION.

ALL THE RIGHT, TITLE AND INTEREST OF the Mayor, Aldermen and Commonalty of the City of New York, in and to the following-described premises, situate in the Twelfth Ward, will be sold at public auction at the Comptroller's office, on Tuesday, April 22, 1884, at 12 o'clock noon to wit:

"All that certain plot, piece or parcel of land, situate, lying and being in the Twelfth Ward of the City of New York, bounded and described as follows: Beginning at the corner formed by the intersection of the northerly side of Ninety-seventh street with the easterly side of Third avenue, running thence northerly along easterly side of Third avenue one hundred feet and eleven inches to the centre line of the block between Ninety-seventh and Ninety-eighth streets; running thence easterly along said centre line six hundred and ten feet to westerly side of Second avenue; thence southerly along said westerly side of Second avenue one hundred feet and eleven inches to the northerly side of Ninety-seventh street; and thence westerly and along said northerly side of Ninety-seventh street six hundred and ten feet to the easterly side of Third avenue, at the point or place of beginning."

The highest bidder will be required to pay the amount of the purchase money and the auctioneer's fee at the time and place of sale.

S. HASTINGS GRANT,
Comptroller.CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE, March 17, 1884.

INTEREST ON CITY STOCKS.

THE INTEREST ON THE BONDS AND STOCKS of the City and County of New York, due May 1, 1884, will be paid on that day by the Comptroller, at his office in the New Court-house.

The Transfer books will be closed from March 25 to May 1, 1884.

S. HASTINGS GRANT,
Comptroller.FINANCE DEPARTMENT—COMPTROLLER'S OFFICE,
March 15, 1884.

NOTICE OF SALE OF LANDS AND TENEMENTS FOR UNPAID ASSESSMENTS FOR OPENING, WIDENING, EXTENDING AND STRAIGHTENING ROADS, STREETS, AVENUES, PARKS AND PUBLIC PLACES.

CITY OF NEW YORK—FINANCE DEPARTMENT,
BUREAU FOR THE COLLECTION OF ASSESSMENTS AND ARREARS OF TAXES AND ASSESSMENTS AND OF WATER RENTS,
OFFICE OF THE COLLECTOR OF ASSESSMENTS AND CLERK OF ARREARS,
January 24, 1884.

UNDER THE DIRECTION OF S. HASTINGS Grant, Comptroller of the City of New York, the undersigned hereby gives Public Notice, pursuant to the provisions of Section 926 of the New York City Consolidation Act of 1882, that the respective owners of all the lands and tenements on which assessments have been laid and confirmed during the year 1879 and prior thereto, for opening, widening, extending, and straightening roads, streets, avenues, parks, and public places, upon which such assessments are now due and unpaid and have remained due and unpaid since the confirmation of said assessments, are required to pay the amount of the assessments so due and remaining unpaid to the Collector of Assessments and Clerk of Arrears, at his office in the Finance Department, in the New Court-house, in the City of New York, together with the interest thereon, at the rate of 7 per cent. per annum, to the time of payment, with the charges of this notice and advertisement.

And if default shall be made in such payment, such lands and tenements will be sold at public auction, at the New Court-house, in the City Hall Park in the City of New York, Monday, May 5, 1884, at 12 o'clock noon, for the lowest term of years at which any person shall offer to take the same in consideration of advancing the amount of the assessment so due and unpaid, and the interest thereon as aforesaid to the time of the sale, together with the charges of this notice and advertisement, and all other costs and charges accrued thereon, and that such sale will be continued from time to time until all the lands and tenements advertised for sale shall be sold.

And notice is hereby further given that a detailed statement of the assessments, the ownership of the property assessed, and on which the assessments are due and unpaid, is published in a pamphlet, and that copies of the pamphlet are deposited in the office of the Collector of Assessments and Clerk of Arrears in the Finance Department, and will be delivered to any person applying for the same.

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

REAL ESTATE RECORDS.

THE ATTENTION OF LAWYERS, REAL Estate Owners, Monetary Institutions engaged in making loans upon real estate, and all who are interested in providing themselves with facilities for reducing the cost of examinations and searches, is invited to these Official Indices of Records, containing all recorded transfers of real estate in the City of New York from 1653 to 1882, prepared under the direction of the Commissioners of Records.

Grants, grantees, suits in equity, insolvents' and Sheriff's sales, in 61 volumes, full bound, price, \$100 00
The same in 25 volumes, half bound, price, \$50 00
Complete sets, folded, ready for binding, price, 15 00
Records of Judgments, 25 volumes, bound, price, 10 00
Orders should be addressed to "Mr. Stephen Angell, Comptroller's Office, New County Court-house."

S. HASTINGS GRANT,
Comptroller.

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.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on Friday, the twenty-fifth day of April, 1884, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of One Hundred and Sixty-seventh street, as a first-class street or road, between Edgecombe road and Tenth avenue, in the City of New York, being the following-described lots, pieces or parcels of land, viz:

Beginning at a point in the easterly line of Tenth avenue, distant three thousand and two hundred and sixty feet eleven and one-eighth inches (3,262 11 1/8") northerly from the southerly line of One Hundred and Fifty-fifth street; thence southerly on a line making an angle of fifty-six degrees and fifty-six minutes (56° 56') with the easterly line of Tenth avenue, four hundred and fifty-seven feet nine and one-eighth inches (457 9 1/8") to the westerly line of Edgecombe road; thence northeasterly along said line on a curve, radius nine hundred feet (900') distance ninety-two feet seven and one-quarter inches (92 7 1/4"); thence northwesterly four hundred and sixty-three feet three and one-half inches (463 3 1/2") to the easterly line of Tenth avenue; and thence southerly along said line ninety-five feet five and one-half inches (95 5 1/2") to the point or place of beginning.

Said street to be eighty feet (80') in width between the lines of Edgecombe road and Tenth avenue.

Dated, New York, March 23, 1884.
GEORGE P. ANDREWS,
Counsel to the Corporation,
Tryon Row, New York City.

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 Sixtieth street, between Boulevard (Eleventh avenue) and Tenth avenue.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on Friday, the 25th day of April, 1884, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of One Hundred and Sixtieth street, between Boulevard (Eleventh avenue) and Tenth avenue, in the City of New York, being the following-described lots, pieces or parcels of land, viz:

Beginning at a point in the easterly line of the Boulevard (Eleventh avenue), distant one hundred and ninety-nine feet ten inches (199 10") northerly from the northerly line of One Hundred and Fifty-ninth street; thence easterly and parallel with said street seven hundred and seventy-five feet (775') to the westerly line of Tenth avenue; thence northerly and along said line sixty feet (60') to the point or place of beginning; thence westerly seven hundred and seventy-five feet (775') to the easterly line of the Boulevard (Eleventh avenue); thence southerly along said line sixty feet (60') to the point or place of beginning.

Said street to be sixty feet (60') wide between the lines of the Boulevard (Eleventh avenue) and Tenth avenue.

Dated New York, March 29, 1884.
GEORGE P. ANDREWS,
Counsel to the Corporation,
Tryon Row, New York City.

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-first street, between Boulevard (Eleventh avenue) and Tenth avenue.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at the Chambers thereof, in the County Court-house, in the City of New York, on Friday, the twenty-fifth day of April, 1884, at the opening of the Court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the improvement hereby intended is the acquisition of title, in the name and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of One Hundred and Sixty-first street, between Boulevard (Eleventh avenue) and Tenth avenue, in the City of New York, being the following-described lots, piece or parcels of land, viz:

Beginning at a point in the easterly line of the Boulevard (Eleventh avenue), distant four hundred and fifty-nine feet eight inches (459 8") northerly from the northerly line of One Hundred and Fifty-ninth street; thence easterly and parallel with said street seven hundred and seventy-five feet (775') to the westerly line of Tenth avenue; thence northerly along said line sixty feet (60') to the point or place of beginning; thence westerly seven hundred and seventy-five feet (775') to the easterly line of the Boulevard (Eleventh avenue); thence southerly along said line sixty feet (60') to the point or place of beginning.

Said street to be sixty feet (60') wide between the lines of Boulevard (Eleventh avenue) and Tenth avenue.

Dated New York, March 29, 1884.
GEORGE P. ANDREWS,
Counsel to the Corporation,
Tryon Row, New York City.

In the matter of the Application of the Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of a certain street, extending from the northerly side of Little West Twelfth street to the southerly side of West Fourteenth street, in the City of New York, as laid out by the Board of Street Opening and Improvement of said city.

WASHINGTON STREET.

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 the office of our clerk, No. 73 William street, 3d floor, in the said city, on or before the 26th day of April 1884, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said 26th day of April, 1884, and for that purpose will be in attendance at said office on each of said ten days, at 2.30 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 30th day of April, 1884.

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: North by the southerly side of Seventeenth street, westerly by the easterly sides of Eleventh and Thirteenth avenues, southerly by the northerly sides of West Eleventh and Horatio streets, and easterly by the westerly sides of Hudson street and Eighth avenue, excepting therefrom all the streets and avenues within said area.

Fourth.—That our report herein will be presented to the Supreme Court of the State of New York, at a special term thereof, to be held at the Chambers thereof, in the County Court-house at the City Hall in the City of New York, on the 9th day of May, 1884, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, March 20, 1884.

JEROME BUCK,
THOMAS J. BROWN,
CHARLES H. HASWELL,
Commissioners.

ARTHUR BERRY, Clerk.

In the matter of the application of the Department of Public Works, for and in behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of Ninety-fourth street, between Second and Third avenues, in the City of New York.

NOTICE IS HEREBY GIVEN THAT THE BILL of the costs, charges, and expenses incurred by reason of the proceedings in the above-entitled matter will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof in the County Court-house, at the City Hall, in the City of New York, on the fourth day of April, 1884, at half-past ten 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, March 19, 1884.

GILBERT M. SPEIR, JR.,
JOHN WHALEN,
NATHANIEL JARVIS,
Commissioners.

ARTHUR BERRY, Clerk.

In the matter of the application of the Commissioners of the Department of Public Parks for and in behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title to certain lands required for the southern approach to the so-called Madison Avenue Bridge, across the Harlem river, in the City of New York.

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

First.—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 73 William street, 3d floor, in the said city, on or before the nineteenth day of April, 1884, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said nineteenth day of April, 1884, and for that purpose will be in attendance at our said office on each of said ten days, at 2.30 o'clock P. M.

Second.—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the Office of the Department of Public Works, in the City of New York, there to remain until the twenty-first day of April, 1884.

Third.—That the limits embraced by the assessment aforesaid are as follows, to wit: All those blocks, lots, pieces or parcels of land, situate, lying and being in the City of New York, which taken together are bounded and described as follows, viz: Westerly by the easterly line or side of Sixth avenue, southerly by the northerly line or side of One Hundred and Twenty-fifth street, easterly and northerly by the westerly lines or sides of Fourth avenue, Exterior street, and a line in prolongation of the westerly line or side of Fifth avenue to a point 199 feet and 10 inches northerly from the northerly line or side of One Hundred and Forty-third street, and by the southerly side of One Hundred and Forty-fourth street for a distance of 110 feet westerly from the above-mentioned line in prolongation of the westerly line of Fifth avenue.

Fourth.—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the second day of May, 1884, at the opening of the Court on that day, and that then and there, or as soon thereafter as counsel can be heard thereon, a motion will be made that the said report be confirmed.

Dated New York, March 12, 1884.

HENRY M. WHITEHEAD,
JOHN T. WILSON,
BERNARD SMYTH,
Commissioners.

ARTHUR BERRY, Clerk.

In the matter of the application of the Department of Public Works for and in behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to the opening of Ninety-fourth street, between Second and Third avenues, in the City of New York.

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

First.—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who

may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 73 William street (third floor), in the said city, on or before the 18th day of March, 1884, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said 18th day of March, 1884, and for that purpose will be in attendance at our said office on each of said ten days at 2.30 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 20th day of March, 1884.

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 northerly by the centre line of the block between Ninety-fourth street and Ninety-fifth street, easterly by the westerly side of Second avenue, southerly by the centre line of the block between Ninety-third street and Ninety-fourth street, and westerly by the easterly side of Third avenue, excepting therefrom all the land lying within the streets and avenues within said area.

Fourth.—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the fourth day of April, 1884, 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, February 7, 1884.

GILBERT M. SPEIR, JR.,
NATHANIEL JARVIS,
JOHN WHALEN,
Commissioners.

ARTHUR BERRY, Clerk.

BOARD OF STREET OPENING AND IMPROVEMENT.

NOTICE IS HEREBY GIVEN, IN ACCORD-ance with the provisions of section 105 of chapter 335 of the Laws of 1873, entitled "An act to reorganize the local government of the City of New York," passed April 30, 1873, and of chapter 360 of the Laws of 1883, and of all other provisions of law relating thereto, that the Board of Street Opening and Improvement deem it to be for the public interest to alter the map or plan of the City of New York by closing all that part of One Hundred and Thirty-seventh street, lying and being between the westerly line of Avenue St. Nicholas and a line eight hundred and sixty (860' 0") feet easterly from the easterly line of Tenth avenue, except as hereinafter mentioned, as follows, viz: Beginning at a point in the northerly line of One Hundred and Thirty-seventh street, distant two hundred and eleven feet ten and one-half inches (211' 10 1/2") westerly from the westerly line of Avenue St. Nicholas; thence southerly along the westerly line of the proposed new avenue or road in a curved line, radius thirteen hundred and sixty-two (1,362' 0") feet, distant sixty-one feet seven and five-eighths inches (61' 7 5/8") to the southerly line of One Hundred and Thirty-seventh street; thence easterly along said line seventy-one feet five and five-eighths inches (71' 5 5/8"); thence northerly along the easterly line of the new avenue or road before mentioned in a curved line, radius fourteen hundred and thirty-two (1,432' 0") feet, distance sixty-one feet five and thirteen-sixteenths inches (61' 5 13/16") to the northerly line of One Hundred and Thirty-seventh street; thence westerly along said line seventy-two feet two and one-half inches (72' 2 1/2") to the point or place of beginning.

And that they propose to alter the map or plan of said city by closing said street as above mentioned and described.

And such proposed action of said Board has been duly laid before the Board of Aldermen of the City of New York.

Dated February 8, 1884.

FRANKLIN EDSON,
Mayor;

S. HASTINGS GRANT,
Comptroller;

HUBERT O. THOMPSON,
Commissioner of Public Works;

EGBERT L. VIELE,
President of the Department of Public Parks;

W. P. KIRK,
President of the Board of Aldermen;

Board of Street Opening and Improvement.

ARTHUR BERRY, Secretary.

NOTICE IS HEREBY GIVEN, IN ACCORD-ance with the provisions of section 105 of chapter 335 of the Laws of 1873, entitled "An act to reorganize the local government of the City of New York," passed April 30, 1873, and of chapter 360 of the Laws of 1883, and of all other provisions of law relating thereto, that the Board of Street Opening and Improvement deem it to be for the public interest to alter the map or plan of the City of New York, by closing all that certain new street or avenue laid out by the Commissioner of Public Works of the City of New York, by and under authority of chapter 537 of the Laws of 1881, and as shown on the map filed by him in the office of the Register of the City and County of New York, on the 15th day of May, 1882, and more particularly described as follows, viz: Beginning at a point in the easterly line of the first new avenue east of Tenth avenue, distant seven hundred and nineteen feet and six inches (719' 6") southerly from the southerly line of One Hundred and Forty-first street; thence easterly and parallel with said One Hundred and Forty-first street four hundred and eighty-four feet three and one-quarter inches (484' 3 1/4"); thence southerly distance forty feet and three-quarters of an inch (40' 3 3/4"); thence southerly, in a curved line, radius fourteen hundred and thirty-five feet and nine and three-quarters inches (1,435' 9 3/4") to the northerly line of One Hundred and Thirty-seventh street; thence westerly along said line, distance seventy-three feet and three and one-half inches (73' 3 1/2"); thence northerly in a curved line, radius thirteen hundred and sixty-two feet (1,362' 0"), distance two hundred and six feet and seven and seven-eighths inches (206' 7 7/8"); thence northerly and tangent thereto, distance four feet and ten and three-sixteenths inches (4' 10 3/16"); thence westerly four hundred and thirty-three feet and ten and three-eighths inches (433' 10 3/8") to the easterly line of the first new avenue east of Tenth avenue; thence northerly along said line sixty feet (60' 0") to the point or place of beginning; also beginning at a point in the westerly line of Avenue St. Nicholas, distant four hundred and thirty-five feet and eight and one-half inches (1,435' 8 1/2") southerly from the southerly line of One Hundred and Forty-first street; thence westerly and southerly in a curved line, radius one hundred and twenty-eight feet and eleven inches (128' 11"); distance two hundred and eleven feet and thirteen-sixteenths of an inch (211' 13 1/16"); thence southerly and tangent thereto, distance one hundred and two feet and seven-eighths of an inch (102' 7 5/8"); thence southerly, westerly, and northerly in a curved line, radius fifty-five feet (55' 0"), distance one hundred and fifty-nine feet and half an inch (159' 0 1/2"); thence northerly in a curved line, radius four hundred and forty-five feet (445' 0"), distance three hundred and eighty-one feet and five and eleven-sixteenths inches (381' 5 11/16"); thence northerly in a reversed curved line, radius three hundred and eighty-five feet and six inches (385' 6"), distance one hundred and eighty-one feet and one-eighth inches (181' 1/8"); thence northerly and tangent thereto, distance one hundred and five feet, four and seven-eighths inches (105' 7 7/8"); thence in curved line, radius fourteen hundred and thirty-two feet (1,432' 0"), distance four hundred and eighteen feet seven and five-eighths inches (418' 7 5/8"); thence northerly and tangent thereto, distance forty feet one inch (40' 1"); thence westerly and parallel with One Hundred and Thirty-seventh street, distance four hundred and eighty-four feet three and one-quarter inches (484' 3 1/4") to the easterly line of the first new avenue east of Tenth avenue; thence southerly along said line sixty feet (60' 0") to the point or place of beginning. And that they propose to alter the map or plan of said city by closing said street, avenue or road, as above-mentioned and described.

And that all of such proposed action of said Board has been duly laid before the Board of Aldermen of the City of New York.

Dated February 8, 1884.

FRANKLIN EDSON,
Mayor;

S. HASTINGS GRANT,
Comptroller;

HUBERT O. THOMPSON,
Commissioner of Public Works;

EGBERT L. VIELE,
President of the Department of Public Parks;

W. P. KIRK,
President of the Board of Aldermen;

Board of Street Opening and Improvement.

ARTHUR BERRY, Secretary.

NOTICE IS HEREBY GIVEN, IN ACCORD-ance with the provisions of section 105 of chapter 335 of the Laws of 1873, entitled "An act to reorganize the local government of the City of New York," passed April 30, 1873, and of chapter 360 of the Laws of 1883, and of all other provisions of law relating thereto, that the Board of Street Opening and Improvement deem it to be for the public interest to alter the map or plan of the City of New York, by laying out, opening and extending certain new streets and avenues, described as follows, viz: That One Hundred and Twenty-seventh and One Hundred and Twenty-eighth streets be extended in an easterly direction and parallel with One Hundred and Twenty-sixth street, at a uniform width of sixty feet (60' 0") from their present terminus east of Tenth avenue to the westerly line of Avenue St. Nicholas; that a new avenue, known as Cliff avenue, be sixty feet (60' 0") wide and parallel with Eighth avenue, the easterly line of said Cliff avenue, be distant five hundred and forty feet (540' 0") westerly therefrom.

Beginning on the southerly line of One Hundred and Thirtieth street, as extended, and running thence northerly to the new avenue known as Hamlin avenue, for a distance of one thousand and five feet and 5/8 of an inch (1,005' 5/8") on the easterly line and on the westerly line from the northerly line of One Hundred and Thirtieth street for a distance of nine hundred and twenty-eight feet and two inches (928' 2"); that One Hundred and Thirtieth street be extended in an easterly direction and parallel with One Hundred and Twenty-sixth street, at a uniform width of sixty feet (60' 0") from its present terminus east of Tenth avenue to the proposed new avenue known as Cliff avenue; that a new street or place, to be known as Academy place, be sixty feet (60' 0") wide, between the northerly line of One Hundred and Twenty-eighth street, as extended, and the southerly line of One Hundred and Thirtieth street, as extended, the westerly line of said Academy place shall be distant easterly from Tenth avenue as follows, viz: Beginning at a point in the southerly line of One Hundred and Thirtieth street, as extended, distance eight hundred and eighty-eight feet seven and three-quarters inches (888' 3 3/4") easterly from the easterly line of Tenth avenue; thence southerly in a curved line radius one thousand four hundred and sixty-eight feet two and one-half inches (1,468' 2 1/2"), distance three hundred and thirty-six feet one and one-half inches (336' 1 1/2"); thence in a reversed curved line radius one thousand and twelve feet one inch (1,012' 1"), distance one hundred and two feet four and one-half inches (102' 4 1/2"); thence still southerly in a curved line radius one hundred and sixty-five feet (165' 0"), distance forty-three feet two and three-eighths inches (43' 3 3/8"); thence in a southerly and easterly direction in a curved line radius four hundred and fifty-six feet four and one-quarter inches (456' 4 1/4"), distance sixteen feet one and five-eighths inches (16' 1 5/8"), to a point in the northerly line of One Hundred and Twenty-eighth street,

said point being one thousand and seventy-four feet one and one-eighth inch (1,074' 1 1/8") easterly from Tenth avenue. The easterly line of said Academy place shall be as follows, viz: Beginning at a point in the southerly line of One Hundred and Thirtieth street as extended, distance nine hundred and fifty-six feet four and one-quarter inches (956' 4 1/4") easterly from the easterly line of Tenth avenue, thence southerly in a curved line radius fifteen hundred and twenty-eight feet two and one-half inches (1,528' 2 1/2"), distance three hundred and seventeen feet eight inches (317' 8"); thence in a reversed curved line radius nine hundred and fifty-two feet one inch (952' 1") distance ninety-six feet three and five-eighths inches (96' 3 5/8"); thence still southerly in a curved line radius one hundred and five feet (105' 0"), distance twenty-seven feet five and seven-eighths inches (27' 5 7/8"); thence still southerly in a curved line, radius three hundred and ninety-four feet and one-half inch (394' 0 1/2"); distance forty-nine feet and one-half inch (49' 0 1/2"); thence southerly and easterly in a curved line, radius thirty-two feet one and three-quarters inches (32' 1 3/4"), distance twenty-six feet four and one-half inches (26' 4 1/2"), to a point in the northerly line of One Hundred and Twenty-eighth street, said point being eleven hundred and sixty-seven feet seven and three-quarter inches (1,167' 3 3/4") easterly from Tenth avenue; that One Hundred and Twenty-ninth street be extended in an easterly direction and parallel with One Hundred and Twenty-sixth street at a uniform width of sixty feet (60' 0") from its present terminus east of Tenth avenue, to the proposed street known as Academy place, being a distance of nine hundred and seventy-seven feet four and three-eighths inches (977' 4 3/8") on the northerly line and nine hundred and ninety-seven feet four and five-eighths inches (997' 4 5/8") on the southerly line.

That a new avenue known as Convent avenue shall be of a uniform width of seventy-five feet (75' 0") between the northerly line of One Hundred and Twenty-sixth street and the southerly line of One Hundred and Thirtieth street. The westerly line thereof shall be distant easterly from Tenth avenue as follows, viz: At One Hundred and Twenty-sixth street, eight hundred feet (800' 0") on the southerly line of One Hundred and Twenty-seventh street, eight hundred feet (800' 0"), on the northerly line of One Hundred and Twenty-seventh street, seven hundred and sixty-eight feet eleven and one-quarter inches (768' 11 1/4"); thence northerly, five hundred and forty-nine feet one and one-quarter inch (549' 1 1/4") to a point distant five hundred and sixteen feet six and five-eighths inches (516' 6 5/8") easterly from Tenth avenue; thence, still in a northerly direction, seven hundred and fifty-four feet nine and seven-eighths inches (754' 9 7/8"), to a point distant two hundred and twenty-three feet six and one-quarter inches (223' 6 1/4") easterly from Tenth avenue; thence in a curved line radius three hundred feet (300' 0"), distance one hundred and nineteen feet eight and one-quarter inches (119' 8 1/4"); thence northerly and tangent thereto and parallel with Tenth avenue and distant two hundred feet (200' 0") easterly therefrom, distance four hundred and forty-nine feet eleven and three-eighths inches (449' 11 3/8"); thence in a curved line, radius three hundred and seventy-five feet (375' 0"), distance one hundred and eighty-three feet seven and seven-eighths inches (183' 7 7/8") to a point two hundred and forty feet one inch (244' 1") easterly from Tenth avenue; thence northerly and tangent thereto, distance one hundred and fifty feet two and three-eighths inches (150' 2 3/8") to the southerly line of One Hundred and Thirtieth street, and distant three hundred and fourteen feet eight and three-quarter inches (314' 8 3/4") easterly from the easterly line of Tenth avenue; thence northerly in a curved line, radius three hundred feet (300' 0"), distance one hundred and forty-six feet eleven and one-quarter inches (146' 11 1/4"); thence northerly and parallel with Tenth avenue, and distant three hundred and fifty feet (350' 0") easterly from said avenue, distance three hundred and seventy-eight feet six and one-half inches (378' 6 1/2") to the southerly line of One Hundred and Thirtieth street; that a street sixty feet (60' 0") in width and parallel with One Hundred and Thirtieth street and the southerly line thereof, to be distant four hundred and fifty-nine feet eight inches (459' 8") northerly from the northerly line of said One Hundred and Thirtieth street, and to extend from the easterly line of Tenth avenue to the westerly line of proposed Convent avenue, said street to be the continuation of One Hundred and Thirtieth street, for a distance of two hundred feet (200' 0") easterly from the easterly line of the Tenth avenue to the westerly line of proposed Convent avenue.

That One Hundred and Thirtieth street be extended in an easterly direction, at a uniform width of sixty feet (60' 0") from its present terminus to a distance on the northerly line of two hundred and eighty-four feet two and one-eighth inches (284' 2 1/8"), and on the southerly line to a distance of three hundred and nine feet five and three-eighths inches (309' 5 3/8") from the easterly line of Tenth avenue to meet the new avenue known as Convent avenue.

And that they propose to alter the map or plan of said city by laying out, opening and extending said streets and avenues.

And that such proposed action of said Board has been duly laid before the Board of Aldermen of the City of New York.

Dated March 3, 1884.

FRANKLIN EDSON,
Mayor.

HUBERT O. THOMPSON,
Commissioner of Public Works.

EGBERT L. VIELE,
President of the Department of Public Parks.

W. P. KIRK,
President of the Board of Aldermen.

Board of Street Opening and Improvement.

ARTHUR BERRY, Secretary.

DEPARTMENT OF PUBLIC WORKS.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
No. 31 CHAMBERS STREET,
NEW YORK, March 29, 1884.

PUBLIC NOTICE IS HEREBY GIVEN THAT a petition of property-owners with map and plan for changing the grade of "One Hundred and Seventeenth street, between Tenth avenue and Morningside avenue, West," is now pending before the Common Council.

All persons interested in the above change of grade, and having objections thereto, are requested to present the same in writing to the undersigned at his office on or before Thursday, the 10th day of April, 1884.

The maps showing the present and proposed grades can be seen at Room 7, No. 31 Chambers street.

HUBERT O. THOMPSON,
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE, No. 31 CHAMBERS ST.,
NEW YORK, March 24, 1884.

NOTICE OF SALE AT PUBLIC AUCTION.

ON TUESDAY, APRIL 15, 1884, AT 12 O'CLOCK, the Department of Public Works will sell at Public Auction, by Van Tassel & Kearney, Auctioneers, in the Rotunda of the New Court-house,

TWO OLD FREE FLOATING BATHS,
now on storage in Gowanus Basin.

TERMS OF SALE.

Cash payments in bankable funds at the time and place of sale and the immediate removal of the articles purchased.

HUBERT O. THOMPSON,
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
ROOM 6, NO. 31 CHAMBERS STREET,
NEW YORK, March 17, 1884.

TO CONTRACTORS.

BIDS OR ESTIMATES, INCLOSED IN A SEALED envelope, with the title of the work and the name of the bidder indorsed thereon, will be received at this office until Thursday, April 10, 1884, at 12 o'clock a.m., at which place and hour they will be publicly opened by the head of the Department, and read, for

BUILDING A RESERVOIR AT WILLIAMS-BRIDGE, TWENTY-FOURTH WARD, NEW YORK CITY.

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

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

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

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

THE COMMISSIONER OF PUBLIC WORKS RESERVES THE RIGHT TO REJECT ALL BIDS RECEIVED FOR ANY PARTICULAR WORK IF HE DEEMS IT FOR THE BEST INTERESTS OF THE CITY.

Blank forms of bid or estimate, the proper envelopes in which to inclose the same, the specifications and agreements, and any further information desired, can be obtained at the office of the Chief Engineer, Room 10, No. 31 Chambers street.

HUBERT O. THOMPSON,
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
NO. 31 CHAMBERS STREET,
NEW YORK, NOV. 1, 1883.

PUBLIC NOTICE IS HEREBY GIVEN TO the property-owners of the City of New York that, by the New York City Consolidated Act of 1882, among other matters relating to Croton water rates and affecting all properties liable for Croton water charges, is embraced the following, in "Title 2, Duties and Powers of the Department of Public Works as to Procuring and Distributing Water":

§ 330. The Commissioner of Public Works shall, from time to time, establish scales of rents. * * * * * Such rents shall be collected from the owners or occupants of all such buildings, respectively, which shall be situated upon lots adjoining any street or avenue in said city in which the distributing water-pipes are or may be laid, and from which they can be supplied with water, said rents shall become a charge and lien upon such houses and lots, respectively, as provided by law.

It becomes my duty to state that on and after the first day of April, 1884, all extra charges, such as steam-engines, bakeries, barbers, bathing-tubs, boarding-houses, boarding-schools, building purposes, horses, horse-troughs, hotels, porter-houses, taverns, etc., printing offices, stone cutting or dressing, slaughter-houses, dyeing, water-closets and urinals, laundries, restaurants, soda fountains, extra families, oyster and coffee saloons, water by meter measurement, meters and meter setting, and all other purposes for which the use of Croton water is chargeable according to law, are liens, and unless paid on or before the 31st day of April next must be returned to the Clerk of Assessors, with the amount due on each lot.

HUBERT O. THOMPSON,
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE, NO. 31 CHAMBERS ST.,
NEW YORK, November 19, 1883.

TO THE PUBLIC.

AT 9.30 P. M. ON THURSDAY THE 15TH instant, the aqueduct had to be shut off to repair a large leak that could not be repaired in the usual manner from the exterior. This leak had suddenly developed in the section south of Yonkers, where smaller fissures had previously occurred.

The examination showed fissures aggregating 2,000 feet in length. The repairs were finished and water was again turned on by 4 P. M., on Saturday, the 17th instant. While the flow through the aqueduct was interrupted the supply in the Central Park reservoir was drawn down five feet.

This loss of supply in the city reservoirs, occurring now, as winter is approaching, makes it necessary to take extra precautions against waste of water. Being aware of the temptation to leave faucets open in cold weather to prevent freezing in the pipes, I specially protest against that practice, and appeal to all citizens to abstain from wasteful use of water in any manner whatever. The present condition of the supply and the possibility of a recurrence of similar leaks in the aqueduct make it my duty to give this public notice that I shall hereinafter resort to the peremptory measure of shutting off the water in all places where persistent waste is discovered.

HUBERT O. THOMPSON,
Commissioner of Public Works.

BOARD OF EDUCATION.

SEALED PROPOSALS WILL BE RECEIVED AT the office of the Clerk of the Board of Education, corner of Grand and Elm streets, until Friday, April 13, 1884, at 4 P. M., for supplying the coal and wood required for the public schools in the city for the ensuing year—say thirteen thousand (13,000) tons of coal, more or less, and seven hundred and fifty (750) cords of oak, more or less. The coal must be of the best quality of white ash, furnace, egg, stove and nut size, clean and in good order, two thousand two hundred and forty (2,240) pounds to the ton, and must be delivered in the bins of the several school buildings at such times and in such quantities as required by the Committee on Supplies.

The proposals must state the mines from which it is proposed to supply the coal (to be furnished from the mines named, if accepted), and must state the price per ton of two thousand two hundred and forty (2,240) pounds.

The quantity of the various sizes of coal required will be about as follows, viz.: Ten thousand five hundred (10,500) tons of furnace size, one thousand five hundred (1,500) tons of stove size, three hundred (300) tons of egg size, and seven hundred (700) tons of nut size.

The oak wood must be of the best quality, the stick not less than three (3) feet long. The pine wood must be of the best quality Virginia, and not less than three (3) feet six (6) inches long. The proposals must state the price per cord of one hundred and twenty-eight (128) cubic feet, sold measure, for both oak and pine wood, and also the price per cord for splitting, the quantity of oak wood to be split only as required by the Committee on Supplies. The wood will be inspected and measured under the supervision of the Inspector of Fuel of the Board of Education, and must be delivered at the schools, as follows: Two-thirds of the quantity required from the 1st of May to the 15th of September, and the remainder as required by the Committee on Supplies; said wood, both oak and pine, must be delivered, sawed, and when required, split, and must be piled in the yards, cellars, vaults, or bins of the school buildings, as may be designated by the proper authority. The contracts for supplying said coal and wood to be binding until the first day of May, 1885. Two sureties for the faithful performance of the contract will be required, and each proposal must be accompanied by the signatures and residences of the proposed sureties. No compensation will be allowed for delivering said coal and wood at any of the schools, nor for putting and piling the same in the yards, cellars, vaults or bins of said schools.

Proposals must be directed to the Committee on Supplies of the Board of Education, and should be indorsed "Proposals for Coal," or "Proposals for Wood," as the case may be.

The Committee reserve the right to reject any or all proposals received.

EDWARD J. H. TAMSEN,
FREDERICK W. DEVOE,
HOSIA B. PERKINS,
HENRY SCHMIDT,
DAVID WETMORE,
Committee on Supplies.

NEW YORK, March 31, 1884.

SEALED PROPOSALS WILL BE RECEIVED BY the School Trustees of the Nineteenth Ward, at the Hall of the Board of Education, corner of Grand and Elm streets, until Monday, the 14th day of April, 1884, and until 4 o'clock P. M. on said day, for the steam-heating apparatus for the New Grammar School-house No. 76, on the southeast corner of Lexington avenue and East Sixty-eighth street.

Sealed proposals will also be received at the same place and time, for the steam-heating apparatus for the New Grammar School-house No. 77, on First avenue, East Eighty-fifth and East Eighty-sixth street.

Plans and specifications may be seen, and blanks for proposals, and all necessary information may be obtained at the office of the Engineer, No. 146 Grand, corner of Elm street.

The Trustees reserve the right to reject any or all of the proposals submitted.

The party submitting a proposal, and the parties proposing to become sureties, must each write his name, and place of residence on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

CHARLES L. HOLT,
ISAAC P. CHAMBERS,
JOSEPH KOCH,
ABRAHAM DOWDNEY,
C. E. SIMMONS, M. D.,
Board of School Trustees, Nineteenth Ward.

Dated New York, March 31, 1884.

SEALED PROPOSALS WILL BE RECEIVED BY the School Trustees of the Twentieth Ward, at the Hall of the Board of Education, corner of Grand and Elm streets, until Thursday, April 10, 1884, and until 4 o'clock P. M. on said day, for the erection of a new school-house on the south side of West Twenty-eighth street, between Ninth and Tenth avenues, as an addition to Grammar-School Building No. 33.

Plans and specifications may be seen, and blanks for proposals, and all necessary information may be obtained at the office of the Superintendent of School Buildings, No. 146 Grand, corner of Elm street, third floor.

Proposals will be received only for the entire work and materials required for the erection of the building, and must be indorsed "Proposal for the Erection of a School-house on West Twenty-eighth street, in the Twentieth Ward;" all the work is to be performed under one contract; and to be completed in eight months from the date of the contract, under a forfeiture of fifty dollars per day for each and every day that the work remains unfinished after the said eight months have expired.

The party submitting a proposal, and the parties proposing to become sureties, must each write his name, residence, and place of business on said proposal.

Two responsible and approved sureties, residents of this city, are required in all cases.

No proposal will be considered from persons whose character and antecedent dealings with the Board of Education render their responsibility doubtful.

The Trustees reserve the right to reject any or all of the proposals submitted.

THOMAS MAHER,
JOHN H. TIELEN,
LEROY CLARK,
JAMES J. THOMPSON,
GEORGE A. JONES,
Board of School Trustees, Twentieth Ward.

Dated New York, March 27, 1884.

POLICE DEPARTMENT.

POLICE DEPARTMENT—CITY OF NEW YORK,
OFFICE OF THE PROPERTY CLERK (Room No. 39),
NO. 300 MULBERRY STREET,
NEW YORK, 1883.

OWNERS WANTED BY THE PROPERTY Clerk of the Police Department of the City of New York, No. 300 Mulberry street, Room No. 39, for the following property, now in his custody, without claimants: Boots, rope, iron lead, male and female clothing, boots, shoes, wine, blankets, diamonds, canned goods, liquors, etc., also small amount money taken from prisoners and found by patrolmen of this Department.

JOHN F. HARRIOT,
Property Clerk.

THE CITY RECORD.

COPIES OF THE CITY RECORD CAN BE obtained at No. 2 City Hall (northwest corner basement). Price three cents each.

DEPARTMENT OF TAXES AND ASSESSMENTS.

DEPARTMENT OF TAXES AND ASSESSMENTS,
STAATZ ZITUNG BUILDING,
NEW YORK.

IN COMPLIANCE WITH SECTION 17 OF THE City Consolidation Act of 1852, it is hereby advertised that the books of "The Annual Record of the Assessed Valuations of Real and Personal Estate" of the City and County of New York, for the year 1884, are open for examination and correction from the second Monday of January, 1884, until the first day of May, 1884.

All persons believing themselves aggrieved must make application to the Commissioners of Taxes and Assessments, at this office, during the period said books are open, in order to obtain the relief provided by law.

Applications for correction of assessed valuations on personal estate must be made by the person assessed, to the said Commissioners, between the hours of 10 A. M. and 2 P. M. at this office during the same period.

THOMAS B. ASTEN,
EDWARD C. DONNELLY,
THOMAS L. FEINER,
Commissioners of Taxes and Assessments.

JURORS.

NOTICE

IN RELATION TO JURORS FOR STATE COURTS.

OFFICE OF THE COMMISSIONER OF JURORS,
NEW COUNTY COURT-HOUSE,
NEW YORK, June 1, 1883.

APPLICATIONS FOR EXEMPTIONS WILL BE heard here, from 10 to 3 P. M., from all persons hitherto liable or recently serving who have become exempt, and all needed information will be given.

Those who have not answered as to their liability, or proved permanent exemption, will receive a "jury enrollment notice," requiring them to appear before me this year. Whether liable or not, such notices must be answered (in person, if possible, and at this office only) under severe penalties. If exempt, the party must bring proof of exemption; if liable, he must also answer in person, giving full and correct name, residence, etc., etc. No attention paid to letters.

Persons "enrolled" as liable must serve when called or pay their fines. No excuse will be allowed or interference permitted. The fines if unpaid will be entered as judgments upon the property of the delinquents.

All good citizens will aid the course of justice, and secure reliable and respectable juries, and equalize their duty by serving promptly when summoned, allowing their clerks or subordinates to serve, reporting to me any attempt at bribery or evasion, and suggesting names for enrollment. Persons between sixty and seventy years of age, summer absentees, persons temporarily ill, and United States and District Court jurors are not exempt.

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

GEORGE CAULFIELD,
Commissioner of Jurors,
Room 17, New County Court-house.

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 1948, No. 1. Sewer in Thompson street, between West Third and West Fourth streets.

The limit embraced by such assessment includes all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—No. 1. Both sides of Thompson street, between West Third and West Fourth streets.

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 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 26th of April ensuing.

JOHN R. LYDECKER,
JOHN W. JACOBUS,
JOHN MULLALLY,
HENRY A. GUMBLETON,
Board of Assessors.

OFFICE OF THE BOARD OF ASSESSORS,
NO. 11½ CITY HALL,
NEW YORK, March 24, 1884.

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 2001, No. 1. Fencing vacant lots at northwest corner of One Hundred and Twenty-seventh street and Madison avenue.

List 2003, No. 2. Regulating and grading Tenth avenue, from Ninety-third to Ninety-fifth streets.

List 2004, No. 3. Paving One Hundred and Twenty-first street, between Madison and Fourth avenues, with granite-block pavement.

List 2005, No. 4. Paving One Hundred and Twenty-seventh street, from Seventh to Eighth avenue, with granite-block pavement.

List 2007, No. 5. Paving One Hundred and Sixth street, between Lexington and Fourth avenues, with granite-block pavement.

List 2011, No. 6. Laying an additional course of flagging, four feet wide, on both sides of Second avenue, between Sixty-seventh and Sixty-ninth streets, and on west side, between Seventieth and Seventy-first streets.

List 2017, No. 7. Fencing vacant lots about 400 feet east of Eighth avenue, on south side of One Hundred and Twenty-fourth street.

List 2018, No. 8. Fencing vacant lots at northeast corner of Madison avenue and Eighty-third street.

List 2019, No. 9. Fencing vacant lots on west side of the Boulevard, from Ninety-ninth street extending about 250 feet north.

List 2020, No. 10. Paving Ninety-seventh street, from Second to Third avenue with granite-block pavement.

List 2021, No. 11. Paving One Hundred and Twenty-eighth street, from Seventh to Eighth avenue, with granite-block pavement.

List 2022, No. 12. Paving Seventy-first street, from Avenue A to Second avenue, with Belgian pavement.

List 2023, No. 13. Paving One Hundred and Twenty-fourth street, between Eighth avenue and Avenue St. Nicholas, with granite-block pavement.

List 2024, No. 14. Paving One Hundred and Thirtieth street, from Third to Fourth avenue, with trap-block pavement.

List 2025, No. 15. Paving One Hundred and Second street, from First to Third avenue, with granite-block pavement.

List 2026, No. 16. Paving One Hundred and Thirty-third street, from Broadway to the Boulevard, with granite-block pavement.

List 2031, No. 17. Fencing vacant lots on north side of Fifty-seventh street, between Ninth and Tenth avenues.

List 2032, No. 18. Flagging east side of Avenue A, from Seventy-sixth to Eighty-eighth street.

List 2033, No. 19. Flagging Avenue A, from Seventy-first to Seventy-third street.

List 2034, No. 20. Laying an additional course of flagging on the sidewalk on the easterly side of Avenue A, between Sixtieth and Sixty-fourth streets.

List 2035, No. 21. Flagging east side of Second avenue, between Ninety-fifth and Ninety-sixth streets, and west side, between Ninety-fifth and Ninety-seventh streets.

List 2036, No. 22. Regulating, grading, setting curb and flagging the sidewalks, Eighty-eighth street, from Eighth to Tenth avenue.

List 2041, No. 23. Paving Sixty-first street, from easterly curb of Avenue A, 96 feet easterly, with trap-block pavement, and setting curb thereon.

List 2050, No. 24. Regulating, grading, setting curb and flagging One Hundredth street, from Second to Third avenue, commencing southwest corner of Second avenue and One Hundredth street.

List 2052, No. 25. Regulating, grading and flagging sidewalks of Seventy-third street, from Tenth avenue to a point 100 feet east.

List 2054, No. 26. Regulating, grading, curbing and flagging sidewalks of One Hundred and Fifty-third street, from west curb of Avenue St. Nicholas to east curb of Tenth avenue.

List 2055, No. 27. Flagging sidewalks west side of Third avenue, from north curb of One Hundred and Second street to south curb of One Hundred and Third street.

List 2056, No. 28. Fencing vacant lots on block bounded by Eighth and Ninth avenues, Ninety-ninth and One Hundredth streets.

List 2062, No. 29. Fencing vacant lots on south side of East One Hundred and Fifty-fourth street, commencing 250 feet westerly from Courtlandt avenue, and extending westerly 100 feet.

List 2063, No. 30. Fencing vacant lots on the north side of East One Hundred and Fifty-seventh street, commencing 450 feet west of Elton avenue, and running westerly 100 feet.

List 2080, No. 31. Sewer in One Hundred and Fourteenth street, between Seventh and Eighth avenues.

List 2083, No. 32. Paving and setting curb-stones, East Thirty-eighth street, from present pavement to a line about 50 feet easterly.

List 2085, No. 33. Sewer in Fourth avenue, east side, between Eighty-third and Eighty-fourth streets.

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

List 2001, No. 1. West side of Madison avenue, between One Hundred and Twenty-seventh and One Hundred and Twenty-eighth streets, and north side of One Hundred and Twenty-seventh street, extending 41 feet westerly from Madison avenue.

List 2003, No. 2. Both sides of Tenth avenue, from Ninety-third to Ninety-fifth street.

List 2004, No. 3. Both sides of One Hundred and Twenty-first street, between Madison and Fourth avenues, and to the extent of half of the block at the intersecting avenues.

List 2005, No. 4. Both sides of One Hundred and Twenty-seventh street, between Seventh and Eighth avenues, and to the extent of half of the block at the intersecting avenues.

List 2007, No. 5. Both sides of One Hundred and Sixth street, between Lexington and Fourth avenues, and to the extent of half of the block at the intersecting avenues.

List 2011, No. 6. Both sides of Second avenue, between Sixty-seventh and Seventy-first streets.

List 2017, No. 7. South side of One Hundred and Twenty-fourth street, commencing 425 feet east of Eighth avenue, and extending 75 feet easterly.

List 2018, No. 8. Northeast corner of Madison avenue and Eighty-third street.

List 2019, No. 9. West side of the Boulevard, from Ninety-ninth to One Hundredth street.

List 2020, No. 10. Both sides of Ninety-seventh street, between Second and Third avenues, and to the extent of half of the block at the intersecting avenues.

List 2021, No. 11. Both sides of One Hundred and Twenty-eighth street, from Seventh to Eighth avenue, and to the extent of half of the block at the intersecting avenues.

List 2022, No. 12. Both sides of Seventy-first street, from Avenue A to Second avenue, and to the extent of half of the block at the intersecting avenues.

List 2023, No. 13. Both sides of One Hundred and Twenty-fourth street, from Eighth avenue to Avenue St. Nicholas, and to the extent of half of the block at the intersecting avenues.

List 2024, No. 14. Both sides of One Hundred and Thirtieth street, from Third to Fourth avenue, and to the extent of half of the block at the intersecting avenues.

List 2025, No. 15. Both sides of One Hundred and Second street, from First to Third avenue, and to the extent of half of the block at the intersecting avenues.

List 2026, No. 16. Both sides of One Hundred and Thirty-third street, from Broadway to the Boulevard, and to the extent of half of the block at the intersection of Broadway and the Boulevard.

List 2031, No. 17. North side of Fifty-seventh street, between Ninth and Tenth avenues, commencing about 175 feet west of Ninth avenue, and extending about 50 feet westerly.

List 2032, No. 18. East side of Avenue A, from Seventy-sixth to Eighty-eighth street.

List 2033, No. 19. Both sides of Avenue A, from Seventy-first to Seventy-third street.

List 2034, No. 20. East side of Avenue A, from Sixtieth to Sixty-fourth street.

List 2035, No. 21. East side of Second avenue, from Ninety-fifth to Ninety-sixth street and west side of Second avenue, from Ninety-fifth to Ninety-seventh street.

List 2036, No. 22. Both sides of Eighty-eighth street, from Eighth to Tenth avenue.

List 2041, No. 23. Both sides of Sixty-first street, from Avenue A to East river and to the extent of half of the block at the intersection of Avenue A.

List 2050, No. 24. Both sides of One Hundredth street, from Second to Third avenue.

List 2052, No. 25. Northeast corner of Seventy-third street and Tenth avenue.

List 2054, No. 26. Both sides of One Hundred and Fifty-third street, from Tenth avenue to Avenue St. Nicholas.

List 2055, No. 27. West side of Third avenue, from One Hundred and Second to One Hundred and Third street.

List 2056, No. 28. Block bounded by Eighth and Ninth avenues, Ninety-ninth and One Hundredth streets.

List 2062, No. 29. South side of East One Hundred and Fifty-fourth street, commencing 250 feet westerly from Courtlandt avenue and extending westerly 100 feet.

List 2063, No. 30. North side of East One Hundred and Fifty-seventh street, commencing 450 feet west of Elton avenue and running westerly 100 feet.

List 2080, No. 31. Both sides of One Hundred and Fourteenth street, between Seventh and Eighth avenues.

List 2083, No. 32. Both sides of Thirty-eighth street, commencing about 250 feet east of First avenue and extending about 50 feet easterly.

List 2085, No. 33. East side of Fourth avenue, between Eighty-third and Eighty-fourth streets.

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

The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 21st of April ensuing.

JOHN R. LYDECKER,
JOHN W. JACOBUS,
JO

THE CITY RECORD.

OFFICIAL JOURNAL.

VOL. XII.—NUMBER 3,296.

NEW YORK, MONDAY, MARCH 31, 1884.

SUPPLEMENT.



DEPARTMENT OF PUBLIC WORKS.

Report for the Quarter ending December 31, 1883.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE, NO. 31 CHAMBERS STREET,
NEW YORK, February 27, 1884.

Hon. FRANKLIN EDSON, 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 three months ending December 31, 1883, together with a review of the operations of the Department for the year 1883 :

SUMMARY OF EXPENDITURES FOR THE QUARTER.

(Being amount of requisitions drawn on the Comptroller.)

On account of appropriations raised by taxation.....	\$766,853 08
On account of Assessment Fund for street improvements.....	408,714 95
On account of Funded Debt, for improvements and extension of water supply.....	264,191 21
On account of Revenue Bonds, for furnishing and setting water meters.....	8,415 56
On account of Special Fund, for restoring pavements over street openings.....	8,781 60
Total.....	\$1,456,956 40

SUMMARY STATEMENT OF CONTRACTS.

Contracts entered into during the Quarter.

4 paving contracts, estimated cost.....	\$85,080 16
15 sewer contracts, estimated cost.....	37,006 42
10 regulating and grading contracts, estimated cost.....	88,570 20
6 miscellaneous contracts, estimated cost.....	44,157 40
15 contracts, under \$1,000 each, estimated cost.....	9,295 37
50 contracts, total estimated cost.....	\$264,109 55

Contracts Completed during the Quarter.

23 paving contracts, actual cost.....	\$206,736 74
13 sewer contracts, actual cost.....	90,029 35
9 regulating and grading contracts, actual cost.....	71,775 89
3 water pipe contracts.....	40,108 36
7 miscellaneous contracts.....	221,895 04
15 contracts, under \$1,000 each.....	9,835 23
70 contracts, total cost.....	\$640,380 61

BUREAU OF CHIEF ENGINEER OF THE CROTON AQUEDUCT.

Croton Water-shed.

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

LOCATION.	OCTOBER. INCHES.	NOVEMBER. INCHES.	DECEMBER. INCHES.	TOTAL INCHES.
Boyd's Corners Reservoir.....	6.99	1.79	3.45	12.23
South East Reservoir.....	6.19	1.80	3.31	11.30
Croton Dam.....	5.53	1.33	4.84	11.70
Kensico, on Bronx river.....	4.04	1.54	2.95	8.54
Central Park Reservoir.....	5.22	1.59	3.69	10.50

For thirty-eight days, viz. : from October 1 to 26, and from December 17 to 28, the natural flow of the Croton river had to be supplemented by drafts upon the storage reservoirs and lakes to furnish a full supply of water to the aqueduct.

The quantity of stored water drawn is as follows :

From Boyd's Corner Reservoir.....	890,000,000 gallons.
From South East Reservoir.....	425,000,000 "
From Lakes Mahopac, Kirk, Gleneida and Barrett Pond.....	500,000,000 "
Total.....	1,815,000,000 "

—being an average of 20,000,000 gallons for each day of the three months.

The Aqueduct.

The following are the principal items of work done for the improvement and re-inforcement of the Aqueduct and appurtenances in addition to the ordinary repairs and maintenance. Filling in

rip-rap below the apronway of the Croton Dam ; continuing the construction of the new gate-house on the Second Division at Sing Sing ; building dry-stone wall on the Third Division, between the Pocantico river and the gate-house near that point ; finishing the roadway across the Aqueduct at North Yonkers on the Third Division, and building retaining walls ; strengthening the top arch and removing part of earth covering on the Sixth Division (Kingsbridge).

The stone stairway on the hillside on the northerly side of Harlem river, forming a convenient approach from Sedgwick avenue to the aqueduct gate-house and High Bridge, has been finished. A wooden stable for the horses and vehicles used in the transportation of the engineers and assistants along the line of the Aqueduct, and a store house for the storage of tools and materials were built at Yonkers.

The above work includes—

898	cubic yards of masonry.
710	" culverts and dry-stone wall.
5,145	" earth excavation.
300	" rock excavation.
5,145	" earth placed in embankments.
1,139	lineal feet of grading.
4,739	" fences built.

For a general account of the condition of the Aqueduct I beg to refer you to the review of the operations of the Department for the year, contained in this report.

Distributing System.

Water-pipes were laid in twenty-four different streets and avenues, and a four-inch pipe was laid across the East river to North Brother Island, to supply the hospital erected there by the Health Department. The aggregate lengths of the different sizes of pipes laid are as follows :

36-inch pipe.....	249 lineal feet.
12-inch pipe.....	6,565 "
6-inch pipe.....	9,608 "
4-inch pipe.....	2,945 "
Total.....	19,367 "

—or 3 $\frac{2}{3}$ miles.

The inspections on waste of water for the past three months were confined to the night examinations of house connections with sewers, and the examinations of premises which are subject to the compulsory use of water-meters.

In 3,580 house drains examined, the waste between midnight and 6 A. M. was at the rate of from one to five gallons per minute in 467 places, and in one place the waste was about ten gallons per minute.

During the quarter 784 additional water meters were placed, making a total of 9,012 meters in use at the close of the year.

Works for the Bronx River Water Supply.

This work has been actively progressed under four contracts for different sections of the conduit line, the contract for the large reservoir at Kensico, and the contract for the dam at Rye Ponds. The aggregate quantities of work done during the quarter under these several contracts are :

2,435	cubic yards rock excavated.
15,524	cubic yards earth excavated.
52,607	cubic yards embankments built.
1,495	tons of iron pipe delivered.
35,332	lineal feet 48-inch pipe laid.
2,861	lineal feet 36-inch pipe laid.
2,726	cubic yards stone, brick and concrete masonry built.
2,663	cubic yards dry-stone wall built.
679	lineal feet fence walls built.
26,350	feet B. M. timber furnished.
1,220	pounds wrought iron furnished.

BUREAU OF WATER PURVEYOR.

Pavements.

New pavement were laid during the quarter in place of cobble and worn-out square blocks in the following streets :

	Square Yards.
On Fifth avenue, between Fifty-eighth and Fifty-ninth streets.....	1,005
On Tenth avenue, between Fourteenth and Twenty-second streets.....	12,629
On Division street, from Bowery to Norfolk street.....	5,416
On Thirteenth street, between Sixth and Greenwich avenues.....	4,746
Total.....	23,796

The first pavement, payable by assessment on adjoining property, was laid on the following up-town streets :

	Square Yards.
Fourth avenue, between One Hundred and Second and One Hundred and Sixteenth streets.....	22,797
Tenth avenue, between Manhattan and One Hundred and Thirtieth streets.....	5,895
Foot of East Thirty-eighth street.....	172
Sixty-first street, between Tenth and Eleventh avenues.....	2,738
Sixty-first street, from Avenue A ninety-six feet easterly.....	344
Seventieth street, between First and Second avenues.....	2,250
Seventieth street, between Ninth avenue and the Boulevard.....	2,110
Seventy-third street, between First and Third avenues.....	4,294
Seventy-eighth street, between Ninth avenue and the Boulevard.....	4,462
Eighty-ninth street, between Avenues A and B.....	2,200
One Hundred and Nineteenth street, between Fourth and Sixth avenues.....	5,991
One Hundred and Twentieth street, between Third and Sixth avenues.....	7,322
Total.....	60,575

On the repairs of pavements, an average force of 428 pavers, rammers and laborers, and eighty-one carts, was employed up to November 17, when the repair gangs were disbanded, retaining only ten men and three carts to attend to repairs of dangerous places requiring prompt attention. Repairs were made in 713 separate locations, and twenty-nine permits were issued to citizens to repair pavements at their own expense.

Repairs of Pipes, Stop-cocks, etc.

The work of the repair force of 85 mechanics and laborers and 9 carts for the quarter includes the following items :

- 403 defects in pipes and stop-cocks repaired.
- 788 fire hydrants repaired.
- 45 new fire hydrants substituted for old ones.
- 1 additional fire hydrant placed.
- 131 taps or water-connections shut off on account of leaks of waste.

Public Drinking Hydrants.

Twenty-two drinking hydrants were repaired ; five new hydrants were substituted for old ones, and four additional hydrants were placed.

At the close of the quarter there were 359 drinking hydrants in the city.

BUREAU OF SEWERS.

Fifteen new sewer contracts were entered into and twelve contracts were completed. The aggregate quantities of work on new sewers for the quarter are as follows :

- 11,194 lineal feet of sewers built.
- 784 lineal feet of culverts built.
- 107 lineal feet of drains built.
- 42 receiving basins built.

In the repairs and cleaning of sewers the following work was done :

- 872 lineal feet of sewers rebuilt.
- 189 lineal feet of culverts rebuilt.
- 75 lineal feet of spur pipe laid.
- 47 receiving basins repaired.
- 6 manholes rebuilt.
- 63 manholes repaired.
- 15 new basin heads furnished and set.
- 40 new manhole heads and 403 covers furnished and set.
- 511 receiving basins cleaned.
- 7,525 lineal feet of sewers cleaned.
- 1,469 cart-loads of sewer deposits removed.

BUREAU OF STREET IMPROVEMENTS.

Thirty-three separate regulating and grading works were under contract and in progress during the quarter ; ten contracts were completed, and nine new contracts were made.

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

- 34,010 cubic yards earth excavated.
- 21,760 cubic yards rock excavated.
- 101,457 cubic yards filling placed in embankments.
- 22,166 lineal feet curb-stones set.
- 104,012 square feet flagging laid.
- 2,471 lineal feet picket fence built.
- 576 cubic yards stone masonry built.

BUREAU OF STREETS AND ROADS.

Repairs were made on macadam roadways in seventeen streets and avenues. The average force employed in the care of these roadways was :

- 3 foremen.
- 1 timekeeper.
- 4 mechanics.
- 1 steam engineer.
- 59 laborers.
- 27 teams and wagons.
- 2 carts.

—and the following materials were used :

- 1,189 cubic yards of gravel and sharp sand.
- 327 cubic yards of broken stone.
- 731 cubic yards of earth.

Stone crosswalks were laid across Sixth and Seventh avenues at One Hundred and Twenty-fifth street, for the better accommodation of pedestrian travel.

On the repairs of unpaved streets and country roadways an average force of 31 laborers, 10 teams and 2 carts was employed, and the following material used :

- 230 cubic yards of broken stone.
- 393 cubic yards of limestone chips.
- 518 cubic yards of gravel and sharp sand.
- 175 cubic yards of building stone.
- 2,341 cubic yards of earth and clay.

BUREAU OF LAMPS AND GAS.

During the quarter 180 new street-lamps were erected and lighted, 49 old lamps were relighted, and 57 lamps were discontinued, making a net increase of 172 lamps, and a total number of 24,412 gas lamps and 128 electric lights in use in the streets and parks of the city at the close of the quarter.

BUREAU OF REPAIRS AND SUPPLIES.

The following are among the principal items of repairs and improvements made on the public buildings under the charge of the Department during the quarter.

County Court-house.

Considerable repairs were made on the roof ; and electric call bells and wires were placed in the offices of the Finance Department and in the Sheriff's office.

City Hall.

The extensive improvements and alterations in the Mayor's offices and in the Aldermanic Chamber have been satisfactorily completed, and the rooms entirely refurnished and decorated.

Brown-stone Building.

Storm-doors have been placed at entrances on the ground floor. The electric light was introduced into the offices of the Receiver of Taxes.

City Prison Courts.

Plastering repaired, ceilings calcimined, woodwork painted, and flues and chimneys repaired.

County Jail.

Storm-door put up at main entrance, and new grate bars placed in the furnace.

No. 31 Chambers Street.

The roof painted and the heating apparatus overhauled.

Armories.

Repairs to heating apparatus, plumbing, etc., were made in the armories of the Ninth, Twelfth, Twenty-second and Sixty-ninth Regiments.

Markets.

Considerable repairs to roofing, flooring, doors, etc., were made at Catharine, Tompkins, Fulton, West Washington and Centre Markets.

Minor repairs were made in nearly all the buildings under the care of the Department.

New Washington Market Building.

The contract for the easterly section of the new building is progressing rapidly and satisfactorily.

Jefferson Market Building.

The first contract for this building is finished. The second contract, for an additional story, is also nearly completed.

Public Baths.

The nine public baths in use last season were closed on October 11 to 18, respectively, and towed to their winter station in Gowanus Bay. The four new baths authorized by chapter 425, Laws of 1883, have been completed.

BUREAU OF INCUMBRANCES.

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

- 440 complaints of obstructions received and attended to.
- 115 seizures of obstructions made.
- 72 cart-loads of dirt and refuse material removed.
- 1,167 permits issued to place building material on streets.
- 33 permits issued to cut down shade trees.
- 101 miscellaneous permits issued.
- 186 notices issued to repair defective sidewalks.
- 3 notices issued to repair defective street vault covers.

BUREAU OF WATER REGISTER.

The collections of revenue from the water service for the quarter are as follows :

For Water Rents.....	\$271,039 91
For penalties on water rents.....	4,997 35
For permits to tap water-pipes.....	3,270 50
Total.....	\$279,307 76

MISCELLANEOUS REVENUE.

The Department also collected and paid into the City Treasury during the quarter—

For vault permits.....	\$17,562 90
For sewer permits.....	7,404 97
For restoration of pavements over street openings.....	7,048 25
For expenses of furnishing and setting water meters.....	3,801 58
For redemption of articles seized as obstructions.....	123 00
For articles sold at Corporation Yard.....	382 85
For work and material furnished to citizens.....	78 81
For meter deposits, old account.....	737 84
Total.....	\$37,140 20

REVIEW OF THE OPERATIONS OF THE DEPARTMENT FOR THE YEAR 1883.

Summary of Expenditures.

On Appropriation Account for 1883.....	\$2,349,856 16
On Assessment Fund.....	1,115,874 54
On Funded Debt Account.....	971,650 97
On Revenue Bonds, for water meters.....	22,780 47
On Special Fund for Restoring Pavements over Street Openings.....	27,372 30
Liabilities, including all outstanding accounts against appropriations for 1883.....	237,609 46
Total.....	\$4,725,143 90

Expenditures for the Past Thirteen Years.

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

Recapitulation of Expenditures for the past Six Years.

YEAR.	From Assessment Fund for new improvements, paid entirely by property immediately benefited by the works.	From Long Bonds, for additional Supply of Water.	From Special Funds for Water Meters, and for Restoring Pavements, for which the City is reimbursed.	From Annual Appropriations made by the Board of Estimate and Apportionment.	TOTALS.
1878.....	\$626,514 14	\$600,027 75	\$6,754 15	\$1,601,772 69	\$2,835,068 23
1879.....	364,559 25	296,011 58	4,699 04	1,682,307 77	2,347,577 64
1880.....	461,568 83	484,672 82	35,243 93	2,047,362 81	3,028,848 39
Total.....	\$1,452,642 22	\$1,380,712 15	\$46,697 12	\$5,331,442 77	\$8,211,494 26
1881.....	\$628,201 23	\$481,261 65	\$72,354 07	\$2,466,130 16	\$3,647,947 11
1882.....	1,404,512 65	999,998 30	38,107 49	2,572,381 47	5,014,999 91
1883.....	1,115,874 54	969,994 10	50,152 77	2,589,122 49	4,725,143 90
Total.....	\$3,148,588 42	\$2,451,254 05	\$160,614 33	\$7,627,634 12	\$13,388,090 92

CONTRACTS ENTERED INTO FOR THE PAST SIX YEARS.

Pavement Contracts.

1878—31 contracts, estimated cost.....	\$434,777 00
1879—23 ".....	397,909 00
1880—25 ".....	352,621 00
1881—43 ".....	567,555 00
1882—82 ".....	967,724 00
1883—66 ".....	755,194 00

Regulating and Grading Contracts.

1878—12 contracts, estimated cost.....	\$158,761 00
1879—7 ".....	79,520 00
1880—16 ".....	123,633 00
1881—25 ".....	212,553 00
1882—42 ".....	383,757 00
1883—33 ".....	319,871 00

Sewer Contracts.

1878—15 contracts, estimated cost	\$86,334 00
1879—27 “ “	279,923 00
1880—35 “ “	179,685 00
1881—54 “ “	460,072 00
1882—39 “ “	295,078 00
1883—51 “ “	249,037 00

Miscellaneous Contracts.

1878—64 contracts, estimated cost	\$541,329 00
1879—26 “ “	373,337 00
1880—31 “ “	682,164 00
1881—27 “ “	922,383 00
1882—63 “ “	875,741 00
1883—84 “ “	1,353,012 00

Recapitulation.

1878—122 contracts, estimated cost	\$1,221,202 00
1879—83 “ “	1,130,689 00
1880—97 “ “	1,338,103 00
1881—148 “ “	2,163,063 00
1882—226 “ “	2,522,300 00
1883—234 “ “	2,677,114 00

Contracts Completed During the Year.

72 pavement contracts, actual cost	\$583,198 00
24 regulating and grading contracts, actual cost	503,843 00
46 sewer contracts, actual cost	330,305 00
53 miscellaneous contracts, actual cost	821,271 00
195 contracts, actual cost	\$2,238,617 00

THE WATER SUPPLY.

Sources of Supply.

The average rain-fall for the year at the three stations in the Croton basin where rain gauges are kept by the Department, viz., Boyd's Corner Reservoir, Southeast Reservoir and Croton Dam, was 42.54 inches, which is $4\frac{3}{4}$ inches less than the average for the past ten years. The drafts upon stored water to supplement the natural flow of the Croton river, so as to keep up a full supply to the aqueduct, were therefore quite large. Water was drawn from the several reservoirs and lakes, as follows:

	Gallons.
From Boyd's Corner Reservoir	1,520,000,000
From Southeast Reservoir	1,620,000,000
From Lake Mahopac	520,000,000
From Lake Kirk	400,000,000
From Lake Gleneida	180,000,000
From Barrett Pond	130,000,000
Total	4,370,000,000

Owing to the light rain-fall in November and December, very slow progress was made in replacing the water previously drawn off. The experience of the past year strengthens the conviction that the only solution of the problem of collecting the greatest possible supply from the Croton watershed is the construction of the large reservoir at Quaker Bridge, near the outlet of the watershed, recommended in my previous reports, and in communications to the Aqueduct Commissioners.

A large part of the engineer force under the Chief Engineer of the Croton Aqueduct has been engaged in making surveys for the Aqueduct Commissioners, to enable them to determine as to the final location of dams and reservoirs, and the route for the new aqueduct. The result of the surveys and other examinations were presented to the Commissioners in several reports and communications, with which I transmitted the following:

Exhibit A—Report of the Department of Public Works and of Chief Engineer Isaac Newton on a new aqueduct, dated February 23, 1882, with the opinion of the Consulting Engineers.

Exhibit B—Report of Chief Engineer Isaac Newton, and opinion of Consulting Engineers, on storage in Croton basin, dated February 21, 1883.

Exhibit C—Map showing the Quaker Bridge Reservoir and the aqueduct line thence to the Central Park.

Exhibit D—Map showing aqueduct line from Pocantico river to Croton lake.

Exhibit E—Sketches showing cross-sections of the proposed new aqueduct.

Exhibit F—Elevation and plan of Quaker Bridge Dam.

Exhibit G—Section of dam.

Exhibit H—Section and elevation of cornice and parapet wall.

Exhibit I—Relief openings or arches.

Exhibit K—Section of foundation.

Exhibit L—Specifications for building Quaker Bridge Dam, and controlling the flow of Croton river while excavating the foundation and building the superstructure.

The Croton Aqueduct.

The leaks through cracks or fissures, caused by the settlement of the structure on some of the embankments, became more troublesome than usual. On November 15 a large leak suddenly appeared on the Sixth or Kingsbridge Division, rendering it necessary to empty the Aqueduct to make repairs. This was done by closing the gate at Tarrytown, and turning the water into the waste-pipe line laid there last year. The gate remained closed forty-two hours, and in the meantime the leak referred to and 2,006 lineal feet of bottom cracks on the Fourth and Sixth Divisions were repaired. With the present rate of consumption of water it is most difficult to regain the normal depth of water in the city reservoirs, after the draft made upon it during such occurrences, it being necessary to reduce the flow into the distributing mains by means of the outlet-gates in order to accomplish that object.

The following are the principal items of work done in the repairs and improvement of the Aqueduct during the year:

2,349 cubic yards brick and stone masonry.
2,120 “ “ dry-stone work in retaining walls and culverts.
826 lineal feet of waste-pipe laid.
113 monuments erected.
15,604 cubic yards earth excavated.
1,417 “ “ rock quarried.
14,855 “ “ earth placed in embankment.
13,166 lineal feet fences built.

The Bronx River Works.

Rapid progress was made on these works during the past year under the several contracts for the Kensico Reservoir, the dam at Rye Ponds, and five sections of the conduit line.

The following brief sketch of the inception and progress of the project of obtaining a water supply from the Bronx river will furnish such information as you and the public may desire on the subject:

In the public records of the city the Bronx river is mentioned as an available source for a water supply as early as 1798, when a Committee of the Common Council reported in favor of the plan of Dr. Joseph Brown to convey the waters of the Bronx to the city by pipes. In 1821 the project was again taken up, and Mr. Canvas White was employed to make surveys and plans. In 1824 he submitted a plan for a dam at Tuckahoe, an arched canal thence to the Harlem river, and iron pipes from there to a city reservoir. He estimated the expense at \$1,949,000, and the supply to be obtained at 6,000,000 gallons per day. Another estimate, made by Mr. Francis B. Phelps in 1830, placed the cost of necessary works for a water supply from the Bronx river at \$2,600,000. The adoption of the Croton river system in 1835, stopped further discussion or inquiry into the subject until the conviction was forced upon the authorities and the people that the present Croton Aqueduct is inadequate for the needs of the city in regard to its water supply.

In 1877, under the direction of my predecessor, Mr. Allan Campbell, a survey was begun to ascertain what supply could be obtained from the Bronx, and the best method of collecting the water and conveying it to the city.

A definite plan and estimate for the necessary works, including the Byram river supply, was first presented in Mr. Campbell's report for the quarter ending June 30, 1879. The gross estimate being placed at \$3,000,000. Mr. Campbell also stated that, under the legal limitation of expenditures to \$1,000,000 per annum, three years would be required to complete the works.

The detail surveys and maps for the location of the reservoir and dam at Kensico, and the first section of the conduit line thence to the city, were finished in December, 1879, and application was then made through the Counsel to the Corporation to the Supreme Court of the Second Judicial District, in which the lands are located, for the appointment of Commissioners of Appraisal.

The first report of the Commissioners was made and confirmed in May, 1881. In the meantime my predecessor obtained, by agreement with the owners, the necessary land for the dam at Kensico.

The specifications and contract for the dam were prepared; bids were advertised for and opened August 4, 1880; the contract was signed August 31, 1880, and work on it begun about the 1st of October, 1880, which marks the period of the actual commencement of work on the entire project. Three years and three months have therefore been occupied in its prosecution to December 31, 1883.

The last of the legal proceedings to acquire necessary land was confirmed by the Supreme Court on the 8th of November last. There were altogether six separate proceedings for the acquisition of 113 separate parcels of land. As rapidly as the lands and rights of way were obtained, contracts were made for building the several sections of the conduit line, and for the dam at the outlet of Rye Ponds. Of the thirteen contracts entered into eight are finished, and the remainder should be finished during the year 1884. By the 1st of September the Department expects to be able to furnish about 5,000,000 gallons of water per day through the conduit, and distribute it in the Twenty-third and Twenty-fourth Wards, and as the Kensico Reservoir and the Rye Ponds become filled by the autumn rains, the supply will be gradually increased to about 10,000,000 gallons per day.

The unfinished contracts are sufficiently advanced to permit a close estimate of the parts not yet completed. The following statement shows Mr. Campbell's estimate of 1879 (including the percentage added by him to the engineer's estimate), and the actual or estimated cost as now ascertained:

	COMMISSIONER CAMPBELL'S ESTIMATE IN 1879.	ACTUAL AND ESTIMATED COST AS NOW ASCERTAINED.
Lands, water rights, etc., the cost of which is determined by awards made by the Commissioners of Appraisal and the Supreme Court	\$157,760 00	\$482,282 44
Constructing work, the cost of which is determined by public letting, the contracts being awarded to the lowest bidder:		
Dam and Reservoir at Rye Pond	25,462 00	35,914 40
Dam and Reservoir at Kensico	184,979 00	275,000 00
Conduit line (length, 80,256 lineal feet)	1,236,560 00	1,515,380 29
Connection with Croton Aqueduct	51,040 00	90,000 00
Connection with distributing mains	84,100 00	124,352 00
Totals	\$1,739,901 00	\$2,522,929 13

(The above statement does not include the Williamsbridge Reservoir, the water rights on the lower Bronx river, and the works required to conduct the water of the Byram river into the Rye Ponds Reservoir.)

The cost of land, water rights, etc., so far acquired and determined by awards made by Commissioners of Appraisal and the Supreme Court, is over 200 per cent. greater than the estimate of 1879. The cost of construction work, as far as completed or under contract, which is determined by public letting to the lowest bidder, is about 34 per cent. greater than the estimate. The construction work was materially increased by changes in the plans made at the request of Commissioners of Appraisal to reduce excessive claims for damages to adjacent owners.

Distribution and Use of Water.

The water service was extended and improved by laying 16.88 miles of water pipes, and setting 130 stop-cocks and 208 fire hydrants. On December 31, 1883, the distributing system included 547 miles of pipes, 5,743 stop-cocks and 7,152 fire hydrants.

The new Worthington pumping engine, which was placed at High Bridge last September, has been tested, and its performance exceeds the requirements of the contract. The contract calls for a capacity of raising 75,000,000 pounds one foot high with 100 pounds of coal. During a test extending over seven days the average performance was to raise 77,150,000 pounds one foot high with 100 pounds of coal.

The running expenses for fuel, lubrication, etc., are about one-half of those of the old pumping engines heretofore used at High Bridge.

The average quantity of water daily distributed through the high service was 4,500,000 gallons from High Bridge Works, and 7,624,000 gallons from the Ninety-eighth Street Works.

Examinations made during the year by means of water meters placed on private dwellings show that the higher the pressure at which the water is delivered the more lavishly it is used. Take two of such dwellings or residences, of the same size and style, with the same plumbing arrangements, and with occupants of the same circumstances and habits of life. In one, the water rises to the fourth or fifth story; in the other, only to the second story. The consumption of water in the former is often more than double that in the latter. Yet the people in the high service district would probably indignantly repel a charge of wasteful use of water.

Measures against Waste of Water.

The Waste Inspectors made during the year 15,308 house-inspections, detecting 1,770 cases of defective plumbing, with consequent leaks and waste. In 499 cases the water supply was shut off to enforce the necessary repairs of fixtures and proper care in using the water. The Inspectors also made 9,893 night inspections of house connections with sewers, and found 1,614 drains through which water was running at the rate of from one to five gallons per minute between midnight and 6 A. M., and eight places where the waste during these hours was from five to twenty gallons per minute.

The placing of additional water meters has been actively prosecuted, 2,195 meters being placed during the year, making a total of 9,012 meters in use on December 31, 1883.

The following table shows the quantity of water supplied daily through 8,157 meters on which one or more readings were taken last year:

	No. of Meters.	Gallons per diem.
Hotels.....	336	1,707,800
Breweries, bottlers, etc.....	302	1,510,400
Charitable institutions.....	95	418,000
Office buildings.....	1,760	1,648,800
Factories.....	381	1,153,200
Gas works.....	37	831,800
Railroads.....	186	1,191,000
Stables.....	1,388	1,018,500
Apartment houses.....	93	227,800
Docks.....	112	1,439,000
Miscellaneous.....	3,467	5,137,500
Totals.....	8,157	16,283,800

I have repeatedly stated in my reports that until a new aqueduct is built the efficiency of our water service depends entirely upon further means and measures to suppress waste.

The comparatively small accession to the supply from the Bronx river will be more than absorbed by the additional demands caused by increase in population, buildings, commerce and manufactures. From fifteen to twenty miles of pipe are added each year to the distributing system, and the consumption of water in the built-up portion of the city, where pipes have been laid for years, is rapidly increasing in consequence of the erection of large business buildings and apartment houses. If further decrease of pressure in the mains is not prevented it will be impossible to deliver water in certain sections of the city with sufficient head to supply the demands of business, domestic life and protection from fire.

I regret that in the appropriations for 1883 and 1884 my estimates for this branch of the business of the Department have been so much curtailed that it is impossible to apply the measures for the detection and suppression of waste of water to the extent which is deemed absolutely necessary.

Str. et Pavements.

Thirty-six streets or parts of streets were repaved during the year, and the first pavement payable by assessment, was laid on thirty-eight up-town streets, as directed by ordinances of the Common Council.

The aggregate area and length of these new pavements are:

Repavements.....	166,620 square yards—9.17 miles of streets.
First Pavements.....	145,593 " 6.72 "
Totals.....	312,213 " 15.89 "

The present area and length of paved streets in the city south of Harlem river are:

	Area—Square Yds.	Length of Miles.
Granite and trap-block pavement.....	5,700,000	283.70
Cobble-stone pavement.....	782,000	45.43
Macadam.....	967,000	26.72
Asphalt.....	8,800	.62
Totals.....	7,457,800	357.47

The repair force made repairs on pavements in 2,250 separate locations.

At the present writing the pavements show the effects of an unusually severe winter; storm-water has washed out and loosened the joints between the stone blocks, and the alternate contraction and expansion of the soil from violent changes in weather and temperature have broken the surface in many places. The increase in street traffic causes increased wear and tear. The extension of commerce into new locations turns into routes of transportation many streets which a few years back had no other traffic than that required for the domestic needs of the residents along their lines.

The old-time cobble and small square-block pavements do not furnish the proper facilities for such commerce. Some of the more substantial and smoother pavements, such as on Broadway, Fifth avenue, Third avenue, and many other busy thoroughfares, have been in use so many years that they may now be considered worn out. Within the past three years the streets in the busiest portion of the city have been torn up again and again for the purpose of laying steam pipes, gas-pipes, electric wires, and other underground structures.

The greatest vigilance on the part of the Department cannot prevent the deterioration of the pavements caused by the frequent excavations in the streets.

The unequal settlement of the soil under pavements newly laid or relaid is the chief obstacle to the maintenance of a smooth surface. The soil under the streets of this city is of most variable character, changing in many places abruptly from rock to loose earth or sand.

Probably more than half the pavements are laid on ground filled in to greater or less depth over the natural surface.

All these circumstances tend to increase from year to year the expense and labor of repairs, and cause an unabated demand for the repavement of streets, which will certainly continue until the last of the cobble and inferior stone-block pavements are removed.

The inequality of resistance which the various kinds of soil present to the pressure and wear of traffic can only be modified by placing the pavements on a firm foundation. Where the traffic is extremely heavy, as in Broadway, Fulton street, and similar thoroughfares, a concrete foundation is best, but in pavements laid on deep filling it would not prevent unequal settlement, and its expensiveness is an obstacle to its general application, the cost being from eighty cents to one dollar per square yard. The Department expects to accomplish a great improvement in new pavements by a less expensive method—by compacting and smoothing the road bed with heavy steam-rollers. As it could not be expected that each of the contractors who compete for paving contracts would purchase and keep a steam-roller, it was thought best that the machines should be owned by the city, and hired out to the contractors at a fixed price. The Department has obtained an appropriation of \$11,000, for this purpose for 1884, with which two steam-rollers will be purchased. It is estimated that the cost of preparing the road bed and laying the pavement according to this method will not be more than thirty cents per square yard over the cost of the ordinary method of paving.

During the year permits were issued for laying pipes or tubes in streets, as follows:

To the Edison Electric Illuminating Company, to lay tubes in twenty-two different streets or parts of streets, aggregate length 10,700 lineal feet.

To the Equitable Gas-light Company, to lay gas-mains in twenty-two streets, aggregate length 143,000 lineal feet.

To the Metropolitan Gas-light Company, to lay gas-mains in six streets, aggregate length 4,600 lineal feet.

To the New York, Knickerbocker, Manhattan and Municipal Gas-light Companies, to lay gas-mains in seventeen streets, aggregate length 40,550 lineal feet.

To the New York Steam Company, to lay steam-pipes in twelve streets, aggregate length 8,500 lineal feet.

To the Western Union Telegraph Company, to lay tubes in eight streets, including Broadway, from Wall street to Fourteenth street, aggregate length 11,800 lineal feet.

This makes the extent of underground structures in the streets, south of Harlem river, as follows:

Water pipes.....	547	miles.
Sewers.....	398.11	"
Gas-pipes.....	857	"
Steam pipes.....	16	"
Electric wires.....	17	"

Tubes for telegraph wires.....	3.56 miles.
Pneumatic tubes.....	.75 "
Total.....	1,839.42 "

SEWERAGE AND DRAINAGE.

At the beginning of the year 19 contracts for building sewers were in progress; 64 new contracts were made during the year, and 66 contracts were completed, leaving 17 contracts unfinished at the close of the year. This includes contracts under \$1,000 each, which are classified under the head of "Miscellaneous" in the summary statement of contracts given in this report.

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

33,454 lineal feet of sewers built.
2,833 " culverts built.
130 receiving-basins built.
1,976 lineal feet of house-connections built.
107 " drains built.
9,516 " piles furnished and driven.
5,528 cubic yards of earth embankment made.

The sewerage system south of Harlem river now comprises 398 11-100 miles of sewers and 4,822 receiving-basins. The sewers in the lower part of the city which were built prior to the Sewerage Act of 1865, about 200 miles in extent, were built at haphazard, without general plan or system, and most of those which existed at the time of the introduction of Croton water are mere dry-stone drains, intended only to carry off waste water, though they have since been used to carry off all sewage, including excrementitious matter which was formerly deposited in privy vaults. Most of the outlets along the water-front were built through loose filling, without proper foundation, and while the mouths are held in position by the bulkheads the sewers back of them have sunken so as to prevent the free discharge of sewage and cause foul air to accumulate and be forced back into houses by flood tides and storms. Steady progress is made in remedying these defects by repairs where practicable, and by the construction of new sewers and outlets where repairs are of no avail.

Of the old sewers which were practically rebuilt last year I will mention—

- Sixth avenue, between Eighth street and Waverley place.
- Delancey street, between Columbia and Sheriff streets.
- Intersection of Avenue B and Fourth street.
- Stanton street, between Goerck and Columbia streets.
- Fourteenth street, between Avenues A and B.
- Rivington street, between Mangin street and East river.
- Tenth street, between Avenues A and B.
- Cedar street, between Broadway and Nassau street.

New sewers with outlets were built in Bank street, between West street and Hudson river, and in Bethune street, between Washington street and Hudson river.

Defects in plan and construction are, however, not confined to sewers built prior to 1865.

Most of the pipe sewers built on made-ground during the years 1865 to 1870 have no proper foundation, and have been crushed by the subsidence of the soil under them and the pressure of the material over them. This is notably the case in the district bounded by Fifth avenue, Fifty-sixth street, Fourth avenue and Sixty-fourth street, where the original low ground and old water courses have been covered with rock and earth filling. In 1880 the reconstruction of the sewerage of this district was begun by building a deep brick sewer in Fifth avenue, between Fifty-fifth and Fifty-ninth streets, which was finished in 1881. Last year a branch to this was built in Fifty-sixth street and one in Fifty-seventh street. A similar sewer is now being constructed in Madison avenue, between Fifty-seventh and Fifty-ninth streets, with branches in Fifty-seventh street.

These sewers are from fifteen to thirty feet below the pavement, and will carry off subsoil drainage as well as house and surface drainage, thoroughly removing the complaints of malarial influences from imperfect drainage.

The skilled and experienced force employed in repairing and cleaning sewers has performed very effective work during the year. In the course of their labors they have discovered many hidden defects in the old sewers, of which there are no maps, surveys or records, and by comparatively unexpensive repairs these defects have been remedied and future injury and larger expense prevented.

The principal quantities of work included in repairs and cleaning are:

2,260 receiving-basins and culverts cleaned.
71,435 lineal feet of sewers cleaned.
5,057 " sewers rebuilt.
285 " spur-pipes laid.
608 " culverts rebuilt.
589 " sewers repaired.
71 receiving basins rebuilt.
154 receiving basins repaired.
10 new manholes built.
28 manholes rebuilt.
325 manholes repaired.
84 lineal feet brick drain repaired.
7,875 cart-loads of sewer deposits removed.
57 new basin heads.
95 basin covers.
184 manhole heads.
1,702 manhole covers furnished and set.

Incidental to these repairs there was a large amount of excavation, filling, relaying pavements and sidewalks, resetting curb-stones, etc.

Experience in this and other cities proves that the best method of ventilating our sewers is by perforated manhole covers, through which the foul air is disseminated into the atmosphere so as to become unnoticeable and harmless.

There are over 21,000 manholes in the sewerage system. All those constructed since 1876 are provided with perforated covers, and 1,815 of the old manholes are provided with such covers, which are being applied on the old sewers as rapidly as the appropriation admits.

The discharge of steam and hot fluids into sewers from buildings is a very serious evil and offense, which is extensively practiced, though prohibited by city ordinance under a penalty of \$50. It is especially objectionable in the old sewers, built with common lime mortar, and it is very difficult to detect the offenders, because plumbers will use every means to conceal the manner in which they effect this convenient method of disposing of exhaust steam and hot refuse fluids. The examinations of sewers to trace these offenses are often made at great risk of health and life, and some of the men have been permanently injured in making them. Many cases have been detected and remedied within the past few years, but the evil is still so extensive that the Engineer in charge of sewers, Mr. Stevenson Towle, recommended the employment of a special party, with a thorough knowledge of steam-fitting, in charge, to attend to this subject, and to cut off all sewer connections with buildings where the offense is persisted in.

REGULATING AND GRADING STREETS AND OTHER STREET IMPROVEMENTS.

The most important regulating and grading works completed during the year are:

- First avenue, between Ninety-second and One Hundred and Ninth streets.
- Fourth avenue, between One Hundred and Thirty-third and One Hundred and Thirty-fifth streets.
- Tenth avenue, between Ninety-third and Ninety-fifth streets.
- Sixty-second street, between Tenth and Eleventh avenues.
- Eighty-third street, between Boulevard and Riverside Drive.
- Eighty-ninth street, between Eighth and Tenth avenues.
- One Hundredth street, between Second and Third avenues.
- One Hundred and Thirtieth street, between Fifth and Eighth avenues.
- One Hundred and Sixteenth street, between Eighth and Ninth avenues.

One Hundred and Twenty-third street, between St. Nicholas and Ninth avenues.
 One Hundred and Thirty-sixth street, between Fifth and Eighth avenues.
 One Hundred and Forty-first street, between Eighth and St. Nicholas avenues.
 The aggregate quantities of work done under the several contracts for regulating, grading, curbing, and flagging streets, and fencing vacant lots are as follows:

63,287 cubic yards earth excavation.
 95,637 " rock excavation.
 364,132 " filling placed in embankments.
 36,358 lineal feet curb-stones set.
 1,957 " gutter-stones set.
 233,088 square feet flagging laid.
 14,354 cubic yards stone masonry built.
 4,032 lineal feet picket fence built.

At the close of the year 27 regulating and grading contracts were in progress. The most important of these are:

Morningside avenue West, Morningside avenue East, and One Hundred and Twenty-third street, between Ninth and Tenth avenues (two contracts).

This includes grading, building retaining walls, flagging sidewalks, building macadam roadways, and planting shade trees, and when finished will complete the improvement of the streets and avenues bounding the Morningside Park, opening to private improvement and occupation one of the most picturesque and finest locations for private residences within the boundaries of the city. The entire work will probably be finished this year.

The other large grading works are:

Ninth avenue, between One Hundred and Fifty-first and One Hundred and Fifty-fifth streets—
 Nearly completed.

Sixty-sixth street, from Eighth avenue to the Boulevard—
 To be finished next spring.

Sixty-seventh street, from Third avenue to Avenue A—
 Nearly completed.

Eighty-fifth street, from Ninth to Tenth avenue, and from Tenth avenue to Riverside Drive (two contracts)—

The first will be completed in about thirty days, and the second in the course of this year.

Eighty-eighth street, from Tenth avenue to Riverside Drive—
 Will be completed next spring.

Ninety-fifth street, from Tenth avenue to Riverside Drive—
 About 8,000 cubic yards of rock excavation remains to be done. The work can be finished by next autumn.

Ninety-eighth and Ninety-ninth streets, between Fourth and Fifth avenues—

These two works require deep filling; the former will be finished towards the close of the year, and the latter next spring.

One Hundred and Twelfth street, between Madison and Sixth avenues—
 Will probably be completed next spring.

One Hundred and Eighteenth street, between Fourth and Sixth avenues—
 This work requires heavy rock excavation, and will probably be finished this year.

One Hundred and Thirty-seventh street, between Fifth and Seventh avenues—
 The first contract for this work was declared abandoned; it was relet and is now making fair progress.

One Hundred and Thirty-eighth street, between Sixth and Eighth avenues—
 Nearly completed.

One Hundred and Fifty-first street, from Avenue St. Nicholas to the Boulevard—
 Will probably be finished during the spring.

One Hundred and Fifty-third street, from Seventh avenue to New avenue—
 This requires heavy rock excavation, and will probably occupy the whole of this year.

One Hundred and Fifty-sixth street, from Avenue St. Nicholas to the Boulevard—
 Will be completed next spring.

Filling sunken lots between One Hundred and Forty-third and One Hundred and Fifty-fifth streets, and between Eighth and Ninth avenues—
 This large improvement will be finished next spring.

For details as to other works of this class I beg to refer to the report of the Superintendent of Street Improvements, hereto annexed.

Macadam Roadways.

The present extent of macadam roadways under the care of the Department is 26 72-100 miles, covering an area of 967,000 square yards. The large increase of business traffic in the upper part of the city causes greater wear and tear than was probably anticipated when some of the roadways were built, and requires from year to year more labor and material to preserve the road surface and structure. The drivers of heavily loaded vehicles go long distances out of their way to take advantage of the smoothness of these roads. Notwithstanding these difficulties, the roads have been kept in very good condition for the past few years with the moderate appropriation allowed therefor.

As the appropriation for the maintenance of boulevards has been reduced from \$70,000 for 1883 to \$50,000 for 1884, against my strenuous arguments and protests, it is much to be feared that the Department will not be able to prevent such deterioration as will in future cause increased expense to restore them to their present condition.

Country Roadways and Unpaved Streets.

There are about ten miles of country roadways and about fifty miles of unpaved streets in the upper part of the city which the Department is required to keep in proper condition for public travel. As the sections of the city which they traverse become more populated the traffic over them increases. Most of the country roadways are used for pleasure-driving as well as for local travel, and are sprinkled in dry weather.

All the roads and streets have been kept in as good condition during the past year as the appropriation would permit.

Acquiring Title to New Streets.

Under chapter 579, Laws of 1880, requiring this Department to perform the services previously performed by City Surveyors in making surveys, rule maps, and damage and benefit maps for street openings, maps have been prepared during the year for the use of the Law Department and the Commissioners of Estimate and Assessment for the following proceedings for opening streets:

One Hundred and Thirty-fourth street, between Eighth and St. Nicholas avenues.
 One Hundred and Thirty-fifth street, between Eighth and St. Nicholas avenues.
 Fifty-third street, between Tenth and Eleventh avenues.
 One Hundred and Twenty-sixth street, between First and Second avenues.
 One Hundred and Second street, between Eighth avenue and Riverside Drive.
 One Hundred and Thirty-eighth street, between Boulevard and Tenth avenue.
 One Hundred and Twenty-seventh street, between Eighth and St. Nicholas avenues.
 One Hundred and Twenty-eighth street, between Eighth and St. Nicholas avenues.
 One Hundred and Twenty-ninth street, between Eighth and St. Nicholas avenues.
 One Hundred and Twelfth street, between Eighth and New avenues.
 One Hundred and Forty-fourth street, between Eighth and New avenues.
 One Hundred and Third street, between Eighth avenue and Riverside Drive.
 Ninety-seventh street, between Boulevard and Riverside Drive.
 One Hundred and Thirty-ninth street, from Boulevard 425 feet westerly.
 One Hundred and Sixty-second street, between Tenth avenue and Edgecomb Road.
 One Hundred and Forty-third street, between Tenth avenue and the Boulevard.
 One Hundred and Fifty-fourth street, between Tenth and St. Nicholas avenues.
 Beekman place, between Forty-ninth and Fifty-first streets.
 One Hundred and Thirty-second street, between Tenth avenue and Broadway.
 One Hundred and Twenty-fifth street, between Eighth and Ninth avenues.
 The maps also show about 3,650 lots of land contiguous to the streets.

LIGHTING THE CITY.

During the year, 716 new street gas-lamps were erected and lighted, 271 old lamps were relighted, and 322 lamps were discontinued, making a net increase of 665 lamps for the year. At the close of the year there were 24,412 gas-lamps and 128 electric lights in use in the streets and parks of the city.

When the Gas Commission meets to consider the subject of lighting the city for the year beginning on the first of May next, the proposition will be submitted to extend the electric light to West street, from the Battery to Eleventh street; South street, from the Battery to Catharine street; Third, Fourth, Madison, Fifth and Eighth avenues, from Fourteenth street to Fifty-ninth street; to Tompkins Square, and to Fourteenth, Twenty-third, Forty-second and Fifty-ninth streets, between Fourth and Eighth avenues.

PUBLIC BUILDINGS.

The Department has charge of twenty-five buildings owned by the city, and twenty-one buildings which are rented by the city for armories, for civil and police courts, and for various public offices. Some of the buildings owned by the city are old, frail and dilapidated, requiring constant repairs. The several quarterly reports give the details of the principal repairs and alterations for the year.

The new Fulton Market building was finished early last year, including new flagging on the sidewalks surrounding it. A contract has been made for an iron awning over the sidewalks, and the work will be done as soon as the weather permits.

As stated in a preceding part of this report, the two contracts for the new Jefferson Market building are completed, and very favorable progress has been made on the easterly section of the new Washington Market building.

An appropriation of \$180,000 was applied for and granted for completing the work of rebuilding Washington Market; plans and specifications are now being prepared and proposals for the contract will soon be advertised for.

Plans and specifications had been prepared for altering the Grand street front of Essex Market into stores, but the Commissioners of the Sinking Fund have decided to let the building in its present condition, and the work is for the present abandoned.

PUBLIC BATHS.

Nine baths were in use during the season; they were opened to the public on the 1st of June and were closed on October 11 to 18 respectively.

The attendance at the several baths for the season was as follows:

LOCATION.	MALES.	FEMALES.	TOTAL.
Gouverneur street, East river.....	365,447	146,219	511,666
Fifth street, East river.....	354,795	129,326	484,121
Nineteenth street, East river.....	310,177	109,185	419,362
Thirty-seventh street, East river.....	235,513	111,906	347,419
One Hundred and Twelfth street, East river.....	219,810	111,275	331,085
Fifty-first street, North river.....	231,462	103,968	335,430
Bethune street, North river.....	258,944	102,613	361,557
Duane street, North river.....	96,502	52,583	149,085
At the Battery.....	318,155	176,206	494,361
Total.....	2,387,805	1,043,281	3,431,086

The Legislature, by chapter 425, Laws of 1883, authorized the construction of four new baths, two of them to take the place of the two oldest baths. The last of the new baths was finished early in December, and the two oldest baths will be sold at public auction in the spring, before the bathing season begins.

STREET OBSTRUCTIONS.

The Bureau of Incumbrances received during the year 2,610 complaints of obstructions and made 771 seizures of articles which the owners failed to remove on notice from the Department.

It also removed 2,295 cart loads of stone and other refuse material from the streets, and 96 decayed and dangerous trees.

There were issued—

5,983 permits to place building material on streets.
 60 permits to cut down shade trees.
 589 miscellaneous permits.
 653 notices to repair defective sidewalks.
 19 notices to repair defective vault covers.

REVENUE.

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

For regular water rents and penalties.....	\$1,352,136 38
For water measured by meter.....	478,141 08
For water for building purposes.....	28,388 50
For permits to tap water-pipes.....	10,853 00
Total collections of water revenue.....	\$1,869,518 96
For vault permits.....	94,690 90
For sewer permits.....	26,455 43
For restoring pavements over excavations.....	29,660 30
For furnishing and setting water meters.....	3,801 58
For materials sold at auction.....	549 10
For redemption of street obstructions.....	574 25
For meter deposits, old account.....	3,878 91
For work and materials furnished by the Department.....	206 27
Total revenue collected.....	\$2,029,335 74

The increase in collection of water revenue, over the collections for 1882, is..... \$222,335 71
 And in total revenue..... 197,816 99

The annexed table, Document C, shows the revenue from the water service, and the cost of the entire Croton water system, from its inception to December 31, 1883. In my report for the quarter ending September 30, 1883, I gave a summary statement of the result of the examinations made by officers and clerks of this Department of the accounts of water rents up to that time. The examination is still in progress, and has disclosed no additional irregularities since my communication to you of September 22, 1883; payments amounting to \$9,099.52 have been made on the accounts which were credited on the meter account books without a corresponding entry on the cash books, leaving \$9,073.40 to be accounted for. All the amounts remaining unpaid on May 1, 1884, will be returned to the Clerk of Arrears for collection, being liens against the respective property.

Since the investigation was begun, careful study has been given to the subject of improving the system of water rent accounts, to facilitate the discovery of errors or irregularities. Several additional checks have been devised and applied, which are valuable for that purpose. Each year's accounts of the Water Register's Bureau occupy a separate set of books, over 100 in number.

A completely new system of accounts has been prepared and adopted, by which, for the first time since water rents are charged and collected in this city, the accounts can be properly balanced from time to time. In order to put in practice the clerical force of the Water Register's Bureau had to be nearly doubled.

Very respectfully,

HUBERT O. THOMPSON,

Commissioner of Public Works.

Document "A."

Showing Titles of Appropriations; Balances of 1882 on October 1, 1883; Requisitions on and Transfers from 1882, in Fourth Quarter, 1883; Balances of 1882 on December 31, 1883; Appropriations, including Transfers, of 1883; Requisitions, First Nine Months of 1883; Requisitions, Fourth Quarter, 1883; Total Requisitions on 1883; Balances on December 31, 1883; and the Titles and Condition of the Trust and Special Accounts.

TITLES OF APPROPRIATIONS.	Balances of 1882, on October 1, 1883.	Requisitions on and Transfers from 1882, in Fourth Quarter, 1883.	Balances of 1882, on Dec. 31, 1883.	Appropriations, including Transfers of 1883.	Requisitions, First Nine Months of 1883.	Requisitions, Fourth Quarter of 1883.	Total Requisitions for 1883.	Balances on Dec. 31, 1883.
Aqueduct—Repairs, Maintenance, and Strengthening.....				\$227,000 00	\$123,229 01	\$59,268 64	\$182,497 65	\$44,502 35
Aqueduct—Repairs, Maintenance, and Strengthening—Salaries.....				23,000 00	15,990 35	8,950 90	24,953 31	40 69
Boulevards, Roads, and Avenues—Maintenance.....				70,300 00	44,900 25	20,161 06	65,067 31	5,232 69
Boulevards, Roads, and Avenues—Maintenance—Salaries.....				2,100 00	1,591 00	500 00	3,091 00	9 00
Bridge across Fourth Avenue at Ninety-seventh street.....				52,200 00	1,865 40	40,708 00	41,573 40	10,626 60
Contingencies—Department of Public Works.....	\$50 00		\$50 00	4,500 00	1,588 68	2,390 97	3,979 65	520 35
Essex Market—Alterations and Repairs.....				17,000 00				17,000 00
Expenses of Surveying, Laying-out, etc.....	708 50	\$708 50						
Flagging Sidewalks and Fencing Vacant Lots, etc.....				1,500 00	181 53	1,084 36	1,265 89	234 11
Foot Bridge across Fourth Avenue at Forty-first Street.....	2,950 00		2,950 00					
For Surveys for Board of Street Openings and Improvements.....				708 50				708 50
Free Floating Baths.....				15,070 00	10,575 00	2,063 82	12,638 82	2,451 18
Free Floating Baths—Salaries.....				17,410 00	14,498 50	1,938 50	16,437 00	973 00
Fulton Market—Alterations and Repairs.....								
Furnishing Pipes, etc., North Brother Island.....				32,000 00		18,577 16	18,577 16	13,422 84
Gansevoort Market.....	263 10	263 10						
Jefferson Market—Alterations and Rebuilding.....	29,872 96	14,404 00	15,468 96					
Lamps and Gas and Electric Lighting.....				584,184 00	385,476 49	139,640 06	525,116 55	59,067 45
Lamps and Gas and Electric Lighting—Salaries.....				5,810 00	4,352 94	1,447 98	5,800 92	15 08
Laying Croton Pipes.....	5,605 04	3,856 74	1,808 90	235,428 00	135,420 36	82,028 52	218,348 88	17,079 12
Laying Croton Pipes—Salaries.....				14,572 00	9,920 30	2,868 32	12,788 62	1,783 38
Public Buildings—Construction and Repairs.....				50,500 00	30,871 09	17,594 22	48,465 31	8,034 69
Public Drinking Hydrants.....				5,000 00	1,266 99	710 30	1,986 29	3,013 71
Removing Obstructions in Streets and Avenues.....				5,000 00	4,487 09	838 40	5,325 49	124 51
Removing Obstructions in Streets and Avenues—Salaries.....				2,500 00	1,355 00	863 00	2,218 00	282 00
Repairing and Renewal of Pipes, Stop-cocks, etc.....				149,135 18	103,043 86	39,112 65	142,156 51	6,978 67
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....				55,000 00	35,839 74	19,069 05	54,908 79	91 21
Repairs and Renewal of Pavements and Regrading.....				170,000 00	113,324 15	54,500 73	167,830 88	2,169 12
Repairs and Renewal of Pavements and Regrading—Salaries.....				5,000 00	3,662 00	1,333 50	4,995 50	4 50
Repaving Streets and Avenues.....	4,044 61	1,005 65	3,038 96	340,000 00	250,635 36	68,192 04	318,827 40	21,173 70
Repaving Streets and Avenues—Salaries.....				10,000 00	6,130 39	2,964 32	9,094 71	405 29
Roads, Streets, and Avenues, Unpaved—Maintenance and Sprinkling.....				20,000 00	23,377 29	5,404 84	28,782 13	1,217 87
Salaries—Department of Public Works.....				83,000 00	62,173 60	20,802 46	82,976 06	23 94
Sewers—Repairing and Cleaning.....	62 00		62 00	114,000 00	91,439 37	18,070 74	109,510 11	4,489 89
Sewers—Repairing and Cleaning—Salaries.....				11,000 00	8,782 80	2,215 75	10,998 55	1 45
Sewerage System—Salaries.....				15,000 00	11,025 08	3,137 53	14,162 61	837 39
Street Improvements—For Surveying, Monumenting, etc.....				1,500 00	1,373 00	8 50	1,381 50	118 50
Supplies for and Cleaning Public Offices.....	112 78		112 78	103,789 10	64,922 37	33,347 24	98,269 61	5,519 49
Supplies for and Cleaning Public Offices—Salaries.....				25,000 00	18,539 41	5,790 99	24,330 40	669 60
Surveys, Maps, etc.—For Street Openings.....				10,000 00	5,949 73	4,050 03	9,999 76	11 00
Supplying Water to Shipping and for Building, etc., Salaries.....				10,000 00	7,614 50	2,574 50	10,189 00	11 00
Washington Market—Alterations and Rebuilding.....				100,000 00	3,838 25	64,123 50	67,961 75	32,038 25
Water Supply for the Twenty-fourth Ward.....				5,300 00	4,014 00	1,177 81	5,191 81	108 19
Wells and Pumps—Repairing and Cleaning.....				500 00	92 68	146 25	238 93	261 07
Totals.....	\$43,729 59	\$20,237 99	\$23,491 60	\$2,611,032 78	\$1,603,157 56	\$746,628 60	\$2,349,786 16	\$261,246 62

N. B.—Amount drawn on Laying Croton Pipes, of 1881, during the fourth quarter of 1883, was \$694.99.

TITLES OF TRUST ACCOUNTS.	Balance from 1882, and First Three Quarters, 1883.	Receipts, Fourth Quarter, 1883.	Requisitions, First Nine Months, 1883.	Requisitions, Fourth Quarter, 1883.	Balance, December 31, 1883.
Croton Water Fund.....			\$705,802 89	\$264,191 21	
Street Improvements above Fifty-ninth street.....			49,780 91	9,616 57	
Street Improvement Fund.....			657,378 68	399,098 38	
Restoring and Repaving—Special Fund—Department of Public Works.....	\$27,697 31	\$7,048 25	18,590 70	8,781 60	\$7,373 26
Water Meter Fund—No. 2.....	\$25,000 00	3,801 58	14,304 91	8,415 56	6,021 11

* Amount placed to credit by sale of Revenue Bonds.

Statement of Bookkeeper, Department of Public Works, showing all Revenues of the City received through the Department of Public Works, during the First Nine Months of 1883; during the Fourth Quarter, 1883, and the Total for the Year.

SOURCE OF REVENUE.	FIRST NINE MONTHS, 1883.	FOURTH QUARTER, 1883.	TOTAL FOR 1883.
Water rents.....	\$1,575,849 60	\$271,039 91	\$1,846,889 51
Water penalties.....	6,770 10	4,097 35	11,770 45
Pipe tapping.....	7,582 50	3,270 50	10,853 00
Sewer permits.....	19,050 46	7,404 97	26,455 43
Vault permits.....	74,128 14	17,562 90	91,691 04
Redemption and sale of street obstructions.....	431 25	123 00	574 25
Sales at Corporation Yards.....	166 23	382 85	549 10
Work and material furnished by city.....	127 46	78 81	206 27
Total.....	\$1,684,134 76	\$304,860 29	\$1,988,995 05

SOURCE OF REVENUE.	FIRST NINE MONTHS, 1883.	FOURTH QUARTER, 1883.	TOTAL FOR 1883.
Meter Stock Deposit—Special Fund.....	\$3,141 07	\$737 84	\$3,878 91

ARREARS OF WATER RATES OF 1882.			
Regular water rents.....	\$80,335 55		
Water by meter measurement.....	20,408 26		
Meters and setting.....			\$100,743 81
Total arrears.....			\$100,743 81

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

Document "B."

A Statement in Detail of Expenditures for which Requisitions were drawn on the Department of Finance by the Commissioner of Public Works, during the Quarter ending December 31, 1883.

APPROPRIATIONS.

Aqueduct—Repairs, Maintenance and Strengthening—	
Building stone.....	\$3,000 00
Carpenters' repairs.....	89 83
Cement.....	1,685 00
Coal.....	4,266 31
Dimension stone.....	405 00
Drain pipe.....	335 80
Horse feed.....	147 80
Horse keeping.....	31 00
Lumber.....	1,870 08
Oil.....	476 74
Paving stone.....	568 75
Pay-rolls.....	42,715 10
Putting up telegraph.....	300 00
Quarry right.....	105 00
Rent of office.....	106 25
Repairing boiler.....	546 25
" roof.....	291 48
" scales.....	89 06
" tools.....	503 26
" wagon.....	37 00
Sawdust.....	22 50
Scales.....	93 15
Screenings.....	92 00
Skylights.....	98 00
Stoves and putting up.....	94 23
Supplies.....	219 04
Taxes.....	102 03
Tools.....	345 61
Traveling expenses.....	632 37
Total.....	\$59,268 64

Boulevards, Roads and Avenues, Maintenance of—	
Coal.....	\$13 00
Horse keeping.....	103 50

Boulevards, Roads and Avenues, Maintenance of—	
Lumber.....	\$15 57
Pay-rolls.....	19,894 34
Repairing harness.....	18 75
" sprinklers.....	59 15
Tools, etc.....	50 75
Total.....	\$20,161 06

Contingencies—Department of Public Works—	
Auctioneer's fees.....	\$38 28
Horse hire.....	130 00
Horse keeping.....	68 75
Incidentals.....	300 00
Pay-rolls.....	1,034 09
Stenography.....	638 10
Traveling expenses.....	181 75
Total.....	\$2,390 97

Flagging Sidewalks and Fencing Vacant Lots in Front of City Property—	
Centre Market.....	\$200 72
Clinton Market.....	810 14
Twenty-sixth street, opposite Bellevue Hospital.....	73 50
Total.....	\$1,084 36

Free Floating Baths—	
Coal.....	\$40 50
Horse hire.....	217 24
Ice.....	78 75
Repairing baths.....	110 80
" range.....	25 18
Supplies.....	49 35
Towing baths.....	405 00
Unmooring baths.....	50 00
Wharfage.....	1,087 00
Total.....	\$2,063 82

Construction and Maintenance of Four New Public Baths—	
Inspection	\$208 00
Payments on contract	40,500 00
Total	\$40,708 00

Gansevoort Market, 1882—	
Security payment	\$263 10

Furnishing Pipes, North Brother's Island—	
Payments on contracts	\$18,577 16

Jefferson Market for 1882—	
Inspecting	\$204 00
Payments on contract	14,200 00
Total	\$14,404 00

Lamps and Gas and Electric Lighting—	
Gas examinations	\$312 00
Lamps	1,755 00
Lamp-globes	600 00
Lamp-irons	461 25
Lamp-posts	1,064 50
Lamps, repairing	331 65
Lamp-signs	427 50
Lettering globes	47 19
Lighting Armory, Battery E	83 55
" " Battery K	21 45
" " Seventh Regiment	778 65
" " Eighth Regiment	260 85
" " Ninth Regiment	391 95
" " Eleventh Regiment	118 35
" " Twelfth Regiment	153 45
" " Twenty-second Regiment	351 30
" " Sixty-ninth Regiment	190 80
" " Seventy-first Regiment	106 80
" " Bath, Battery	19 14
" " Bethune street	11 40
" " Duane street	15 30
" " Gansevoort street	11 04
" " Fifth street	21 75
" " Nineteenth street	17 55
" " Thirty-seventh street	21 03
" " Fifty-first street	13 11
" " One Hundred and Twelfth street	21 83
" " Brown-stone Building	85 65
" " City Hall	343 05
" " County Jail	388 80
" " Court, Civil, First District	30
" " " Second "	19 05
" " " Fourth "	13 80
" " " Fifth "	33 45
" " " Sixth "	4 05
" " " Eighth "	6 60
" " " Ninth "	2 03
" " Police, First District	178 35
" " " Second "	102 00
" " " Third "	72 75
" " " Fourth "	83 10
" " " Fifth "	22 50
" " Special Sessions	75
" " Court-house, Third District	209 55
" " " New "	1,109 37
" " Department of Public Works	188 40
" " " Taxes and Assessments	8 25
" " Engine-house, High Bridge	78 07
" " " Ninety-eighth street	209 50
" " Market, Catharine	34 05
" " " Centre	105 75
" " " Clinton	134 85
" " " Essex	65 40
" " " Fulton	700 35
" " " Tompkins	225 30
" " " Union	12 90
" " " Washington	181 80
" " Office Assessment Commission	6 30
" " " Corporation Attorney	65 40
" " " Receiver of Taxes	810 75
" " Photometrical Rooms	8 40
" " Rivington Street Yard	1 05
" " South Gate House	103 01
" " Streets, Central Gas-light Co.	15,658 56
" " " Harlem	26,758 91
" " " Manhattan	28,599 35
" " " Metropolitan	14,125 03
" " " New York	14,941 70
" " " N. Y. Mutual Gas-light Co.	3,424 87
" " " Northern	11,184 57
" " " Yonkers	2,242 50
" " " Brush Electric Illuminating Co.	4,246 90
" " " U. S. Electric Illuminating Co.	4,482 10
" " Pay-rolls	300 00
" " Rent of Photometrical Rooms	240 00
" " Traveling expenses	62 50
Total	\$139,640 06

Laying Croton Pipes for 1881—	
Maiden Lane, Broad Street, etc	\$694 99

Laying Croton Pipes for 1882—	
Jerome avenue	\$3,473 44
St. Nicholas avenue, etc	383 30
Total	\$3,856 74

Laying Croton Pipes for 1883—	
Boring rock	\$268 00
Cast-iron pipes	55,558 14
Hydrant boxes	300 00
Hydrants	2,997 50
Laying pipes, Jerome avenue, etc	4,743 12
" " St. Nicholas avenue, between One Hundred and Twenty-sixth and One Hundred and Twenty-seventh streets	376 15
" " West Broadway, between Canal and Chambers streets	2,392 06
" " Thirty-sixth street, between Broadway and Sixth avenue	339 10
" " Fifty-second street, between First avenue and East river	563 20
" " Eighty-second street, between Eighth and Ninth avenues	569 75
" " One Hundred and Forty-fourth street, between Brook and St. Ann's avenues	587 40
" " One Hundred and Forty-sixth street, between Tenth and St. Nicholas avenues	632 80
" " One Hundred and Forty-ninth, One Hundred and Forty-fifth, One Hundred and Sixty-third streets, etc	5,643 85
" " One Hundred and Fifty-fourth street, between Tenth and St. Nicholas avenues	607 70
" " One Hundred and Fifty-fifth street, between Courtland and Elton avenues	433 50

Laying Croton Pipes for 1883—	
Pay-rolls	\$3,875 50
Repairing gas-mains	1,376 33
Replacing taps	10 30
Stop-cock boxes, covers, etc	1,015 00
Stop-cocks	570 00
Traveling expenses, etc	69 12
Total	\$82,928 52

Public Buildings—Construction and Repairs—	
Armory, Eleventh Regiment	\$31 54
" " Twenty-second Regiment	65 96
" " Sixty-ninth Regiment	76 55
Brown-stone Building	870 37
Bureau Repairs and Supplies	394 33
City Hall	9,121 53
City Prison	732 89
County Jail	286 18
Court, Civil, First District	12 60
" " Second District	11 31
" " Fifth District	42 10
Court, Police, First District	92 58
" " Third District	163 73
" " Fourth District	25 20
" " Fifth District	82 95
Court-house, Third District	54 02
" " Seventh District	14 07
" " New	1,825 56
Hall of Records	92 06
Department of Taxes and Assessments	440 29
Market, Catharine	158 40
" " Center	39 70
" " Clinton	191 92
" " Fulton	522 80
" " Tompkins	31 89
" " Washington	155 06
No. 49 Beekman street	93 48
No. 31 Chambers street	1,206 66
No. 5 Duane street	154 63
Twenty-fourth street Pipe Yard	43 86
Pay-rolls	500 00
Total	\$17,594 22

Public Drinking Hydrants—	
Pay-rolls	\$234 00
Repairing hydrants	470 00
Traveling expenses	15 30
Total	\$719 30

Removing Obstructions in Streets and Avenues—	
Pay-rolls	\$182 00
Trucking and labor	706 40
Total	\$888 40

Repairing and Renewal of Pipes, Stop-cocks, etc.—	
Cement	\$15 00
Coal	68 25
Horse hire	180 00
Hydrant boxes	275 00
" cups, etc	126 00
Hydrants	469 80
Ice	23 25
Lead	225 00
Oil	132 75
Pay-rolls	34,855 75
Repairing hydrants	375 00
" roofs	106 07
" stop-cocks	173 53
Tapping cocks	1,987 50
Traveling expenses	44 75
Wood	55 00
Total	\$39,112 65

Repairs and Renewal of Pavements—	
Bridge stone	\$891 00
Horse keeping	182 10
Pay-rolls	49,838 91
Rent of Yard	100 00
Repairing pavements	10 00
" tools	444 30
" wagon	15 42
Sand	3,025 00
Total	\$54,506 73

Repaving Streets and Avenues for 1882—	
Eleventh avenue, between Forty-sixth and Fifty-second streets	\$1,005 65

Repaving Streets and Avenues—	
Christopher street, between Grand and Houston streets	\$10,222 33
Division street, between Bowery and Norfolk street	7,962 07
Morton street, between Bleecker and West streets	13,021 56
Thirteenth street, between Sixth and Greenwich avenues	8,304 97
Fifth avenue, between Fifty-eighth and Fifty-ninth streets	2,334 77
Tenth avenue, between Fourteenth and Twenty-second streets	26,326 13
Traveling expenses	21 11
Total	\$68,192 94

Roads, Streets, and Avenues, Unpaved—Maintenance and Sprinkling—	
Broken stone	\$499 10
Filling	540 00
Horse keeping	99 00
Pay-rolls	4,134 99
Repairing tools	131 75
Total	\$5,404 84

Sewers—Repairing and Cleaning—	
Basin heads	\$440 00
Bleeding poles	25 50
Brick and cement	325 25
Correcting maps	110 00
Inspectors bridges	10 00
Manhole covers	236 77
Pay-rolls	10,632 59
Removing basin heads	25 00
Repairing basins	407 67
Repairing sewers	5,273 42
Supplies	19 80
Trap stones	41 30
Traveling expenses	448 44
Use of horse and wagon	75 00
Total	\$18,070 74

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

Tape line.....	\$8 50
Supplies for and Cleaning Public Offices—	
Armory, 2d Battery.....	\$94 50
“ 8th Regiment.....	98 10
“ 9th “.....	24 00
“ 11th “.....	6 00
“ 12th “.....	113 25
“ 22d “.....	82 40
“ 69th “.....	23 00
“ 71st “.....	169 61
Board of Aldermen.....	5,267 51
“ Police Justices.....	17 50
Brown-stone Building.....	777 56
Bureau Repairs and Supplies.....	1,930 63
City Hall.....	806 12
City Prison.....	185 24
First District Civil Court.....	335 04
Second “.....	51 87
Third “.....	14 92
Fourth “.....	9 87
Fifth “.....	68 16
Sixth “.....	105 26
Eighth “.....	79 94
Ninth “.....	28 46
Tenth “.....	116 94
First District Police Court.....	19 75
Third “.....	171 46
Fifth “.....	146 03
Sixth “.....	59 17
Court of Special Sessions.....	58 50
Superior Court.....	99 70
Supreme Court.....	529 66
New Court-house.....	2,135 51
Third District Court-house.....	179 50
Seventh District Court-house.....	218 63
Department of Finance.....	39 50
Department of Public Works.....	693 72
Department of Taxes and Assessments.....	338 34
Gansevoort Street Yard.....	5 25
Office of Assessment Commission.....	39 61
“ Collector of Arrears of Personal Taxes.....	62 83
“ Commissioners of Accounts.....	2 50
“ Corporation Attorney.....	60 44
“ Corporation Counsel.....	242 21
“ County Clerk.....	99 86
“ District Attorney.....	213 58
“ Mayor.....	3,499 00
“ Public Administrator.....	11 50
“ Register.....	126 11
Pay-roll.....	13,782 50
Rivington Street Yard.....	16 50
Total.....	\$33,347 24

Water Supply for the Twenty-fourth Ward—

Pay-rolls.....	\$237 00
Traveling expenses.....	21 85
Water.....	918 96
Total.....	\$1,177 81

Washington Market—

Architect services.....	\$919 50
Pay-rolls.....	204 00
Work on contract.....	63,000 00
Total.....	\$64,123 50

Wells and Pumps, Repairing and Cleaning—

Filling well.....	\$19 95
Repairing pumps.....	126 30
Total.....	\$146 25

RECAPITULATION OF APPROPRIATIONS.

Aqueduct Repairs, Maintenance, etc.....	\$59,268 64
Aqueduct Repairs, Maintenance, etc.—Salaries.....	6,956 96
Boulevard, Roads and Avenues—Maintenance.....	20,161 06
Boulevard, Roads and Avenues—Maintenance—Salaries.....	500 00
Construction of Four New Public Baths.....	40,708 00
Contingencies—Department of Public Works.....	2,390 97
Flagging Sidewalks and Fencing Vacant Lots, etc.....	1,084 36
Free Floating Baths.....	2,063 82
Free Floating Baths—Salaries.....	1,938 50
Furnishing Pipe, North Brothers' Island.....	18,577 16
Gansevoort Market for 1882.....	263 10
Jefferson Market for 1882.....	14,404 00
Lamps and Gas and Electric Lighting.....	139,640 06
Lamps and Gas and Electric Lighting—Salaries.....	1,447 98
Laying Croton Pipes for 1881.....	694 99
Laying Croton Pipes for 1882.....	3,856 74
Laying Croton Pipes.....	82,928 52
Laying Croton Pipes—Salaries.....	2,868 32
Public Buildings—Construction and Repairs.....	17,594 22
Public Drinking Hydrants.....	719 30
Removing Obstructions in Streets and Avenues.....	888 40
Removing Obstructions in Streets and Avenues—Salaries.....	863 00
Repairing and Renewal of Pipes, Stop-cocks, etc.....	39,112 65
Repairing and Renewal of Pipes, Stop-cocks, etc—Salaries.....	19,069 05
Repairs and Renewal of Pavements, etc.....	54,506 73
Repairs and Renewal of Pavements, etc—Salaries.....	1,333 50
Repaving Streets and Avenues.....	68,192 94
Repaving Streets and Avenues—Salaries.....	2,964 32
Repaving Streets and Avenues for 1882.....	1,005 65
Roads, Streets and Avenues Unpaved, etc.....	5,404 84
Salaries—Department of Public Works.....	20,802 46
Sewers—Repairing and Cleaning.....	18,070 74
Sewers—Repairing and Cleaning—Salaries.....	2,215 75
Sewerage System—Salaries.....	3,207 53
Street Improvement for Surveying, etc.....	8 50
Supplies for and Cleaning Public Offices.....	33,347 24
Supplies for and Cleaning Public Offices—Salaries.....	5,790 99
Surveys, Maps, etc., for Street Openings—Salaries.....	4,050 03
Supplying Water to Shipping, etc.—Salaries.....	2,574 50
Washington Market.....	64,123 50
Water Supply for the Twenty-fourth Ward.....	1,177 81
Wells and Pumps—Repairing and Cleaning.....	146 25
Total appropriations.....	\$766,923 08

FUNDS.

CROTON WATER FUND.

Architect fees.....	\$700 00
Binding evidence.....	196 17
Coal.....	228 00
Commissioner's fees.....	10,470 00
Drawing implements.....	238 95
Damage for diverting water.....	21,991 66

Drill supplies.....	\$1,812 43
Gate in towers.....	1,975 00
Horse keeping.....	590 00
Land.....	17,912 72
Laying conduit pipe.....	120,202 05
Office supplies.....	176 93
Paint and oil.....	63 78
Pay-rolls.....	25,212 73
Printing evidence.....	595 83
Professional services.....	12,068 00
Rent of mill seat.....	300 00
Rent of office.....	37 50
Repairing drills.....	1,572 70
Repairing harness.....	160 73
Repairing retaining wall.....	1,028 25
Reservoir, Bronx river.....	18,982 89
Reservoir, Rye ponds.....	7,905 11
Right of way and damage.....	7,410 00
Stop-cocks, hydrants, etc.....	9,306 45
Surveying instruments.....	1,206 25
Tools.....	104 69
Traveling expenses.....	1,742 39

Total.....\$264,191 21

RESTORING AND REPAVING.

Pay-rolls.....	\$1,869 00
Restoring pavement, etc.....	6,823 00
Sand.....	89 60

Total.....\$8,781 60

STREET IMPROVEMENT FUND.

Curbing and Flagging—	
One Hundred and Seventeenth street, between Fifth and Sixth avenues.....	\$239 00
One Hundred and Twenty-second street, between Seventh and Eighth avenues.....	193 75
One Hundred and Fifty-third street, between Tenth and St. Nicholas avenues.....	729 68
Fencing—	
North side Fifty-seventh street, between Ninth and Tenth avenues.....	\$23 68
North side Ninety-sixth street, between Boulevard and Riverside Drive.....	385 44
Between Ninety-ninth and One Hundredth streets, and between Eighth and Ninth avenues.....	800 88
Flagging—	
Avenue A, between Seventy-first and Seventy-third streets.....	\$964 41
East side Avenue A, between Sixtieth and Sixty-fourth streets.....	660 81
East side Avenue A, between Seventy-sixth and Eightieth streets.....	986 18
West side First avenue, between Fifty-sixth and Sixty-fourth streets.....	992 34
West side Second avenue, between Seventy-sixth and Seventy-seventh streets.....	774 41
West side Second avenue, between Ninety-fifth and Ninety-sixth streets.....	467 87
West side Fifth avenue, between One Hundred and Second and One Hundred and Third streets.....	138 52
East side Fifth avenue, between Seventy-second and Eighty-sixth streets.....	627 00
East side Tenth avenue, between Fifty-eighth and Sixtieth streets.....	836 42
East side Eleventh avenue, between Fifty-fifth and Fifty-eighth streets.....	960 64
North side Sixty-third street, between Second and Third avenues.....	519 89
North side Ninety-eighth street, between Eighth and Ninth avenues.....	200 00
North side Ninety-eighth street, between Ninth avenue and Boulevard.....	281 25

8,409 74

Filling—	
Between Eighth and Ninth avenues, and between One Hundred and Forty-third and One Hundred and Fifty-fifth streets.....	4,522 00

Paving—	
Fourth avenue, between One Hundred and Fourth and One Hundred and Sixteenth streets.....	\$32,143 75
Fourth avenue, between One Hundred and Sixteenth and One Hundred and Twenty-fourth streets.....	22,919 81
Tenth avenue, between One Hundred and Thirtieth and Manhattan streets.....	11,725 75
Forty-fourth street, between Eleventh and Twelfth avenues.....	270 49
Sixty-first street, between Tenth and Eleventh avenues.....	4,451 78
Sixty-first street, between Avenue A and ninety-six feet east.....	648 11
Seventieth street, between Ninth avenue and Boulevard.....	4,232 70
Seventieth street, between First and Second avenues.....	6,412 50
Seventy-first street, between Avenue A and Second avenue.....	5,650 50
Seventy-third street, between First and Third avenues.....	10,005 02
Seventy-eighth street, between Ninth avenue and Boulevard.....	8,807 85
Ninety-seventh street, between Second and Third avenues.....	4,904 65
One Hundred and Second street, between First and Third avenues.....	5,272 12
One Hundred and Sixth street, between Third and Lexington avenues.....	290 40
One Hundred and Seventh street, between First and Third avenues.....	433 30
One Hundred and Nineteenth street, between Fourth and Sixth avenues.....	11,006 31
One Hundred and Twentieth street, between Third and Sixth avenues.....	14,329 00
One Hundred and Twenty-fourth street, between Eighth and St. Nicholas avenues.....	2,254 27
One Hundred and Twenty-seventh street, between Sixth and Seventh avenues.....	265 10
One Hundred and Twenty-eighth street, between Seventh and Eighth avenues.....	5,437 73
One Hundred and Twenty-ninth street, between Boulevard and Twelfth avenue.....	3,995 79
One Hundred and Thirtieth street, between Third and Fourth avenues.....	4,318 14
One Hundred and Thirty-third street, between Broadway and Boulevard.....	907 57

160,382 64

Receiving Basins—	
Lexington avenue, southwest corners One Hundred and Twenty-eighth and One Hundred and Twenty-ninth streets.....	\$401 30
Madison avenue, northwest corner Eightieth street.....	498 25
West Side avenue, between Seventy-seventh and Eighty-first streets.....	695 10
First avenue, between Ninety-ninth and One Hundred and Ninth streets.....	361 80
Fourth avenue, northeast corner One Hundred and Seventh street.....	155 60
Between One Hundred and Sixteenth and One Hundred and Twenty-second streets, Lexington avenue, etc.....	1,751 60

3,863 65

Regulating, Grading, etc.—	
Sixty-seventh street, between Avenue A and Third avenue.....	\$7,271 60
Seventy-third street, between Tenth avenue and 100 feet east.....	150 22
Eighty-third street, between Boulevard and Riverside Drive.....	2,343 17
Eighty-eighth street, between Eighth and Tenth avenues.....	5,195 00
Eighty-ninth street, between Eighth and Tenth avenues.....	9,605 74
Ninety-fifth street, between Tenth avenue and Riverside Drive.....	19,601 75
Ninety-ninth street, between Fourth and Fifth avenues.....	1,185 80
One Hundredth street, between Second and Third avenues.....	2,128 22
One Hundredth street, between Third and Fourth avenues.....	4,900 00
One Hundredth street, between Boulevard and Riverside Drive.....	3,199 70
One Hundred and First street, between Third and Fourth avenues.....	3,570 00
One Hundred and First street, between Fourth and Fifth avenues.....	2,018 10
One Hundred and Twelfth street, between Sixth and Madison avenues.....	1,667 96
One Hundred and Eleventh street, between Sixth and Tenth avenues.....	2,128 00

Regulating, Grading, etc.—

One Hundred and Seventeenth street, between Fourth and Fifth avenues	\$1,260 00
One Hundred and Eighteenth street, between Fourth and Sixth avenues	1,127 00
One Hundred and Twenty-second street, between Fourth and Madison avenues	3,570 00
One Hundred and Twenty-third street between Ninth and St. Nicholas avenue	2,473 07
One Hundred and Twenty-seventh street, between Eighth and St. Nicholas avenues	985 21
One Hundred and Thirty-sixth street, between Fifth and Eighth avenues	8,584 30
One Hundred and Thirty-seventh street, between Fifth and Seventh avenue	1,134 00
One Hundred and Thirty-eighth street, between Sixth and Eighth avenues	2,495 50
One Hundred and Forty-first street, between Tenth and St. Nicholas avenues	5,448 40
One Hundred and Fifty-first street, between Boulevard and St. Nicholas avenue	2,217 60
One Hundred and Fifty-third street, between Seventh avenue and first new avenue west	1,050 00
One Hundred and Fifty-eighth street, between Kingsbridge road and Public Drive	1,060 50

\$96,370 84

Sewers—

Avenue A, between Tenth and Eleventh streets	\$41 70
Madison avenue, between Fifty-seventh and Fifty-ninth streets	5,132 40
Lexington avenue, between Ninety-first and Ninety-second streets	3,328 26
New avenue, between One Hundredth and One Hundred and Fourth street	1,164 20
Riverside avenue, between Seventy-sixth and Ninety-second streets	11,336 71
Riverside avenue, between Ninety-second and One Hundred and Sixth streets	2,997 40
West End avenue, between Sixty-fifth and Sixty-sixth street	1,100 58
West End avenue, between Seventy-sixth and Eighty-ninth streets	9,854 67
Second avenue, between Eighth and Ninth streets	679 70
Ninth avenue, between Eighty-first and Eighty-third streets	1,120 00
Ninth avenue, between Eighty-ninth and Ninety-second streets	2,284 38
Tenth avenue, between One Hundred and Sixteenth and One Hundred and Eighteenth streets	89 40
Bank street, between West street and Hudson river	2,217 10
Thompson street, between West Third and West Fourth streets	53 10
Seventh street, between Avenues C and D	4,042 00
Twenty-ninth street, between First avenue and East river	3,088 88
Fifty-sixth street, between Fifth and Sixth avenues	5,050 70
Seventy-first street, between Avenue A and East river	185 70
Seventy-third street, between Avenue A and First avenue	2,677 51
Nineteenth street, between Eighth and Ninth avenues	7,958 35
Ninety-first street, between Fifth and Madison avenues	3,237 50
Ninety-fourth street, between Ninth and Tenth avenues	230 10
Ninety-fifth street, between Eighth and Ninth avenues	3,574 50
One Hundred and First street, between Riverside and West End avenues	108 90
One Hundred and Fourth street, between Eighth and Ninth avenues	2,170 42
One Hundred and Eleventh street, between Seventh and Eighth avenues	228 00
One Hundred and Fourteenth street, between Seventh and Eighth avenues	1,772 45
One Hundred and Twenty-sixth street, between Ninth and St. Nicholas avenues	109 80
One Hundred and Thirty-fifth street, between Seventh avenue and Summit West	60 00
One Hundred and Forty-fourth street, between Eighth avenue and New Avenue, West	5,945 45
One Hundred and Forty-seventh street, between Eighth avenue and New Avenue, West	681 31
One Hundred and Fifty-eighth street at Hudson river, etc.	2,841 44

85,342 01

10,554 03

2,005 50

9,504 00

8,928 00

6,843 54

Total \$399,098 38

STREET IMPROVEMENT ABOVE FIFTY-NINTH STREET.

Morningside Avenue, East—	
Pay-rolls	\$688 66
Morningside Avenue, West—	
Pay-rolls	\$453 34
Regulating, Grading, etc	8,474 57
Total	\$9,927 91
Total	\$9,916 57

Water Meter Fund, No. 2—	
Furnishing meters	\$6,656 58
Setting meters	1,758 98
Total	\$8,415 56

RECAPITULATION OF FUNDS.

Croton water fund	\$264,191 21
Restoring and repaving	8,781 60
Street improvement fund	399,098 38
Street improvements above Fifty-ninth street	9,916 57
Water meter fund, No. 2	8,415 56

Total \$690,103 32

GENERAL SUMMARY.

Appropriations	\$746,698 60
“ for 1881	694 99
“ for 1882	19,529 49
	\$766,923 08
Funds, etc.	690,103 32
Total amount for quarter	\$1,457,026 40

Document “C.”

REVENUE AND COST OF WATER SUPPLY FROM 1842 TO 1884.

Continuation of a statement of Document C, in the Fourth Quarterly Report of 1879, page 42-44, and adding the subsequent collections on that year, so as to correct the amounts of said year; the following are the—

Revenues from Croton Water, from its Introduction into the City in 1842.

Total amount collected to January 1, 1879	\$32,001,535 73
From January 1, 1879 to January 1, 1880	1,620,331 25
“ 1880 “ 1881	1,560,598 57
“ 1881 “ 1882	1,510,791 77
“ 1882 “ 1883	1,647,183 25
“ 1883 “ 1884	1,869,518 90

Total amount collected to date by Department. \$40,209,969 53

Arrears of Croton Water Rents turned over for Collection to the Clerk of Arrears, being Liens on the Respective Property.

Total arrears (liens)	\$1,407,512 88
For the year ending April 30, 1880	76,043 09
“ “ 1881	69,633 70
“ “ 1882	93,552 56
“ “ 1883	100,743 81
Total revenues to January 1, 1884	\$1,747,486 04

Total revenues to January 1, 1884 \$41,957,455 57

Cost of Croton Water Works.

Total cost to January 1, 1880	\$36,430,480 72
Cost during the year 1880	1,166,831 33
“ “ 1881	1,175,891 45
“ “ 1882	1,704,108 22
“ “ 1883	1,679,111 66
	42,156,423 38

Excess of cost over revenue \$198,967 81

Document “D.”

Contracts made during the Three Months ending December 31, 1883.

DATE.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.
Oct. 1	Sewers and Receiving-basins			
	Sewer in Bethune street, between Washington street and Hudson river	Edward Bradburn, 437 E. 85th street	Leonard W. Johnson, 414 W. 34th street... Patrick Sheehy, 251 E. 83d street...	\$11,193 95
“ 1	Receiving-basins on west side Eighth avenue, between Seventy-seventh and Eighty-first streets	John Phelan, 203 W. 124th street	Stephen S. Willis, 921 st. and 1st ave... N. Hubbard Miller, 101 Nassau street...	815 02
“ 3	Sewer in One Hundred and Fourteenth street, between Seventh and Eighth avenues	Joseph Moore, 180 E. 88th street	John McQuade, 132 Lexington ave... Thos. McQuade, 130 E. 89th street...	7,076 25
“ 3	Sewer in Spring street, between Broadway and Mercer street	Joseph A. Devlin, 1211 Park avenue	Patrick Sheehy, 251 E. 83d street... Chas. Jones, 257 Alexander ave...	894 00
“ 3	Sewer in Third avenue, east side, between Eighty-eighth and Eighty-ninth streets	John S. Masterson, 110 W. 130th street	Peter Masterson, 233 W. 56th street... Patrick Sheehy, 251 E. 83d street...	2,030 00
“ 20	Sewer in Chatham street, between New York and Brooklyn Bridge and Frankfort street, with alterations and improvement to sewer in Frankfort street, between Chatham and William streets	Lawrence Rock, 459 W. 40th street	Henry Quinn, 442 W. 42d street... Patrick Reilly, 324 E. 56th street...	1,649 00
“ 29	Sewer in One Hundred and Thirty-fourth street, between Eighth avenue and Avenue St. Nicholas	Denis McGrath, 35 E. 104th street	Thomas Moanahan, 1657 Fourth avenue... James Slattery, 218 W. 57th street...	1,053 50
“ 29	Sewer in One Hundred and Twenty-eighth street, between Eighth avenue and Avenue St. Nicholas	Denis McGrath, 35 E. 104th street	Thomas Moanahan, 1657 Fourth avenue... James Slattery, 218 W. 57th street...	1,275 00
Nov. 13	Sewer in One Hundred and Seventh street, between Third and Lexington avenues	Cornelius Smith, 418 E. 75th street	C. C. Ellis, 441 Ninth avenue... John Murphy, 235 Lexington ave...	3,260 00
“ 13	Sewer in Fourth avenue, east side, between Eighty-third and Eighty-fourth streets	Cornelius Smith, 418 E. 75th street	C. C. Ellis, 441 Ninth avenue... John Murphy, 235 Lexington ave...	1,232 00
“ 13	Sewer in One Hundred and Thirty-fifth street, between Eighth avenue and Avenue St. Nicholas	M. J. Kane, 120 E. 70th street	Michael Finn, 2 Sutton Place... James Quinn, 412 E. 79th street...	1,287 50
“ 15	Sewer in Fifth avenue, east side, between Thirtieth and Fourteenth streets	John McKim, 326 E. 58th street	James Williams, 442 E. 57th street... Charles H. Field, 957 Madison avenue...	770 90
“ 22	Sewer in Eighth avenue, east side, between One Hundred and Forty-seventh and One Hundred and Forty-ninth streets	John McKim, 326 E. 58th street	James Williams, 442 E. 57th street... Charles H. Field, 957 Madison avenue...	1,972 35
“ 22	Sewer in One Hundred and Forty-first street, between Boulevard and Diagonal avenue	Patrick Reilly, 249 E. 53d street	William Kelly, 609 W. 47th street... James Williams, 442 E. 57th street...	2,035 95
Dec. 13	Sewer in Front street, between Broad and Whitehall streets	Joseph A. Devlin, 171 E. 62d street	John B. Devlin, 812 Lexington ave... Patrick Sheehy, 251 E. 83d street...	2,399 00
	Regulating, Grading, etc.			
Oct. 11	Regulating and grading One Hundredth street, from Fourth to Fifth avenue, and setting curb-stones and flagging sidewalks therein	Thomas E. Crimmins, 1037 Third avenue	Abraham Dowdney, 28 E. 75th street... James R. Green, 157 E. 75th street...	9,412 30
“ 29	Regulating and grading One Hundred and Forty-first street, from the west curb of Seventh avenue to the east curb of Eighth avenue, and setting curb-stones and flagging sidewalks therein	John B. Devlin, 812 Lexington avenue	John H. Mooney, 55 E. 86th street... Michael McGrath, 124 E. 63d street...	6,202 45
Nov. 13	Regulating and grading Fifty-third street from Tenth to Eleventh avenue, and setting curb and gutter stones and flagging sidewalks therein	J. D. Miner, 465 W. 47th street	Michael Cain, 668 Eighth avenue... William Hullivan, 347 W. 53d street...	15,925 00
“ 13	Flagging sidewalks four feet wide on One Hundred and Nineteenth street, from Seventh to Eighth avenue	Thos. Murray, 130th st. n. 10th ave.	Theo. H. Rohdenberg, 120th street, N. R... John Becker, 10th avenue & Manhattan street...	1,338 00
“ 22	Setting curb-stones and flagging sidewalks four feet wide on One Hundred and Seventy-fifth street, from Tenth avenue to Kingsbridge road	Bernard Mahon, 2333 Third avenue	Maurice B. Flynn, 230 E. 12th street... Andrew Low, 162 E. 70th street...	4,325 00
“ 22	Regulating and grading Sixty-fourth street, from First avenue to East river, and setting curb-stones and flagging sidewalks therein	John McKim & Son, 326 E. 58th street	James Williams, 442 E. 57th street... Charles H. Field, 957 Madison avenue...	16,666 00
“ 27	Regulating and grading One Hundred and Thirtieth street, from Tenth avenue to the Riverside Drive, and setting curb-stones and flagging sidewalks therein	Wm. E. Dean, 687 E. 134th street	Charles Jones, 257 Alexander ave... John J. Quinn, 66, 68, & 70 E. 123th street...	8,734 30
Dec. 8	Regulating and grading One Hundred and Fifty-seventh street, from Tenth avenue to Boulevard, and setting curb-stones and flagging sidewalks therein	Wm. E. Dean, 687 E. 134th street	Robert Prior, 204 E. 120th street... Jacob Ebling, 128th st. and 3d ave.	12,868 50
“ 8	Regulating and grading One Hundred and Sixty-fifth street, from Tenth to Eleventh avenue, and setting curb-stones and flagging sidewalks therein	Wm. E. Dean, 687 E. 134th street	Robert Prior, 204 E. 120th street... Jacob Ebling, 128th st. and 3d ave.	7,439 85
	Paving.			
Nov. 13	Paving with granite-block pavement the roadway of Eighty-ninth street, from Avenue A to B	Thomas Gearty, 135 E. 83d street	Timothy Dwyer, 406 E. 66th street... James Reilly, 1475 First avenue...	\$4,314 64
“ 27	Paving with granite-block pavement the roadway of Eighth avenue, from One Hundred and Twenty-fifth to One Hundred and Forty-fifth street	John G. Smith, 325 W. 48th street	Leonard W. Johnson, 414 W. 34th street... John F. Rothman, 437 W. 47th street...	67,764 00
“ 10	Paving with granite-block pavement the roadway of Seventieth street, from Ninth avenue to the Boulevard	W. A. Cumming, 5 Dey street	Alex. Milne, Foot of E. 29th st... David Babcock, 32 Broadway...	4,523 52

\$76,602 16

					Contracts Completed during the Three Months ending December 31, 1883.		
DATE.	NATURE AND LOCATION OF WORK.	CONTRACTOR.	SURETIES.	ESTIMATED COST.	DATE.	NATURE AND LOCATION OF WORK.	ESTIMATED COST.
Paving (under Chap. 476, Laws of 1875).					1883.		
July 17	Paving, with trap-block pavement, the car-way of Division street, from Bowery to Norfolk street.	Thomas Gearty, 135 E. 83d street.	Edward Reilly, 1402 Second avenue. Timothy Dwyer, 1402 Second avenue.	\$8,478 00	Oct. 2	Alteration and improvement to sewer in Fifty-sixth street, between Fifth and Sixth avenues, Paving One Hundred and Thirtieth street, from Third to Fourth avenue, with trap-block pavement.	\$6,306 27
Laying Water-mains.					" 2	Paving One Hundred and Thirtieth street, from Broadway to Boulevard, with granite-block pavement.	4,826 00
Nov. 10	Laying water-mains in West Broadway, between Canal and Chambers streets.	John Cornwell and John Cornwell, Jr., 304 E. 116th street.	P. M. Wilson, 85 Bank street. James Kay, 139 Washington Mkt.	\$2,972 80	" 6	Paving One Hundred and Second street, from First to Third avenue, with granite-block pavement.	1,028 98
Miscellaneous Contracts.					" 6	Setting curb-stones and flagging sidewalks, four feet wide, on Eighty-eighth street, from the west curb of Eighth avenue to the east curb of Tenth avenue.	8,781 70
Oct. 24	For furnishing the Department of Public Works with 1,600 gross tons, 2,240 lbs. to a ton, of egg size Lehigh and Wilkesbarre best Wilkesbarre Coal.	Samuel G. French, 111 Broadway.	Geo. W. Randall, 93 Chambers street. David B. Duncan, 111 Broadway.	\$7,884 60	" 6	Flagging sidewalks on the easterly sidewalk of Second avenue, between Ninety-fifth and Ninety-sixth streets, and on the westerly sidewalk of Second avenue, between Ninety-fifth and Ninety-seventh streets, where required.	6,123 27
Gas Contracts.					" 11	Setting curb-stones and paving, with granite-block pavement, the roadway of Fourth avenue, from One Hundred and Sixteenth to One Hundred and Twenty-fourth street.	517 44
Dec. 12	Furnishing and lighting, with illuminating gas, the public buildings, offices, etc., mentioned in contract, for the term of one year.	New York Gas-light Co., 157 Hester street.		\$14,000 00	" 11	Sewer in Second avenue, between Eighth and Ninth streets.	37,735 16
" 12	Furnishing and lighting, with illuminating gas, the public buildings, offices, etc., mentioned in contract, for the term of one year.	Manhattan Gas-light Co., Irving pl. and 15th st.		12,000 00	" 11	Sewer in Lexington avenue, between Ninety-first and Ninety-second streets.	930 87
" 18	Furnishing and lighting, with illuminating gas, the public buildings, offices, etc., mentioned in contract, for the term of one year.	Metropolitan Gas-light Co., 1547 Broadway.		5,500 00	" 11	Constructing receiving-basin on the northwest corner of Eighty-eighth street and Madison avenue.	3,829 23
" 12	Furnishing and lighting, with illuminating gas, the public buildings, offices, etc., mentioned in contract, for the term of one year.	Harlem Gas-light Co.		1,800 00	" 16	Sewer in Ninety-first street, between Fifth and Madison avenues.	667 55
					" 19	Alteration and improvement to sewer in Seventh street, between Avenues C and D.	4,126 23
					" 25	Paving Seventieth street, from First to Second avenue, with trap-block pavement.	4,808 58
					" 26	Paving One Hundred and Twenty-ninth street, from Boulevard to Twelfth avenue, with granite-block pavement.	6,927 56
					" 19	Paving Sixty-first street, from Avenue A to a point ninety-six feet easterly, with trap-block pavement.	4,203 41
					" 31	Sewer in Fortieth street, between Tenth avenue and Hudson river, with alteration and improvement to existing sewers.	783 99
					" 31	Extension of sewer in Forty-fourth street, and Forty-fifth street, at Hudson river, with alterations to existing sewers in Scurage District No. 2.	25,488 25
					Nov. 7	Receiving-basin on the northeast corner of One Hundred and Seventh street and Fourth avenue.	11,067 66
					" 7	Receiving-basins on the southwest corners of One Hundred and Twenty-eighth and One Hundred and Twenty-ninth streets and Lexington avenue.	202 63
					" 7	Sewer in Ninetieth street, north and south sides, between Eighth and Ninth avenues.	499 22
					" 7	Alteration and improvement to sewer in Bank street, between West street and Hudson river.	14,363 29
					" 8	That the roadway of One Hundred and Twentieth street, from the westerly crosswalk at Third avenue to the pavement heretofore laid at the intersection of Sixth avenue, be paved with granite-block pavement, where not already paved, except such parts of the intersection of Fourth avenue as lies within lines twelve feet east and west of curb-lines of said avenue, etc.	7,893 54
					" 8	Drain in One Hundred and Forty-seventh street, between Eighth avenue and First new avenue, west of Eighth avenue.	15,673 73
					" 8	That the vacant lots on the block of land bounded by the Eighth and Ninth avenues, and Ninety-ninth and One Hundredth streets, be fenced in.	906 18
					" 8	That the sidewalks of One Hundred and Fifty-third street, from the west curb of Avenue St. Nicholas to the east curb of Tenth avenue, be regulated and graded, curb-stones set, and flagged a space four feet wide, where not already done.	900 66
					" 8	That on all those parts of the sidewalks of First avenue, between Fifty-sixth and Sixty-fourth streets, and on the easterly side of First avenue, between Fifty-ninth and Sixtieth streets, and between Sixty-fourth and Sixty-fifth streets, where there is now only one four feet course of flagging, an additional course of flagging, four feet in width, be laid.	816 77
					" 8	That the sidewalk on Seventy-third street, from Tenth avenue to a distance one hundred feet east, be regulated and graded so as to lay an additional course of flagging four feet wide, and that said additional course be laid between the above-described limits, where not already done.	1,105 44
					" 8	That One Hundredth street, from the east curb of Third avenue to the west line of Second avenue, be regulated and graded, that the sidewalks be flagged a space four feet wide, where not heretofore flagged, and that curb be set.	157 32
					" 8	That Eighty-third street, from the west curb of the Boulevard to the east line of Riverside Drive, be regulated and graded, curb-stones set, and sidewalks flagged four feet wide, where not already done.	4,322 23
					" 8	That the sidewalk on the west side of Third avenue, from the north curb of One Hundred and Second street to the southerly curb of One Hundred and Third street, be regulated and graded so as to lay an additional course of four feet flagging, and that said additional course, between the above-described limits, be laid where not already done.	5,612 28
					" 12	That One Hundred and Twenty-third street, from the west curb of Avenue St. Nicholas to the east curb of Ninth avenue, be regulated, graded, curb-stones set, and sidewalks flagged a space four feet wide.	149 51
					" 19	That the roadway of Seventy-third street, from First to Third avenue, be paved with granite-block pavement, where not already paved, and that crosswalks be laid, where required, at the intersecting and terminating avenues.	3,717 54
					" 19	That the sidewalk on the north side of Sixty-third street, between Second and Third avenues, be flagged eight feet wide, where not already done.	10,848 13
					" 19	That on all those parts of the sidewalks on the easterly and westerly sides of Second avenue, between Seventy-sixth and Seventy-seventh streets, and on the southerly sidewalk of Seventy-seventh street, from Second avenue westerly about one hundred feet, and on the easterly sidewalk of Second avenue, between Eighty-second and Eighty-fourth streets, where there are now one four feet course of flagging, an additional course of flagging, four feet wide, be laid.	574 79
					" 28	Sewer in Twenty-ninth street between First avenue and East river.	861 94
					" 30	That One Hundred and Forty-first street, from the west curb of Eighth avenue to the east curb of Avenue St. Nicholas, be regulated, graded, curbed and flagged a space four feet wide, where not already done.	4,010 39
					" 30	That the vacant lots on the north side of Ninety-sixth street, between Riverside Drive and Boulevard and on the west side of the Boulevard from Ninety-sixth to Ninety-ninth street, be fenced in where not already done.	5,002 56
					" 30	Paving the roadway of Tenth avenue from the southerly crosswalk of Manhattan street to a line five feet north of and parallel with the north curb of One Hundred and Thirtieth street, etc.	434 26
					" 30	That One Hundred and Twenty-seventh street, from Eighth avenue to Avenue St. Nicholas, be regulated, graded, curbed and flagged a space four feet wide, where not already done.	12,860 00
					Dec. 1	That One Hundred and Thirty-sixth street, from Fifth to Eighth avenue, except between Sixth and Seventh avenues, be regulated, graded, curbed and sidewalks flagged a space four feet wide, where not already done.	1,112 81
					" 1	That Ninety-eighth street, from the west curb of Eighth avenue to the east curb of Tenth avenue, be regulated, graded, curbed and flagged a space four feet wide, where not already done.	13,376 88
					" 4	That the roadway of Seventy-eighth street, from Ninth avenue to Boulevard, be paved with trap-block pavement, and that crosswalks be laid where required at the intersecting and terminating avenues.	28,315 76
					" 4	Roadway of One Hundred and Nineteenth street, from a line twelve feet west of the west curb of Fourth avenue to the pavement heretofore laid at the intersection of Sixth avenue, be paved with trap-block pavement, etc.	9,703 39
					" 20	That on all those parts of the sidewalks on the easterly and westerly sides of Eleventh and Sixtieth streets, where there is now only one four feet course of flagging, an additional course of flagging four feet in width be laid.	12,178 59
					" 20	That the carriageway of Sixty-first street, from the crosswalk at the westerly intersection of Tenth avenue to the crosswalk at the easterly intersection or side of Eleventh avenue, be paved with Belgian or trap-block pavement.	919 11
					" 20	Receiving basin on the west side of Eighth avenue between Seventy-seventh and Eighty-first streets.	4,994 58
					" 20	That the roadway of Seventieth street, from Ninth avenue to the Boulevard, be paved with granite-block pavement, and that crosswalks be laid, where required, at the terminating avenues.	953 90
					" 21	Sewer in Madison avenue between Eighty-sixth and Eighty-seventh streets.	4,620 00
					" 21	That One Hundred and Forty-fifth street, from the west curb of Eighth avenue to the east curb of Avenue St. Nicholas, be regulated, graded, curbed and flagged a space four feet wide, where not already done.	4,037 38
					" 21	That on all those parts of the sidewalk on both sides of Eleventh avenue, between Fifty-fifth and Fifty-eighth streets, where there is now only one four feet course of flagging, an additional course of flagging, four feet in width, be laid.	4,192 56
					Oct. 2	Paving Morton street, from Bleeker to West street, with granite-block pavement.	1,074 69
					" 3	Furnishing cast-iron water-pipe branches and special castings.	2,262 17
					" 3	Paving Fifth avenue, from Fifty-eighth to Fifty-ninth street, with macadamized pavement.	13,634 97
					" 13	Laying Croton-mains in Jerome avenue, from Sedgwick avenue to 8,000 feet north.	53,074 95
					" 15	Paving Chrystie street, from Grand to Houston street, with trap-block pavement.	2,334 76
					" 18	Paving Tenth avenue, from Fourteenth to Twenty-third street, with granite-block pavement.	10,729 54
					" 20	Furnishing cast-iron water-pipes, branches and special castings.	21,890 68
					Nov. 10	Paving Thirtieth street, from Sixth to Greenwich avenue, with trap-block pavement.	27,589 01
					Dec. 5	Laying Croton-mains in Jerome avenue, from Croton avenue to a point 7,500 feet south.	21,326 75
					" 6	Furnishing cast-iron water-pipes, branches and special castings.	8,779 54
					" 8	Laying Croton-mains in West Broadway between Canal and Chambers streets.	15,699 72
					" 8	Paving Division street, from Bowery to Norfolk street, with trap-block pavement.	50,093 83
					" 11	Furnishing, delivering and putting in position, in tower at Kensico dam, with necessary rods, frames, column, bases, etc.	2,517 96
					" 14	Furnishing cast-iron stop-cocks, stop-valves, and covers and hydrants.	8,503 70
					" 20	Furnishing materials, building and putting up, one pumping engine with necessary foundations, water and steam connections, etc., at engine-house, High Bridge.	1,975 00
					" 25	Furnishing materials and building four free float ng baths.	23,764 52
					" 25	Furnishing materials and building four free float ng baths.	22,500 00
					" 25	Furnishing materials and building four free float ng baths.	40,160 00

RECAPITULATION.

1	Sewer Contracts.	\$37,006 42
9	Regulating and Grading Contracts.	82,420 40
3	Paving Contracts.	76,602 16
1	Paving Contract (under chapter 476, Laws of 1875).	8,478 00
1	Water-main Contract.	2,972 80
1	Miscellaneous Contract.	7,884 60
1	Regulating and Grading.	6,149 80
9	Flagging.	5,385 36
2	Fencing.	1,359 20
4	Sewers and Receiving-basins.	2,550 81
4	Gas Contracts.	33,300 00
50	Contracts.	\$264,109 55

RECAPITULATION.

13	Sewer contracts.	\$90,079 35
9	Regulating and grading contracts.	71,775 89
14	Paving contracts.	135,165 22
5	Paving contracts under chap. 476, Laws of 1875.	71,571 52
9	Flagging contracts.	6,177 01
2	Fencing contracts.	1,334 92
4	Receiving-basin contracts.	2,323 30
7	Miscellaneous contracts.	221,895 04
3	Water-main contracts.	4,108 36
66	contracts.	\$640,380 61

Document "E."

DEPARTMENT OF PUBLIC WORKS,
OFFICE OF CHIEF ENGINEER, 31 CHAMBERS STREET, ROOM 10,
NEW YORK, January 25, 1884.

Hon. HUBERT O. THOMPSON, *Commissioner of Public Works*:

SIR—I beg leave to submit the following report for the quarter ending December 31, 1883:

STATEMENT OF EXPENDITURES FOR THE QUARTER ENDING DECEMBER 31, 1883.

Aqueduct—Repairs, Maintenance and Strengthening.....	\$70,476 66
Aqueduct—Repairs, Maintenance and Strengthening—Salaries.....	5,209 47
Croton Water Fund.....	285,713 80
Contingencies—Department of Public Works.....	758 10
Furnishing pipes, North Brother Island.....	18,577 16
Laying Croton Pipes.....	90,136 63
Laying Croton Pipes—Salaries.....	4,471 98
Repairing and Renewal of Pipes, Stop-cocks, etc.....	4,256 90
Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries.....	12,136 57
Shipping and Building—Salaries.....	2,574 50
Water Supply for Twenty-fourth Ward.....	1,258 81
Water Meter Fund No. 2.....	8,865 56
Total.....	\$504,436 14

SUMMARY, 1883.

Aqueduct—Repairs, Maintenance and Strengthening.....	\$196,961 47
Aqueduct—Repairs, Maintenance and Strengthening—“Salaries”.....	22,953 31
Bridge across Fourth avenue at Ninety-seventh street.....	5,875 00
Croton Water Fund.....	991,516 18
Contingencies—Department of Public Works.....	940 65
Furnishing pipe North Brother Island.....	18,577 16
Forty-second Street Reservoir—Removal of Pipes.....	82 37
Laying Croton Pipes.....	239,930 04
Laying Croton Pipes—“Salaries”.....	14,392 28
Repairing and Renewal of Pipes, Stop-cocks, etc.....	23,007 06
Repairing and Renewal of Pipes, Stop-cocks, etc.—“Salaries”.....	44,755 33
Supply Water—Shipping and Building.....	10,489 00
Water Supply Twenty-fourth Ward.....	5,412 16
Water Meter Fund No. 2.....	23,230 47
Total.....	\$1,598,122 48

Contracts Made, Completed, and Unfinished, 1883.

WORK.	CONTRACTOR.	DATE OF CONTRACT.	ESTIMATED COS.	DATE OF FINAL ESTIMATE.	AMOUNT OF FINAL ESTIMATE.	AMOUNT PAID IN 1883.
Building reservoir at Kensico.....	George W. Flower.....	Aug. 31, 1880	\$199,568 00	.....	.....	\$63,453 28
Furnishing and laying 48-inch conduit pipe, from Woodlawn to Bronxville.....	H. Stollmeyer.....	Dec. 10, "	260,657 50	Jan. 12, 1883	\$293,201 50	18,431 52
Laying mains in Jerome avenue, between Croton avenue and Williamsbridge road.....	Ed. Bradburn.....	Sept. 12, 1881	19,452 40	.....	.....	5,635 64
Furnishing and laying 48-inch conduit pipe, between Kensico and Hartzdale.....	R. D. Wood & Co.....	" 14, "	484,757 00	Aug. 1, 1883	515,126 87	128,615 44
Laying 36-inch main on Fifth avenue, between Fortieth and Forty-second streets.....	J. Cornwell, Jr.....	" 14, "	2,699 50	July 6, "	1,785 06	11 12
Laying mains in Jerome avenue.....	Jas. Everard.....	Mar. 3, 1882	19,732 00	Dec. 3, "	15,699 72	11,490 10
Laying mains in Twenty-second and Beaver streets, etc.....	Jas. Everard.....	" 3, "	19,898 00	June 1, "	20,478 16	4,964 28
Building bridge at Forty-first street and Fourth avenue.....	Brown & Whitney.....	June 23, "	2,950 00	.....	.....	.....
Building bridge at Ninety-seventh street and Fourth avenue.....	Post & McCord.....	July 21, "	11,950 00	Feb. 20, 1883	11,750 00	5,875 00
Furnishing and laying 48-inch conduit pipe, from Hartzdale to Tuckahoe.....	Thos. E. Crimmins.....	May 17, "	465,162 00	.....	.....	285,650 81
Building reservoir at Rye Ponds.....	L. P. Hendrick.....	Oct. 28, "	35,914 40	.....	.....	21,675 38
Furnishing and laying 48-inch and 36-inch conduit pipes, from Woodlawn to Williamsbridge road.....	Jas. Baird.....	Jan. 16, 1883	297,999 00	.....	.....	93,344 49
Laying 48-inch conduit pipe from Bronxville to Tuckahoe.....	F. Stollmeyer.....	" 17, "	37,052 00	Dec. 11, 1883	41,702 55	39,617 42
Laying mains in Alexander avenue, etc.....	J. Cornwell & J. Cornwell, Jr.....	Mar. 1, "	16,755 00	Aug. 16, "	14,351 06	13,633 51
Laying mains in Jerome avenue.....	Thos. E. Crimmins.....	" 5, "	24,011 00	Oct. 13, "	21,890 68	20,796 15
Furnishing and delivering 36-inch water-pipe, etc.....	Warren Foundry & Machine Co.....	" 24, "	52,770 00	" 9, "	53,074 96	53,074 96
Furnishing and delivering 12-inch and 6-inch water-pipes, etc.....	Warren Foundry & Machine Co.....	" 24, "	56,580 00	Dec. 3, "	50,093 83	50,093 83
Laying mains in One Hundred and Forty-ninth street, etc.....	A. Forsyth.....	June 5, "	15,261 00	.....	.....	10,336 21
Furnishing and delivering 6-inch water-pipe, etc.....	Theo. Sturges.....	" 22, "	27,350 00	Oct. 19, "	21,326 75	21,326 75
Furnishing, delivering, and laying 6-inch and 4-inch pipes to North Brother Island.....	Wm. F. Croft.....	July 3, "	30,910 25	.....	.....	18,577 16
Furnishing and delivering stop-cocks, etc.....	C. C. Field.....	Jan. 4, "	23,764 50	Dec. 7, 1883	23,764 50	23,764 50
Furnishing and delivering stop-cocks, etc.....	C. C. Field.....	Aug. 7, "	2,352 50	Sept. 4, "	2,352 50	2,352 50
Furnishing and delivering gates at Kensico Dam.....	Julius Jonson.....	" 8, "	1,975 00	Dec. 7, "	1,975 00	1,975 00
Furnishing coal at High Bridge and Ninety-eighth street.....	Samuel G. French.....	Oct. 22, "	7,884 60	.....	.....	3 161 63
Laying mains in West Broadway.....	J. Cornwell & J. Cornwell, Jr.....	Nov. 3, "	2,972 00	" 6, 1883	2,517 96	2,392 06
Furnishing, etc., pumping engine at High Bridge.....	H. R. Worthington.....	Mar. 15, "	22,500 00	" 7, "	22,500 00	22,500 00

STORAGE RESERVOIRS.

Water was drawn from the storage reservoirs from October 1 to October 26, and from December 17 to December 28, 1883.

The Croton river furnished a full supply to the aqueduct the balance of the quarter.

Storage was drawn as follows:

	Gallons.
Boyd's Corner Reservoir.....	893,000,000
South East Reservoir.....	425,000,000
Lake Mahopac.....	175,000,000
Lake Kirk.....	200,000,000
Lake Gleneida.....	85,000,000
Barrett Pond.....	40,000,000
Total for quarter ending December 31, 1883.....	1,815,000,000

Storage drawn during 1883:

	Gallons.
Boyd's Corner Reservoir.....	1,520,000,000
South East Reservoir.....	1,620,000,000
Lake Kirk.....	400,000,000
Lake Mahopac.....	520,000,000
Lake Gleneida.....	180,000,000
Barrett Pond.....	130,000,000
Total.....	4,370,000,000

The reservoirs and lakes have filled very slowly since October 26, the rain-fall being very light for November and December. The repairs at Kirk Lake outlet have been completed.

The force to work on the surveys for a reservoir on the east branch of the Croton river have been transferred to the Bronx river, making the necessary surveys, etc., for the commission to appraise damages to mill and riparian owners on Bronx river, between Kensico dam and the East river.

Rain-fall—Inches.

	OCTOBER.	NOVEMBER.	DECEMBER.	QUARTER.	YEAR.
Boyd's Corner Reservoir.....	6.99	1.79	3.45	12.23	43.15
South East Reservoir.....	6.19	1.80	3.31	11.30	39.00
Kensico Reservoir.....	4.04	1.54	2.96	8.50	37.09
Croton Dam.....	5.53	1.33	4.84	11.70	46.37
Central Park.....	5.22	1.59	3.69	10.50	36.70

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

MONTHS.	1866.	1867.	1868.	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.
January.....	3.33	2.11	2.90	3.79	4.51	3.80	1.44	5.66	6.96	2.74	1.42	2.68	4.49	2.52	4.00	4.19	4.41	2.80
February.....	3.60	3.00	1.38	3.64	6.40	3.81	1.22	3.09	2.78	3.47	4.91	0.80	3.65	2.85	2.92	5.28	5.96	5.21
March.....	3.33	1.49	2.55	5.48	3.80	4.27	2.59	3.08	1.51	4.99	6.33	7.65	3.10	4.96	4.31	6.14	4.58	1.67
April.....	3.79	3.74	3.87	2.11	5.45	3.04	3.77	6.31	3.04	4.43	2.35	2.85	5.10	3.99	1.67	1.36	3.94	
May.....	5.62	6.86	8.79	4.52	2.30	3.45	3.69	2.91	1.99	1.08	3.99	0.85	4.97	2.45	1.17	3.74	6.30	2.86
June.....	4.45	5.28	4.53	3.59	2.06	5.73	4.00	0.71	3.57	3.02	2.32	4.95	4.65	5.29	1.28	3.72	3.04	5.64
July.....	4.01	5.25	2.13	2.26	3.43	5.07	4.34	2.21	5.98	3.10	3.42	4.65	4.28	5.95	5.65	2.45	3.63	4.26
August.....	6.56	10.04	6.98	1.92	5.10	5.24	5.99	5.73	2.75	10.33	1.20	2.54	2.66	5.83	3.60	1.71	3.92	2.09
September.....	4.92	3.62	9.33	3.20	2.85	1.44	3.69	3.73	3.56	2.11	5.21	1.49	6.61	3.43	2.69	0.75	14.33	2.45
October.....	5.09	3.66	0.87	9.46	4.73	6.18	2.15	5.13	2.40	3.61	1.50	8.38	3.78	0.95	3.25	3.65	3.33	6.99
November.....	3.82	3.10	4.65	2.43	2.51	4.35	4.91	3.72	2.72	4.61	3.40	8.16	4.36	2.49	2.97	4.50	1.66	1.79
December.....	3.27	2.62	2.35	5.96	1.49	2.59	3.68	4.13	1.78	1.56	2.35	1.52	8.74	4.26	2.49	6.53	2.68	3.45
Totals.....	51.77	50.77	50.33	48.36	44.63	48.94	40.74	43.87	42.37	43.66	40.68	46.03	54.14	46.08	38.52	46.33	55.20	43.15

BRONX RIVER SUPPLY.

The Commissioners appointed to appraise lands and damages between Woodlawn and Bronxville made their report and it was confirmed by the court, September 8, 1883.

They also made their report as to lands and damages between Woodlawn and Jerome avenue, and it was confirmed November 8, 1883.

The Commissioners appointed to appraise damages to the mill and riparian owners on the Bronx river below Kensico dam have held regular meetings, hearing testimony during the quarter.

The following work has been done during the quarter and during the year 1883.

WORK DONE ON THE BRONX RIVER SUPPLY DURING THE QUARTER ENDING DEC. 31, 1883.	Contract of Edward Bradburn, Croton avenue to Williamsbridge road.	Contract of James Baird, Williamsbridge road to Woodlawn.	Contract of F. Stollmeyer, Bronxville to Tuckahoe.	Contract of Thomas E. Crimmins, Tuckahoe to Hartzdale.	Contract of George W. Flowers, Kensico Reservoir.	Contract of L. P. Hendrick, Rye Pond Reservoir.	Total for Quarter.	Total for 1883.
Grubbing and clearing, acres.....	.....	.....	.....	.....	.....	.....	.....	100
Rock excavation, cubic yards.....	50	587	120	1,635	.....	43	2,435	19,100

WORK DONE ON THE BRONX RIVER SUPPLY DURING THE QUARTER ENDING DEC. 31, 1883.									
	Contract of Edward Bradburn, Croton avenue to Williamsbridge road	Contract of James Baird, Williamsbridge road to Woodlawn.	Contract of F. Stollmeyer, Bronxville to Tuckahoe.	Contract of Thomas E. Crimmins, Tuckahoe to Hartsdale.	Contract of George W. Flowers, Kensico Reservoir.	Contract of L. P. Hendrick, Rye Pond Reservoir.	Total for Quarter.	Total for 1883.	
Earth excavation, cubic yards.....	2,450	1,860	3,878	5,146	1,280	910	15,524	85,786	
Embankment, ".....	1,780	3,460	5,370	12,437	26,800	2,760	52,607	196,527	
Straight pipe delivered, tons.....		547		946			1,493	7,232	
Special castings, tons.....		2					2	36	
48-inch pipe laid, lineal feet.....		1,288	1,691	2,353			5,332	25,742	
36-inch pipe laid, ".....	1,581	1,280					2,861	4,211	
30-inch pipe laid, ".....						96	96	96	
12-inch pipe laid, ".....	54		1				55	180	
6-inch pipe laid, ".....	40		3	170			222	702	
48-inch stop-cocks set, number.....				1			1	3	
36-inch stop-cocks set, ".....									
30-inch stop-cocks set, ".....							1	1	
12-inch stop-cocks set, ".....							2	7	
6-inch stop-cocks set, ".....				1			1	9	
Blowoffs, number.....								4	
Hydrants, ".....	2			1			3	11	
White pine, etc., lumber, feet B. M.....			1,470		24,950		26,350	252,830	
Cut stone masonry, cubic yards.....		2	7	98	33		140	944	
Coursed stone masonry, cubic yards.....		27					27	242	
Stone masonry, cubic yards.....		800		57	930	438	2,225	9,937	
Brick masonry, ".....				45	17		62	369	
Concrete masonry, ".....		218	3	3	11	37	272	904	
Dry stone wall, ".....		951	506	1,759	376	1,071	2,663	19,824	
Fence wall, lineal feet.....					645	34	679	5,707	
Wrought iron, pounds.....			400		820		1,220	28,766	
Sodding, square yards.....								10,000	

Lands Acquired for the Bronx River Supply.

PARCEL.	NAME OF OWNERS.	ACRES.	AMOUNT PAID.	REMARKS.
No. 1	William H. Robinson.....	0.023	\$5 00	By Commission, May 28, 1881.
" 2	".....	0.203	190 00	"
" 3	Phoebe Ann Ryder.....	1.787	407 40	"
" 4	Henry J. and Eugene Miller.....	1.246	249 20	"
" 5	P. F. Stoutenberg.....	19.083	5,523 25	"
" 6	G. Merritt and others.....	19.098	4,131 60	"
" 8	Evander Odell.....	11.201	2,478 20	"
" 9	L. S. and S. E. Underdunk.....	46.195	6,739 00	"
" 10	M. E. Purdy and others.....	31.849	16,032 25	"
" 11	G. W. E. Shelly.....	1.671	334 20	"
" 12	Mary H. Lester.....	43.425	9,085 00	"
" 12	Rye Lake Railroad Co.....		6,000 00	"
" 13	John P. Williams.....	24.013	5,632 50	"
" 14	Estate of H. Davis.....	61.115	15,000 00	By Commissioner of Public Works, July, 1880.
" 15	".....	49.474	11,131 65	By Commissioner of Public Works, July, 1880.
" 16	Harlem Railroad Co.....	Right of way.	5 00	By Commission, Sept. 10, 1881.
" 17	S. Y. D. Arrowsmith.....	1.341	670 50	"
" 18	M. F. Fowler.....	1.893	946 50	"
" 19	".....	0.862	264 00	"
" 20	Levi Hunt.....	0.653	381 00	"
" 21	J. Costello.....	1.086	475 80	"
" 22	William Fisher, Estate.....	1.044	569 20	"
" 23	William Dunning.....	0.695	408 70	"
" 24	William S. Heath.....	0.949	409 70	"
" 25	E. H. Sutton.....	0.171	300 00	"
" 26	A. O. Willsea.....	0.374	250 00	"
" 27	John Anderson.....	0.175	100 00	"
" 28	O. & G. W. Mart n.....	0.681	279 30	"
" 29	E. C. Wilson.....	2.529	594 00	"
" 30	W. R. Foster.....	0.567	170 10	"
" 31	Right of way through road.....		5 00	"
" 32	J. S. Witherbee.....	0.599	450 00	"
" 33	Right of way through road.....		5 00	"
" 34	R. Stoddard and others.....	0.622	2,420 00	"
" 35	".....	0.021	25 00	"
" 36	Right of way through road.....		5 00	"
" 37	J. C. Horton and others.....	0.559	350 00	"
" 38	J. Smith.....	0.410	200 00	"
" 39	Right of way through road.....		5 00	"
" 40	J. Smith.....	0.549	590 00	"
" 41	Right of way through road.....		5 00	"
" 42	".....		5 00	"
" 43	G. Le Bon Moring.....	0.118	25 00	"
" 44	J. Stark.....	1.065	1,200 00	"
" 45	C. Butler.....	4.036	872 00	"
" 71	".....			"
" 72	Mutual Life Insurance Co.....	4.398	1,000 00	By Commissioner of Public Works, September, 1881.
" 73	".....			"
" 74	Phynetta Bussing.....	For damages.	8,500 00	By Commissioner of Public Works.
Mill at Woodlawn.	David Ver Plank, executor.....	{ Water rights } { and 1.775 }	24,725 00	By Commission, June 24, 1882.
" 47	Daniel Tripp.....	9.119	3,223 80	"
" 48	Oliver Matthews.....	28.964	9,242 80	"
" 49	".....	2.369	436 90	"
" 50	Elias Hicks Fields.....	2.371	874 20	"
" 51	Frank Tilford.....	14.316	19,136 60	"
" 52	Hannah C. Keeler.....	.272	525 00	"
" 53	John Field.....	3.595	1,119 00	"
" 54	Spring Lake Ice Co.....	.442	177 25	"
" 55	Westchester Ice Co.....	46.524	9,592 00	"
" 56	Thomas L. Park.....	.035	75 00	"
" 57	Andrew Luke.....	.024	75 00	"
" 58	".....	19.249	4,849 80	"
" 59	Squire G. Archer.....	27.161	2,037 07	"
" 60	James H. Strong.....	2.036	1,254 50	"
" 61	Robert F. Matthews.....	5.213	1,380 10	"
" 62	Unknown Owners, "Big Rye".....	3.576	815 20	"
" 63	".....	184.874	500 00	"
" 64	Andrew Luke.....	{ 50 feet wide } { along outlet. }	1,187 50	"
" 65	Purdy Estate.....	{ 50 feet wide } { along outlet. }	600 00	"
" 66	Squire G. Archer.....	{ 50 feet wide } { along outlet. }	900 00	"
" 67	David Ver Plank, executor.....	{ 50 feet wide } { along outlet. }	508 00	"
" 68	".....	{ 50 feet wide } { along outlet. }	50 00	"
" 84	Odell Stevenson.....	0.455	1,376 00	By Commission, Dec. 16, 1882.

Lands Acquired in 1883.

PARCEL.	NAME OF OWNER.	ACRES, ETC.	AMOUNT PAID.	REMARKS.
No. 69	George P. Nelson and others.....	1.703	\$600 00	By Commission, December 16, 1882.
" 70	David J. Garth.....	0.085	100 00	"
" 75	" and others.....	{ Right of way } { through r'd. }	4,152 50	"
" 77	".....	0.07	100 00	"
" 78	".....	0.04	50 00	"
" 79	John Burdette.....	0.124	300 00	"
" 80	M. A. Vermilya and others.....	0.031	400 00	"
" 81	C. R. Dusenbury.....	0.826	4,500 00	"
" 82	" and others.....	{ Right of way } { through r'd. }	25 00	"
" 83	Methodist Episcopal Church.....	0.079	500 00	"
" 85	John B. Morris.....	1.143	1,020 00	"
" 86	M. D. F. Hodgman.....	0.421	600 00	"
" 87	J. Burwell and others.....	1.275	4,500 00	"
" 88	".....	{ Right of way } { through r'd. }	12 00	"
" 89	E. Valentine and others.....	0.681	1,000 00	"
" 90	".....	{ Right of way } { through r'd. }	255 00	"
" 91	Cornelius Smith.....	1.015	2,500 00	"
" 92	S. W. Valentine and others.....	0.1	250 00	"
" 93	C. W. Martine and others.....	{ Right of way } { through r'd. }	25 00	"
" 94	S. W. Valentine and others.....	1.659	2,750 00	"
" 95	G. G. DeWitt and others.....	1.260	6,500 00	"
" 96	M. Odell and others.....	{ Right of way } { through r'd. }	7,675 00	By Commission, September 8, 1883.
" 97	M. Odell.....	0.348	500 00	"
" 98	B. Rich and others.....	0.481	1,000 00	"
" 99	G. G. DeWitt and others.....	0.012	200 00	"
" 100	M. Dickson and others.....	0.189	750 00	"
" 101	Woodlawn Cemetery and others.....	{ Right of way } { through r'd. }	100 00	By Commission, November 2, 1883.
" 102	N. Y. & Harlem R.R. Co. and others.....	{ Right of way } { through } { property of. }	100 00	"
" 104	".....		1,000 00	"
" 106	J. Bussing, Jr.....	0.031	208 37	"
" 107	Amanda Bussing and others.....	0.295	2,305 77	"
" 108	Amanda Bussing.....	1.239	7,275 09	"
" 111	George F. Opdyke.....	0.815	3,412 00	"
" 112	J. E. Cameron.....	0.460	2,177 59	"
" 113	Mill at White Plains.			
" 114	Benj. Richardson.....	Damages.....	10,000 00	By Commissioner of Public Works.
" 115	Robert White.....	".....	21,991 66	"

Amount Expended to December 31, 1883.

Engineering and inspection.....	\$135,200 00
Land and expenses.....	390,934 00
Labor and materials.....	1,612,900 75
Total.....	\$2,139,034 75

Bronx and Byram Rivers Water Supply.

The plans and estimates for obtaining an additional water supply from the Bronx and Byram rivers were first presented in definite form in the report of the Honorable Allan Campbell, for the quarter ending June 30, 1879.

His estimate of cost was as follows:

Bronx River Project, including Extra Storage for the Byram Water, and a Conduit of Sufficient Size to Carry the Waters of both Streams.

Land and dam at Rye ponds.....	\$41,950
Land and dam at Kensico.....	190,612
Conduit pipe and land for same.....	1,037,400
Reservoir at Williamsbridge.....	202,877
Connection with Croton aqueduct.....	44,000
Water rights on river.....	257,000
Connecting Williamsbridge reservoir with the present distributing pipes of the Twenty-third and Twenty-fourth Wards.....	72,500
For changes of gate-houses and a new 48-inch main across Manhattan Valley.....	203,150
Add five per cent. for engineering and contingencies.....	102,475
Total.....	\$2,151,964

Byram River.

Dam across Byram river.....	\$48,750
Uniting Byram River with the Bronx.....	73,290
Byram Pond.....	88,000
Water rights on Byram river.....	285,883
Add ten per cent. for engineering and contingencies.....	49,592
Total.....	\$2,697,479

Two of the above items, viz., \$72,500 for connecting the Williamsbridge reservoir with the distributing system of the upper wards, and \$203,150 for new gate-houses and additional main at Manhattan Valley, amounting, with the five per cent. added, to nearly \$300,000, were not included in former estimates of this project, as it was supposed they would be met from other funds. They would be necessary under any plan for increasing the water supply, and in order to make the estimate full and complete they have been included in the estimate now presented. Deducting them from the total estimate there would remain \$2,400,000 as the cost of the Bronx and Byram plan proper.

The above detailed estimate amounts to \$2,697,479, and although it seems to be liberal as to quantities and prices, yet in view of the possible increase in the cost of iron pipe, which constitutes a large item of the work, and because long experience has taught me to make full allowance for works of such magnitude, I shall state its total cost in round numbers at three millions of dollars.

Mr. Campbell also stated in that report that under the limitation of an expenditure not exceeding \$1,000,000 per annum about three years would be consumed in completing the works.

In December, 1879, the detailed surveys for the location of the reservoir and dam at Kensico, and for the first section of the conduit thence to the city, with the boundaries of each parcel of land required, were completed. The maps were filed as required by law, and the Counsel to the Corporation was requested to take the legal steps for the appointment by the Supreme Court of Commissioners of Appraisal of lands and damages.

In May, 1881, the report of the Commissioners on Lands required for the reservoir, and September, 1881, on right of way for part of conduit line was confirmed by the court.

The contract for building the dam and reservoir at Kensico (the land for the dam having been bought at private sale in July, 1880), was at once advertised for public letting.

The bids were received and opened August 4, 1880, and the contract for the reservoir and dam was signed August 31, 1880, and work thereon was commenced about the 1st of October, 1880. The actual commencement of the work may therefore be fixed at that date. Since that time the detail surveys for location of works and for boundaries of lands required; the searches of titles of lands; the inquiries as to probable damages from the diversions of the water; the preparation of plans, contracts and specifications for the different sections of the work; and the supervision and prosecution of the works, have been pursued with all the diligence and attention which the means at the command of the Department afford.

The last of the legal proceedings to acquire necessary land was confirmed by the Supreme Court, November 8, 1883.

The riparian and water right damages are now being appraised by the Commissioners.

In making a comparison between the estimated cost and the actual or probable cost of the entire work, as ascertained by the present records and data, the following points should be considered:

First—That the awards for lands, water rights, damages and expenses incurred in legal proceedings are beyond the control of the Department.

Second—That all contracts for work were let by public competition and awarded to the lowest bidder.

Third—That, at the request of the Commissioners of Appraisal certain changes in the plans were made in order to accommodate the owners of property adjacent to the works, and thereby reduce the claims and awards for damages.

The following is a summary statement of the estimate made in 1879, and of the actual or probable cost, so far as now ascertained, exclusive of the lands, water rights and works required to conduct the water of the Byram river into the Bronx river.

Lands, Water Rights and Damages, including Legal Expenses.

	ESTIMATED COST, 1879.	ACTUAL OR PROBABLE COST.
Dam and Reservoir at Rye Ponds.....	\$20,000 00	\$92,476 67
Dam and Reservoir at Kensico.....	75,000 00	99,889 25
Conduit Line	21,000 00	135,151 84
Williamsbridge Reservoir	20,000 00	154,764 68
Damages for water rights on Bronx river, estimated.....	257,000 00	250,000 00
Totals	\$393,000 00	\$732,282 44
<i>Contract Work.</i>		
Dam and Reservoir at Rye Ponds.....	\$21,950 00	\$35,914 40
Dam and Reservoir at Kensico.....	15,612 00	275,000 00
Conduit Line	1,066,400 00	1,515,380 29
Connection with Croton Aqueduct.....	44,000 00	90,000 00
Connection with present distributing system.....	74,500 00	124,352 00
Williamsbridge Reservoir	182,877 00	500,000 00
Totals	\$1,503,339 00	\$2,540,646 69
Work and material not by contract.....		\$3,779 34

The work has been prosecuted under thirteen contracts, of which eight are finished.

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

LOCATION OF WORK.	NAME OF CONTRACTOR.	DATE OF CONTRACT.	Grubbing and Clearing, Acres.	Rock Excavation, Cubic Yards.	Earth Excavation, Cubic Yards.	Embankment, Cubic Yards.	Straight Pipe Delivered, Tons.	Branches and Specials Delivered, Tons.	48-inch Pipe Laid, Lineal Feet.	36-inch Pipe Laid, Lineal Feet.	24-inch Pipe Laid, Lineal Feet.	18-inch Pipe Laid, Lineal Feet.	12-inch Pipe Laid, Lineal Feet.	6-inch Pipe Laid, Lineal Feet.	Flow-off Set, No.	Hydrants Set or Furnished, No.	48-inch Stop-cocks Set or Furnished, No.	36-inch Stop-cocks Set or Furnished, No.	24-inch Stop-cocks Set or Furnished, No.	12-inch Stop-cocks Set or Furnished, No.	6-inch Stop-cocks Set or Furnished, No.	White Pine and Hemlock Lumber, Feet B. M.	Cur Stone Masonry, Cubic Yards.	Coursed Stone Masonry, Cubic Yards.	Stone Masonry, Cubic Yards.	Brick Masonry, Cubic Yards.	Concrete Masonry, Cubic Yards.	Dry Stone Wall, Cubic Yards.	Fence Wall, Lineal Feet.	Wrought-iron, Pounds.	Sodding, Square Yards.
Kensico reservoir.....	Geo. W. Flower.....	Aug. 31, 1880	100	2,480	77,480	147,880	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	62,000	709	..	18,850	386	1,757	6,648	34,703	1,850	....
*Conduit pipe, between Bronxville and Woodlawn.....	F. Stollmeyer.....	Dec. 10, 1880	..	7,054	24,161	57,350	5,814	39	16,499	....	51	182	4	6	1	..	4	6	56,000	32	..	552	165	4	1,218	....	13,508	....	....	....	....
Jerome avenue, between Williamsbridge road and Croton avenue.....	Ed. Bradburn.....	Sept. 12, 1881	..	3,700	6,000	7,600	....	....	....	5,970	275	240	..	11	..	1	7	4	....	....	..	....	..	..	..	..	..	..	..	..	..
*Forty-eight-inch pipe at Bronxville.....	Warren's Foundry, etc.	Sept. 13, 1881	..	....	....	....	1,653	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
*Thirty-six-inch pipe for Jerome avenue.....	Walter Wood.....	Sept. 14, 1881	..	....	....	....	1,306	58	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
*Conduit pipe, Kensico to Hartzdale.....	R. D. Wood & Co.....	Sept. 14, 1881	..	6,137	52,371	124,592	10,407	78	30,200	....	418	256	5	5	2	..	7	6	349,945	111	..	1,361	62	361	4,471	....	54,946	10,000	....	....	....
*Stop-cocks, etc., furnished.....	C. C. Field.....	Jan. 4, 1883	..	....	....	....	....	....	....	....	....	....	....	....	10	3	8	10	10	....	....	....	....	....	....	....	....	....	....	....	....
*Stop-cocks, etc., furnished.....	M. B. Flinn.....	Oct. 21, 1881	..	....	....	....	....	....	....	....	....	....	....	....	28	3	1	17	19	....	....	....	....	....	....	....	....	....	....	....	....
Conduit pipe, Hartzdale to Tuckahoe.....	Thos. E. Crimmins.....	May 17, 1882	..	16,877	23,995	54,826	6,636	33	18,839	....	478	2	4	2	2	4	....	258	..	1,058	170	100	6,949	....	7,600	....	....	....	....	....	....
Rye Ponds reservoir.....	L. P. Hendrick.....	Oct. 28, 1882	..	521	23,040	9,000	....	....	....	96	..	....	....	....	..	..	..	..	6,670	....	..	554	..	121	4,059	34	....	....	....	....	....
Conduit pipe, Woodlawn to Jerome avenue.....	James Baird.....	Jan. 16, 1883	..	2,173	8,860	15,760	1,377	10	2,288	1,280	..	....	....	....	..	..	..	..	40,000	65	242	1,820	85	246	4,351	....	....	....	....	....	....
*Conduit pipe, Tuckahoe to Bronxville.....	F. Stollmeyer.....	Jan. 17, 1883	..	1,870	6,778	18,070	....	4,801	....	14	18	1	1	..	..	..	..	1,400	13	..	357	35	39	2,256	....	19,400	....	....	....	....	....
*Gates for Kensico dam.....	Julius Jonson.....	Aug. 8, 1883	..	....	....	....	....	....	....	....	....	....	....	....	..	..	..	..	....	....	....	....	....	....	....	....	....	....	....	....	....
Totals.....			100	40,812	222,685	435,078	27,123	223	72,627	7,346	758	1,174	12	65	13	11	49	50	516,015	1,188	242	24,552	925	2,628	29,952	34,737	97,304	10,000	....	....	....

* Completed.

NOTE.—All of these contracts will be completed during the year 1884, and on September 1, 1884, water will be furnished from the Bronx river to the Twenty-third and Twenty-fourth wards to the amount of 5,000,000 gallons per day; and as soon as the fall rains come to 10,000,000 gallons per day, through the present aqueduct and to the Twenty-third and Twenty-fourth wards.

AQUEDUCT REPAIRS, MAINTENANCE, AND STRENGTHENING.

During the past quarter the work done on the different divisions has been as follows:

First Division Croton Dam—Pointing masonry on face of dam; filling in with rip-rap below apronway; grading banks and general maintenance.

Second Division, Sing Sing—During the quarter, the new gate house has been carried up to receive the coping, the iron beams set, and the brick arches turned and leveled up with concrete, ready to receive the asphalt roof. The coping has been contracted for and delivered. The other work on this division has been general maintenance and the checking of leaks.

Third Division, Tarrytown—Construction of masonry monuments to mark the centre line of aqueduct; construction of dry stone walls between the Pocantico river and the gate-house, and general maintenance.

Fourth Division, Dobbs's Ferry—Construction of masonry monuments to mark the centre line of the Aqueduct; general maintenance and checking of leaks.

Fifth Division, Yonkers—Construction of masonry monuments; construction of one wooden stable, 20 feet by 22 feet, two stories high; construction of one wooden storehouse, 20 feet by 30 feet, two stories high; finishing construction of roadway across aqueduct in North Yonkers, containing in all 484 lineal feet of curb, 1,340 square feet of flagging, and 269 square yards of Belgian pavement, of which there was done during the quarter, 159 lineal feet of curb, 1,340 square feet of flagging, and 269 square yards of Belgian pavement; general maintenance; painting 125 lineal feet of fence and construction of retaining walls.

Sixth Division, Kingsbridge—Reinforcing aqueduct; general maintenance; construction of monuments, drains, etc.

Seventh Division, High Bridge—Set fifty-two blue stone steps and three platforms on terrace south of the bridge, thus finishing the setting of steps; erecting and painting 350 lineal feet of dressed picket fence; painting iron work on High Bridge, gate-houses, engine-house, and tower; completing the flooring about new engine, and general maintenance.

Eighth Division, Central Park—General maintenance, care of gate-houses, stop-cocks, and reservoirs.

Leaks in Aqueduct.

During the past year, and particularly during the last quarter, the bottom leaks have been very troublesome; the worst leaks have been found on the Second, Fourth, and Sixth Divisions. On the afternoon of November 15, a leak was suddenly developed on the Sixth Division which made it necessary to shut down for repairs; the large cross gate in the aqueduct at Tarrytown was closed at 10 P. M. on that day, the flow of the aqueduct being turned through the waste-pipe line laid last year. The aqueduct was entered at 6 P. M. on the 16th and the work of repairs prosecuted without cessation until 5 P. M. of the 17th, when they were completed. There were repaired on the Fourth Division, 340 lineal feet of bottom cracks, and on the Sixth Division 1,696 lineal feet of bottom cracks; there was not time enough to repair the side or top cracks which exist on every embankment. Water was let on again at Tarrytown at 4 P. M. on the afternoon of the 17th, and reached Kingsbridge at 10.41 P. M. on that day, the water having been shut off for forty-two hours.

State Prison Water Supply.

The State prison at Sing Sing is supplied from the Croton aqueduct; the water is delivered into a reservoir 1,400 feet west of the aqueduct by a stone drain, rectangular in section, 22 inches wide by 30 inches high, this drain has a paved bottom, vertical side walls and a stone covering, and is laid without cement; the reservoir is laid in cement mortar and is 97 feet long, 32 feet 9 inches wide and 11 feet 6 inches deep, containing when full 273,200 gallons. The daily consumption is said to be about 150,000 gallons per diem, and with the present means of supply it is impossible to keep more than 7 feet of water in the reservoir.

The water is admitted to the stone drain by an automatic valve placed in the bottom of the aqueduct; this valve becomes clogged by the material thrown into the aqueduct to check bottom leaks, making it necessary to keep men on duty night and day to insure a supply to the prison. It is recommended that an iron pipe be placed in the side wall of the aqueduct controlled by a stop-cock, and that the prison authorities be compelled to lay an iron pipe from the aqueduct line to their reservoir in order to reduce the cost of maintenance and prevent the waste of water by leakage through the dry-stone wall of the present drain.

Cement.

There have been used during the year 2,750 barrels Rosendale cement on the line of the aqueduct. This cement has been tested before acceptance as follows: For weight, 1 barrel in every 10, each barrel to weigh not less than 300 pounds. For fineness, 1 barrel in every five to be not less than 91 per cent. fine when passed through a sieve of 2,500 meshes to a square inch. For strength, that a briquette, 72 hours old, shall have a tensile strength of not less than 100 pounds per square inch of section.

This briquette will be mixed pure with 25 per cent. of water (by weight), exposed 1 hour in air; then immersed 23 hours in water; then exposed 48 hours in air and then tested. The cement came up to weight in all cases. The following table shows the result as to strength and fineness:

NUMBER OF SAMPLES.	HIGHEST.	LOWEST.	AVERAGE.
550	94.2	84.9	92.4

Tests for tensile strength in pounds per square inch, each briquette weighs $\frac{1}{1000}$ pounds.

NUMBER OF SAMPLES.	HIGHEST.	LOWEST.	AVERAGE.
550	199	114	135.96

NOTE.—Each sample weighs one-tenth of one pound.

There have been made during the year tests of Portland cement, and other brands of native. The results given in the accompanying table give the fineness and strength up to six months old. Accompanying also please find a tabular statement of work done.

Strength of Different Brands of Cement per Square Inch.

BRANDS.	AVERAGE FINENESS, PER CENT.	AGE.							
		24 Hours.	48 Hours.	1 Week.	2 Weeks.	3 Weeks.	1 Month.	2 Months.	6 Months.
* English Crown Portland.....	9,594	185.	262.	384.	....	390.	378.	442.	465.
Snyder's Rosendale.....	9,833	87.3	94.	172.	258.	....	318.	318.	....
Lawrenceville.....	924	117.	164.	231.	264.	365.	308.	316.	....
Norton's.....	965	101.	....	177.	323.	....	....	....	....
Lehigh Valley.....	838	95.	174.	320.	326.	....	362.	....	....
Saylor's Portland.....	998	....	79.	194.	282.	....	267.	275.	343.
James' Rosendale.....	954	....	....	183.	259.	....	227.	215.	....
German Portland.....	994	132.	193.	346.	....	....	....	....	....

* One sample, one day old, broke at 208 pounds; one sample, five weeks old, broke at 617 pounds.

Estimate of Work done on the Croton Aqueduct (Repair and Maintenance), during the Quarter and Year ending December, 1883.

No. of Division.	MASONRY.																			
	ARCH STRENGTHENED.		GATE HOUSES.			STEPS AT HIGH BRIDGE.			AQUEDUCT MONUMENTS.		WASTE WEIRS, CULVERTS, ETC.		RETAINING WALLS.		EXTRA MASONRY.		TOTAL MASONRY.			
						Steps, Platform, Sub-walls.		Con-crete.												
	Lin. Ft.	Cu. Yds.	Lin. Ft.	Sup. Ft.	Cu. Yds.	Lin. Ft.	Cu. Yds.	Cu. Yds.	Number.	Cu. Yds.	Lin. Ft.	Cu. Yds.	Lin. Ft.	Cu. Yds.	Lin. Ft.	Cu. Yds.	Lin. Ft.	Sup. Ft.	Number.	Cu. Yds.
First. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Second. ....	....	....	90	147	76.5	....	....	....	....	....	....	....	....	....	....	....	90	147	....	76.5
Third. ....	....	....	....	....	....	....	....	....	35	31.5	....	....	....	....	....	....	....	....	35	31.5
Fourth. ....	....	....	....	....	....	....	....	....	21	18.9	....	....	....	....	....	....	....	....	21	18.9
Fifth. ....	....	....	....	....	....	....	....	....	27	24.3	....	....	....	....	72	34.8	72	....	27	59.1
Sixth.	464	357.8	....	....	....	....	....	....	15	13.5	....	....	....	....	....	....	464	....	15	371.3
Seventh. ....	....	....	....	....	....	252.6	297	44.5	....	....	....	....	....	....	....	....	252.6	....	....	341.5
* Eighth. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total for quarter.	464	357.8	90	147	76.5	252.6	297	44.5	98	88.2	....	....	....	....	72	34.8	878.6	147	98	898.8
Total for year.	982	757.2	235	605	187.2	1,168.6	609.6	142	113	96.2	228.5	530.1	167.5	37.1	72	34.8	2,853.6	605	113	2,349.2

No. of Division.	DRY STONE WORK.						PIPE.			EARTH AND ROCK EXCAVATION AND EMBANKMENT.										GRADING.	FENCES.			
	RETAINING WALLS.		CULVERTS, DRAINS, DITCH WALLS.		TOTAL.		IRON.	TILE.	TOTAL.	EARTH EXCAVATION.						ROCK QUARRIED.	EARTH EMBANKMENT.	TOTAL EARTH AND ROCK EXCAVATION AND EMBANKMENT.			BUILT.	REBUILT.	TOTAL.	
										Unloading Banks.		Other Excavations.		Total.										
	Lin. Ft.	Cu. Yds.	Lin. Ft.	Cu. Yds.	Lin. Ft.	Cu. Yds.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Cu. Yds.	Lin. Ft.	Cu. Yds.	Lin. Ft.	Cu. Yds.	Cu. Yds.	Cu. Yds.	Lin. Ft.	Cu. Yds.		Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.
First. ....	...	...	...	...	...	...	...	...	...	...	1,200	178	1,200	178	...	178	1,200	356	..	.... (Strip 400)	..	....
Second. ....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	.... (Strip 400)	500	900	
Third.	605	266.7	...	...	605	266.7	...	...	...	...	668	865.5	668	865.5	200	865.5	668	1,931	..	{ 1,518 (Strip Picket, 571)	..	2,089	
Fourth.	60	15	...	...	60	15	...	...	...	75	208.3	...	63	75	271.3	...	271.3	75	542.6	75	{ (Strip 300 (Picket) 500)	..	800
Fifth.	113	123.1	113	123.1	...	(10'')	275	275	380	322.4	380	322.4	...	322.4	380	644.8	260 (Strip 600 (Picket) 350)
Sixth.	59.3	218.2	761	87.5	1,354	305.7	...	...	...	804	3,127.5	593	177	1,397	3,304.5	100	3,304.5	1,397	6,709	804	.... (Strip 600 (Picket) 350)	..	600
Seventh. ....	...	...	...	...	...	...	...	...	...	...	80	204	80	204	...	204	80	408	..	.... (Strip 600 (Picket) 350)	..	350	
* Eighth. ....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	....	..	....
Total for quarter.	1,371	623	761	87.5	213.2	710.5	...	275	275	879	3,335.8	2,921	1,809.9	3,800	5,145.7	300	5,145.7	3,800	10,591.4	1,139	4,239	500	4,739	
Total for year.	4,797	1,810.3	2,310	310.6	7,107	2,120.9	261	800	826	5,162	9,577.8	5,294	6,027.4	10,456	15,605.2	1,417	14,855.2	10,456	31,877.4	3,568	5,438	7,678	13,116	

* General Repair and Maintenance.

† Store-house Foundation.

LAYING CROTON PIPES.

Contracts for laying mains in Jerome avenue, between Croton avenue and McComb's Dam Bridge; in One Hundred and Forty-ninth street, between St. Ann's avenue and Southern Boulevard; in Lexington avenue, between One Hundred and Twenty-second and One Hundred and Twenty-third streets; in Madison avenue, between One Hundred and Nineteenth and One Hundred and Twentieth streets; in Robbins avenue, between One Hundred and Forty-fifth street and Westchester avenue; in One Hundred and Forty-fifth street, between Brook and St. Ann's avenues; in Sedgwick avenue, between High Bridge and Morris station; in One Hundred and Sixty-third street, between Courtland and Washington avenues; in Railroad avenue, between One Hundred and Sixty-seventh and One Hundred and Seventy-fifth streets; in One Hundred and Sixtieth street, between Morris and Railroad avenues; in Forrest avenue, between One Hundred and Sixty-fifth and Home streets; in Home street, between Boston and Union avenues; in One Hundred and Forty-fourth street, between Brook and St. Ann's avenues; in Fifty-second street, between Avenue A and East river; in Ninth avenue, between One Hundred and Fifty-fourth and One Hundred and Fifty-fifth streets; in One Hundred and Fifty-fifth street, between Ninth and St. Nicholas avenues; in One Hundred and Fifty-fourth street, between Tenth and St. Nicholas avenues; in West Broadway, between Canal and Chambers streets; in St. Nicholas avenue, between One Hundred and Twenty-sixth and One Hundred and Twenty-seventh streets; in One Hundred and Twenty-seventh street, between Eighth and St. Nicholas avenues; in Eighty-second street, between Eighth and Ninth avenues; in Thirty-sixth street, between Broadway and Sixth avenue; in One Hundred and Fifty-first street, between Robbins and Beach avenues; in Willis avenue, between Third avenue and One Hundred and Forty-seventh street, and across East river, from One Hundred and Thirty-eighth street and Locust avenue to North Brother Island, and on the island to Hospital, Engine-house and Dock.

Two contracts for furnishing pipe have been filled.
Three contracts for laying pipe have been completed.

Amount of Pipe Laid.

	During Quarter.	During Year.
36-inch.....	249	13,138
12-inch.....	6,565	15,928
6-inch.....	9,608	57,136
4-inch.....	2,945	2,945
Totals.....	19,367	89,147
Hydrants set.....		208
Stop-cocks.....		130

STREETS AND AVENUES IN WHICH WATER-MAINS HAVE BEEN LAID IN 1883.

Thirty-six-inch Pipe.

Jerome avenue, from Ogden avenue to 1,500 feet south of One Hundred and Seventy-seventh street.
Jerome avenue, from Tremont to Croton avenue.

Twelve-inch Pipe.

Twenty-third street, from Seventh avenue to North river.
Southern Boulevard crossing Alexander avenue.

Eighth avenue, between One Hundred and Sixteenth and One Hundred and Twenty-fifth streets.
One Hundred and Seventy-seventh street across Valentine avenue.
St. Ann's avenue, Westchester avenue to One Hundred and Forty-ninth street.
Lexington avenue, One Hundred and Twenty-second to One Hundred and Twenty-third street.
St. Nicholas avenue, One Hundred and Tenth to One Hundred and Eleventh street.
Riverside Drive, One Hundred and First to One Hundred and Third street.
Madison avenue, One Hundred and Nineteenth to One Hundred and Twentieth street.
St. Nicholas avenue, One Hundred and Twenty-sixth to One Hundred and Twenty-seventh street.

One Hundred and Forty-ninth street, St. Ann's avenue to Southern Boulevard.
West Broadway, Canal to Chambers street.
Willis avenue, One Hundred and Forty-seventh street to Third avenue.

Six-inch Pipe.

St. Nicholas avenue, from Tenth avenue to Sylvan place.
Sylvan place, St. Nicholas avenue, eastward.
Alexander avenue, from Third avenue to Southern Boulevard.
One Hundred and Twenty-sixth street, Ninth to St. Nicholas avenue.
Seventy-eighth street, Boulevard to Ninth avenue.
One Hundred and Thirty-fifth street, Eighth to St. Nicholas avenue.
One Hundred and Twenty-fifth street, Boulevard to Tenth avenue.
One Hundred and Eleventh street, Fifth to Madison avenue.
Myrtle avenue, One Hundred and Seventy-seventh street to Valentine avenue.
Valentine avenue, Myrtle avenue to north of One Hundred and Seventy-ninth street.
Grand avenue, from Valentine avenue to One Hundred and Seventy-ninth street.
One Hundred and Forty-sixth street, Brook to St. Ann's avenue.
One Hundred and Forty-seventh street, Brook to St. Ann's avenue.
One Hundred and Forty-ninth street, Third to Railroad avenue.
Seventy-first street, Avenue A to East river.
Sixty-ninth street, Second to Third avenue.
Ninety-eighth street, Second to Third avenue.
One Hundred and Fifth street, Fourth to Fifth avenue.
Ninety-seventh street, Eighth to Ninth avenue.
Berrian avenue, Southern Boulevard to Suburban street.
Suburban street, Berrian avenue to Williamsbridge road.
Williamsbridge road, Suburban to Jefferson street.
Ninety-eighth street, Eighth to Ninth avenue.
Ninety-eighth street, Third to Lexington avenue.
One Hundred and Eighteenth street, from Sixth to Seventh avenue.
Sedgwick avenue, Morris station, southward.
Twenty-sixth street, Eleventh to Twelfth avenue.
Denman place, Concord to Union avenue.
George street, Boston to Union avenue.
Ninth avenue, One Hundred and Fiftieth to One Hundred and Fifty-first street.
Seventy-third street, First to Third avenue.
Kingsbridge road, Tenth avenue to One Hundred and Sixty-fourth street.
One Hundred and Fifty-eighth street, Mott to Gerard avenue.
Gerard avenue, One Hundred and Fifty-eighth to One Hundred and Sixty-first street.
Ninety-first street, Second to Third avenue.

One Hundred and Sixth street, Lexington to Fifth avenue.
 Tompkins street, Southern Boulevard to Oliver avenue.
 Oliver avenue, Tompkins to James street.
 One Hundred and Eleventh street, St. Nicholas to Seventh avenue.
 Concord avenue, One Hundred and Sixty-fifth to Home street.
 One Hundred and Nineteenth street, Seventh to Eighth avenue.
 One Hundred and Fifty-fifth street, Courtland to Elton avenue.
 Ninety-first street, Avenue A to First avenue.
 Valentine avenue, High Bridge southward.
 One Hundred and Forty-sixth street, St. Nicholas to Tenth avenue.
 One Hundred and Forty-fourth street, Brook to St. Ann's avenue.
 Home street, Boston to Union avenue.
 On North Brother Island.
 Thirty-sixth street, Broadway to Sixth avenue.
 Eighty-second street, Eighth to Ninth avenue.
 Railroad avenue, One Hundred and Sixty-seventh to One Hundred and Seventy-fifth street.
 One Hundred and Sixtieth street, Morris to Railroad avenue.
 One Hundred and Sixty-third street, Washington to Courtland avenue.
 One Hundred and Forty-fifth street, St. Ann's to Brook avenue.
 Westchester avenue, Concord to Robbins avenue.
 Robbins avenue, from Westchester avenue to One Hundred and Forty-fifth street.
 Fifty-second street, First avenue to East river.
 One Hundred and Twenty-seventh street, Eighth to St. Nicholas avenue.
 One Hundred and Fifty-fourth street, St. Nicholas to Tenth avenue.
 One Hundred and Fifty-first street, Robbins to Beach avenue.
 Ninth avenue, One Hundred and Fifty-fourth to One Hundred and Fifty-fifth street.
 One Hundred and Fifty-fifth street, Ninth to St. Nicholas avenue.

Four-inch Pipe.

Across East river, from One Hundred and Thirty-eighth street to North Brother Island and on North Brother Island.

"B" Hydrants Set in 1883.

North side Twenty-third street, between Sixth and Seventh avenues 1
 Southeast corner Twenty-third street and Seventh avenue 1
 Southwest corner Twenty-third street and Seventh avenue 1
 North side Twenty-third street, between Seventh and Eighth avenues 1
 South side Twenty-third street, between Seventh and Eighth avenues 1
 Southeast corner Twenty-third street and Eighth avenue 1
 Northwest corner Twenty-third street and Eighth avenue 1
 South side Twenty-third street, between Eighth and Ninth avenues 1
 Northeast corner Twenty-third street and Ninth avenue 1
 North side Twenty-third street, between Ninth and Tenth avenues 2
 Southeast corner Twenty-third street and Tenth avenue 1
 Southwest corner Twenty-third street and Tenth avenue 1
 South side Twenty-third street, between Tenth and Eleventh avenues 1
 East side West Broadway, between Chambers and Reade streets 1
 East side West Broadway, between Reade and Duane streets 1
 West side West Broadway, between Reade and Duane streets 1
 Southwest corner West Broadway and Duane street 1
 East side West Broadway, between Duane and Thomas streets 1
 West side West Broadway, between Duane and Thomas streets 1
 East side West Broadway, between Thomas and Worth streets 1
 West side West Broadway, between Thomas and Worth streets 1
 Southwest corner West Broadway and Worth street 1
 East side West Broadway, between Worth and Leonard streets 1
 West side West Broadway, between Leonard and Franklin streets 1
 Southeast corner West Broadway and Franklin street 1
 Northeast corner West Broadway and Franklin street 1
 West side West Broadway, between Franklin and North Moore streets 1
 West side West Broadway, between North Moore and Walker streets 1
 East side West Broadway, between White and Walker streets 1
 East side West Broadway, between Walker and Lispenard streets 1
 West side West Broadway, between Worth and York streets 1
 East side West Broadway, between Lispenard and Canal streets 1
 West side West Broadway, between York and Canal streets 1
 Total 34

"A" Hydrants Set in 1883.

Southeast corner St. Nicholas avenue and Sylvan place 1
 Junction Third and Alexander avenues 1
 Northeast corner Alexander avenue and One Hundred and Thirty-sixth street 1
 Southwest corner Alexander avenue and One Hundred and Thirty-sixth street 1
 Northeast corner Alexander avenue and Southern Boulevard 1
 Northwest corner Alexander avenue and Southern Boulevard 1
 Southwest corner St. Nicholas avenue and One Hundred and Twenty-sixth street 1
 Northeast corner Boulevard and Seventy-eighth street 1
 Northeast corner Tenth avenue and Seventy-eighth street 1
 North side Seventy-eighth street, between Ninth and Tenth avenues 1
 Southwest corner Eighth avenue and One Hundred and Sixteenth street 1
 West side Eighth avenue, between One Hundred and Eighteenth and One Hundred and Nineteenth streets 1
 West side Eighth avenue, between One Hundred and Twentieth and One Hundred and Twenty-first streets 1
 Northeast corner St. Nicholas avenue and One Hundred and Thirty-fifth street 1
 Northeast corner One Hundred and Twenty-fifth street and Boulevard 1
 Northwest corner One Hundred and Twenty-fifth street and Tenth avenue 1
 Northeast corner One Hundred and Twenty-fifth street and Tenth avenue 1
 North side Sylvan place, two hundred feet east St. Nicholas avenue 1
 Northeast corner One Hundred and Eleventh street and Fifth avenue 1
 Northwest corner One Hundred and Eleventh street and Madison avenue 1
 Northwest corner Myrtle avenue and One Hundred and Seventy-seventh street 1
 West side Myrtle avenue, between One Hundred and Seventy-seventh street and Valentine avenue 1
 Southeast corner Myrtle and Valentine avenues 1
 West side Valentine avenue, west of Grand avenue 1
 Southwest corner Valentine avenue and One Hundred and Seventy-ninth street 1
 West side Valentine avenue, three hundred and fifty feet north of One Hundred and Seventy-ninth street 1
 Northwest corner Grand and Valentine avenues 1
 Southwest corner Grand avenue and One Hundred and Seventy-ninth street 1
 Northeast corner One Hundred and Forty-sixth street and Brook avenue 1
 Northwest corner One Hundred and Forty-sixth street and St. Ann's avenue 1
 Northeast corner One Hundred and Forty-seventh street and Brook avenue 1
 Northwest corner One Hundred and Forty-seventh street and St. Ann's avenue 1
 Northwest corner One Hundred and Forty-ninth street and Third avenue 1
 Northeast corner One Hundred and Forty-ninth street and Courtland avenue 1
 Northwest corner One Hundred and Forty-ninth street and Courtland avenue 1
 Northeast corner One Hundred and Forty-ninth street and College avenue 1
 Northwest corner One Hundred and Forty-ninth street and Morris avenue 1
 Northeast corner One Hundred and Forty-ninth street and Railroad avenue 1
 North side Seventy-first street at East river 1
 Northwest corner Ninety-eighth street and Second avenue 1
 Northeast corner Ninety-eighth street and Third avenue 1
 Northwest corner One Hundred and Fifth street and Fourth avenue 1
 Northwest corner One Hundred and Fifth street and Madison avenue 1
 Northeast corner One Hundred and Fifth street and Fifth avenue 1
 Southwest corner St. Ann's avenue and One Hundred and Forty-ninth street 1
 West side St. Ann's avenue, between One Hundred and Forty-ninth street and Westchester avenue 1
 West side Berrian avenue, between Southern Boulevard and Suburban street 1
 Northwest corner Suburban street and Decatur avenue 1
 Northeast corner Suburban street and Williamsbridge road 1
 Southwest corner Williamsbridge road and Summit street 1
 Southwest corner Williamsbridge road and Jefferson street 1
 Northwest corner Ninety-seventh street and Eighth avenue 1
 Northeast corner Ninety-seventh street and Ninth avenue 1

North side One Hundred and Eighteenth street, between Sixth and Seventh avenues 1
 Northeast corner One Hundred and Eighteenth street and Sixth avenue 1
 Sedgwick avenue, between High Bridge and Morris Dock Station 4
 North side Twenty-sixth street, between Eleventh and Twelfth avenues 1
 Northeast corner Twenty-sixth street and Twelfth avenue 1
 Northeast corner Denman place and Concord avenue 1
 Southwest corner Denman place and Tinton avenue 1
 Northwest corner Denman place and Union avenue 1
 North side George street, between Boston and Concord avenues 1
 Northeast corner George street and Concord avenue 1
 Northeast corner George street and Tinton avenue 1
 Southeast corner Ninety-eighth street and Ninth avenue 1
 South side Ninety-eighth street, between Eighth and Ninth avenues 1
 West side Ninth avenue, between One Hundred and Fiftieth and One Hundred and Fifty-first streets 1
 Northwest corner Seventy-third street and Second avenue 1
 Northeast corner Ninety-eighth street and Lexington avenue 1
 Northeast corner Kingsbridge road and Tenth avenue 1
 East side Kingsbridge road, between Tenth avenue and One Hundred and Sixty-fourth street 1
 Southeast corner Kingsbridge road and One Hundred and Sixty-fourth street 1
 West side Lexington avenue, between One Hundred and Twenty-second and One Hundred and Twenty-third streets 1
 North side One Hundred and Fifty-eighth street, between Mott and Gerard avenues 2
 West side Gerard avenue, between One Hundred and Fifty-eighth and One Hundred and Sixty-first streets 1
 Northeast corner Sixty-ninth street and Third avenue 1
 Northeast corner Ninety-first street and Third avenue 1
 Northwest corner One Hundred and Sixth street and Lexington avenue 1
 Northwest corner One Hundred and Sixth street and Fourth avenue 1
 Northwest corner George street and Union avenue 1
 Northeast corner of One Hundred and Sixth street and Madison avenue 1
 Northeast corner of One Hundred and Sixth street and Fifth avenue 1
 Northwest corner of One Hundred and Eleventh street and St. Nicholas avenue 1
 Northeast corner of One Hundred and Eleventh street and Seventh avenue 1
 Northeast corner of Riverside Drive and One Hundred and Third street 1
 Northwest corner of Madison avenue and One Hundred and Nineteenth street 1
 Northwest corner of Concord avenue and Sutton street 1
 Northwest corner of Concord avenue and Manor place 1
 Southwest corner of Tompkins street and Webster avenue 1
 Northwest corner of Oliver avenue and James street 1
 Northeast corner of One Hundred and Nineteenth street and Eighth avenue 1
 Northeast corner of One Hundred and Nineteenth street and St. Nicholas avenue 1
 Northwest corner of One Hundred and Nineteenth street and Seventh avenue 1
 Northeast corner of One Hundred and Fifty-fifth street and Courtland avenue 1
 Northwest corner of One Hundred and Fifty-fifth street and Melrose avenue 1
 Northeast corner of Ninety-first street and First avenue 1
 West side of Valentine avenue, 700 feet south of Highbridge road 1
 North side of One Hundred and Forty-sixth street, between St. Nicholas and Tenth avenues 1
 Northeast corner of One Hundred and Forty-sixth street and Tenth avenue 1
 Northeast corner of One Hundred and Forty-fourth street and Brook avenue 1
 Northwest corner of One Hundred and Forty-fourth street and St. Ann's avenue 1
 Northwest corner of Home street and Concord avenue 1
 Northeast corner of Home street and Tinton avenue 1
 Northwest corner of Home street and Union avenue 1
 East side of Railroad avenue, between One Hundred and Sixty-seventh and One Hundred and Sixty-eighth streets 1
 Southeast corner of Railroad avenue and One Hundred and Sixty-eighth street 1
 Northeast corner of Railroad avenue and One Hundred and Sixty-eighth street 1
 East side of Railroad avenue, between One Hundred and Sixty-eighth and One Hundred and Sixty-ninth streets 1
 East side of Railroad avenue, between One Hundred and Sixty-ninth and One Hundred and Seventieth streets 2
 East side of Railroad avenue, between One Hundred and Seventieth and One Hundred and Seventy-first streets 1
 East side of Railroad avenue, between One Hundred and Seventy-first and One Hundred and Seventy-second streets 2
 East side of Railroad avenue, between One Hundred and Seventy-second and One Hundred and Seventy-third streets 1
 Northeast corner of Railroad avenue and One Hundred and Seventy-third street 1
 East side of Railroad avenue, between One Hundred and Seventy-third and One Hundred and Seventy-fourth streets 1
 East side of Railroad avenue, between One Hundred and Seventy-fourth and One Hundred and Seventy-fifth streets 1
 Northeast corner of Thirty-sixth street and Broadway 1
 Northeast corner of Eighty-second street and Ninth avenue 1
 Northwest corner of Eighty-second street and Eighth avenue 1
 Northwest corner of One Hundred and Sixtieth street and Railroad avenue 1
 Northeast corner of One Hundred and Sixty-third street and Courtland avenue 1
 Northeast corner of One Hundred and Sixty-third street and Brook avenue 1
 North side of One Hundred and Sixty-third street, between Courtland and Brook avenues 1
 Northeast corner of One Hundred and Forty-fifth street and Brook avenue 1
 Northwest corner of One Hundred and Forty-fifth street and St. Ann's avenue 1
 South side of Westchester avenue, between Concord and Robbins avenues 1
 Southwest corner of Robbins avenue and One Hundred and Fifty-second street 1
 Northeast corner of Robbins avenue and One Hundred and Fifty-first street 1
 Southwest corner of Robbins avenue and Terrace place 1
 Northeast corner of Robbins avenue and One Hundred and Fiftieth street 1
 Southwest corner of Robbins avenue and One Hundred and Forty-ninth street 1
 Southwest corner of Robbins avenue and One Hundred and Forty-seventh street 1
 Southwest corner of Robbins avenue and One Hundred and Forty-fifth street 1
 North side of Fifty-second street at East river 1
 Northeast corner of One Hundred and Twenty-seventh street and St. Nicholas avenue 1
 Northwest corner of One Hundred and Twenty-seventh street and Eighth avenue 1
 North side of One Hundred and Fifty-fourth street, between Tenth and St. Nicholas avenues 1
 Northwest corner of One Hundred and Forty-ninth street and Eagle avenue 1
 Northwest corner of One Hundred and Forty-ninth street and Cypress avenue 1
 Northwest corner of One Hundred and Forty-ninth street and Robbins avenue 1
 Northwest corner of One Hundred and Forty-ninth street and Concord avenue 1
 Northwest corner of One Hundred and Forty-ninth street and Tinton avenue 1
 Northwest corner of One Hundred and Forty-ninth street and Beach avenue 1
 Northwest corner of One Hundred and Forty-ninth street and Southern Boulevard 1
 Northeast corner of One Hundred and Fifty-first street and Concord avenue 1
 Northwest corner of One Hundred and Fifty-first street and Beach avenue 1
 Northwest corner of One Hundred and Fiftieth street and Robbins avenue 1
 Northeast corner of One Hundred and Forty-eighth street and Willis avenue 1
 Southeast corner of One Hundred and Fifty-fifth street and St. Nicholas avenue 1

Total 155

"A" (Case) Hydrants Set in 1883.

South side Twenty-third street, between Tenth and Eleventh avenues 1
 North side Twenty-third street, between Tenth and Eleventh avenues 1
 Southeast corner Twenty-third street and Eleventh avenue 1
 Northeast corner Jerome avenue and One Hundred and Seventy-seventh street 1
 Northeast corner Jerome avenue and Tremont avenue 1
 Southwest corner Jerome avenue and Tremont avenue 1
 Northeast corner Jerome avenue and One Hundred and Eighty-fourth street 1
 Southwest corner Jerome avenue and Fordham Landing road 1
 Southeast corner Jerome avenue and Croton avenue 1
 Southwest corner Jerome avenue and Sedgwick avenue 1
 Southeast corner Jerome avenue and Marchwood place 1
 Northwest corner Jerome avenue and Claremont avenue 1
 Southwest corner Jerome avenue and Gerard avenue 1
 Northeast corner Jerome avenue and Stebbins place 1
 East side Jerome avenue south of Woolf place 1
 West side Jerome avenue south of Woolf place 1
 On North Brother Island (Port Morris) 3
 Total 19

WASTE AND USE OF WATER.

Examinations of Sewers for Waste of Water in Houses between 12 o'clock Midnight and 6 A. M.,
Quarter ending December 31, 1883.

Number house drains examined	3,580
Number of dry drains	3,112
Number where waste was less than one gallon per minute	0
Number where waste was from one gallon to five gallons per minute	467
Number where waste was over five gallons per minute	1
One of ten gallons per minute	1

Examinations of Sewers for Waste of Water in Houses between 12 o'clock Midnight and 6 A. M.,
for the Year ending December 31, 1883.

Number of house drains examined	9,893
Number of dry drains	8,270
Number where waste was less than one gallon per minute	1
Number where waste was from one gallon to five gallons per minute	1,614
Number where waste was over five gallons per minute	8
5 of 6 gallons per minute	
1 of 8 " "	
1 of 10 " "	
1 of 20 " "	
8	

Examinations made by Inspectors as to Leaky Fixtures and Waste of Water during the Year
ending December 31, 1883.

ASSEMBLY DISTRICT.	Whole Number of Buildings Examined.	Whole Number of Plumbing Defective.	FAUCETS.		URINALS.		HYDRANTS.		Pipes Burst.
			Leak.	Waste.	Leak.	Waste.	Leak.	Waste.	
Third	86	4	4	..	..	..	..	..	..
Fourth	65	1	1	..	..	..	..	..	..
Fifth	1,300	95	43	3	3	14	6	2	22
Sixth	118	4	4	..	..	..	..	..	..
Seventh	629	54	50	..	..	..	2	..	2
Eighth	171	37	12	..	4	14	1	6	..
Ninth	197	10	9	..	1	..	..	..	..
Tenth	909	11	6	..	1	4	..	..	..
Eleventh	2,861	..	..	..	..	..	..	..	..
Twelfth	1,141	31	14	..	7	3	5	..	2
Thirteenth	1,529	4	2	..	..	2	..	..	..
Fourteenth	863	211	200	1	..	..	9	..	1
Fifteenth	473	25	22	..	1	..	2	..	..
Sixteenth	1,295	..	..	..	..	..	..	..	..
Seventeenth	2,098	113	74	6	3	25	2	1	2
Eighteenth	250	6	5	..	..	1	..	..	..
Twenty-third	1,323	1,166	1,110	..	..	54	..	1	1
Total	15,308	1,770	1,556	10	20	117	27	10	30

METERS.

Meters placed during quarter ending December 31, 1883	784
Meters placed during the year ending December 31, 1883	2,195
Number of meters now in use	9,012

Water Meters in Use December 31, 1883.

WHERE PLACED.	1/2"	3/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	TOTAL.
Hotels	3	7	63	131	64	45	18	5	..	336
Breweries, Bottlers, etc.	6	4	81	97	45	64	7	1	..	305
Charitable Institutions	..	..	4	20	33	32	4	2	..	95
Offices	12	6	704	680	270	75	19	5	..	1,771
Manufacturing Establishments	19	4	101	144	86	57	4	1	..	416
Gas Works	..	..	..	9	2	2	12	12	..	37
Railroads	..	4	85	45	3	10	18	21	..	186
Stables	74	13	888	401	56	22	7	1	..	1,462
Apartment-houses	..	..	6	23	39	34	4	1	..	105
Docks	1	..	7	11	..	26	38	29	..	112
Riverdale	5	2	28	6	..	..	1	2	..	44
Miscellaneous	584	68	1,420	1,360	474	183	43	4	1	4,743
Total	704	108	3,387	2,927	1,072	554	175	84	1	9,012
KIND OF METER.										
Gem	..	..	..	2	..	5	15	5	..	27
Crown	704	..	1,086	795	58	19	1	2	1	2,666
Worthington	..	108	2,301	2,130	1,014	530	159	77	..	6,319
Total	704	108	3,387	2,927	1,072	554	175	84	1	9,012

Average Number of Gallons of Water Used Per Day Through Meters.

NUMBER OF METERS.	WHERE USED.	GALLONS.
336	Hotels	1,707,800
302	Breweries, Bottlers, etc.	1,510,400
95	Charitable Institutions	418,000
1,760	Offices	1,648,800
381	Manufacturing Establishments	1,153,200
37	Gas Works	831,800
186	Railroads	1,191,000
1,388	Stables	1,018,500
93	Apartment-houses	227,800
112	Docks	1,439,000
2	Riverdale	54,800
3,465	Miscellaneous	5,082,700
8,157	Total	16,283,800

Amount received by Water Register in 1883	\$478,141 08
Amount returned to Bureau of Arrears in 1883	20,408 26
Amount received by Water Register from docks in 1883	70,030 91
Amount received by Water Register from Riverdale in 1883	1,510 20
Total	\$570,090 45

HIGH SERVICES PUMPING WORKS.

The new Worthington pumping engine and pumps at High Bridge have been completed, and the tests called for under the contract made, and found to exceed the quantities called for by the contract.

New high service pumping engines at High Bridge. Started September 3, 1883.

Quantity of water to be pumped daily, as per contract, 6,000,000 gallons.

Average quantity pumped for seven days, 7,614,056 gallons.

Duty required, as per contract, 75,000,000 pounds raised one foot with 100 pounds of coal.

Duty actually performed for forty-eight hours, 78,635,000 pounds.

Average duty for seven days, 77,150,000 pounds.

Below find statement of the performance of engines and pumps during the year:

Performance of High-Service Pumping Engines at High Bridge for the Year 1883.

NUMBER OF DAYS PUMPING.	AVERAGE HOURS PER DAY.	HEIGHT PUMPED, FEET.	NUMBER OF GALLONS PUMPED.	POUNDS OF COAL CONSUMED.	GALLONS OF OIL EXPENDED.	POUNDS OF WASTE EXPENDED.
365	19 1/2	100	1,642,500,000	4,489,500	1,300	400

Average cost of pumping 1,000,000 gallons 100 feet high, \$10.81.

Average duty 30,518,150 pounds raised 1 foot with 100 pounds of coal.

Average amount pumped daily, 4,500,000 gallons.

20,000,000 gallons pumped 214 feet high, into tank in tower during year.

Performance of High-service Pumping Engines at Ninety-eighth Street Engine-house, for the Year 1883.

NUMBER OF DAYS PUMPING.	NUMBER OF STROKES.	HEIGHT PUMPED, FEET.	NUMBER OF GALLONS PUMPED.	POUNDS OF COAL CONSUMED.	GALLONS OF OIL EXPENDED.	POUNDS OF WASTE EXPENDED.
365	25,522,332	74	2,783,025,368	3,285,000	416	190
Average Per Month	2,127,694	74	231,918,864	273,750	..	..

Average cost of pumping 1,000,000 gallons 74 feet high, \$5.46.

Average duty 52,288,570 pounds raised 1 foot with 100 pounds of coal.

Average amount pumped daily, 7,624,729 gallons.

Supplying Water for Shipping and for Building Purposes.

During the quarter and year 1883 permits have been issued as follows:

FOR WATER SUPPLIED.	PERMITS DURING QUARTER.	PERMITS DURING YEAR 1883.	AMOUNT RECEIVED DURING QUARTER.	AMOUNT RECEIVED DURING YEAR.
To engines on wharves	11	58	\$1,019 65	\$2,275 45
For building purposes	155	655	6,176 00	28,388 50
To shipping	145	533	7,465 58	28,642 67
To shipping measured by meter	..	..	15,253 35	70,030 91
Totals	311	1,246	\$29,914 58	\$129,337 53

PERMITS TO OPEN STREETS ISSUED IN 1883.

Edison Electric Illuminating Co.

John street, between Nassau street and 200 feet west of Broadway.

Dey street, between Nassau street and 200 feet west of Broadway.

Wall street, between William street and Broadway.

Pine street, between Nassau street and Broadway.

Nassau street, between Spruce and Frankfort streets.

Cedar street, between Nassau street and Broadway.

Broadway, between Cedar and Wall streets.

Broadway, between Cedar and Liberty streets.

Nassau street, between Cedar street and Maiden Lane.

New street, between Wall and Beaver streets.

Fulton street, between Nassau street and Broadway.

Broadway and Park Row, between Fulton and Beekman streets.

Beekman street, between Park Row and Nassau street.

Broadway, between Liberty and Fulton streets.

Liberty street, between Nassau street and Broadway.

Maiden lane, between Nassau street and Broadway.

Broadway, between Wall and Pine streets.

Ann street, between Nassau street and Park Row.

Broadway, between Dey and Wall streets.

New street, between Nos. 19 and 40.

Nassau street, between Beekman and Spruce streets.

Seventy-third street, between Eighth and Ninth avenues.

Equitable Gas-light Co.

First avenue, between Thirty-second and Fifty-ninth streets.

Sixth avenue, between Greenwich avenue and Fifty-ninth street.

Thirtieth street, between First and Second avenues and between Second and Seventh avenues.

Second avenue, between Third and Thirty-second streets.

Forty-second street, between First and Ninth avenues.

Eighth avenue, between Greenwich avenue and Forty-second street.

Seventeenth street, between Sixth and Eighth avenues.

Broadway, between Fourteenth and Thirty-fourth streets, and between Thirty-fourth and Fifty-ninth streets.

Fifth avenue, between Fourteenth and Fifty-ninth streets.

Third avenue, between Great Jones and Fifty-ninth streets.

Thirty-first street, between Seventh and Eighth avenues, and between Second and Seventh avenues.

Greenwich avenue, between Sixth and Eighth avenues

Sixth avenue, between Greenwich avenue and Third street.

Third street, between Second and Sixth avenues.

Madison avenue, between Twenty-third and Forty-second streets.

Third avenue, between Third and Great Jones streets.

Twenty-third street, between Second and Eighth avenues.

Fourteenth street, between Second and Eighth avenues.

Eighth avenue, between Fourteenth and Fifty-ninth streets.

Bowery and Fourth avenue, between Great Jones and Thirty-second streets.

Fifty-seventh street, between Sixth and Eighth avenues.

Fifty-seventh street, between First and Sixth avenues.

Metropolitan Gas-light Co.

Seventy-ninth street, between Tenth avenue and Boulevard.

Seventy-second street, between Ninth and Tenth avenues.

Eleventh avenue, between Sixty-eighth and Seventieth streets.

Seventy-fifth street, between Ninth avenue and Boulevard.

Seventy-eighth street, between Ninth and Tenth avenues.

Tenth avenue, between Sixty-eighth and Seventy-ninth streets.

New York Gas-light Co.

Broadway, between Canal and Chambers streets.
West Broadway, between Reade and Canal streets.
Nassau street, between Wall and Spruce streets.
Broadway, between Exchange place and Beaver street.
William street, between Liberty and Wall streets.
Wall street, between Nassau and William streets.
Dey street, between Broadway and West streets.
Washington street, between Fulton and Cortlandt streets.

Knickerbocker Gas-light Co.

Fourth avenue, between One Hundred and Thirty-third and One Hundred and Thirty-fourth streets.
One Hundred and Thirty-fourth street, between Fourth and Eighth avenues.
Seventy-sixth street, between Fifth avenue and East river.
Seventy-fifth street, between Fifth avenue and East river.
Seventy-fourth street, between Fifth avenue and East river.
Seventy-third street, between Fifth avenue and East river.
Seventy-second street, between Fifth avenue and East river.

Manhattan Gas-light Co.

Twenty-third street, between Seventh and Eighth avenues.

Municipal Gas-light Co.

Fourth avenue, between One Hundred and Thirty-third and One Hundred and Thirty-fifth streets.

New York Steam Co.

Whitehall street, between Morris street and Bowling Green.
Beaver street, between Whitehall and Broad streets.
Broadway, between Chambers and Canal streets.
Chambers street, between Nos. 99 and 104.
Cedar street, between Broadway and Greenwich streets.
Greenwich street, between Thomas and Rector streets.
Rector street, between Broadway and Greenwich street.
William street, between Maiden lane and Beekman street.
Broad street, between Wall and Beaver streets.
Spruce street, between Park Row and William street.
Nassau street, between Pine and Wall streets.
Washington street, between Barclay street and Park place.

Western Union Telegraph Co.

Broadway, between Dey and Fourteenth streets.
Broadway, between Dey and Wall streets.
Wall street, between Broadway and Broad street.
Broad street, between Wall and Stone streets.
Stone street, between Broad street and Produce Exchange.
Fourteenth street, between Broadway and Fifth avenue.
Fifth avenue, between Fourteenth and Twenty-third streets.
Twenty-third street, between Third and Sixth avenues.
The extreme cold weather since the 22d day of December has started the consumers to waste water, so that the water in the reservoirs are failing, and the pressures throughout the city are very low, some places on high points having no water during part of the day.

Very respectfully,

G. W. BIRDSALL, First Assistant for Chief Engineer Croton Aqueduct.

Document "F."

DEPARTMENT OF PUBLIC WORKS,
WATER PURVEYOR'S OFFICE, 31 CHAMBERS STREET, ROOM 1,
New York, January 10, 1884.

Hon. HUBERT O. THOMPSON, Commissioner of Public Works:

SIR—In compliance with your instructions I submit the following report of the transactions of this Bureau for the quarter ending December 31, 1883, together with a summary of the work done under the direction of the Bureau during the year 1883.

REPAIRS AND RENEWAL OF PAVEMENTS.

The average force employed on repairs to pavements during the quarter was as follows:
In October, 425 men and 81 carts.
In November, 430 men and 81 carts.
On the 17th day of November, the repair gangs were disbanded, only ten men and three carts being retained to attend to dangerous places in the pavements.
713 defects in pavements were repaired.
29 permits were issued to repair pavements at the expense of the applicants.

REPAVING UNDER CHAPTER 476, LAWS OF 1875.

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

	Square Yards.
Fifth avenue, from Fifty-eighth to Fifty-ninth street	1,005
Tenth avenue, from Fourteenth to Twenty-second street	12,629
Division street, from Bowery to Norfolk street	5,416
Thirteenth street, from Sixth to Greenwich avenue	4,746
Total	23,796

NEW PAVEMENTS UNDER ASSESSMENT.

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

	Square Yards.
Fourth avenue, from One Hundred and Second to One Hundred and Sixteenth street	22,797
Tenth avenue, from Manhattan to One Hundred and Thirtieth street	5,895
East Thirty-eighth street, from present pavement to fifty feet easterly	172
Sixty-first street, from Avenue A to ninety-six feet easterly	344
Sixty-first street, from Tenth to Eleventh avenue	2,738
Seventieth street, from First to Second avenue	2,250
Seventieth street, from Ninth avenue to the Boulevard	2,110
Seventy-third street, from First to Third avenue	4,294
Seventy-eighth street, from Ninth avenue to the Boulevard	4,462
Eighty-ninth street, from Avenue A to Avenue B	2,200
One Hundred and Nineteenth street, from Fourth to Sixth avenue	5,991
One Hundred and Twentieth street, from Third to Sixth avenue	7,322
Total	60,575

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

The average force employed in repairing pipes, stop-cocks, and fire-hydrants, under the direction of this Bureau, during the quarter, was as follows:
In October, 85 men and 9 carts.
In November, 85 men and 9 carts.
In December, 85 men and 9 carts.
788 repairs were made to fire hydrants.
45 new fire hydrants were substituted for old ones.
1 new fire hydrant was placed.
403 defects in pipes and stop-cocks were repaired.
131 taps were shut off on account of leaks in service pipes.
In addition to the above work, defects in pavements have been attended to by this force when required, in consequence of the discharge of the gangs employed on repairs to pavements.

PUBLIC DRINKING HYDRANTS.

22 drinking hydrants were repaired.
5 new drinking hydrants were substituted for old ones.
4 new drinking hydrants were placed.
The total number of public drinking hydrants in the city is 359.

WELLS AND PUMPS.

4 pumps were repaired.
The total number of pumps in the city is 48.

VAULTS.

45 permits were issued during the quarter for the construction of vaults.
The amount received for the same was seventeen thousand five hundred and sixty-two dollars and ninety cents (\$17,562.90).

12 permits were issued to repair vaults.

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

Public Drinking Hydrants	\$1,061 94
Repaving Streets and Avenues	68,192 94
Repaving Streets and Avenues—Salaries	2,037 99
Repairs and Renewal of Pavements and Regrading	54,393 88
Repairs and Renewal of Pavements and Regrading—Salaries	1,333 50
Repairing and Renewal of Pipes, Stop-cocks, etc.	19,497 60
Wells and Pumps, Repairing and Cleaning	146 25
Contingencies—Department of Public Works	63 20
Street Improvement Fund	161,447 52
Total	\$308,144 82

Summary of work done during the year ending December 31, 1883:

Repaving under Chapter 476, Laws of 1875.

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

STREET.	FROM—	SQUARE YARDS.	LENGTH IN FEET.
Avenue A	Fourteenth to Twenty-third street	8,222	1,850
Fifth avenue	Fifty-eighth to Fifty-ninth street	1,005	235
Tenth avenue	Fourteenth to Twenty-second street	12,629	1,954
Eleventh avenue	Forty-second to Forty-sixth street	6,073	948
Eleventh avenue	Thirty-fifth to Forty-second street	10,959	1,704
Allen street	Houston to Grand street	4,955	1,943
Cherry street	Franklin Square to Catharine street	2,669	1,201
Chrystie street	Grand to Houston street	5,072	1,952
Division street	Bowery to Norfolk street	5,416	1,939
East street	Grand to Rivington street	3,494	878
Henry street	Oliver to Grand street	14,757	4,241
James street	Chatham to Cherry street	2,230	1,053
Jane street	Hudson street to Thirteenth avenue	2,757	1,048
King street	Macdougal to West street	7,721	2,035
Manhattan street	Second to Third street	368	220
Morton street	Bleecker to West street	6,134	1,880
Mulberry street	Canal to Spring street	4,770	1,744
Norfolk street	Division to Houston street	7,220	2,621
Oliver street	Chatham to South street	3,514	1,431
Prince street	Macdougal street to Broadway	4,378	1,609
Sheriff street	Grand to Delancey street	1,879	668
University place	Fourth street to Waverly place	1,161	456
Watts street	Sullivan to Hudson street	2,982	758
Eleventh street	Second avenue to Avenue B	6,760	2,050
West Eleventh street	West street to Thirteenth avenue	1,395	426
West Twelfth street	Fourth street to Thirteenth avenue	5,927	1,804
Thirteenth street	Sixth avenue to Greenwich avenue	4,746	1,452
Seventeenth street	Fifth to Thirteenth avenue	8,463	2,564
Eighteenth street	Irvine place to Third avenue	1,423	445
Twenty-seventh street	Eighth to Ninth avenue	2,592	816
Twenty-ninth street	Tenth to Eleventh avenue	2,507	821
Thirty-fifth street	Seventh to Eighth avenue	2,693	820
Thirty-fifth street	Tenth to Eleventh avenue	2,708	826
Thirty-seventh street	Madison to Park avenue	1,391	423
Thirty-ninth street	Ninth to Tenth avenue	2,704	814
Forty-first street	Tenth to Eleventh avenue	2,691	822
Total		166,620	48,461

Total length of streets repaved, 48,461 feet, or 9 $\frac{1}{10}$ miles.

New Pavements Under Assessment.

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

STREETS.	FROM.	SQUARE YARDS.	LENGTH IN FEET.
Fourth avenue	One Hundred and Second to One Hundred and Sixteenth street	22,797	3,521
Fourth avenue	One Hundred and Sixteenth to One Hundred and Twenty-fourth street	12,310	2,059
Fourth avenue	One Hundred and Twenty-fourth to One Hundred and Thirty-third street	11,530	1,897
Tenth avenue	Manhattan to One Hundred and Thirtieth street	5,895	895
Thirty-fifth street	First avenue to 340 feet easterly	1,118	340
East Thirty-eighth street	Present pavement to 50 feet easterly	172	50
Forty-third street	Second to Third avenue	2,087	633
Sixty-first street	Avenue A to 96 feet easterly	344	103
Seventieth street	Tenth to Eleventh avenue	2,738	819
Seventieth street	First to Second avenue	2,250	675
Seventieth street	Ninth avenue to Boulevard	2,110	653
Seventy-first street	Avenue A to Second avenue	4,338	1,301
Seventy-third street	First to Third avenue	4,294	1,296
Seventy-eighth street	Ninth avenue to Boulevard	4,462	1,339
Eighty-second street	Boulevard to Ninth avenue	4,423	1,324
Eighty-seventh street	Ninth avenue to Boulevard	4,701	1,329
Eighty-ninth street	First to Second avenue	2,208	666
Ninety-seventh street	Avenue A to Avenue B	2,200	666
Ninety-seventh street	First to Second avenue	2,242	676
Ninety-seventh street	Second to Third avenue	2,105	626
One Hundred and Second street	First to Third avenue	4,321	1,202
One Hundred and Sixth street	Third to Lexington avenue	2,904	436
One Hundred and Sixth street	Lexington to Fourth avenue	2,753	421
One Hundred and Seventh street	First to Third avenue	4,333	1,302
One Hundred and Ninth street	First to Second avenue	2,216	672
One Hundred and Eleventh street	First avenue to Avenue A	2,095	642
One Hundred and Eleventh street	Fourth to Madison avenue	1,367	418
One Hundred and Nineteenth street	Fourth to Sixth avenue	6,213	1,875
One Hundred and Twentieth street	Third to Sixth avenue	7,322	2,220
One Hundred and Twenty-first street	Fourth to Madison avenue	1,372	415
One Hundred and Twenty-first street	Second to Third avenue	2,667	626
One Hundred and Twenty-fourth street	Eighth avenue to Avenue St. Nicholas	1,160	360
One Hundred and Twenty-seventh street	Sixth to Seventh avenue	2,651	812
One Hundred and Twenty-seventh street	Seventh to Eighth avenue	2,686	812
One Hundred and Twenty-eighth street	Seventh to Eighth avenue	2,676	813
One Hundred and Twenty-ninth street	Boulevard to Twelfth avenue	1,959	600
One Hundred and Thirtieth street	Third to Fourth avenue	2,733	852
One Hundred and Thirtieth street	Broadway to Boulevard	441	138
Total		145,593	35,484

Total length of new pavements, 35,484 feet, or 6 $\frac{1}{10}$ miles.

2,250 defects in pavements were repaired.
2,904 repairs were made to fire hydrants.
313 new fire hydrants were substituted for old ones.
40 new fire hydrants were placed.
1,498 defects in pipes and stop-cocks were repaired.
499 taps were shut off on account of leaks in service pipes.
100 repairs were made to drinking-hydrants.
16 new drinking-hydrants were substituted for old ones.
10 new drinking-hydrants were placed.
7 pumps were repaired.
215 permits were issued for the construction of vaults.
The amount received for the same was \$91,691.04.
67 permits were issued to repair vaults.
75 permits were issued to repair pavements.

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

Macadam	26.72 miles.
Asphalt	.62 "
Granite-blocks	57.75 "
Trap-blocks	225.95 "
Cobble-stone	46.43 "
Total	357.47 "

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

ON WHAT ACCOUNT.	APPROPRIATIONS AND TRANSFERS.	PAYMENTS.	ESTIMATED LIABILITIES.	ESTIMATED BALANCES.
Public Drinking-hydrants.....	\$5,000 00	\$2,318 93	\$2,444 00	\$267 07
Repaving Streets and Avenues.....	340,000 00	318,826 30	20,241 12	932 18
Repaving Streets and Avenues—Salaries.....	10,000 00	9,594 71	.....	405 29
Repairs and Renewal of Pavements and Regrading..	170,000 00	167,830 88	2,154 20	14 92
Repairs and Renewal of Pavements and Regrading—Salaries.....	5,000 00	4,995 50	.....	4 50
Wells and Pumps—Repairing and Cleaning.....	500 00	238 93	250 00	11 07
Repairing and Renewal of Pipes, Stop-cocks, &c.....	.....	67,564 30	.....	.....
Contingencies—Department of Public Works.....	.....	254 95	.....	.....
Street Improvement Fund.....	329,460 98

Respectfully submitted,

D. LOWBER SMITH, Water Purveyor.

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DEPARTMENT OF PUBLIC WORKS,
OFFICE OF ENGINEER IN CHARGE OF SEWERS,
NEW YORK, January, 1884.

Hon. HUBERT O. THOMPSON, Commissioner of Public Works:

SIR—I herewith submit my Report for the quarter ending December 31st, 1883, together with a review of the work of this Bureau for the past year.

In complying with your instructions it will be necessary to give a brief history of the sewerage of the city; as but few people are able to form an idea of the extent, or the care necessary to maintain in good order, the sewerage of so large a city.

During the past year, six and eighty-nine one hundredths (6.89-100) miles of sewers and culverts have been built, and one hundred and thirty (130), receiving-basins—making a total sewerage of the city, exclusive of the Twenty-third and Twenty-fourth Wards, of three hundred and ninety-eight and eleven one-hundredths (398.11-100) miles of sewers and culverts, and forty-eight hundred and twenty-two (4,822) receiving-basins.

On the first day of January nineteen contracts for sewers and receiving-basins were in progress. During the year sixty-four new contracts were made, of which forty-nine were by public advertisement and fifteen without public advertisement—the cost of the latter being less than one thousand dollars in each case. Of these eighty-three contracts, sixty-six were completed during the year.

Previous to the enactment of the Sewerage Act of 1865, most of the sewers were built without a fixed plan or system, and of such there were about two hundred miles.

Previous to the introduction of Croton water, a large proportion of the sewers were simple drains, built with open bottoms, without mortar or cement, and were made for the purpose of carrying off waste water from houses, that was derived from wells and cisterns, the excrementitious matter being deposited in privy vaults and removed as occasion required. On the introduction of Croton water the drains came to be used as sewers, and to carry off house waste of all descriptions.

The injurious consequences to the public health from the use of these irregularly shaped and badly constructed conduits cannot be exaggerated, especially in the older portions of the city where they are rapidly falling into decay. The difficulty of maintaining them is always very great, especially in crowded thoroughfares where railroad tracks, and water, gas and steam pipes overlay them, and the difficulty is often made greater from the fact that the Bureau has no record of the location and position of these sewers, which can only be determined by expensive and tedious excavations, as many of them are without manholes or other means of entering them.

The size of most of these old sewers is out of all proportion to the service they have to perform. Some are many times larger than can be kept clean with the minimum, or dry-weather flow of sewage; while others are as much too small. The latter overflow during heavy rains, while the limited and shallow flow spread over the broad bottoms of the larger sewers, loses much of the power necessary to carry off solid and excrementitious matter. The velocity, in this way, is often reduced so low as hardly to prevent stagnation.

As the area of the city was extended, previous to 1865, sewers, already built on the hap-hazard plan then in vogue, were added to without reference to the effect the additional drainage would have on the sewers below. Sometimes this addition would greatly benefit sewers originally too large; while, on the other hand, sewers already too small would be taxed beyond their capacity, continually flooding cellars and damaging property.

Sewers have been built upon made ground, where the precautions taken to secure a firm foundation have proved inadequate. Many sewers so built have settled to such an extent as to become useless, especially along the river fronts, where the sewers have sunk several feet below low-water, the outlet, or part through the solid bulkhead, remaining at the level it was originally built on, cutting off the free discharge of the solid portions of the sewage and the free escape of gas; which latter, when confined by rising tides, is forced back, especially during storms, into dwellings, the pressure being so great as to pass the most improved traps made to exclude sewer-gas. Sewers, also, built on the sites of ponds and streams and when built above the original surface of the ground without a proper foundation, have settled out of grade and shape; and not only was this fatal error made with old sewers, but many pipe sewers built previous to 1870 under the general plan of 1865, were found to be sunken and broken, notably the sewers in Fifty-sixth street between Fifth and Sixth avenues, and several streets between Fifty-sixth and Sixty-fourth streets between Fourth and Fifth avenues; and in Fifth avenue, from Fifty-fifth to Fifty-ninth street, and in Madison avenue from Fifty-seventh to Fifty-ninth street. These sewers were laid, not only without any reference to draining the low, swampy lands in the district, but were laid several feet above the natural surface of the ground, generally at a uniform depth below the street surface.

Most of these sewers were laid in street embankment of loose rock-filling, after the street had been made; while some were laid on embankments of loose stone to secure a foundation, directly on the soft surface of the swamps, previous to the filling-in of the streets. Frail pipe-sewers, laid on such a foundation, could barely withstand their own weight; but when fresh filling, often of large masses of rock, was placed over these sewers to the depth of thirteen or more feet in grading the street, they were, in every instance, found crushed and sunken out of line and shape. The sewage from the houses would leave the broken sewers, and soak away into the loose rock-filling beneath them. Several thousand feet of these pipe-sewers have been taken up and replaced with brick ones on a water-tight foundation, or with pipes bedded in concrete.

The vicinity of these defective sewers has been noticeably malarious, and much sickness traced directly to the presence of stagnant water underlying the streets and dwellings. The portion of this district north of Fifty-ninth street was drained (after the sewers were built from 1865 to 1870) by deep subsoil drains traversing the blocks while following the old water-courses, and discharging into the deep sewer at Fourth avenue and Fifty-ninth street.

These drains perfectly answer the purpose for which they were built; but, in addition, they carry off all leakage from defective sewers and house drains. The great volume of fresh water passing through them enables a considerable amount of such sewage to be carried off, without materially affecting the freshness of the water; and, in this way, little harm has been felt so far from this improper use of the drains.

But in the district south of Fifty-ninth street, from Fourth to Sixth avenue, where no subsoil drains could be made, and where the original water-courses had become obstructed, the injurious effects of improper sewerage and drainage were very apparent. The district being entirely built over, the only remedy was by building deep sewers through the streets and avenues adjacent to the old water-courses and beneath their level. The first sewer built was that in Fifth avenue, from Fifty-ninth street south to Fifty-fifth street, with branches in Fifty-sixth and Fifty-seventh streets. Also a deep sewer, now in progress, in Madison avenue, between Fifty-ninth and Fifty-seventh streets, with branches in Fifty-seventh street. These sewers are from fifteen to thirty feet below the street pavement, and were very difficult to construct, owing to the large masses of loose rock used in making the streets, that had to be excavated, and the danger of injury to the great Croton main-pipes which the sewers underlaid. In many instances the sewer was several feet below the foundation of the adjoining buildings. Large volumes of subsoil and polluted water were met with and carried off directly into the new sewers.

The effect of this thorough subsoil drainage has already been so noticeable in the improved health of the neighborhood, that I must advise, notwithstanding the difficulties and expense, the rebuilding of the defective sewers in this district, north of Fifty-ninth street, on grade; that will thoroughly and permanently drain the saturated and damp lands underlying the old sewers and dwellings, by deep sewers laid through the streets, and taking into them the flow of the present underground drains, as the proposed sewers would intercept them.

Other important alterations and improvements to old sewers, done under contract by public letting, were in the following streets, namely:

Seventh street, between Avenues C and D.
Bank street, between West street and Hudson river.
Bethune street, between Washington street and Hudson river.

Plans are prepared for the alteration and improvement of the very defective sewer in Fourteenth street west of Tenth avenue, and the work will be probably contracted for and completed early in the coming season. This sewer is one of those referred to as having settled below the level of low water, and at all times being filled with mud.

RECEIVING-BASINS.

There are at present forty-eight hundred and twenty-two receiving-basins, and on their good order depends the condition of the sewers. Basins, as now built, are designed to retain and intercept all street-dirt and washing and prevent such matter entering the sewers. They are also constructed to exclude all sewer-gas, while the old street-basins, or those built previous to 1849, were built for surface drainage only, and connected with the sewers without trapping. The street refuse was not retained, but carried directly into the sewer, allowing the sewer-gas free access into the streets to the great discomfort of persons passing, and injury to health.

All the old receiving-basins have been greatly improved, and some two thousand have been rebuilt and fitted with covering of one single stone, in place of the old head or covering, which was of several pieces, readily displaced by a slight blow from a passing wagon, and always difficult to open for the purpose of cleaning. The cost of cleaning has been much lessened by the improvements made to them.

VENTILATION.

Previous to the introduction of Croton water no ventilation was provided for the sewers, except through leaders and untrapped basins; but when the sewers came to be used to carry off foul matter and refuse from dwellings and manufactories, the exclusion of sewer-gas became of vital importance. The Board of Health have made it a requirement that all soil pipes shall be trapped as near the sewer as possible. In this way all ventilation heretofore had through the untrapped soil pipe, or by the rain water leader, has been cut off.

From protracted experiments, and from experience of European cities, it was determined in 1876 to adopt the natural plan of ventilation, which is, by perforating the iron covers of the manholes. By this means the sewer-gas escapes freely into the centre of the street, remote from dwellings as possible, where it is so thoroughly mixed with the atmosphere as to be rendered harmless; in fact, no odor is noticeable a few feet from the openings. Not only is gas allowed to escape freely at the time of rising tides or influx of storm-water, but air is supplied to the sewer to take the place of the receding tides and storm flows, thereby preventing the untrapping of house drains.

There are now over twenty-one thousand manholes, which will be fitted with perforated ventilating covers as fast as the money can be spared from the limited appropriation for the repairs and cleaning of sewers.

Since 1876 all new sewers have been constructed with ventilating manhole covers, and eighteen hundred and fifteen (1,815) new ventilating covers fitted to the old sewer manholes.

THE DISCHARGE OF STEAM INTO SEWERS.

The discharge of exhaust steam from buildings where steam is used is a very serious evil, and cannot be allowed to continue without rendering many sewers unfit for use, especially those built with common lime-mortar, as many of the old ones were. Although this is in open violation of law, it is found very difficult to trace the offending parties, the advantage and convenience of disposing of exhaust steam in this way being so great that plumbers will resort to every means to conceal the offense. I have given this matter constant attention for the past seven years, and have during that time stopped many instances of the violation of the law, often at great risk of life, and with frequent cases of severe injury to our men by scalding. Sewers are sometimes made so hot, and are so filled with steam, that it is impossible to enter them for weeks at a time, and some of our men have been permanently injured in the discharge of their duty in this matter.

Parties in charge of buildings that discharge steam or boiling water into the sewers have all been made thoroughly acquainted with the law and the duty of this Department to enforce the same; but instead of aiding us, or even complying with our regulations, make persistent and continuous attempts, with great ingenuity, to neutralize our efforts. The vaults of many buildings extend into the streets very close to the sewers; and when the connection from them into the sewers, through which steam is discharged, is cut off, those in charge of the buildings drive openings from their vaults through the side of the sewer without being detected from the street. This is frequently done at night and on Sundays. Another device adopted to evade detection is the use of a tube, which can be uncoupled and withdrawn in a few moments, to discharge the steam by inserting it through the house-drain into the sewer. When our men appear, the engines are stopped, and the tube uncoupled and taken out, and so there remains only the drain into which the soil-pipes for the water-closets discharge.

I can see no way of successfully combating this defiance of law, except in severing the sewer-connections altogether and closing up the openings into the sewers; and to properly attend to the matter, I recommend that a special force be organized in this office to attend to this business alone, and to have as the head of such party a competent person, of thorough mechanical knowledge, with special reference to steam-fittings and contrivances, so as to be able to suggest the proper remedies at the time of serving notices, answering all objections, and following the matter up until the law is obeyed.

CLEANING AND REPAIRING.

During the past year, particular attention has been given to the cleaning and repairing of sewers, which work is done by skilled laborers selected on account of their long experience with sewers; and positive information obtained from these men has enabled me to discover and remedy many important defects. By having the cleaning and repairing done by separate gangs of men for each work, operating together, the obstructions met with are speedily removed, and faulty construction made good at the same time, to the great saving of expense and labor. The removal of slight obstructions, or making of a small repair, is often all that is necessary to put a sewer in perfect working order.

Receiving-basins were cleaned by contract from 1871 to 1876, inclusive, at a fixed sum of forty-eight thousand dollars (\$48,000) per annum. Since then they have been cleaned by day's work at a greatly reduced cost. In cleaning receiving-basins during the past year sixty-three hundred loads of dirt were removed at a cost of fifteen thousand two hundred and fifty-six dollars (\$15,256).

In the same time twenty-four hundred and eighty loads of dirt were removed from the sewers at a cost of seventy-one hundred and twenty-six dollars (\$7,626).

During the past year an unusual amount of repairs to sewers has been made. Many of the sewers were located in crowded thoroughfares and in business streets, which required great skill and dispatch in execution, in order to save property from damage and the city from expensive lawsuits.

The principal repairs made to sewers during the year 1883, were in the following streets:

Eighty-ninth street at East river, (outlet sewer).
Ninety-fifth street, between Second and Third avenues.
Sixth avenue, between Eighth street and Waverley place.
Delancey street, between Columbia and Sheriff streets.
Intersection of Avenue B and Fourth street.
John street, between Gold and South streets.
Stanton street, between Goerck and Columbia streets.
Fourteenth street, between Avenues A and B.
Seventy-sixth street, between Madison and Fourth avenues.
Sixtieth street, between Tenth and Eleventh avenues.
Rivington street, between Mangin street and East river.
Seventy-first street, between Ninth and Tenth avenues.
Sixty-second street, between Madison and Fifth avenues.
Tenth street, between Avenues A and B.
Cedar street, between Broadway and Nassau street.
West side of Fourth avenue, between Sixty-ninth and Seventieth streets.
Sixty-third street, between Madison and Fifth avenues.

The large amount of ordinary repairs, and the extensive alterations and improvements made under contract, have had a very marked sanitary effect on whole districts, particularly on the line of the sewers whose outlets have been rebuilt and improved.

The special party of men employed in making regular, periodical and systematic examinations of sewers, for the purpose of determining their condition and anticipating the most necessary repairs, has worked uninterruptedly. This party is composed of a foreman and laborers thoroughly acquainted with all the old sewers, their peculiarities and defects; and it is only by such regular examinations that these old sewers are maintained in working order. Their defects are known, and the more serious ones are remedied at once. The examinations are not confined to the old sewers, but extend throughout the entire sewerage of the city. Many curious and long-forgotten peculiarities of construction have been met with; and causes of trouble of long standing discovered and remedied, often at very slight expense, making the sewerage of whole districts work satisfactorily.

The present practice of referring complaints made to the Department promptly to each bureau officer, and the requirement of an immediate report, has served greatly to insure early attention, especially in the case of complaints affecting sewers, where delay might cause damage and inconvenience and additional expense to the city. In the investigation of complaints, it is often found that the trouble is in no way caused by the sewer, but is occasioned by obstructed house-drains and waste-pipes belonging to dwellings and premises, the remedy for which is with the Board of Health. The trouble, however, is pointed out by our expert examiner, and the occupant advised as to the best way of remedying it. Such complaints are growing more frequent every day, arising from the bad plumbing of the many buildings put up by speculating builders. Besides the poor material used, often a single six-inch pipe is made to suffice to drain a whole block of houses. As a consequence the premises are flooded, and a complaint made that the public sewer is at fault. In such cases the complaint, together with the particulars, is transmitted to the Board of Health, which has full supervision over all house drainage.

PROPOSED WORK.

In anticipation of the revival of business interests, surveys have been in progress to complete the sewerage of the district lying west of the Central Park, plans for which are nearly completed, and will be put under contract this coming season. The uniform sewerage of this district, as well as other portions of the upper part of the city, is greatly retarded by reason of the streets not being opened according to law, even when the houses built upon them have been occupied and supplied with Croton water and all modern improvements. The active opposition of some large property-owners has prevented the necessary proceedings being taken, and until such opposition is overcome no public improvement can be made in these streets. It would be a great advantage to the public and to the property-owners themselves if all streets could be opened in one proceeding, as then the necessary improvements could be carried out systematically at a greatly reduced cost.

STREET OPENINGS.

By law the Commissioner of Public Works is required to make all maps, surveys and assessment lists for the opening and closing of all streets and for laying out new streets south of One Hundred and Fifty-fifth street.

The work connected with this duty has been assigned to this Bureau, and takes, necessarily, much of my time and attention from matters pertaining to the sewers; and I find it difficult to procure assistants at all familiar with this special branch of the profession, who are willing to work for the pay received by engineers and draughtsmen in the employ of the city.

Heretofore this work was in the hands of several experienced city surveyors, who made a specialty of it, and were paid prices for the work that enabled them to employ skilled assistants.

The following is a list of streets and avenues for which petitions have been received. Surveys, maps, assessment lists, etc., are in progress and partly completed:

Fifty-fourth street, between Tenth avenue and Hudson river.
One Hundred and Fourteenth street, between Fourth and Eighth avenues.
Washington street (extension), from Little West Tenth street to West Fourteenth street.
Gansevoort street (widening), between Washington and West Thirtieth street, and West Thirtieth street, between Gansevoort street and Eighth avenue.
Sixty-fourth street, between Third avenue and East river.
Lexington avenue, between Ninety-seventh and Ninety-eighth, and between Ninety-ninth and One Hundred and Second streets.
One Hundred and Twenty-seventh street, between Second avenue and Harlem river.
(Extension of) Manhattan street, between Twelfth avenue and Hudson river.
Pleasant avenue, between One Hundred and Fourteenth and One Hundred and Twenty-fourth streets.
One Hundred and Forty-third street, between Seventh avenue and new avenue west of Eighth avenue.
Hamlin avenue (Contour street), between Avenue St. Nicholas, opposite One Hundred and Thirty-fifth street, and Tenth avenue, opposite One Hundred and Thirty-eighth street, and closing One Hundred and Thirty-seventh street, from Avenue St. Nicholas westward.
Edgecombe road, from One Hundred and Fifty-fifth to Dykman street.
Eighty-fourth street, between Avenue B and East river.
(Widening and extension of) Elm street, between Chatham and Fourth streets.
One Hundred and Forty-sixth street, between Avenue St. Nicholas and Tenth avenue.
Eighty-third street, between Avenue A and East river.
One Hundred and Thirty-third street, between Eighth avenue and Avenue St. Nicholas.
One Hundred and Forty-eighth street, between Seventh and Eighth avenues.
One Hundred and Forty-ninth street, between Seventh and Eighth avenues.
Fifty-third street, between Eleventh avenue and Hudson river.
One Hundred and Fourth street, between Boulevard and Riverside avenue.
Ninety-eighth street, between Boulevard and Riverside avenue.
(Convent property) One Hundred and Twenty-seventh, One Hundred and Twenty-eighth, One Hundred and Twenty-ninth, One Hundred and Thirtieth, One Hundred and Thirty-first and One Hundred and Thirty-third streets, between Tenth avenue and Avenue St. Nicholas; Cliff and Convent avenues, between One Hundred and Twenty-sixth and One Hundred and Thirty-seventh streets.
One Hundred and Fifth street, between Boulevard and Riverside avenue.
One Hundred and Sixth street, between Boulevard and Riverside avenue.
One Hundred and Seventh street, between Eighth and Riverside avenues.
One Hundred and Eighth street, between Eighth and Riverside avenues.
One Hundred and Ninth street, between Eighth and Riverside avenues.
Ninety-fourth street, between Second and Third avenues.
One Hundred and Sixty-third street, between Tenth avenue and Edgecombe road.
One Hundred and Sixtieth street, between Tenth and Eleventh avenues.
One Hundred and Sixty-first street, between Tenth and Eleventh avenues.
One Hundred and Eighty-first street, between Tenth and Eleventh avenues.
One Hundred and Sixty-seventh street, between Tenth avenue and Edgecombe road.
One Hundred and Forty-second street, between Tenth avenue and Boulevard.

Being a total of thirty-five streets and avenues, with an aggregate length of 63,891 linear feet; for which three copies of the assessment maps are to be made, covering about 28,500 city lots.

For the new streets and avenues to be placed upon the Commissioner's map of the City of New York, profiles and new grades have to be determined and copies filed with the plans, which cause additional field work, etc.

Petitions for the following streets and avenues have been received, for which the maps, etc., have been prepared and forwarded to the Board of Street Opening and Improvement, viz.:

(Final damage, benefit and assessment lists have been completed during the year, 1883.)
One Hundred and Thirty-fourth street, between Avenue St. Nicholas and Eighth avenue.
One Hundred and Thirty-fifth street, between Avenue St. Nicholas and Eighth avenue.
Fifty-third street, between Tenth and Eleventh avenues.
One Hundred and Twenty-sixth street, between First and Second avenues.
One Hundred and Second street, between Eighth and Riverside avenues.
One Hundred and Thirty-eighth street, between Boulevard and Tenth avenue.
One Hundred and Twenty-seventh street, between Avenue St. Nicholas and Eighth avenue.
One Hundred and Twenty-eighth street, between Avenue St. Nicholas and Eighth avenue.
One Hundred and Twenty-ninth street, between Avenue St. Nicholas and Eighth avenue.
One Hundred and Twelfth street, between new avenue west of Eighth avenue, and Eighth avenue.
One Hundred and Forty-fourth street, between new avenue west of Eighth avenue and Eighth avenue.
One Hundred and Third street, between Riverside and Eighth avenues.
Ninety-seventh street, between Riverside avenue and Boulevard.
One Hundred and Thirty-ninth street, between Boulevard and 425 feet westerly.
One Hundred and Sixty-second street, between Tenth avenue and Edgecombe road.
One Hundred and Forty-third street, between Tenth avenue and Boulevard.
One Hundred and Fifty-fourth street, between Tenth avenue and Avenue St. Nicholas.
Beekman Place, east of First avenue, between Forty-ninth and Fifty-first streets.
One Hundred and Thirty-second street, between Tenth avenue and Broadway.
One Hundred and Twentieth street, between Eighth and Ninth avenues.

Making a total of twenty streets and avenues, for which complete maps, lists, etc., have been delivered to the Board of Street Opening and Improvement, some of which are new streets and avenues to be placed upon the Commissioner's Map of the City of New York; the total length amounting to 15,314 linear feet of streets and avenues, for which three copies were made, including about 3,650 city lots.

GRADES.

The absence of established grades for a large portion of the city north of One Hundred and Fifty-fifth street, and of streets through which outlet sewers are to reach the rivers, prevents the completion of the plans for the sewerage of this District.

Public improvements are much needed, and many purchasers at the recent sale of the Jumel estate, have petitioned for sewerage, which cannot be had until streets following the natural outlets near One Hundred and Sixty-seventh street and One Hundred and Seventy-eighth street are laid out from Edgecombe road and Tenth avenue to Harlem river.

As the establishing of grades is the preliminary step in all public improvements, I would urgently request that the Commissioners of Public Parks be asked to complete the laying out of streets and the establishing of grades in this section of the city.

A recent decision of the courts has declared the grades of streets established under authority of chapter 593, Laws of 1870, between the Eighth and Ninth avenues and from Fifty-ninth to One Hundred and Twenty-second streets unlawful. It was thought possible to legalize or establish these grades in the usual way provided by law, and to this end owners were asked to petition for the change, but in the majority of cases owners representing the proportion of the required number of feet front, could not be obtained. In the few cases where the owners were sufficiently interested, the grades have been changed.

In view of these difficulties, and the urgent necessity of completing public improvements on the West side, I would recommend that the Legislature be asked to legalize the grades fixed and established under the before-mentioned act.

Respectfully submitted,

STEVENSON TOWLE, Engineer in Charge of Sewers.

REPORT OF THE TRANSACTIONS OF THE OFFICE OF THE ENGINEER IN CHARGE OF SEWERS, FOR THE QUARTER ENDING DECEMBER 31, 1883.

Credits to General Fund—

Amount received for 260 permits for sewer connections.....	\$7,404 97
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Engineers' Fees—

Amount of Engineers' and Surveyors' fees, assessed on property benefited, charged on Assessment Lists and credited to Street Improvement Fund.....	\$7,839 48
--	------------

Sewers—Repairing and Cleaning—

Balance on hand, September 30, 1883.....	\$18,898 20
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Laborers, etc.....	\$10,305 39
Special repairs.....	5,681 09
Sundries, materials, etc.....	1,404 62
Transportation expenses.....	448 44
Balance on hand December 31, 1883.....	1,058 66
	18,898 20

Salaries—Sewers—Repairing and Cleaning—

Balance on hand September 30, 1883.....	\$2,117 20
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Inspectors, etc.....	\$2,215 75
Balance on hand December 31, 1883.....	1 45
	2,117 20

Salaries—Sewerage System—

Balance on hand September 30, 1883.....	\$2,521 62
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Engineers, etc.....	\$2,520 95
Balance on hand December 31, 1883.....	67
	2,521 62

Surveys, Maps, etc., for Street Openings—

Balance on hand September 30, 1883.....	\$3,319 60
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Draughtsmen, etc.....	\$3,318 66
Balance on hand December 30, 1883.....	94
	3,319 60

Restoring and Repaving over Street Openings for Water and Sewer Connections—

Special Fund—	
Amount received for 329 permits for street openings.....	\$3,991 00
Vouchers transmitted to the Commissioner of Public Works—	
Pay-rolls of Inspectors, etc.....	1,644 00
Repaving, etc.....	5,985 50
Materials.....	89 60

Street Improvement Fund—

Vouchers transmitted to the Commissioner of Public Works.....	\$100,735 15
Pay-rolls of Engineers, etc.....	\$8,209 59
Pay-rolls of Inspectors on Sewers.....	6,992 00
On contracts for sewers, etc.....	85,533 56
	100,735 15

For Surveys for Board of Street Opening and Improvement—

Voucher transmitted to the Commissioner of Public Works.....	\$696 83
Pay-roll of Draughtsmen, etc.....	696 83

Contingencies—Department of Public Works—

Vouchers transmitted to the Commissioner of Public Works.....	\$108 00
S. Towle, horse keeping, etc., September, 1883.....	\$33 00
John Kelly, horse and wagon for the use of the General Inspector of Sewers.....	75 00
	108 00

Work done by Mechanics and Laborers—Charles H. Babcock, General Inspector—

511 receiving-basins and culverts cleaned.	
7,525 lineal feet of sewer cleaned.	
872 " sewer rebuilt.	
189 " culvert rebuilt.	
75 " spur pipe laid.	
47 receiving-basins repaired.	
15 new basin-heads put on.	
8 basin-heads reset.	
12 new basin covers put on.	
6 manholes rebuilt.	
63 manholes repaired.	
40 new manhole heads and covers put on.	
36 manhole heads reset.	
363 new manhole covers put on.	
8 lineal feet of curb reset.	
121 square feet of flagging relaid.	
104 " crosswalks relaid.	
596 square yards of pavement relaid.	
477 cubic yards of earth filled in.	
1,815 " earth excavated and refilled.	
1,409 cart loads of dirt removed.	

Work done by Contract—

11,194 lineal feet of sewer built.
784 " culvert built.
107 " drain built.
42 receiving-basins built.

Making the present total length of sewerage in the city 2,102,025 lineal feet (398 11-100 miles), with 4,822 receiving-basins.

REPORT OF THE TRANSACTIONS OF THE OFFICE OF THE ENGINEER IN CHARGE OF SEWERS,
FOR THE YEAR ENDING DECEMBER 31, 1883.

Work done by Mechanics and Laborers—Charles H. Babcock, General Inspector—

2,260 receiving-basins and culverts cleaned.
71,435 lineal feet of sewer cleaned.
5,057 " sewer rebuilt.
589 " sewer repaired.
608 " culvert rebuilt.
285 " spur-pipe laid.
71 receiving-basins rebuilt.
154 receiving-basins repaired.
57 new basin-heads and covers put on.
39 basin-heads reset.
30 new basin covers put on.
10 new manholes built.
28 manholes rebuilt.
325 manholes repaired.
184 new manhole heads and covers put on.
169 manhole heads reset.
1,518 new manhole covers put on.
84 lineal feet of brick drain repaired.
103 " curb reset.
6 bulkheads built.
1,136 square feet of flagging relaid.
152 " crosswalk relaid.
79 cubic yards of stone wall built.
4,768 square yards of pavement relaid.
646 cubic yards of earth filled in.
16,314 " earth excavated and refilled, and
7,875 cart-loads of dirt removed.

Work done by contract—

33,454 lineal feet of sewer built.
2,833 " culvert built.
130 receiving-basins built.
1,976 lineal feet of house connections built.
107 " drain built.

Making the present total length of sewerage in the city 2,102,025 lineal feet (398 11-100 miles) with 4,822 receiving-basins.

Document "H."

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF STREET IMPROVEMENTS, ROOM 5, NO. 31 CHAMBERS STREET,
NEW YORK, January 10, 1884.

Hon. HUBERT O. THOMPSON, *Commissioner of Public Works*:

SIR—In compliance with your instructions, I have the honor to submit herewith my report of the operations of the Bureau of Street Improvements for the three months of October, November, December, and also for the year 1883:

During the year fifty-two contracts have been completed, at a cost of \$493,190.38, and for which assessment lists have been transmitted to the Chief Clerk's Office.

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

First avenue, from Ninety-second to One Hundred and Ninth street, regulating, grading, etc.
Fourth avenue, from One Hundred and Thirty-third to One Hundred and Thirty-fifth street, regulating, grading, etc.
Tenth avenue, from Ninety-third to Ninety-fifth street, regulating, grading, etc.
Sixty-second street, from Tenth to Eleventh avenue, regulating, grading, etc.
Eighty-third street, from Boulevard to Riverside Drive, regulating, grading, etc.
Eighty-ninth street, from Eighth to Tenth avenue, regulating, grading, etc.
One Hundredth street, from Third to Second avenue, regulating, grading, etc.
One Hundred and Thirteenth street, from Fifth to Eighth avenue, regulating, grading, etc.
One Hundred and Sixteenth street, from Eighth to Ninth avenue, regulating, grading, etc.
One Hundred and Twenty-third street, from St. Nicholas to Ninth avenue, regulating, grading, etc.
One Hundred and Thirty-sixth street, from Fifth to Eighth avenue, regulating, grading, etc.
One Hundred and Forty-fourth street, from Eighth to St. Nicholas avenue, regulating, grading, etc.
Also the regulating, grading, paving, etc., of Gansevoort Market.

WORKS UNDER CONTRACT.

Morningside avenue, west—Regulating, grading, etc., from One Hundred and Tenth street to Tenth avenue—

This work has been actively progressed during the year, and it is expected that the same will be completed during the summer months.

Morningside avenue, east, from One Hundred and Tenth to One Hundred and Twenty-third street, and One Hundred and Twenty-third street, from Ninth to Tenth avenue—Regulating, grading, paving, etc.—

This contract was commenced on October 5, 1883, and is in very fair progress, and there is no doubt of its completion during the year.

Ninth avenue, regulating and grading from One Hundred and Fifty-first to One Hundred and Fifty-fifth street—

This work is nearly completed.

Fifty-third street, regulating, grading, etc., from Tenth to Eleventh avenue—

This is a very necessary work, being in the vicinity of a nearly built-up district, and since its commencement on November 14, 1883, has progressed so rapidly as to give a reasonable assurance of its being completed by midsummer.

Sixty-fourth street, from First avenue to East river, regulating, grading, etc.—

Work on this street commenced December 3, 1883, since which time it has made fair progress; it will probably take the present year to complete it.

Sixty-sixth street, from Eighth avenue to Boulevard, regulating, grading, etc.—

The rock excavation on this contract is now so nearly completed that it is expected to be ready for curb and flagging with the advent of the spring season.

Sixty-seventh street, from Third avenue to Avenue A, regulating, grading, etc.—

This work is now nearly completed.

Eighty-fifth street, from Ninth to Tenth avenue, regulating and grading—

The former contractor having ceased work on this street, the contract was declared abandoned and relet. It is now so far advanced that its completion may be expected in about thirty days.

Eighty-fifth street, from Tenth avenue to Riverside Drive, regulating, grading, etc.—

This contract has been in a fair state of progress since its commencement, on October 1, 1883, and will probably be completed during the present year.

Eighty-eighth street, from Tenth avenue to Riverside Drive, regulating, grading, etc.—

The grade on this street having been changed during the progress of the work, it necessitated a much larger amount of excavation than was at first contemplated. This part of the work is very nearly done, and it is expected that it will all be completed in the spring months.

Ninety-fifth street, from Tenth avenue to Riverside Drive, regulating, grading, etc.—

About all the earth excavation has been made on this street; there are about 8,000 cubic yards of rock yet to be removed, besides curbing and flagging, and will be completed in the fall months.

Ninety-eighth street, from Fourth to Fifth avenue, regulating, grading, etc.—

This contract requires very deep filling over low soft land, and will, in all probability, take the bulk of the next summer season to complete it.

Ninety-ninth street, from Fourth to Fifth avenue, regulating, grading, etc.—

This work also required very deep filling, but is now so nearly completed that it can soon be finished when the spring opens.

One Hundredth street, from Third avenue to five feet east of Fourth avenue, regulating, grading, etc.—

The former contractor having stopped work the contract was declared abandoned and relet. It is now well in work and may be expected to be completed in the early part of the summer season.

One Hundredth street, from Fourth to Fifth avenue, regulating, grading, etc.—

This contract is largely over low land, and since its commencement on October 9, 1883, has made good progress, and will probably be finished during the year.

One Hundredth street, from Boulevard to Riverside Drive, regulating, grading, etc.—

The work on this contract is nearly done, mainly requiring the setting of some curb and flagging in order to complete it, and will be completed in the early spring months.

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

This contract is making fair progress, and its completion may be expected during the autumn months.

One Hundred and First street, from Fourth to Fifth avenue, regulating, grading, etc.—

The work on this contract has made good progress since its commencement, September 10, 1883, and is expected to be finished during the present year.

One Hundred and Third street, from Tenth avenue to Riverside Drive, regulating, grading, etc.—

This contract has so far advanced that it will in all probability be completed during the spring or early summer months.

One Hundred and Eleventh street, from Sixth to Eighth avenue, regulating, grading, etc.—

This large work is over two-thirds done, and is expected to be finished in May or June next.

One Hundred and Twelfth street, from Seventh to Eighth avenue, regulating, grading, etc.—

On this contract there has not been much progress made for some time back, in consequence of which it will probably be declared abandoned and relet.

One Hundred and Twelfth street, from Madison to Sixth avenue, regulating, grading, etc.—

This work is so far advanced, that it will probably be completed in the spring months.

One Hundred and Seventeenth street, from Fourth to Fifth avenue, regulating, grading, etc.—

This contract is mostly rock cutting and has made rapid progress since its commencement, and is reported to be completed during the year.

One Hundred and Eighteenth street, from Fourth to Sixth avenue, regulating, grading, etc.—

This work is also largely rock cutting and has made fair progress. It will probably be completed during the year.

One Hundred and Nineteenth street, from Seventh to Eighth avenue, flagging—

This work is now completed.

One Hundred and Twenty-second street, from Fourth to Madison avenue, regulating, grading, etc.—

The rock cutting on this contract is now nearly done and the work will be completed in the spring months.

One Hundred and Thirty-seventh street, from Fifth to Seventh avenue, regulating, grading, etc.—

This contract was declared abandoned and relet, since which time it has made good progress and will be completed in the spring or early summer.

One Hundred and Thirty-eighth street, from Sixth to Eighth avenue, regulating, grading, etc.—

This work is now so far advanced as to be easily finished by the first of May next.

One Hundred and Forty-first street, from Seventh to Eighth avenue, regulating, grading, etc.—

Very little work has yet been done on this contract, it is expected, however, that it will be completed during the summer months.

One Hundred and Forty-first street, from St. Nicholas to Tenth avenue, regulating, grading, etc.—

This work is now completed, but has not yet been accepted by the Department.

One Hundred and Fifty-first street, from St. Nicholas avenue to Boulevard, regulating, grading, etc.—

This contract is in such a state of progress that it may be expected to be completed during the spring months.

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

This work is mainly one of heavy rock cutting and is so far advanced that its completion may be expected during the year.

One Hundred and Fifty-sixth street, from St. Nicholas avenue to Boulevard, regulating, grading, etc.—

This contract is so near done that its completion may be expected in the early spring months.

One Hundred and Fifty-seventh street, from Tenth avenue to Boulevard, regulating, grading, etc.—

Work on this contract was commenced December 17, 1883, and is in fair progress and will probably be finished in the latter part of the year.

One Hundred and Fifty-eighth street, from Kingsbridge road to Public Drive, regulating, grading, etc.—

This work was commenced August 1, 1883, and is in a fair state of forwardness and will, in all probability, be finished during the fall months.

One Hundred and Sixty-fifth street, from Tenth to Eleventh avenue, regulating, grading, etc.—

This work has just commenced and it is hoped that it will be completed during the summer.

One Hundred and Seventy-fifth street, from Tenth avenue to Kingsbridge road, curbing and flagging—

This contract is expected to be completed in the spring, it having been suspended during the winter.

Filling in the low and sunken land between One Hundred and Forty-third and One Hundred and Fifty-fifth streets, and between Eighth and Ninth avenues—

This has been a large work, covering as it does a considerable extent of low marshy ground. Further progress has been suspended thereon, during the inclement season. It is, however, so nearly completed, that it can be easily finished in the early spring.

APPROPRIATIONS.

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

The appropriation for this purpose amounted to \$1,500, which sum has been (with the exception of a few other necessary expenses) mainly used to defray expenses for numbering streets and avenues in the Twenty-third and Twenty-fourth Wards, done under the direction of resolutions of the Common Council for that purpose. The work, although not yet fully completed, is at present far advanced and may be continued this year with advantage to the population of that part of the City.

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

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

Respectfully submitted,

GEORGE A. JEREMIAH,
Superintendent Street Improvements.

STATEMENT OF THE AMOUNT OF WORK DONE DURING THE QUARTER ENDING DECEMBER 31, 1883.

Earth excavated, cubic yards	34,010
Rock excavated, cubic yards	21,760
Filling furnished, cubic yards	101,457
Curb-stones set, linear feet	21,812 ¹¹ / ₁₂
Curb-stones reset, linear feet	111
Flagging laid, square feet	100,094 ⁸ / ₉
Flagging relaid, square feet	444
Picket fence built, linear feet	2,471
Stone masonry built, cubic yards	576

Work Done in Front of City Property.

Curb-stones set, linear feet	354
Curb-stones reset, linear feet	12
Flagging laid, square feet	3,918 ¹ / ₁₀
Flagging relaid, square feet	5,148

AMOUNT OF VOUCHERS DRAWN.

On account of—	
Street Improvement Fund, contracted after June 9, 1880	\$125,598 30
Street Improvement Fund, June 9, 1880	237 00
Street Improvements above Fifty-ninth street, June 9, 1880	5,458 62
Street Improvements—For Surveying, Monumenting and Numbering of Streets	63 50
Flagging Sidewalks and Fencing Vacant Lots in front of City Property	1,318 20
Gansevoort Market	263 10
Contingencies—Department of Public Works	62 50

Total \$133,001 22

APPROPRIATIONS.

Street Improvements—For Surveying, Monumenting and Numbering of Streets	\$1,500 00
Amount of Vouchers drawn	\$1,436 50
Outstanding Liabilities, estimated	15 00
Balance, estimated	48 50

Flagging Sidewalks and Fencing Vacant Lots in front of City Property	\$1,500 00
Amount of Vouchers drawn	\$1,499 73
Balance	27

Gansevoort Market—	
Amount of Vouchers drawn	\$263 10

Contingencies—Department of Public Works—	
Amount of Voucher drawn	\$62 50

WORKS COMPLETED.

Regulating, grading, etc.—	
Eighty-third street, from Boulevard to Riverside Drive	\$5,612 28
Eighty-ninth street, from Eighth to Tenth avenue	28,315 76
One Hundredth street, from Third to Second avenue	4,322 23
One Hundred and Twenty-third street, from St. Nicholas to Ninth avenue	3,717 64
One Hundred and Twenty-seventh street, from St. Nicholas to Eighth avenue	1,112 81
One Hundred and Thirty-sixth street, from Fifth to Eighth avenue, except between Sixth and Seventh avenues	13,376 88
One Hundred and Forty-first street, from Eighth to St. Nicholas avenue	4,192 56

Curbing and flagging—	
Eighty-eighth street, from Eighth to Tenth avenue	\$6,123 27
One Hundred and Fifty-third street, from St. Nicholas to Tenth avenue	816 77

Flagging—	
West side First avenue, from Fifty-sixth to Sixty-fourth street, etc.	\$1,105 44
West side Second avenue, from Seventy-sixth to Seventy-seventh street, etc.	861 94
West side Second avenue, from Ninety-fifth to Ninety-sixth street, etc.	517 44
West side Third avenue, from One Hundred and Second to One Hundred and Third street	149 51
West side Tenth avenue, from Fifty-eighth to Sixtieth street	919 11
West side Eleventh avenue, from Fifty-fifth to Fifty-eighth street	1,074 69
North side Sixty-third street, from Second to Third avenue	574 79
North side Seventy-third street, from Tenth avenue to 100 feet east	157 32

Fencing vacant lots—	
Eighth and Ninth avenues, and Ninety-ninth and One Hundredth streets	\$900 66
North side Ninety-sixth street, from Riverside Drive to Boulevard	434 26

Total \$74,285 26

AMOUNT OF WORK DONE DURING THE YEAR 1883.

NATURE OF WORK.	JANUARY 1 TO MARCH 31.	APRIL 1 TO JUNE 30.	JULY 1 TO SEPTEMBER 30.	OCTOBER 1 TO DECEMBER 31.	TOTAL.
Earth excavated, cubic yards	11,268	10,377	7,632 ¹¹ / ₁₀	34,010	63,287 ¹¹ / ₁₀
Rock excavated, cubic yards	25,482	23,867	24,528 ¹¹ / ₁₀	21,760	95,637 ¹¹ / ₁₀
Filling furnished, cubic yards	53,400	95,651	113,624	101,457	364,132
Curb-stones set, linear feet	1,600	5,563 ³ / ₄	7,381 ¹ / ₂	21,812 ¹¹ / ₁₂	36,358 ³ / ₁₂
Curb-stones reset, linear feet	.....	.....	.....	111	111
Gutter-stones set, linear feet	1,600	357 ¹ / ₁₀	.....	.....	1,957 ¹ / ₁₀
Flagging laid, square feet	6,000	89,295 ¹¹ / ₁₀	37,782 ¹¹ / ₁₀	100,010 ⁸ / ₉	233,088 ¹¹ / ₁₀
Flagging relaid, square feet	.....	.....	.....	444	444
Dry stone box culvert built, linear feet	357	60	26	.....	443
Picket fence built, linear feet	44	153 ¹ / ₂	1,364 ¹ / ₂	2,471	4,032 ¹ / ₂
Stone masonry built, cubic yards	3,178	5,160	5,440	576	14,354
Concrete laid, cubic yards	.....	237	.....	.....	237
Pavement laid, square yards	.....	1,474	.....	.....	1,474

Work done in front of City Property.

Curb-stones set, linear feet	.....	.....	.....	354	354
Curb-stones reset, linear feet	.....	.....	.....	12	12
Flagging laid, square feet	.....	.....	.....	3,918 ¹ / ₁₀	3,918 ¹ / ₁₀
Flagging relaid, square feet	.....	.....	.....	5,148	5,148
Picket fence built, linear feet	.....	.....	.....	33	33

AMOUNT OF VOUCHERS DRAWN.

ON ACCOUNT OF—	JANUARY 1 TO MARCH 31.	APRIL 1 TO JUNE 30.	JULY 1 TO SEPTEMBER 30.	OCTOBER 1 TO DECEMBER 31.	TOTAL.
Street Improvement Fund contracted after June 9, 1880	\$47,671 09	\$87,791 32	\$89,723 60	\$125,598 30	\$344,784 31
Street Improvement Fund, June 9, 1880	8,531 40	348 00	9,091 00	237 00	18,207 40
Street Improvements above Fifty-ninth street, June 9, 1880	14,257 78	21,183 38	19,059 70	5,458 62	59,959 48
Street Improvements, for Surveying, Monumenting, and Numbering of Streets	1,373 00	.....	.....	63 50	1,436 50
Flagging Sidewalks and Fencing Vacant Lots in front of City Property	.....	81 90	99 63	1,318 20	1,499 73
Gansevoort Market	.....	9,464 17	.....	263 10	9,727 27
Contingencies—Department of Public Works	62 50	62 50	96 62	62 50	284 12
Total	\$65,895 77	\$118,931 27	\$118,070 55	\$133,075 18	\$435,898 81

WORKS COMPLETED DURING THE YEAR 1883.

Regulating, Grading, Paving, etc.—	
Gansevoort Market	\$16,370 94

Regulating, Grading, etc.—	
First avenue, from Ninety-second to One Hundred and Ninth street	\$266,951 58
Fourth avenue, from One Hundred and Thirty-third to One Hundred and Thirty-fifth street	4,127 02
Tenth avenue, from Ninety-third to Ninety-fifth street	3,881 85
Sixty-second street, from Tenth to Eleventh avenue	19,058 84
Eighty-third street, from Boulevard to Riverside Drive	5,612 28
Eighty-ninth street, from Eighth to Tenth avenue	28,315 76
One Hundredth street, from Third to Second avenue	4,322 23
One Hundred and Twenty-third street, from Fifth to Eighth avenue	40,457 43
One Hundred and Sixteenth street, from Eighth to Ninth avenue	10,222 64
One Hundred and Twenty-third street, from St. Nicholas to Ninth avenue	3,717 54
One Hundred and Twenty-seventh street, from St. Nicholas to Eighth avenue	1,112 81
One Hundred and Thirty-sixth street, from Sixth to Seventh avenue	6,841 67
One Hundred and Thirty-sixth street, from Fifth to Eighth avenue, except between Sixth and Seventh avenues	13,376 88
One Hundred and Forty-first street, from Eighth avenue to St. Nicholas avenue	4,192 56
One Hundred and Seventy-fifth street, from Tenth avenue to Kingsbridge road	27,666 29

Curb and Flagging—	
Eighty-eighth street, from Eighth to Tenth avenue	\$6,123 27
One Hundred and Twenty-second street, from Seventh to Eighth avenue	3,939 99
One Hundred and Fifty-third street, from St. Nicholas avenue to Tenth avenue	816 77

Flagging—	
East side Madison avenue, from One Hundred and Twenty-fifth to One Hundred and Twenty-sixth street	\$213 41
East side Avenue A, from Sixtieth to Sixty-fourth street	726 80
East side Avenue A, from Seventy-first to Seventy-third street	1,045 51
East side Avenue A, from Seventy-sixth to Eightieth street	1,071 66
West side First avenue, from Fifty-sixth to Sixty-fourth street	1,105 44
East side Second avenue, from Sixty-seventh to Sixty-ninth street	972 74
East side Second avenue, from Seventy-sixth to Seventy-seventh street	861 94
East side Second avenue, from Ninety-fifth to Ninety-sixth street	517 44
East side Third avenue, from Ninety-third to One Hundred and First street	2,695 73
West side Third avenue, from One Hundred and Second to One Hundred and Third street	149 51
East side Fifth avenue, from Seventy-second to Eighty-sixth street	2,801 46
East side Eighth avenue, from One Hundred and Twenty-fourth to One Hundred and Twenty-fifth street	268 20
East side Ninth avenue, from Sixty-fourth to Seventy-first street	4,219 90
East side Ninth avenue, from Seventy-second to Seventy-third street	958 21
East side Tenth avenue, from Fifty-eighth to Sixtieth street	919 11
East side Eleventh avenue, from Fifty-fifth to Fifty-eighth street	1,074 69
North side Sixty-third street, from Second to Third avenue	574 79
North side Seventy-third street, from Tenth avenue to one hundred feet east	157 32
North side Ninety-eighth street, from Eighth to Ninth avenue	1,821 94
North side Ninety-eighth street, from Ninth avenue to Boulevard	2,417 26
South side One Hundred and Sixth street, from Lexington to Fourth avenue	224 00

Fencing Vacant Lots—	
Eighth and Ninth avenues and Ninety-ninth and One Hundredth streets	\$900 66
West side Boulevard, north of Ninety-ninth street	118 59
East side Lexington avenue, from Eighty-ninth to Ninetieth street	340 98
East side Lexington avenue, sixty-two feet north of One Hundred and Nineteenth street	23 29
Northwest corner of Madison avenue and One Hundred and Twenty-seventh street	94 20
Nos. 349 and 351 West Eleventh street	23 76
North side Fifty-seventh street, from Ninth to Tenth avenue	26 68
Northeast corner Eighty-third street and Madison avenue	74 70
South side Eighty-fourth street, from Third to Lexington avenue	83 05
North side Ninety-sixth street, from Riverside Drive to Boulevard	434 26
South side One Hundred and Fourteenth street commencing seventy feet west of Second avenue	24 30
South side One Hundred and Twenty-fourth street commencing four hundred feet east of Eighth avenue	40 50

Total \$493,190 38

RECAPITULATION.

1 contract for regulating, grading, paving, etc.	\$16,370 94
15 contracts for regulating, grading, etc.	439,857 38
3 contracts for curb and flagging	9,980 03
21 contracts for flagging	24,797 06
12 contracts for fencing vacant lots	2,184 97
52 contracts.	Total \$493,190 38

Statement showing Works under Contract in Bureau of Street Improvements on the 31st day of December, 1883.

LOCATION OF WORK.	CONTRACTOR.	SURVEYOR.	INSPECTOR.	CONTRACT TIME.	ESTIMATED COST.	AMOUNT EARNED.	AMOUNT RETAINED.	AMOUNT PAID.	REMARKS.
Regulating, Grading, Curb, Gutter and Flagging—									
Morningside avenue, One Hundred and Tenth street to Tenth avenue.....	James W. O'Grady....	Peter J. Moran.....	James McCarthy.....	350 days.	\$60,599 10	\$105,490 86	\$31,647 24	\$73,843 62	
Morningside avenue, east, and One Hundred and Twenty-third street.....	L. W. Johnson.....	Peter J. Moran.....	R. H. Birmingham..	425 "	57,611 54	.....	.....	.....
Ninth avenue, One Hundred and Fifty-first street to One Hundred and Fifty-fifth street.....	John Brady.....	W. V. Smith.....	R. Gardner.....	100 "	4,418 40	.....	.....	.....
Fifty-third street, Tenth avenue to Eleventh avenue.....	J. D. Miner.....	J. B. Bacon.....	S. Bennett.....	150 "	15,925 00	.....	.....	.....
Sixty-fourth street, First avenue to East river.....	J. McKim & Son.....	W. V. Smith.....	Charles McSorley....	200 "	10,000 45	.....	.....	.....
Sixty-sixth street, Eighth avenue to Boulevard.....	John Mulholland.....	F. M. Leonard.....	Jeremiah Chadwick..	300 "	14,372 76	11,258 00	3,377 40	7,880 60	
Sixty-seventh street, Third avenue to Avenue A.....	Henry Toner.....	F. E. Towle.....	Philip F. Schmitt....	175 "	20,280 80	19,157 00	5,747 10	13,409 90	
Eighty-fifth street, Ninth avenue to Tenth avenue.....	Michael Fay.....	W. V. Smith.....	Wesley J. Weiant....	85 "	2,374 15	.....	.....	.....
Eighty-fifth street, Tenth avenue to Riverside Drive.....	William Kelly.....	H. K. Vele.....	Francis S. McAvoy....	120 "	19,790 60	24,120 00	7,236 00	16,884 00	
Eighty-eighth street, Tenth avenue to Riverside Drive.....	John Brady.....	E. L. Vele.....	James R. Mount.....	75 "	9,180 80	44,002 50	13,200 75	30,801 75	
Ninety-fifth street, Tenth avenue to Riverside Drive.....	John Brady.....	H. K. Vele.....	Matthew Stripp.....	50 "	15,676 28	.....	.....	.....
Ninety-eighth street, Fourth avenue to Fifth avenue.....	A. Dowdney.....	M. A. Kellogg.....	George G. Banzer....	350 "	6,101 50	5,944 00	1,783 20	4,160 80	
Ninety-ninth street, Fourth avenue to Fifth avenue.....	A. Dowdney.....	J. McIntyre Smith..	Morgan L. Ogden....	350 "	8,611 50	7,000 00	2,100 00	4,900 00	
One Hundredth street, Third avenue to five feet east of Fourth avenue.....	James Slattery.....	W. V. Smith.....	Isaac Smith.....	180 "	21,400 10	.....	.....	.....
One Hundredth street, Fourth avenue to Fifth avenue.....	Th. E. Crimmins.....	W. V. Smith.....	A. Delleit.....	325 "	9,421 30	.....	.....	.....
One Hundredth street, Boulevard to Riverside Drive.....	John Phelan.....	W. V. Smith.....	John Reilly.....	100 "	5,870 40	4,571 00	1,371 30	3,199 70	
One Hundred and First street, Third avenue to five feet east of Fourth avenue.....	John Kinsley.....	J. McIntyre Smith..	Edward C. Brady.....	300 "	25,789 44	18,000 00	5,400 00	12,600 00	
One Hundred and First street, Fourth avenue to Fifth avenue.....	John B. Devlin.....	W. V. Smith.....	James H. Reilly.....	275 "	13,230 80	2,883 00	864 90	2,018 10	
One Hundred and Third street, Tenth avenue to Riverside Drive.....	William E. Dean.....	W. V. Smith.....	W. E. Pallister.....	60 "	8,734 30	.....	.....	.....
One Hundred and Eleventh street, Sixth avenue to Eighth avenue.....	James Slattery.....	W. V. Smith.....	Thomas Pearson.....	350 "	25,230 10	15,200 00	4,560 00	10,640 00	
One Hundred and Twelfth street, Madison avenue to Sixth avenue.....	Phelan & Houghton..	W. V. Smith.....	Hugh Corrigan.....	320 "	10,339 40	5,882 80	1,764 84	4,117 96	
One Hundred and Twelfth street, Seventh avenue to Eighth avenue.....	John Brady.....	Eug. E. McLean.....	.....	275 "	13,857 49	1,584 00	475 20	1,108 80	
One Hundred and Seventeenth street, Fourth avenue to Fifth avenue.....	Patrick Farley.....	John E. Eastis.....	Henry Marshall.....	500 "	35,778 00	13,300 00	3,990 00	9,310 00	
One Hundred and Eighteenth street, Fourth avenue to Sixth avenue.....	M. Finn.....	W. V. Smith.....	Wm. H. Johnson.....	250 "	29,952 30	8,050 00	2,415 00	5,635 00	
One Hundred and Nineteenth street, Seventh avenue to Eighth avenue.....	Thos. Murray.....	R. L. Waters.....	.....	5 "	1,338 00	.....	.....	.....
One Hundred and Twenty-second street, Fourth avenue to Madison avenue.....	John Phelan.....	Eug. E. McLean.....	John Lawrence.....	200 "	18,139 50	12,750 00	3,825 00	8,925 00	
One Hundred and Thirty-seventh street, Fifth avenue to Seventh avenue.....	John S. Masterson....	W. V. Smith.....	Wm. F. Thompson....	125 "	9,008 08	1,620 00	486 00	1,134 00	
One Hundred and Thirty-eighth street, Sixth avenue to Eighth avenue.....	Patrick Farley.....	W. V. Smith.....	Wm. McEntee.....	200 "	14,977 90	7,445 00	2,233 50	5,211 50	
One Hundred and Forty-first street, Seventh avenue to Eighth avenue.....	John B. Devlin.....	W. V. Smith.....	J. J. Fitzgerald.....	300 "	6,302 41	.....	.....	.....
One Hundred and Forty-first street, St. Nicholas avenue to Tenth avenue.....	James Reilly.....	Chas. H. Haswell....	.....	150 "	10,934 80	12,450 75	3,735 23	8,715 52	
One Hundred and Fifty-first street, St. Nicholas avenue to Boulevard.....	Thomas Murray.....	W. V. Smith.....	Patrick Mallon.....	45 "	5,367 50	3,168 00	950 40	2,217 60	
One Hundred and Fifty-third street, sixty feet east of Seventh avenue to New avenue.....	Patrick Farley.....	J. McIntyre Smith..	Nathan Frank.....	350 "	23,435 30	13,300 00	3,990 00	9,310 00	
One Hundred and Fifty-sixth street, St. Nicholas avenue to Boulevard.....	John Slattery.....	W. V. Smith.....	George W. Nash.....	60 "	6,149 80	.....	.....	.....
One Hundred and Fifty-seventh street, Tenth avenue to Boulevard.....	Wm. E. Dean.....	W. V. Smith.....	W. J. Delahanty.....	180 "	12,808 50	.....	.....	.....
One Hundred and Fifty-eighth street, Kingsbridge road to Public Drive.....	William Phelan.....	W. V. Smith.....	Timothy Connors....	100 "	16,119 15	1,515 00	454 50	1,060 50	
One Hundred and Sixty-fifth street, Tenth avenue to Eleventh avenue.....	Wm. E. Dean.....	W. V. Smith.....	Denis Halnan.....	65 "	7,439 85	.....	.....	.....
One Hundred and Seventy-fifth street, Tenth avenue to Kingsbridge road.....	Bernard Mahon.....	W. V. Smith.....	.....	10 "	4,325 00	.....	.....	.....	Work not yet commenced.
Filling in Low and Sunken Land—									
One Hundred and Forty-third street and One Hundred and Fifty-fifth street, Eighth avenue to Ninth avenue.....	William Everard.....	W. V. Smith.....	.....	350 "	47,260 00	51,680 00	15,504 00	36,176 00	Work suspended.
Special Contracts.									
Flagging—									
East side Fifth avenue, Sixty-sixth to Sixty-seventh street, est.....	Thomas Murray.....	F. M. Leonard.....	.....	20 "	343 46	.....	.....	.....
East side Fifth avenue, Sixty-seventh street to Sixty-eighth st., est.....	Patrick Larney.....	F. M. Leonard.....	.....	20 "	306 28	.....	.....	.....
Eleventh avenue, Fifty-eighth street to Fifty-ninth street, est.....	Michael Mahony.....	R. L. Waters.....	.....	20 "	996 32	.....	.....	.....
Sixty-eighth street, First avenue to Second avenue.....	Michael Mahony.....	R. L. Waters.....	.....	20 "	958 88	.....	.....	.....
One Hundred and Eighteenth street, First avenue to Second avenue.....	Thomas Murray.....	F. M. Leonard.....	.....	20 "	481 58	.....	.....	.....
Boulevard and Avenues Regulating, Grading, Curb, Flagging, etc.—									
Eleventh avenue, One Hundred and Fifty-fifth street to Kingsbridge road.....	Michael Noonan.....	G. F. Babcock.....	.....	300 "	65,523 20	53,545 60	16,063 68	37,481 92	
Total.....					\$702,914 03	\$443,917 51	\$133,175 24	\$310,816 23	

Document, "I."

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

Hon. HUBERT O. THOMPSON, Commissioner of Public Works:

SIR—In compliance with your instructions, I have the honor to submit herewith my report for the quarter ending December 31, 1883, of the work done and material used and the amount expended on boulevards, roads, and avenues—maintenance of; and boulevards, roads, and avenues—salaries; also roads, streets and avenues unpaved—maintenance of; also a recapitulation of labor performed and material used during the year 1883, under the charge of this Bureau.

Respectfully,

JAMES J. MOONEY, Superintendent of Streets.

The following is a statement of work done and material used on the macadam roadways during the quarter ending December 31, 1883:

Repairing Avenue A, between Fifty-seventh and Eighty-sixth streets—Material used on the above was,

25 cubic yards of sharp gravel.

50 cubic yards of trap-rock.

Repairing Fifth avenue, between Fifty-ninth and One Hundred and Tenth streets—Material used on the above was,

75 cubic yards of sharp gravel.

100 cubic yards of sharp sand.

200 cubic yards of trap-rock.

Repairing Seventy-second street, between Avenue A and Fifth avenue—Material used on the above was,

20 cubic yards of sharp gravel.

60 cubic yards of trap-rock.

Repairing Western Boulevard, between Fifty-ninth and One Hundred and Fifty-fifth streets—Material used on the above was,

2 cubic yards of trap rock.

27 cubic feet of paving stones.

285 cubic yards of earth.

676 cubic yards of sharp sand.

Repairing One Hundred and Thirty-eighth street, west of Boulevard—Material used on the above was,

413 feet long by 12 feet wide of flagging laid.

413 feet of curb relaid.

396 feet long by 9 feet wide of paving.

80 feet long by 4 feet wide of flagging relaid.

Repairing Avenue St. Nicholas, between One Hundred and Tenth and One Hundred and Fifty-fifth streets—Material used on the above was,

1 cubic yard of earth.

10 cubic yards of Roa Hook gravel.

Repairing One Hundred and Twenty-second street, west of Boulevard—Material used on the above was,

17 cubic yards of sharp sand.

Repairing Twelfth avenue and One Hundred and Thirty-third street—Material used on the above was,

397 cubic yards of earth.

Repairing One Hundred and Forty-fifth street, between Eighth avenue and Boulevard—Material used on the above was,

2 cubic yards of earth.

80 cubic yards of sharp sand.

Repairing One Hundred and Sixty-seventh street and Tenth avenue—Material used on the above was,

2 cubic yards of earth.

Repairing Sixth avenue, between One Hundred and Tenth and One Hundred and Forty-fifth streets—Material used on the above was,

7 cubic yards of sharp sand.

4 cubic yards of earth.

Repairing Seventh avenue, between One Hundred and Tenth and One Hundred and Fifty-fourth streets—Material used on the above was,

117 cubic yards of sharp sand.

Repairing Pleasant avenue, between One Hundred and Sixteenth and One Hundred and Twenty-fourth streets—Material used on the above was,

16 cubic yards of sharp sand.

Repairing One Hundred and Sixteenth street, between First and Fifth avenues—Material used on the above was,

34 cubic yards of sharp sand.

Repairing One Hundred and Fifteenth street, between Sixth and Seventh avenues, and between Madison and Fifth avenues.

10 cubic yards of earth.

Laying and resetting bridge-stone at the following places:

Seventh avenue and One Hundred and Twenty-fifth street—Material used on the above was,

8 cubic yards of sand.

30 cubic yards of earth taken off.

156 feet of bridge-stone laid.

Sixth avenue and One Hundred and Twenty-fifth street—Material used on the above was,

2 cubic yards Telford.

4 cubic yards trap-rock.

4 cubic yards sand.

78 feet of bridge-stone.

The following streets, avenues and boulevards have been cleaned, and the amount of dirt taken away was:

Western Boulevard, between Fifty-ninth and One Hundred and Fifty-fifth streets,

135 cubic yards.

Avenue St. Nicholas, between One Hundred and Tenth and One Hundred and Fifty-fifth streets,

446 cubic yards.

Fifth avenue, between Fifty-ninth and One Hundred and Tenth streets,

150 cubic yards.

Avenue A, between Fifty-seventh and Eighty-sixth streets,

125 cubic yards.

Seventy-second street, between Avenue A and Fifth avenue,

45 cubic yards.

One Hundred and Tenth street between First and Fifth avenues,

44 cubic yards.

One Hundred and Sixteenth street, between First and Fifth avenues,

117 cubic yards.

One Hundred and Twenty-fourth street, between First and Fifth avenues,

32 cubic yards.

One Hundred and Forty-fifth street, between Eighth avenue and Avenue St. Nicholas,

40 cubic yards.

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

12 cubic yards.

Pleasant avenue, between One Hundred and Sixteenth and One Hundred and Twenty-fourth streets,

39 cubic yards.

First avenue, between One Hundred and Tenth and One Hundred and Twenty-fourth streets,

44 cubic yards.

Sixth avenue, between One Hundred and Tenth and One Hundred and Forty-fifth streets,
20 cubic yards.
Seventh avenue, between One Hundred and Tenth and One Hundred and Fifty-fourth streets,
30 cubic yards.

Cleaning basins and culverts at the following places :

- 2 basins, Avenue St. Nicholas and One Hundred and Thirty-ninth street.
- 54 feet of culvert.
- 1 basin, Avenue St. Nicholas and One Hundred and Thirty-seventh street.
- 1 basin, Seventy-second street and First avenue.
- 1 basin, Seventy-second street and Second avenue.
- 2 basins, Seventy-second street and Lexington avenue.
- 1 basin, Seventy-second street and Madison avenue.
- 4 basins, Seventy-second street and Fourth avenue.
- 6 basins, Avenue St. Nicholas, between One Hundred and Tenth and One Hundred and Fifty-fifth streets.
- 7 loads of dirt taken out of the above.
- 487 cubic yards of sand hauled from One Hundred and Thirteenth street and Twelfth avenue and piled on One Hundred and Twenty-first street and Park avenue.
- 401 cubic yards of sand hauled from One Hundred and Thirty-fifth street and Avenue St. Nicholas, and piled on One Hundred and Forty-fourth street and Seventh avenue.
- 562 cubic yards of sand hauled from One Hundred and Thirty-third street and Twelfth avenue, and piled on One Hundred and Twenty-first street and Seventh avenue.

The following streets, avenues and boulevards have been sprinkled :

- Avenue A, between Fifty-seventh and Eighty-sixth streets.
- First avenue, between One Hundred and Ninth and One Hundred and Twenty-fourth streets.
- Fifth avenue, between Fifty-eighth and One Hundred and Twenty-fourth streets.
- Sixth avenue, between One Hundred and Tenth and One Hundred and Forty-fifth streets.
- Seventh avenue, between One Hundred and Tenth and One Hundred and Fifty-fourth streets.
- Tenth avenue, between One Hundred and Fifty-first and One Hundred and Fifty-seventh streets.
- Seventy-second street, between Avenue A and Fifth avenue.
- Seventy-second street, between Eighth avenue and Riverside Drive.
- One Hundred and Tenth street, between Avenue A and Seventh avenue.
- One Hundred and Sixteenth street, between Avenue A and Seventh avenue.
- One Hundred and Twenty-third street, between Eighth avenue and Mount Morris Park.
- One Hundred and Twenty-fourth street, between First avenue and Seventh avenue.
- One Hundred and Forty-fifth street, between Sixth avenue and Western Boulevard.
- One Hundred and Fifty-fifth street, between Avenue St. Nicholas and Boulevard.
- Avenue St. Nicholas, between One Hundred and Tenth and One Hundred and Fifty-fifth streets.
- Pleasant avenue, between One Hundred and Nineteenth and One Hundred and Twenty-fourth streets.

- Park avenue, between One Hundred and Twentieth and One Hundred and Twenty-fourth streets.
- Western Boulevard, between Fifty-ninth and One Hundred and Fifty-fifth streets.

Repairing over sewers and water connections and material used :

- Water tap, south side Seventy-second street, two hundred and fifty feet west of Second avenue.
3 cubic yards Telford.
- 3 cubic yards trap-rock.
- Sewer connection, east side Fifth avenue, fifty feet north of Eighty-sixth street,
2 cubic yards gravel.
- 4 cubic yards trap-rock.
- Water tap repair, east side Fifth avenue, forty feet north of Seventy-eighth street,
1 cubic yard gravel.
- 2 cubic yards trap-rock.
- Sewer connection, Seventy-second street, 150 feet west of First avenue—
2 cubic yards gravel.
- 5 cubic yards Telford.
- 5 cubic yards trap-rock.
- Sewer connection, Seventy-second street, 150 feet west of Avenue A—
6 cubic yards Telford.
- 6 cubic yards trap-rock.
- Sewer connection, Seventy-second street, 230 feet east of Third avenue—
2 cubic yards gravel.
- 5 cubic yards Telford.
- 5 cubic yards trap-rock.
- Sewer connection, No. 221 East Seventy-second street—
7 cubic yards earth excavated.
- 2 cubic yards gravel.
- 6 cubic yards Telford.
- 6 cubic yards trap-rock.
- Sewer connection, Seventy-second street, north side, 55 feet east of Madison avenue—
2 cubic yards earth excavated.
- 2 cubic yards gravel.
- 9 cubic yards Telford.
- 9 cubic yards trap-rock.
- Sewer connection, east side First avenue, 75 feet east of One Hundred and Thirteenth street—
4 cubic yards Telford.
- Sewer connection, east side Avenue A, 33 feet south of Eighty-sixth street—
5 cubic yards earth excavated.
- 1 cubic yard gravel.
- 3 cubic yards Telford.
- 3 cubic yards trap-rock.
- Sewer connection, west side Kingsbridge road, between One Hundred and Eighty-first and One Hundred and Eighty-second streets—
16 cubic yards earth.
- Sewer connection, east side Kingsbridge road, 300 feet north of One Hundred and Sixty-second street—
4 cubic yards earth.
- Sewer connection, Ninth avenue, east side, 75 feet north of One Hundred and Twenty-fifth street—
4 cubic yards Telford.
- Sewer connection, northwest corner Seventy-second street and Third avenue—
1 cubic yard gravel.
- Sewer connection, One Hundred and Sixteenth street, 90 feet east of Fourth avenue—
1 cubic yard sand.
- 4 cubic yards Telford.
- Water tap, No. 232 East One Hundred and Tenth street—
1 cubic yard sand.
- Water tap repair, No. 218 East Seventy-second street—
1 cubic yard gravel.
- 3 cubic yards trap-rock.
- Sewer connection, First avenue, between One Hundred and Twelfth and One Hundred and Thirteenth streets—
4 cubic yards Telford.
- Sewer connection, One Hundred and Twenty-fourth street, north side, 225 feet east of Third avenue—
No material used.
- Water tap repair, No. 106 East One Hundred and Tenth street—
No material used.

The following is a statement of work done and material used at the Repair Shop of this Bureau at One Hundred and Twenty-second street and New avenue :

Sharpening 264 picks; pieced and steeled 152 picks; sharpening 10 crowbars; repairing one 2-horse roller; repairing 3 hand carts; repairing and painting water wagons Nos. 1, 2, 17, 18, 24, 27, 28 and 30; putting in 6 pick handles; putting in 4 handles in road rammer; making 6 round-headed crowbars; 3 new axles for water wagon; 10 tires set on water wagons; 4 new tires put on water wagon; 4 new sets of sway-bars and whiffletrees made; 4 new snow ploughs; 2 new scrapers; 2 new poles for scrapers; repairing roof of shop.

Material used on the above was :

468 lbs. iron; 356 carriage bolts; 3 lbs. bolt ends; 4 gross screws; 2 lbs. rivets; 15 feet 5-16 chain; 15 lbs. nails; 1 set 3-inch rims; 4 tiles; eight 3-inch spokes; 2 bundles shingles; 226 feet oak; 115 feet pine; 40 feet shelving; 32 feet white wood; 150 lbs. white lead; 5 lbs. putty; 24 lbs. English vermilion; 1 sponge; 5 lbs. black; 2 lbs. India red; 1 lb. glue; 4 lbs. marlin; 1 gallon sperm oil; 5 gallons raw oil; 5 gallons turpentine; 4 gallons varnish; 4 tons coal.

The following was the force employed during the quarter ending December 31, 1883 :

1 time-keeper; 3 foremen; 2 painters; 1 carpenter; 1 blacksmith; 2 blacksmith's helpers; 10 skilled laborers; 47 laborers; 27 2-horse teams; 2 horses and carts; 1 steam engineer. Total force employed was 97.

The following is the amount appropriated for 1883—Boulevards, Roads and Avenues—Maintenance of—Salaries Account :

Amount appropriated	\$2,100 00
Amount expended for first quarter	475 00
Balance April 2, 1883	\$1,625 00
Amount expended for second quarter	797 00
Balance July 2, 1883	\$828 00
Amount expended for third quarter	319 00
Balance October 1, 1883	\$509 00
Amount expended for the fourth quarter, is as follows :	
Pay-roll, Clerk, September	\$125 00
" " " October	125 00
" " " November	125 00
" " " December	125 00
	500 00
Balance January 2, 1884	\$9 00

The following is the amount appropriated for Boulevards, Roads and Avenues—Maintenance of, 1883 :

Amount appropriated	\$70,300 00
Amount expended first quarter	9,743 96
Balance April 2, 1883	\$60,556 04
Amount expended second quarter	19,038 61
Balance July 2, 1883	\$41,517 43
Amount expended third quarter	16,123 68
Balance October 1st, 1883	\$25,393 75
Amount expended for the fourth quarter ending December 31, 1883, is as follows :	
Pay-roll, Laborers, etc., September 30	\$2,967 74
" " " October 15	2,846 37
" " " " 31	3,775 86
" " " November 15	3,588 62
" " " " 30	3,309 63
" " " December 15	3,406 12
Lumber	15 57
Sundry articles for repair shop	56 75
Coal for office and shops	13 00
Repairs to sprinklers	59 15
Horse keep	90 00
Horseshoeing	13 50
Repairs to harness	18 75
	20,161 06
Balance January 2, 1884	\$5,232 69

The following is a statement of the work done and material used on the unpaved roads, streets and avenues—maintenance of, during the quarter ending December 31, 1883 :

- Repairing One Hundred and Second street, between Fourth and Fifth avenues.
- Repairing One Hundred and Twenty-first street, between Sixth and Eighth avenues.
- Repairing One Hundred and Twenty-second street, between Sixth and Seventh avenues.
- Repairing One Hundred and Thirty-fifth street, between Fifth avenue and Avenue St. Nicholas.
- Repairing One Hundred and Forty-third street, Old Broadway to Western Boulevard.
- Repairing One Hundred and Seventy-third street, from Tenth avenue to Kingsbridge road.
- Repairing Old Broadway, from One Hundred and Thirty-eighth to One Hundred and Forty-third street.
- Repairing Avenue St. Nicholas, from One Hundred and Fifty-fifth to One Hundred and Sixty-second street.
- Repairing Madison avenue, from Ninety-fourth to One Hundred and Thirteenth street.
- Repairing Tenth avenue, from One Hundred and Forty-third to One Hundred and Fiftieth street.
- Repairing Eleventh avenue, from One Hundred and Fifty-fifth to One Hundred and Sixty-seventh street.
- Repairing Depot lane, from Kingsbridge road to Hudson river.
- Repairing Bennett's lane, from Kingsbridge road to Inwood.
- Repairing Inwood lane, from Kingsbridge road to Hudson river.
- Repairing Farmers' Bridge road, from Kingsbridge road to Harlem river.
- Repairing Kingsbridge road, from One Hundred and Sixty-second street to Spuyten Duyvil.
- Repairing culvert in One Hundred and Forty-third street, between Broadway and Boulevard.
- Building bridge in Bennett's lane.
- Material used on the above was,
230 cubic yards of gneiss stone.
393 cubic yards of lime-stone chips.
218 cubic yards of sharp gravel.
300 cubic yards of sand.
175 cubic yards of building stone.
2,341 cubic yards of earth and clay.

The following streets, avenues and roads, have been sprinkled during the quarter ending December 31, 1883 :

- One Hundred and Thirty-eighth street, from Western Boulevard to Old Broadway.
- One Hundred and Fifty-fourth street, from Eighth avenue to McComb's Dam.
- One Hundred and Fifty-fifth street, from Eighth avenue to McComb's Dam.
- One Hundred and Fifty-fifth street, from Ninth avenue to Avenue St. Nicholas.
- Tenth avenue, from One Hundred and Forty-third to One Hundred and Fifty-first street.
- Eleventh avenue, from One Hundred and Fifty-fifth to One Hundred and Sixty-fifth street.
- Avenue St. Nicholas, from One Hundred and Fifty-fifth to One Hundred and Sixty-second street.
- Old Broadway, from One Hundred and Thirty-eighth to One Hundred and Forty-third street.
- One Hundred and Seventy-third street, from Kingsbridge road to Tenth avenue.
- Depot lane, from Kingsbridge road to Hudson river.
- Inwood lane, from Kingsbridge road to Hudson river.
- McComb's Dam road, from One Hundred and Forty-ninth to One Hundred and Fifty-fifth street.

Farmers' Bridge road, from Kingsbridge road to Harlem river.
Kingsbridge road, from One Hundred and Sixty-second street to Spuyten Duyvil.
The following is the force employed during the quarter ending December 31, 1883 :
1 foreman, 31 laborers, 10 two-horse teams, 2 horses and carts.
Total force employed was 44.

The following is the amount appropriated for 1883, Roads, Streets and Avenues, Unpaved—Maintenance of :

Amount appropriated	\$30,000 00
Amount expended for first quarter	5,438 75
Balance April 2, 1883	\$24,561 25
Amount expended for second quarter	11,016 98
Balance July 2, 1883	\$13,544 27
Amount expended for third quarter	6,921 56
Balance October 1, 1883	\$6,622 71
Amount expended for the fourth quarter, is as follows :	
Pay-roll, Laborers, etc., September 30	\$1,189 25
" " " October 15	1,169 24
" " " October 31	465 00
" " " November 15	443 50
" " " November 30	449 00
" " " December 15	419 00
Repairing tools, rollers and scrapers	131 75
Broken stone	499 10
Horse keep and shoeing	99 00
Earth filling	540 00
	5,404 84
Balance January 2, 1884	\$1,217 87

The following is a brief recapitulation of the labor performed and material used on the macadamized roadways, and on the country roads and unpaved streets, under charge of this Bureau for 1883:

Macadam Roadways.

Average force employed was, 3 foreman, 1 time-keeper, 1 carpenter, 2 painters, 1 inspector, 49 laborers, 1 blacksmith, 2 blacksmith helpers, 1 steam engineer, 20 two-horse teams, 3 horses and carts.

Material used, was—

Sand and gravel, cubic yards	5,024
Broken trap-rock, cubic yards	217
Broken bluestone chips, cubic yards	1,295
Roa Hook gravel, cubic yards	105
Paving stone, cubic yards	369
Earth, cubic yards	1,063
Mason work, cubic yards	750
Bridge-stone, running feet	1,134
Gutter-stone, running feet	150
Flagstone, running feet	628
Flagstone relaid, running feet	80
Curbstone relaid, running feet	413
15-inch drain pipe, running feet	12

Roadway and gutters—

Cleaned and dirt taken out, cubic yards	6,857
Basins cleaned	319
Dirt taken out same, loads	1,314
Trees trimmed and pruned	1,357
Iron assorted, pounds	1,239
Nails assorted, pounds	80
Screws assorted, gross	10
Steel for springs, pounds	66
Carnage bolts	1,041
Rubber hose, feet	650
White pine, feet	1,965
Yellow pine, feet	450
White oak, feet	326
Roofing boards, feet	256
Hemlock boards, feet	218
Shelving boards, feet	90
Varnish, oil, turpentine, gallons	84
Paints and putty, pounds	369
Picks sharpening	804
Picks steeled	403
Crowbars, new, repaired	16
Setting tires, new, repaired	65
Road scrapers, new, repaired	2
Snow ploughs, new, repaired	4
Water-boxes and trucks	9
Hand carts, repaired, painted	10
Repainting sprinklers	21
Repairing, repainting steam rollers	2
Wheels, 4 sets, axles, 18 new	22

Country Roads and Unpaved Streets.

Average force employed was, 1 foreman, 28 laborers, ten 2-horse teams, and 2 horses and carts.

Material used was—

Earth and clay, cubic yards	6,402
Sharp gravel, cubic yards	1,223
Lime-stone chips, cubic yards	627
Broken stone, gneiss, cubic yards	1,693
Sand, cubic yards	630
Building stone for culverts, cubic yards	175
Spruce boards and joists, feet	250

Material used on sewer and water connections—

Telford, cubic yards	102
Trap rock, cubic yards	124
Broken stone, gneiss, cubic yards	2
Sharp gravel, cubic yards	52
Sand, cubic yards	2
Earth, cubic yards	20
Earth excavated, cubic yards	14
Roa Hook gravel, cubic yards	2
Belgian paving-stone, blocks	90
Water openings repaired	17
Sewer openings repaired	29

Total..... 46

I would also call your especial attention to the following statement of material used on the Macadam roadways and streets, also on the unpaved country roads, streets and avenues. That the following material did not cost the city anything except for cartage.

Macadam Roadways.

5,014 cubic yards sand and clay.
1,063 cubic yards earth.
1,295 cubic yards broken blue-stone chips.
Which were broken by the men employed in the Bureau.

Unpaved Country Roads, Streets and Avenues.

5,000 cubic yards earth.
1,223 cubic yards sharp gravel.
700 cubic yards broken stone, gneiss.
175 cubic yards building stone for culverts.

The above material was taken from streets and avenues that had a surplus. Had this Bureau been obliged to purchase the material it would have cost the city about \$20,000.

Document "K."

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF LAMPS AND GAS,
NEW YORK, January 10, 1884.

Hon. HUBERT O. THOMPSON, Commissioner of Public Works:

SIR—In compliance with your directions I herein submit a report of the transactions of the Bureau of Lamps and Gas for the three months ending December 31, 1883, with a summary of the same for the entire year.

In Exhibit "A" will be found a statement showing the amounts paid for gas to the various public markets, offices, armories, etc., and for the fitting up, lighting, and maintenance of the public lamps for the first, second, third and fourth quarters, and the sums total for the whole year. In Exhibit "B" is a summary of the appropriation for "Lamps and Gas and Electric Lighting," and shows an expenditure during the quarter ending December 31, of one hundred and ninety-three thousand seven hundred and forty-three dollars, and seventy-four cents (\$193,743.74), and for the year of five hundred and eighty-three thousand one hundred and seventy-seven dollars (\$583,177), with liabilities or bills unpaid amounting to seven hundred and thirty-five dollars (\$735), leaving a surplus balance of two hundred and seventy-two dollars (\$272). Exhibit "C" is a summary of the appropriation for "Salaries, Lamps and Gas and Electric Lighting," and this shows an expenditure during the fourth quarter of fourteen hundred and forty-seven dollars and ninety-eight cents (\$1,447.98), and for the year of fifty-eight hundred dollars and ninety-two cents (\$5,800.92), leaving a surplus balance of fifteen dollars and eight cents (\$15.08). Exhibit "D" is a summary of the "Lamp Account," and shows the number of new lamps lighted, old lamps relighted and lamps discontinued by each gas company during the quarter and the year; one hundred and eighty new lamps having been lighted, forty-nine old lamps relighted, and fifty-seven lamps discontinued during the quarter; and seven hundred and sixteen new lamps lighted, two hundred and seventy-one old lamps relighted, and three hundred and twenty-two lamps discontinued during the year. The total number of gas lamps lighted on December 31, 1883, was twenty-four thousand four hundred and twelve, and the number of electric lamps was one hundred and twenty-eight; the net increase of gas lamps during the year being six hundred and sixty-five. Exhibit "E" is a statement showing

the lowest, highest, and average illuminating power of the gases supplied to the city by the New York, Municipal, New York Mutual, Metropolitan, Manhattan and Harlem Gas-light companies during the quarter and the year. Exhibit "F" is a copy of the contract with the New York Gas-light Company for the lighting of the public lamps, the contracts with the other gas companies being similar in all respects, except as to districts and prices; the rates paid all the companies being shown further on. Exhibit "G" is a copy of the time-table for lighting and extinguishing the gas-lamps for the year 1884. The electric lamps are lighted about thirty to forty minutes after sunset, and are kept lighted until about thirty minutes before sunrise according to the conditions of the weather.

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

BY WHAT GAS COMPANY.	NEW LAMPS FITTED UP.	LAMP-POSTS REMOVED.	LAMP-POSTS RESET.	LAMP-POSTS STRAIGHTENED.	COLUMNS REFITTED.	COLUMNS RELEASED.
New York Gas-light Co.....	18	44	63	340	61	260
Manhattan Gas-light Co.....	53	49	71	152	52	114
Metropolitan Gas-light Co.....	153	26	49	166	5	36
New York Mutual Gas-light Co.....	....	12	14	21	1	9
Harlem Gas-light Co.....	254	45	46	408	8	24
Central Gas-light Co.....	75	237	142	72	1	4
Northern Gas-light Co.....	124	6	13	2	....	....
Yonkers Gas-light Co.....	36	1	1	....	....	....
Totals.....	713	420	399	1,161	128	447

The following table will show the number of new lamps lighted by the several gas companies in each year from 1877 to 1883, inclusive:

BY WHAT GAS COMPANY.	NEW LAMPS LIGHTED IN—						
	1877.	1878.	1879.	1880.	1881.	1882.	1883.
New York Gas-light Co.....	59	150	78	30	26	31	17
Manhattan Gas-light Co.....	112	72	131	58	41	67	53
Metropolitan Gas-light Co.....	67	148	110	137	126	146	156
New York Mutual Gas-light Co.....	1	....	152	1	....	3	....
Harlem Gas-light Co.....	130	130	134	138	99	219	255
Central Gas-light Co.....	55	89	115	42	65	105	75
Northern Gas-light Co.....	41	27	90	....	67	102	124
Yonkers Gas-light Co.....	72	....	....	16	14	187	36
Totals.....	557	615	810	422	438	860	716
*Brush Electric Illuminating Co.....	....	....	....	23	....	32	....
*United States Illuminating Co.....	....	....	....	....	....	73	....

* Electric lamps.

The following statement shows the average number of lamps lighted under the supervision of the Department of Public Works, in each of the years, from 1876 to 1883, inclusive:

BY WHAT COMPANY.	AVERAGE NUMBER OF LAMPS LIGHTED IN—							
	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.
New York Gas-light Co.....	2,638	2,890	3,148	3,381	3,560	3,555	3,461	3,369
Manhattan Gas-light Co.....	4,996	5,954	6,618	6,687	6,804	6,677	6,495	6,477
Metropolitan Gas-light Co.....	3,633	3,767	3,800	4,068	4,282	4,349	4,529	4,658
New York Mutual Gas-light Co.....	2,516	1,323	587	800	1,037	966	826	768
Harlem Gas-light Co.....	3,938	2,554	3,960	4,280	4,682	4,774	4,950	5,157
Central Gas-light Co.....	1,536	1,569	1,649	1,764	1,834	1,874	1,938	2,007
Northern Gas-light Co.....	932	969	989	1,026	1,090	1,117	1,181	1,308
Yonkers Gas-light Co.....	....	....	72	72	76	91	207	295
* N. Y. and N. J. Globe Gas-light Co.....	....	2,106	506	510	....	....	....	....
† Brush Electric Illuminating Co.....	....	....	....	....	23	....	55	55
† United States Illuminating Co.....	....	....	....	....	....	....	73	73
Totals.....	20,159	21,203	21,419	22,590	23,365	23,433	23,715	24,167

* Lighted by naphtha.

† Electric lamps.

The decrease shown in the foregoing statement of the average in the year 1883, of the lamps lighted by the New York, Manhattan, and New York Mutual Gas Companies, was caused by the discontinuance of gas-lamps in the respective districts, in consequence of the erection of electric lights.

The following shows the prices named in the proposals which were received on November 28 for furnishing illuminating gas during the year 1884 to such of the public buildings as are under the jurisdiction of the Department of Public Works, also the illuminating or candle-power of the gas each company proposed to furnish:

PROPOSAL OF	PRICE PER 1,000 CUBIC FEET FOR 1884.	ILLUMINATING POWER OF GAS IN CANDLES.	CUBIC FEET OF GAS CONSUMED IN THE PUBLIC BUILDINGS IN 1883.	PRICE PAID PER 1,000 CUBIC FEET IN 1883.
New York Gas-light Co.....	\$1 50	20	8,700,500	\$1 50
Manhattan Gas-light Co.....	1 50	16	7,689,100	1 50
Metropolitan Gas-light Co.....	1 50	20 to 23	3,565,693	1 50
Harlem Gas-light Co.....	2 25	16	754,582	2 25
			20,709,875	

No bids were received from the other gas-light companies of the city, and contracts have been made with the New York Gas-light Company for the public buildings south of Grand street; with the Manhattan Gas-light Company for the buildings between Grand and Thirty-fourth streets; with the Metropolitan Gas-light Company for the buildings between Thirty-fourth and Seventy-ninth streets; and with the Harlem Gas-light Company for the buildings between Seventy-ninth street and Harlem river.

The prices charged to private consumers are as follows :

	Per 1,000 Cubic Feet.
By New York Gas-light Co.....	\$2 25
By Manhattan Gas-light Co.....	2 25
By Metropolitan Gas-light Co.....	2 25
By Harlem Gas-light Co.....	2 25
By New York Mutual Gas-light Co.....	2 25
By Municipal Gas-light Co.....	2 25
By Knickerbocker Gas-light Co.....	2 25
By Central Gas-light Co.....	2 25
By Northern Gas-light Co.....	3 00
By Vonkers Gas-light Co.....	2 50

The New York Gas-light Company has mains in all that part of the city lying south of Grand street, lights all the public gas-lamps, and supplies gas to all the public and nearly all the private buildings therein.

The Manhattan Gas-light Company has mains in all that part of the city lying between Grand and Thirty-fourth streets, lights all the public street gas-lamps, and supplies gas generally throughout the district.

The Metropolitan Gas-light Company has mains in that part of the city lying between Thirty-fourth and Seventy-ninth streets, lights nearly all the public lamps and supplies gas generally throughout the district.

The Harlem Gas-light Company has mains in, lights all the public lamps, and supplies gas to that part of the city lying between Seventy-ninth street and Harlem river.

The New York Mutual Gas-light Company has mains in and supplies gas to various streets between Battery place and Sixty-sixth street, and lights the public lamps in Tompkins Square, Cooper Institute Square and Jackson Square (all south of Thirty-fourth street) and in various parts of streets between Thirty-fourth and Sixty-fifth streets.

The Municipal Gas-light Company has mains in and supplies gas to various streets between Grand and Seventieth streets, but lights no public lamps.

The Knickerbocker Gas-light Company has mains in and supplies gas to various streets between Thirty-fourth and One Hundred and Thirty-fifth streets, but lights no public lamps.

The Central Gas-light Company supplies gas to the Twenty-third Ward (formerly town of Morrisania), and lights all the public lamps therein.

The Northern Gas-light Company supplies gas to that part of the Twenty-fourth Ward, formerly town of West Farms, and lights the public lamps therein.

The Vonkers Gas-light Company supplies gas to a section of the Twenty-fourth Ward, formerly town of Kingsbridge, and lights the public lamps therein.

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

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

Electric Lamp Contracts.

Brush Electric Illuminating Company, for year ending April 30, 1884, 67 lamps, at 70 cents each per night, including fitting up and every cost of maintenance :

	Lamps.
Broadway, from Fourteenth to Thirty-fourth street.....	23
Fifth avenue, from Fourteenth to Thirty-fourth street.....	10
Fourteenth street, from Broadway to Fifth avenue.....	1
Thirty-fourth street, from Broadway to Fifth avenue.....	3
Union Park, 6 lamps on mast, equivalent to.....	12
Madison Park, 6 lamps on mast, equivalent to.....	12

United States Illuminating Co., for year ending April 30, 1884, for 73 lamps, at 70 cents each per night, including fitting up and every cost of maintenance :

	Lamps.
Battery Park.....	17
City Hall Park.....	10
Washington Park.....	15
Broadway, from Canal to Twelfth street.....	24
Fifth avenue, from Washington Park to Thirteenth street.....	7

The 67 lamps of Brush Company displace 418 gas-lamps ; and the 73 lamps of United States Company displace 502 gas-lamps.

Gas-mains have been laid during the year as follows :

	Lineal feet.
By New York Gas-light Co.....	8,673
Manhattan Gas-light Co.....	850
Metropolitan Gas-light Co.....	7,674
New York Mutual Gas-light Co.....	531
Municipal Gas-light Co.....	25,794
Harlem Gas-light Co.....	4,768
Knickerbocker Gas-light Co.....	101,646
Equitable Gas-light Co.....	6,376
Central Gas-light Co.....	3,100
Northern Gas-light Co.....	4,566
Vonkers Gas-light Co.....	

Total miles laid in 1883, 31⁸⁸⁸/₈₈₈, or..... 163,978

	Feet.
The New York Gas Co. has abandoned and taken up, old 2-inch and 3-inch mains.....	23,482
The Manhattan Gas Co. has taken up.....	850
The Harlem Gas Co. has taken up.....	1,437

Total taken up in 1883..... 25,769

The total miles of gas mains in the streets of this city on December 31, 1883, was as follows :

	Miles.	Feet.
New York Gas-light Co.....	112	3,296
Manhattan Gas-light Co.....	175	1,286
Metropolitan Gas-light Co.....	143	4,100
New York Mutual Gas-light Co.....	120	400
Municipal Gas-light Co.....	76	1,458
Harlem Gas-light Co.....	132	3,087
Knickerbocker Gas-light Co.....	67	4,385
Equitable Gas-light Co.....	19	1,326
Central Gas-light Co.....	48	2,621
Northern Gas-light Co.....	22	2,230
Vonkers Gas-light Co.....	10	2,610

Total miles of gas-mains in the city on December 31, 1883..... 929⁸⁸⁸/₈₈₈

Of these mains, 847⁸⁸⁸/₈₈₈ miles are on Manhattan island, and 81⁸⁸⁸/₈₈₈ miles are in the annexed territory north of Harlem river.

The length of streets lighted during the year 1883 was.....	12 ⁷⁷⁸ / ₈₈₈ miles.
The total length of streets lighted on December 31, 1883.....	434 ⁸⁸⁸ / ₈₈₈ "
The total length of piers " " " ".....	1 ⁸⁸⁰ / ₈₈₈ "
The total length of bridges " " " ".....	1 ⁸⁸⁰ / ₈₈₈ "
The total area of parks " " " ".....	61 acres.
The total area of Gansevoort (Farmers') Market.....	3 ⁸⁸ / ₈₈ "

In the month of May last the Equitable Gas-light Company commenced the laying of gas-mains under the permission given by the Gas Commission in December, 1882, and during the year it has laid down of—

Six-inch main.....	15,507 lineal feet.
Eight-inch main.....	26,721 "
Twelve-inch main.....	25,338 "
Sixteen-inch main.....	16,743 "
Twenty-inch main.....	10,124 "
Twenty-four-inch main.....	7,213 "

Total..... 101,646 "

—and it has paid into the City Treasury twenty cents per lineal foot, as required by the conditions prescribed by the Gas Commission, amounting in the aggregate to \$20,329.20. The company is also engaged in the construction of gas works on the two blocks of land lying between Thirty-ninth and Forty-first streets, and First avenue and the East river.

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

OF WHAT COMPANY.	SULPHUR. (Grs. in 100 cu. ft.)	AMMONIA. (Grs. in 100 cu. ft.)	SULPHURETTED HYDROGEN.
New York Gas-light Co.....	5.16	0.51	None.
Manhattan Gas-light Co.....	14.99	11.70	"
N. Y. Mutual Gas-light Co.....	6.24	0.11	Constantly present.
Metropolitan Gas-light Co.....	22.25	1.11	None.
Harlem Gas-light Co.....	36.43	8.59	Occasionally present
Municipal Gas-light Co.....	3.46	0.07	None.

The following shows the specific gravity of the gases :

New York Gas-light Co., specific gravity.....	.633 to .643
Manhattan Gas-light Co., ".....	.419 to .430
New York Mutual Gas-light Co., ".....	.696 to .712
Metropolitan Gas-light Co., ".....	.538 to .558
Harlem Gas-light Co., ".....	.432 to .444
Municipal Gas-light Co., ".....	.643 to .659

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

- New York Gas-light Co., water gas, "Tessie du Motay" process.
- Manhattan Gas-light Co., coal gas.
- New York Mutual Gas-light Co., from pine wood and naphtha and coal.
- Metropolitan Gas-light Co., from coal and naphtha.
- Harlem Gas-light Co., coal gas.
- Municipal Gas-light Co., water gas, "Tessie du Motay" process.
- Knickerbocker Gas-light Co., water gas, "Tessie du Motay" process.
- Central Gas-light Co., coal gas.
- Northern Gas-light Co., coal gas.
- Vonkers Gas-light Co., water gas, "Slade" process and coal gas.

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

OF WHAT COMPANY.	AVERAGE MAXIMUM PRESSURE.	AVERAGE MINIMUM PRESSURE.	WHERE TAKEN.	DISTANCE FROM GAS-WORKS.
	Inches.	Inches.		Miles.
New York Gas-light Co.....	1.70	1.32	Cor. Bowery and Grand street..	2 ¹⁰⁰ / ₁₀₀
Manhattan Gas-light Co.....	2.39	1.20	" " "	1 ⁸⁸⁰ / ₁₀₀
N. Y. Mutual Gas-light Co.....	3.46	1.79	" " "	1 ⁵⁰⁰ / ₁₀₀
Municipal Gas-light Co.....	2.89	1.15	" " "	3 ⁸⁸ / ₁₀₀
Metropolitan Gas-light Co.....	1.41	0.77	{ Seventy-ninth street, between } { Second and Third avenues. }	3 ³⁰ / ₁₀₀
Harlem Gas-light Co.....	3.07	1.29	{ Seventy-ninth street, between } { Second and Third avenues. }	1 ⁷⁸ / ₁₀₀

The very large consumption of gas in the public buildings, which are supplied with gas through contracts made by the Department of Public Works, seems to me to need some comment. By a comparison of the reports of this Bureau for several years back, it will be seen that the consumption of gas has been constantly on the increase, while the number of buildings supplied remains about the same. The following figures will show the consumption for several years :

	Cubic Feet.
In 1880 the total consumption was.....	16,180,100
In 1881 " " " ".....	17,160,600
In 1882 " " " ".....	18,228,459
In 1883 " " " ".....	20,709,875

On an examination of the accounts it is found that most of the increase can be attributed to the armories of the National Guard, as will be seen by the following comparison :

	Cubic Feet.
In 1877 the total consumption of gas in the armories was.....	1,659,300
In 1881 " " " ".....	5,673,900
In 1882 " " " ".....	5,617,800
In 1883 " " " ".....	6,143,000

In 1877, and prior thereto, the expense of lighting the armories was paid by the several military organizations from their regimental funds and hence there was an incentive for the commanding officers to see that due care and economy was exercised in the use of the gas. By chapter 275 of the laws of 1878, (the Military Code), it was provided that the cost of lighting the armories should be borne by the city and since then the gas bills have been paid through the Bureau of Lamps and Gas. In the year succeeding the passage of this law it was found that the consumption of gas had greatly increased, and this has been going on from year to year ; as it will be seen from the foregoing figures that four millions four hundred and eighty-three thousand seven hundred cubic feet of gas was used in 1883, over and above the total consumption of 1877, and this, notwithstanding the fact that in 1877 there were thirteen military organizations using the gas while in 1883 there were but ten. It is therefore evident that a very large amount of gas is unnecessarily used and extravagantly wasted and consequently the attention of commanding officers has been several times called to the matter, but thus far the evil has not been checked. I trust, however, that by a reference to the subject in this report some remedy may be applied by which the consumption may be greatly reduced.

During the year 1883 two hundred and eighty-one resolutions have been introduced in the Board of Aldermen affecting the business of the Bureau of Lamps and Gas. Of these two hundred and four were passed by the Board, of which forty were vetoed by the Mayor, and two passed over the veto. The resolutions of the Common Council now on file in this office and not yet carried into effect cover the erection of over one thousand new street-lamps, hence there will be considerable work to be done during the ensuing year.

All of which is respectfully submitted,

S. McCORMICK, Supt. Lamps and Gas.

EXHIBIT "A."

Statement showing the Amounts on Vouchers drawn for Gas to the various Public Markets, Armories, Offices, etc., and for Fitting up, Repairing and Lighting the Public Lamps, etc., for the First, Second, Third and Fourth Quarters of the Year 1883, with the Totals for the whole year.

	FIRST QUARTER ENDING MARCH 31.	SECOND QUARTER ENDING JUNE 30.	THIRD QUARTER ENDING SEPT. 30.	FOURTH QUARTER ENDING DEC. 31.	TOTAL.
Washington Market.....	\$354 30	\$312 00	\$190 65	\$207 60	\$1,074 45
Catharine Country Market.....	25 80	21 30	16 50	23 70	87 30
Catharine Meat Market.....	15 45	12 45	11 85	10 05	59 80
Fulton Meat Market.....	274 95	204 00	229 05	357 15	1,155 75
Fulton Country Market.....	92 25	452 55	282 15	499 35	1,234 05
Essex Market.....	249 15	60 60	63 00	75 30	300 15
Centre Market.....	172 20	177 15	144 75	183 60	754 65
Clinton Market.....	10 35	124 05	110 10	150 75	595 00
Union Market.....	262 65	6 15	6 00	10 20	41 70
Tompkins Market.....	187 80	107 70	168 45	258 75	887 55
First District Police Court.....	130 35	182 40	145 05	206 25	721 50
Second District Police Court.....	87 30	84 45	51 15	138 00	403 95
Third District Police Court.....	76 50	61 20	51 60	85 65	285 75
Fourth District Police Court.....	44 31	73 95	65 13	100 80	316 38
Fifth District Police Court.....	15	25 00	8 55	36 90	115 42
Court of Special Sessions.....	60	15	15	2 85	3 15
First District Civil Court.....	14 85	45	15	45	62 85
Second District Civil Court.....	13 35	13 95	11 70	22 35	53 55
Fourth District Civil Court.....	54 30	15 15	9 00	15 45	146 55
Fifth District Civil Court.....	7 80	6 60	10 80	49 20	123 23
Sixth District Civil Court.....	3 75	4 01	4 05	8 80	23 23
Eighth District Civil Court.....	2 93	2 00	4 50	6 15	18 90
Ninth District Civil Court.....	99 45	89 25	73 05	106 95	368 70
Brown-stone (Court Room) Building.....	1,405 05	1,238 10	844 95	1,326 12	4,874 22
New Court-house.....	389 40	314 70	249 75	416 55	1,370 40
Department of Public Works.....	210 15	157 05	111 90	259 80	738 90
Receiver of Taxes' Office.....	273 90	158 10	88 50	304 50	825 00
Corporation Attorney's Office.....	67 80	63 15	53 55	72 15	256 05
Assessment Commission Office.....	7 35	6 00	5 55	6 75	26 55
Tax Commissioner's Office.....	9 75	4 05	3 60	11 40	28 80
Pipe Yard, Rivington street.....	3 75	1 35	60	1 95	7 05
County Jail.....	585 60	430 95	307 35	467 25	1,791 15
Clock, Third District Court-house Tower.....	213 15	346 95	267 00	247 20	1,074 30
South Gate-house.....	78 30	62 31	72 66	107 99	321 26
Engine-house, Highbridge.....	95 17	70 43	71 10	89 55	326 25
Engine-house, Ninety-eighth street.....	220 06	209 26	220 50	202 72	852 54
Photometrical Rooms, Grand street.....	20 55	9 83	4 05	20 55	54 95
Photometrical Rooms, Seventy-ninth street.....	11 55	9 52	1 55	17 40	40 42
Armory, Seventh Regiment.....	1,136 70	583 20	154 65	1,085 33	2,959 88
Armory, Eighth Regiment.....	317 25	263 25	147 15	310 65	1,047 30
Armory, Ninth Regiment.....	486 15	386 10	185 25	566 55	1,618 05
Armory, Eleventh Regiment.....	141 60	109 35	83 25	134 10	468 30
Armory, Twelfth Regiment.....	210 60	126 45	59 30	214 35	597 30
Armory, Twenty-second Regiment.....	382 50	262 05	188 40	407 85	1,240 80
Armory, Sixty-ninth Regiment.....	224 55	138 45	75 60	213 45	652 05
Armory, Seventy-first Regiment.....	261 60	289 11	96 30	258 15	905 16
Armory, Gatling Battery E.....	96 90	99 90	61 05	104 91	362 76
Armory, Battery K.....	33 90	33 45	13 80	30 75	111 90
Public Bath, Battery.....	.....	6 45	33 00	6 99	46 44
Public Bath, Gouverneur Slip.....	.....	7 50	28 65	2 94	39 09
Public Bath, Duane street.....	.....	90	31 80	6 30	39 00
Public Bath, Bethune street.....	.....	5 85	31 80	3 45	41 10
Public Bath, Fifth street, East river.....	.....	9 45	42 90	7 20	59 55
Public Bath, Nineteenth street, East river.....	.....	5 25	31 65	7 35	44 25
Public Bath, Thirty-seventh street, East river.....	.....	5 40	34 20	5 73	45 33
Public Bath, Fifty-first street, North river.....	.....	5 22	24 45	4 71	34 38
Public Bath, One Hundred and Twelfth street, East river.....	.....	3 60	37 57	7 88	49 05
Traveling Expenses.....	62 50	62 50	62 50	62 50	250 00
Gas Examinations.....	337 50	312 00	312 00	312 00	1,273 50
Lighting Public Markets (Pay-rolls).....	437 00	439 00	335 00	285 00	1,496 00
Cleaning Photometrical Room (Pay-rolls).....	15 00	15 00	15 00	15 00	60 00
New Lamp-posts.....	630 00	1,688 89	2,300 00	1,544 50	6,163 39
New Lamp-posts, Twenty-third and Twenty-fourth Wards.....	.....	1,037 50	1,025 00	.....	2,062 50
New Street-lamps.....	900 00	870 00	1,850 00	1,806 00	5,426 00
New Street-lamps, Twenty-third and Twenty-fourth Wards.....	.....	360 00	375 00	.....	735 00
New Boulevard Lamps.....	400 00	587 00	800 00	557 00	2,344 00
New Crossheads.....	.....	.....	225 00	225 00	450 00
New Lamp-irons.....	.....	206 25	320 00	402 50	928 75
New Lamp-irons, Twenty-third and Twenty-fourth Wards.....	.....	.....	140 00	.....	140 00
New Lamp Brackets.....	.....	.....	50 00	.....	50 00
New Street Signs.....	.....	823 85	.....	474 69	1,298 54
Supplies for Photometrical Rooms.....	89 67	.....	40 00	.....	129 67
Repairing Public Lamps.....	209 25	.....	202 50	129 15	540 90
Lamp Map, Twenty-fourth Ward.....	.....	.....	165 00	.....	165 00
Atlas, Nineteenth and Twenty-second Wards.....	.....	.....	25 00	.....	25 00
Photometrical Rooms, Grand street (Rent).....	150 00	150 00	150 00	150 00	600 00
Photometrical Rooms, Seventy-ninth street (Rent).....	90 00	90 00	90 00	90 00	360 00
Electric Lighting, Receiver of Taxes' Office.....	.....	.....	851 67	851 67	1,703 34
Electric Lighting, Assistant District Attorney's Office.....	.....	.....	1 25	1 25	2 50
Fitting-up New Lamps.....	94 00	816 00	1,944 00	1,112 00	3,966 00
Fitting-up New Lamps, Twenty-third and Twenty-fourth Wards.....	.....	32 00	916 00	1,004 00	1,952 00
Resetting and Repairing Lamp-posts.....	349 00	1,617 50	2,511 00	1,705 50	6,183 00
Resetting and Repairing Lamp-posts, Twenty-third and Twenty-fourth Wards.....	9 50	695 50	929 00	1,013 00	2,647 00
Lighting Public Lamps.....	60,607 57	84,472 23	98,733 68	123,679 33	367,492 81
Lighting Public Lamps, Twenty-third and Twenty-fourth Wards.....	17,816 15	26,769 16	27,022 25	37,031 68	108,639 24
Lighting Electric Lights.....	5,686 80	8,954 40	8,911 00	11,750 90	35,303 10
Total.....	\$97,007 76	\$137,683 08	\$154,742 42	\$193,743 74	\$583,177 00

RECAPITULATION.

Gas to Public Offices, etc.....	\$9,123 82	\$7,684 30	\$5,318 49	\$9,516 07	\$31,642 68
Electric Lighting in Public Offices.....	.....	.....	.....	852 92	852 92
Supplies to Public Lamps.....	3,320 92	5,244 49	6,917 00	6,078 34	21,560 75
Supplies to Public Lamps, Twenty-third and Twenty-fourth Wards.....	.....	1,397 50	1,540 00	.....	2,937 50
Fitting-up New Lamps.....	94 00	816 00	1,944 00	1,112 00	3,966 00
Fitting-up New Lamps, Twenty-third and Twenty-fourth Wards.....	.....	32 00	916 00	1,004 00	1,952 00
Resetting and Repairing Lamp-posts.....	349 00	1,617 50	2,511 00	1,705 50	6,183 00
Resetting and Repairing Lamp-posts, Twenty-third and Twenty-fourth Wards.....	9 50	695 50	929 00	1,013 00	2,647 00
Lighting Public Lamps.....	60,607 57	84,472 23	98,733 68	123,679 33	367,492 81
Lighting Public Lamps, Twenty-third and Twenty-fourth Wards.....	17,816 15	26,769 16	27,022 25	37,031 68	108,639 24
Lighting Electric Lamps.....	5,686 80	8,954 40	8,911 00	11,750 90	35,303 10
Total.....	\$97,007 76	\$137,683 08	\$154,742 42	\$193,743 74	\$583,177 00

EXHIBIT "B."

Summary of the Appropriation for "Lamps and Gas and Electric Lighting" for 1883, showing the Amounts expended during the Year, with the Balance standing to the Credit of the Appropriation.

Amount appropriated for "Lamps and Gas and Electric Lighting" for year 1883.....	\$584,184 00
Amount of vouchers drawn in first quarter, ending March 31.....	\$97,007 76
Amount of vouchers drawn in second quarter, ending June 30.....	137,683 08
Amount of vouchers drawn in third quarter, ending September 30.....	154,742 42
Amount of vouchers drawn in fourth quarter, ending December 31.....	193,743 74
Total amount of vouchers drawn during the year.....	583,177 00
Balance against which no vouchers have been drawn.....	\$1,007 00

LIABILITIES.

Alexander Brandon, 150 street-lamps.....	\$435 00
Bartlett Lamp Manufacturing Co., 150 Boulevard lamp-globes.....	300 00
Surplus balance.....	\$735 00
Surplus balance.....	\$272 00

EXHIBIT "C."

Summary of the Appropriation for "Salaries—Lamps and Gas and Electric Lighting" for 1883, showing the Amounts Expended during the Year with the Balance standing to the Credit of the Appropriation.

Amount appropriated for "Salaries—Lamps and Gas and Electric Lighting" for 1883.....	\$5,816 00
Amount of vouchers drawn in first quarter, ending March 31.....	\$1,450 98
Amount of vouchers in second quarter, ending June 30.....	1,450 98
Amount of vouchers drawn in third quarter, ending September 30.....	1,450 98
Amount of vouchers drawn in fourth quarter, ending December 31.....	1,447 98
Total amount of vouchers drawn during the year.....	5,800 92
Surplus balance.....	\$15 08

EXHIBIT "D."

Summary of the "Lamp Account," showing the Number of New Lamps Lighted, Old Lamps Relighted, and Number Discontinued by Each Gas Company during the Quarter ending December 31, 1883, also a Statement for the Year:

NEW YORK GAS-LIGHT COMPANY.

Number of lamps September 30, 1883.....	3,372
Number of new lamps lighted during the quarter.....	1
Number of old lamps relighted during the quarter.....	9
Less lamps discontinued during the quarter.....	3,382
Number of lamps lighted December 31, 1883.....	13

MANHATTAN GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1883.....	6,493
Number of new lamps lighted during the quarter.....	10
Number of old lamps relighted during the quarter.....	4
Less lamps discontinued during the quarter.....	6,507
Number of lamps lighted December 31, 1883.....	6,503

METROPOLITAN GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1883.....	4,706
Number of new lamps lighted during the quarter.....	30
Number of old lamps relighted during the quarter.....	21
Less lamps discontinued during the quarter.....	4,757
Number of lamps lighted December 31, 1883.....	5

NEW YORK MUTUAL GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1883.....	773
Number of new lamps lighted during the quarter.....	0
Number of old lamps relighted during the quarter.....	0
Less lamps discontinued during the quarter.....	773
Number of lamps lighted December 31, 1883.....	0

HARLEM GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1883.....	5,231
Number of new lamps lighted during the quarter.....	54
Number of old lamps relighted during the quarter.....	10
Less lamps discontinued during the quarter.....	5,295
Number of lamps lighted December 31, 1883.....	18

CENTRAL GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1883.....	2,015
Number of new lamps lighted during the quarter.....	24
Number of old lamps relighted during the quarter.....	5
Less lamps discontinued during the quarter.....	2,044
Number of lamps lighted December 31, 1883.....	17

NORTHERN GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1883.....	1,351
Number of new lamps lighted during the quarter.....	35
Number of old lamps relighted during the quarter.....	0
Less lamps discontinued during the quarter.....	1,386
Number of lamps lighted December 31, 1883.....	0

YONKERS GAS-LIGHT COMPANY.

Number of lamps lighted September 30, 1883.....	299
Number of new lamps lighted during the quarter.....	26
Number of old lamps relighted during the quarter.....	0
Less lamps discontinued during the quarter.....	325
Number of lamps lighted December 31, 1883.....	0

ELECTRIC LAMPS.

BRUSH ELECTRIC ILLUMINATING COMPANY.

Number of lamps lighted September 30, 1883.....	55
Number of new lamps lighted during the quarter.....	0
Number of old lamps relighted during the quarter.....	0
Less lamps discontinued during the quarter.....	55
Number of lamps lighted December 31, 1883.....	0

UNITED STATES ILLUMINATING COMPANY.

Number of lamps lighted September 30, 1883.....	73
Number of new lamps lighted during the quarter.....	0
Number of old lamps relighted during the quarter.....	0
Less lamps discontinued during the quarter.....	73
Number of lamps lighted December 31, 1883.....	73
Total number of electric lamps lighted December 31, 1883.....	128

RECAPITULATION FOR QUARTER.

Number of gas lamps lighted September 30, 1883.....	24,240
Number of electric lamps lighted September 30, 1883.....	128
Number of new gas-lamps lighted during the quarter.....	180
Number of new electric lamps lighted during the quarter.....	0
Number of gas-lamps relighted during the quarter.....	49
Number of electric lamps relighted during the quarter.....	0
Less gas-lamps discontinued during the quarter.....	24,597
Less electric lamps discontinued during the quarter.....	57
Total number of gas and electric lamps lighted December 31, 1883.....	24,540

Statement of the "Lamp Account" for the Year 1883.

NEW YORK GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1882.....	3,368
Number of new lamps lighted during the year.....	17
Number of old lamps relighted during the year.....	28
Less lamps discontinued during the year.....	3,413
Number of lamps lighted December 31, 1883.....	3,369

MANHATTAN GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1882.....	6,449
Number of new lamps lighted during the year.....	53
Number of old lamps relighted during the year.....	20
Less lamps discontinued during the year.....	6,522
Number of lamps lighted December 31, 1883.....	6,503

METROPOLITAN GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1882.....	4,574
Number of new lamps lighted during the year.....	156
Number of old lamps relighted during the year.....	53
Less lamps discontinued during the year.....	4,783
Number of lamps lighted December 31, 1883.....	4,752

NEW YORK MUTUAL GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1882.....	765
Number of new lamps lighted during the year.....	0
Number of old lamps relighted during the year.....	9
Less lamps discontinued during the year.....	774
Number of lamps lighted December 31, 1883.....	773

HARLEM GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1882.....	5,049
Number of new lamps lighted during the year.....	255
Number of old lamps relighted during the year.....	34
Less lamps discontinued during the year.....	5,338
Number of lamps lighted December 31, 1883.....	5,277

CENTRAL GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1882.....	2,011
Number of new lamps lighted during the year.....	75
Number of old lamps relighted during the year.....	28
Number of lamps transferred from Northern Gas-light Company.....	30
Less lamps discontinued during the year.....	2,144
Less lamps transferred to Northern Gas-light Company.....	33
Number of lamps lighted December 31, 1883.....	2,027

NORTHERN GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1882.....	1,242
Number of new lamps lighted during the year.....	124
Number of old lamps relighted during the year.....	36
Number of lamps transferred from Central Gas-light Co.....	33
Less lamps discontinued during the year.....	1,435
Less lamps transferred to Central Gas-light Co.....	30
Number of lamps lighted December 31, 1883.....	1,386

YONKERS GAS-LIGHT COMPANY.

Number of lamps lighted December 31, 1882.....	289
Number of new lamps lighted during the year.....	36
Number of old lamps relighted during the year.....	0
Less lamps discontinued during the year.....	325
Number of lamps lighted December 31, 1883.....	325
Total number of gas-lamps lighted December 31, 1883.....	24,412

ELECTRIC LAMPS.

BRUSH ELECTRIC ILLUMINATING COMPANY.

Number of lamps lighted December 31, 1882.....	55
Number of new lamps lighted during the year.....	0
Number of lamps relighted during the year.....	0
Less lamps discontinued during the year.....	55
Number of lamps lighted December 31, 1883.....	55

UNITED STATES ILLUMINATING COMPANY.

Number of lamps lighted December 31, 1882.....	73
Number of new lamps lighted during the year.....	0
Number of old lamps relighted during the year.....	0
Less lamps discontinued during the year.....	73
Number of lamps lighted December 31, 1883.....	73
Total number of electric lamps December 31, 1883.....	128

RECAPITULATION FOR YEAR.

Number of gas-lamps lighted December 31, 1882.....	23,747
Number of electric-lamps lighted December 31, 1882.....	128
Number of new gas-lamps lighted during the year.....	23,875
Number of new electric-lamps lighted during the year.....	716
Number of old gas-lamps relighted during the year.....	271
Number of electric-lamps relighted during the year.....	0
Less gas-lamps discontinued during the year.....	987
Less electric-lamps discontinued during the year.....	24,862
Total number of gas and electric lamps December 31, 1883.....	322
	24,540

EXHIBIT "E."

Statement giving the Illuminating Power of the Gas supplied by the several Gas-light Companies during the Quarter ending December 31, 1883, as shown by the Daily Observations at the Photometrical Rooms of the Department of Public Works, with the Average for the Year.

FOR WHAT TIME.	NEW YORK GAS CO.			MUNICIPAL GAS CO.			N. Y. MUTUAL GAS CO.			METROPOLITAN GAS CO.			MANHATTAN GAS CO.			HARLEM GAS CO.		
	ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.		
Week Ending—	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
Oct. 6.....	24.13	28.54	25.82	29.92	31.69	30.88	26.65	29.55	27.58	21.22	22.79	22.17	19.25	21.71	20.05	19.09	19.58	19.31
" 13.....	26.03	27.55	26.52	28.58	31.46	30.40	24.97	30.27	27.20	22.52	22.88	22.66	19.11	21.20	20.07	19.09	20.00	19.40
" 20.....	22.14	26.36	23.53	27.32	30.88	29.63	25.99	29.29	28.25	21.84	22.63	22.23	18.70	20.06	19.42	19.09	19.75	19.43
" 27.....	23.17	27.28	26.05	27.00	31.96	29.74	27.00	30.98	28.60	21.54	22.14	21.81	18.21	21.47	19.53	18.21	19.08	18.76
Nov. 3.....	25.59	29.94	27.00	28.58	30.59	30.05	28.68	31.26	29.61	21.14	22.31	21.77	19.38	19.92	19.61	19.12	19.74	19.36
" 10.....	24.56	30.06	27.19	29.37	31.53	30.83	27.09	29.93	28.60	20.36	21.46	21.20	18.66	19.91	19.24	18.93	19.46	19.21
" 17.....	24.19	27.20	25.71	28.97	30.32	29.61	25.34	30.09	28.45	19.72	21.78	20.77	19.15	19.80	19.37	18.95	19.67	19.24
" 24.....	24.55	27.41	25.83	25.12	29.74	28.74	25.40	29.78	27.06	21.12	21.74	21.39	18.47	20.06	19.41	18.77	19.30	19.14
Dec. 1.....	22.42	28.16	25.83	27.57	30.56	29.00	26.55	31.26	29.21	21.51	22.26	21.80	18.90	20.04	19.62	18.13	19.60	19.17
" 8.....	23.35	24.82	24.13	27.70	29.12	28.37	25.40	30.39	28.25	21.86	22.84	22.32	19.04	19.87	19.31	19.09	20.24	19.65
" 15.....	22.04	25.84	24.22	28.54	30.24	29.21	27.61	30.87	29.10	20.85	21.86	21.54	18.74	19.67	19.33	18.10	19.57	19.00
" 22.....	23.04	26.77	24.76	27.76	30.56	29.17	25.48	31.75	28.13	21.29	21.68	21.48	18.58	19.86	19.11	18.82	19.62	19.32
" 29.....	20.75	24.29	23.22	27.58	29.17	28.83	26.58	30.05	28.00	20.34	21.64	20.76	19.13	19.60	19.33	19.11	19.78	19.42

Average Illuminating Power, in Candles, for the Year 1883.

FOR WHAT TIME.	NEW YORK GAS CO.			MUNICIPAL GAS CO.			N. Y. MUTUAL GAS CO.			METROPOLITAN GAS CO.			MANHATTAN GAS CO.			HARLEM GAS CO.		
	ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.			ILLUMINATING POWER IN CANDLES.		
MONTH.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
January.....	14.39	26.84	23.37	20.37	30.24	29.20	22.75	28.16	25.37	19.59	22.94	20.95	17.16	19.13	18.04	17.31	19.80	18.81
February.....	21.54	27.26	24.68	23.08	31.06	29.27	26.12	31.10	27.48	20.21	23.00	21.78	17.21	19.54	18.56	18.04	20.45	19.37
March.....	23.22	30.98	26.51	28.46	30.84	29.86	27.24	31.50	28.59	20.33	22.90	22.21	18.38	20.44	19.28	18.16	19.64	18.85
April.....	23.98	28.42	26.99	28.27	31.34	29.82	24.02	31.98	26.94	21.31	24.16	22.77	19.08	21.26	20.11	19.08	21.12	19.91
May.....	23.38	29.09	27.17	27.71	31.27	29.83	26.56	30.29	28.85	22.10	23.23	22.65	18.88	20.89	19.75	19.19	21.17	20.13
June.....	23.02	30.44	26.51	26.95	31.41	29.04	25.96	29.81	27.76	20.50	23.61	22.53	18.20	21.53	19.51	18.62	20.32	19.56
July.....	21.03	27.74	25.49	26.41	29.97	27.37	26.35	28.84	27.72	21.97	23.67	22.98	17.51	19.45	18.56	17.88	19.57	18.67
August.....	23.82	29.62	26.23	25.46	28.14	27.21	25.58	30.04	27.54	22.47	23.58	22.91	18.21	20.70	19.17	18.32	19.80	18.98
September.....	22.17	31.65	26.39	24.96	30.16	26.96	25.36	29.48	27.52	19.86	23.98	22.27	17.59	21.02	19.11	17.87	21.08	19.25
October.....	22.14	28.54	25.41	27.00	31.96	30.16	24.97	30.98	27.91	21.22	22.88	22.22	18.70	21.71	19.77	18.21	20.00	19.20
November.....	24.19	30.06	26.71	25.12	31.53	30.05	25.34	31.26	28.91	19.72	21.78	21.31	18.47	20.06	19.41	18.77	19.67	19.24
December.....	20.75	28.16	24.35	27.57	30.56	28.56	25.40	31.75	28.54	20.34	22.84	21.58	18.58	20.04	19.34	18.10	20.24	19.35
Year.....	Average	25.87	Average	28.94	Average	27.76	Average	22.18	Average	19.22	Average	19.27	Average	19.22	Average	19.27		
Distance from Gas Works.	2 1/10 Miles.			3 1/10 Miles.			1 7/10 Miles.			3 3/10 Miles.			1 8/10 Miles.			1 7/10 Miles.		
Testing burner.	{ Bray's Slit Union No. 7.			{ Bray's Slit Union No. 7.			{ Bray's Slit Union No. 7.			{ Bray's Slit Union No. 6.			{ Empire, 5 feet.			{ Empire, 5 feet.		
Gas.....	{ Water gas du Motay.			{ Water gas du Motay.			{ Pine wood and naphtha.			{ Coal and naphtha.			{ Coal gas.			{ Coal gas.		

EXHIBIT "F."

Agreement.

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

A. Witnesseth, that the said party of the second part hereto has agreed and by these presents does agree with the said parties of the first part, for the consideration hereinafter mentioned, and under the penalty expressed in a bond bearing even date with these presents and hereunto annexed to furnish illuminating gas to, and to light and extinguish the public lamps belonging to the parties of the first part in the portions of the City of New York bounded and described as follows, to wit:

In that part of the City of New York lying south of the centre line of Grand street, from the East river to Sullivan street, through Sullivan street to Canal street, and thence through the centre line of Canal street to the Hudson river; excepting the lamps on Battery Park, City Hall Park, and on Broadway from Canal street to Grand street, for and during the term of one year, commencing on the first day of May, A. D. 1883, and ending on the 30th day of April, A. D. 1884, both days inclusive. And during the same period to repair and paint the lamp-posts and lanterns of such lamps, and replace the cocks, tubes, and burners, cross heads, lamp-irons and lanterns thereof, and clean and reglaze such lanterns; and to fit up, light and extinguish such new lamps as may be required by the said parties of the first part in said portion of said city, and to repair, paint, clean, reglaze and replace such new lamps and the appurtenances thereof.

B. And it is further agreed that the said parties of the first part shall have the right to order the pipes or conductors of the party of the second part to be extended and new lamps to be erected in and along all the streets, avenues, and public places within the limits aforesaid or adjacent thereto.

C. All the gas or materials furnished, and all the work and labor done by the party of the second part hereto, shall be of the kinds and qualities, and furnished and done in all respects in strict conformity to the terms, conditions, and requirements of the hereinafter contained specifications.

D. Should any alteration or any attachment be required to any portion of the lamps to be lighted under this agreement, for the purpose of using any other material than illuminating gas, then such alteration will be done and attachments placed and maintained on the lamps by the party of the second part hereto at its own cost and expense.

E. If the estimate or bid of the party hereto of the second part included any lamps with which the pipes or conductors of said party of the second part were not connected at the time of the making such estimate or bid, thirty days from the date of the execution of this agreement, and such further time, not exceeding thirty days, as may be deemed reasonable by the Commissioner of Public Works, will be allowed the party of the second part in which to connect such pipes or conductors with such lamps: Provided, the said party of the second part have or shall procure a grant or franchise from the Mayor, Aldermen, and Commonalty, authorizing the laying of gas-mains or conductors in the streets or parts of streets in which the said lamps are located.

F. But no payment on account of any such lamps will be made to the party of the second part for the time so allowed, nor until the same shall have been connected with the mains or conductors of the party of the second part, nor will payment be made on account of any lamp except for the time during which all the requirements herein mentioned shall have been fully performed in accordance with the following

Specifications:

1. Lighting.—The lamps shall be lighted during such times as the public lamps throughout the City of New York may be required to be lighted, by the regulations of the said parties of the first part, in accordance with a time-table to be furnished by the Commissioner of Public Works. Also, the Department of Public Works may direct and require, by notice to that effect, that all or any portion of said public gas-lamps shall be lighted, and kept burning, at any other time or times during the continuance of this contract; and the said party of the second part shall and will light the same and continue them burning, in accordance with any and every direction of the Department of Public Works to that effect: Provided that, if in compliance with the directions of the Department of Public Works, the whole number of hours during which the said lamps, or a portion of them, are kept burning, shall exceed the number of hours specified in the time-table to be furnished by the Commissioner of Public Works, which time-table shall aggregate a total of 4,000 hours for the term, then, in that case, the said party of the second part shall be entitled to claim and receive, for such additional number of hours, during which the public gas-lamps, or such portion of them, in the district aforesaid, are kept burning in accordance with such direction of the said Department of Public Works, an additional compensation, equivalent to a pro rata increase of the compensation hereinafter allowed, proportioned to the increased number of hours beyond the said number, and the number of lamps so kept burning. And also, provided, that if, in compliance with the direction of the said Department of Public Works, the number of hours during which the said lamps, or any portion of them, are kept burning, shall be less than the aforesaid number of 4,000 per term, then, in that case, there shall be deducted an amount equivalent to a pro rata decrease of the compensation hereinafter allowed, proportioned to the decrease of the number of hours below the said number, and to the decrease of the number of lamps so kept burning. And also, provided, that said Department of Public Works shall have the right at any time to increase or diminish the number of lamps awarded to be lighted by the party of the second part under this contract. If the lamps are to be lighted by means of gas or naphtha, then it is expressly agreed that all the lamps shall be lighted within one hour from the time fixed in the time-table as the time for beginning; also that they shall be lighted either by the means of a torch, or the use of a ladder, and that the lamp-lighters will not be permitted to climb the lamp-posts for such purpose. The party of the second part to keep the service-pipes and stand-pipes (if any are used) of said lamps cleared of all obstructions and in good order, at its own cost and expense, except such service-pipes as shall have been broken or removed by the construction of sewers. If, however, any of the lamps should be lighted by the electric current or electric light, then all such lamps shall be lighted within ten minutes from the time of beginning, and all such electric lamps shall be kept lighted 3,818 hours during the contract.

2. Illuminating Material, Quality of.—If the material to be furnished under this agreement shall be illuminating gas, then such gas shall have an illuminating power of not less than sixteen candles, when tested at a distance of not less than one mile from the place of manufacture, on the improved form of the Bunsen photometer, by a Sugg-Letheby 15-hole Argand burner, calculated on a consumption of five cubic feet of gas per hour. The regular daily tests, however, will be made with a burner that will obtain from the gas the greatest amount of light, and practicable for use by the consumer, and consuming at the rate of five cubic feet of gas per hour; the testing candle shall be of sperm, of six to the pound, and consuming, as near as possible, one hundred and twenty grains of spermaceti per hour; and no candle shall be used for testing which consumes less than one hundred and fourteen or more than one hundred and twenty-six grains of spermaceti per hour. And, as regards purity, the gas shall be free, within limits not injurious to the public health, from ammonia, sulphuretted hydrogen, and other sulphur and noxious compounds. In case the illuminating material shall be oil or naphtha, then the quantity of light produced by the burner used for such material shall be equal to the quantity (by photometrical test) produced by the sixteen-candle coal-gas, above described, consumed by the 3-feet gas-burners called for in this agreement. But in case the lamps, or any of them, should be lighted by what is known as the incandescent system of electric lighting, then the quantity of light furnished by each of such lamps shall be equal to the light furnished by a 3-feet gas burner, such as is used in the public gas-lamps of this city, when burning the sixteen-candle gas called for by this agreement. If, however, the lamps, or any of them, shall be lighted by the "Voltaic Arc" system of electric lighting, then the quantity of light produced by each of such lamps shall not be less than the light produced by 2,000 of the standard sperm candles by which illuminating gas is tested, and the light shall be measured on a Bunsen photometer.

3. Burners.—All the burners to be used for the illuminating material, commonly called illuminating gas, shall be of a capacity to burn three cubic feet of gas per hour, under a pressure of one inch, and each of said burners shall burn three cubic feet of gas per hour during all the time the lamps are required to be kept lighted. Should the illuminating material be oil or naphtha, then the burners to be used for such illuminating material shall give a light (by photometrical test) equal to the light given by the gas-burners in use in the public lamps in the City of New York. The burners are to be kept clear at all times so as to allow a free and unobstructed flow of the illuminating material, and to permit a full and normal flame.

It is agreed, however, that the parties of the first part shall have the right to require that burners of a greater consuming capacity than three cubic feet of gas per hour shall be furnished to the public gas lamps, or any portion of them, at any time during the aforesaid term of one year; provided that the parties of the first part will pay to the party of the second part, for the lamps so furnished, an additional compensation, equivalent to a pro rata increase of the compensation hereinafter allowed, after deducting from such compensation the sum of (\$4) four dollars per lamp, for the cost of lighting, extinguishing, cleaning, repairing, reglazing and painting, and proportioned only to the increased amount of gas consumed by each burner over and above three cubic feet per hour.

4. Cleaning.—All the lamps are to be kept in a cleanly condition, and they shall be cleaned at least three times in each week, and oftener if the Department of Public Works shall direct or require the same, and at each of these cleanings all the glass shall be thoroughly cleaned both on the inside and outside of the lantern, and all dust and dirt shall be brushed from the frames.

5. Repairing and Reglazing.—The lamps are to be repaired and reglazed within twenty-four hours after any portion of the same shall be broken, and all the work or material for either of said purposes is to be furnished by the party of the second part, without cost to the city. Stained glass of a ruby color shall be placed in the tops of the gas lantern nearest to the several Fire Alarm Signal boxes, and in the tops of the gas lanterns on the street corners nearest said boxes. And in case any of such stained glass should be broken, after being placed in the lamps, then the party of the second part shall procure glass, of the same color, and place and keep the same in the lamps without cost to the city.

6. Repairing Lamp-posts.—Whenever the Department of Public Works shall require that any lamp-post or posts shall be straightened, or that any column or columns be releaded, or that any lamp-post or posts be repaired in any other manner in this contract specified, the same shall be done within twenty-four hours after said Department shall notify said party of the second part of such requirement.

7. Painting.—The lamp-posts, lamp-irons, brackets and lanterns used for gas or naphtha, are to have one heavy coat of best paint, ground in oil, as follows: The lamp-posts, cross-heads, and stand-pipes of bracket lamps to have one coat of dark green paint, blue shade. The square lamp-irons, brackets, and outside of lanterns to have one coat of green paint, pea-green shade; the design being to make a strong contrast between lamp-posts and lanterns. The tin work on inside of lanterns to be painted in all their parts with one heavy coat of best white lead paint; the round lamp-irons and underside of the reflectors of the globe lamps to be painted with one coat of the best white lead paint, and so much of the stand-pipes, as project above the lamp-posts, to be painted in the same manner as the lamp-posts. The ornamental lamp-posts to be painted in at least three colors. All the material shall be of the best quality, and prepared so as to present a gloss finish. All the painting is to be completed by the first day of November next.

8. Removing Lamp-posts.—All lamp-posts to be taken down which the Department of Public Works may require to be removed for any purpose.

9. Cocks, Tubes, and Burners.—The cocks, tubes, and burners, which may become worn out or useless, or which in the opinion of the Department of Public Works are worn out or useless, to be immediately replaced by the party of the second part, at its own cost and expense.

10. Fitting up New Lamps.—New lamps are to be fitted up in any street, avenue, pier, park or public place, wherever the same may be required by the Department of Public Works. The butts and columns are to be placed in a strictly perpendicular position, the socket of the butt to be caulked with yarn gasket and melted lead, the lead to be tamped and then trimmed even with rim of butt. The service-pipe and stand-pipe to be of three-quarter inch wrought iron pipe, the service-pipe to have a direct fall to the main, the service-pipe and bend on bottom of stand-pipe to rest on solid earth to prevent the same from settling and forming a trap; the earth is to be thoroughly tamped about the butt as the same is thrown into the excavation. Bracket-lamps are to be fitted up in lieu of lamp-posts, when required, the brackets and stand-pipes to be fastened to the wall in a firm and secure manner. The service-pipes, stand-pipes and fittings, are to be furnished and connected by the party of the second part; the lamp-posts lamp-irons, lanterns, and brackets will be furnished by the parties of the first part, through the Department of Public Works, to the party of the second part. New lamps, which may be required to burn any other material than illuminating gas, to be fitted up without service-pipes or stand-pipes. All new lamp-posts are to be painted immediately after the same shall have been erected.

11. Lanterns.—All lanterns used for gas or naphtha which, in the opinion of the Superintendent of Lamps and Gas, may become so worn out, broken or useless as to be unfit to be repaired, are to be removed from the posts and other lanterns substituted in lieu thereof (and globe lamps substituted for square lamps) by the party of the second part without charge to the city, when so ordered by the said Superintendent. The lanterns and globes for that purpose will be furnished by the parties of the first part, through the Department of Public Works, to the said party of the second part.

12. Crossheads and Lamp-irons.—The crossheads and lamp-irons used for gas or naphtha lamps which, in the opinion of the Department of Public Works, may become broken or out of order, are to be replaced on the posts by the party of the second part without charge to the city. The cross-heads and lamp-irons for that purpose are to be furnished by the parties of the first part, through the Department of Public Works, to the said party of the second part.

13. Street Signs.—The glass street-signs to be placed and retained in their proper places and positions in the gas or naphtha lantern; and globes, containing street names, are to be placed upon the gas-lamp posts when required by the Department of Public Works. The signs and globes are to be furnished by the Department of Public Works to the party of the second part.

14. Electric Lamps.—The poles, wires, conductors, lamps, carbon, electrodes, and each and every other article or apparatus which may be necessary for electric-lighting, are to be furnished and maintained by the party of the second part at its own cost and expense; and the wires and conductors shall be thoroughly insulated and shall be placed in such locations and in such manner as will prevent them from being tampered with or handled by any unauthorized person or persons, and the corporation of the City of New York shall not be held responsible for any injury or accident which may be occasioned by the wires or conductors. And in case clear or plain glass globes should be used on "Voltaic Arc" lights, and such globes should be deemed objectionable, then the Commissioner of Public Works shall have the right to direct that such clear globes be removed and ground glass globes substituted therefor.

15. Cartages.—All supplies which, under this agreement, may be required to be furnished by the parties of the first part, will be so furnished, but the cartage thereof shall be done by the parties of the second part.

16. Whenever in these specifications or in this agreement of which they form part, the words "party of the second part," or pronouns in place thereof are used, such words and pronouns are to be understood as meaning and referring to the party or parties (as the case may be) of the second part of this agreement.

G. The prices fixed for the various services herein provided to be performed by the party of the second part are as follows:

For furnishing the aforesaid illuminating material for each lamp, including the lighting, extinguishing, cleaning repairing, reglazing, painting, replacing cocks, tubes, burners, crossheads, lamp-irons, and lanterns thereto, for the aforementioned period of one year, the sum of seventeen dollars and fifty cents (\$17.50).

For each lamp-post straightened, the sum of one dollar and fifty cents (\$1.50).

For each column releaded, the sum of three dollars and fifty cents (\$3.50).

For each column refitted, the sum of three dollars and fifty cents (\$3.50).

For each lamp-post removed, the sum of three dollars and fifty cents (\$3.50).

For each lamp-post reset, the sum of ten dollars (\$10.00).

For each new lamp fitted up, the sum of ten dollars (\$10.00).

H. The United States Revenue Tax.—And it is hereby agreed, by and between the parties to these presents, that the parties of the first part shall not be called upon to pay to the said party of the second part, any amount for any tax which the Government of the United States may assess upon the illuminating material consumed by the public lamps within the district aforesaid.

I. And it is further agreed, that the said party of the second part shall have the right to lay pipes or conductors at any time between May 1, 1883, and April 30, 1884, upon giving forty-eight hours written notice to the Department of Public Works, of its intention to break up or open any street, avenue, or public place, or part thereof, or to remove any part of the pavement thereof, for the purpose of laying or repairing the pipes or conductors to conduct the said gas, or other illuminating material. And the party of the second part shall, whenever it shall break up or open any street, avenue, or public place, replace the earth which may be removed in so doing, before sunset of the day on which such opening shall be made (the earth to be thoroughly tamped as the same is thrown into the trench or excavation), and replace the pavement, and repave and repair the same, in such reasonable time and manner as the Department of Public Works may direct, and in as good and firm a manner as such street, avenue, or public place, or part thereof, was in before being broken up for the purpose aforesaid, and shall, from time to time, as required by the Department of Public Works, readjust and fill and finish the same as long as in the opinion of the Department of Public Works may be necessary on account of the settling of the earth or pavement caused by the opening. Also, all such repairs as shall at any time become necessary to said pavement, by reason of laying the said pipe or conductors, shall be made and done by said party of the second part, at its own cost and expense. And it is also agreed that the party of the second part shall furnish to the Commissioner of Public Works a report weekly, stating therein the location of each and every opening made in the pavements during the preceding week. And no such street, avenue, or public place, or part thereof, shall or will be so broken up or opened, or the pavement thereof removed, or be again filled up or repaired, except under the direction and supervision of a competent person, to be appointed by the Department of Public Works; but the said party of the second part shall not be called upon to pay any sum, to any party or parties, for the inspection of any pavement which it may have occasion to replace. And it is further agreed, that the said party of the second part shall and will so conduct the manufacture and manufacturing of gas, or stations for other illuminating material, as not to create a nuisance, and that it will in all things be governed by such reasonable rules and regulations as the said Department of Public Works may from time to time establish or direct, relative to the opening of such streets, avenues, or public places, or parts thereof, and laying down the pipes and conductors, and for lighting, cleaning, and protecting the lamps and street signs aforesaid. And it is further agreed, that, in order that the Commissioner of Public Works and his assistants may determine whether the gas-lamps are lighted and extinguished in accordance with the time-table furnished by said Commissioner, the party of the second part shall furnish to the Superintendent of Lamps and Gas, a map or maps showing the lamps on the district of each lamp-lighter, and designating the particular lamp at which each lighter commences to light, and also the lamp at which he completes the lighting; and in extinguishing the lamps, the lamp-lighter shall begin and finish at the same lamps as are designated for beginning and finishing the lighting; and the party of the second part shall notify the Superintendent of Lamps and Gas of any change which may be made in the beginning and finishing point on any lamp district during the term of this contract. And it is further agreed that the party of the second part shall furnish to the Superintendent of Lamps and Gas, a report weekly, stating therein the number and location of all new lamps fitted up and lighted, of lamp-posts removed and reset, and of lamps discontinued during the preceding week. And it is hereby expressly provided, that nothing herein contained shall be construed or deemed as granting to the party of the second part, any sole or exclusive right or privilege,

or as preventing the said parties of the first part from granting the like privileges as are hereby given to the said party of the second part, to any other company, persons, or parties whatsoever, or as preventing any person or persons residing in or adjacent, or near to any of the said streets, avenues, or public places, or parts thereof, from erecting, in or upon his or their own premises, any building or apparatus to light with gas, his or their own house, store, manufactory, or premises.

J. And it is hereby further agreed, that in case the said party hereto of the second part shall fail or neglect to keep the covenants herein contained, or any of them, or neglect to light, repair, paint, clean or fit up the public lamps as before mentioned, or any of them it shall be lawful for the Commissioner of Public Works to cause such work to be performed by other parties, and to deduct the expense thereof from any moneys which may be due or may become due to the party of the second part, and to hold the party of the second part and its sureties liable for the amount thereof which may be in excess of the prices stipulated in this agreement.

K. And it is further agreed, that for each and every electric lamp which shall be extinguished or not lighted during any portion of the night, the party of the first part shall deduct from the bills of the party of the second part the full amount which the party of the second part would be entitled to receive if such lamp or lamps had been lighted during the whole night; and for each and every electric lamp which shall be extinguished or not lighted the whole night, the party of the first part shall deduct twice the amount which the party of the second part would be entitled to receive if such lamp or lamps had been lighted the whole night.

L. And it is further provided, and these presents are upon the express condition, that if the said party of the second part, or its successors, shall not well and truly observe, perform, fulfill and keep all and singular the covenants and conditions hereinbefore mentioned and contained, on its part and behalf to be observed, performed, fulfilled and kept according to the true intent and meaning of these presents, then and in that case it shall and may be lawful for the Commissioner of Public Works, on the part of the said parties of the first part, to declare this contract annulled and vacated, and thereupon it shall become and be thenceforth null and void.

M. And it is further agreed, that on or after the first day of each and every month from the month of June, 1883, to the month of May, 1884, both months inclusive, the party of the second part shall furnish proof, to the satisfaction of the Commissioner of Public Works, that it has fully performed and fulfilled this contract in all the particulars and conditions aforesaid during the preceding month, and particularly that it has furnished the illuminating material of the quality hereinbefore specified, and that all the lanterns have been cleaned three times in each week of said month, and also that the gas-burners have consumed three cubic feet of gas, each per hour, during all the time that the lamps were required to be kept lighted. Upon so doing, the Commissioner shall certify the fact, and in his certificate state the amount to which the party of the second part shall be entitled for all the duties performed by it during such preceding month, and annex thereto a requisition upon the Comptroller to pay the party of the second part therefor the sum to which it shall be so entitled; and without such proof, to the satisfaction of the Commissioner of Public Works, he shall not make any certificate nor requisition on the Comptroller; and the party of the second part shall also furnish proof to the satisfaction of the Comptroller that it has fully performed and fulfilled this contract in all the particulars and conditions aforesaid, and without such proof the said party of the second part shall not be or become entitled to any payment in respect to services which were required to be done, or should have been done, in such preceding month. On the requisitions above provided being presented to the Comptroller of the City, he shall, within twenty days thereafter pay to the party of the second part the amount thereof in lawful money.

N. And it is further agreed by and between the parties hereto, that if, at any time before or within thirty days after the whole work herein agreed to be performed has been completed and accepted by the parties of the first part, any person or persons claiming to have performed any labor or furnished any materials towards the performance or completion of this contract shall file with the said Commissioner of Public Works, Mayor and Comptroller, or with the Bureau having charge of said work, and with the head of the Finance Department of the said City of New York, any such notice as is described in the Act of the Legislature of the State of New York, passed May 22, 1878, entitled "An act to secure the payment of laborers, mechanics, merchants, traders and persons furnishing materials towards the performing of any public work in the cities of the State of New York," then and in every such case the said parties of the first part shall retain, anything herein contained to the contrary thereof notwithstanding, from the moneys under their control and due or to grow due under this agreement, so much of such moneys as shall be sufficient to pay off, satisfy and discharge the amount in such notice alleged or claimed to be due to the person or persons filing such notice, together with the reasonable costs of any action or actions brought to enforce such claim or the lien created by the filing of such notice. The moneys so retained shall be retained by the said parties of the first part until the lien thereon created by the said act and the filing of the said notice, shall be discharged pursuant to the provisions of the said act.

O. And it is further agreed by and between the parties hereto, that it will furnish the said Commissioner of Public Works, Mayor and Comptroller with satisfactory evidence that all persons who have done work or furnished materials under this agreement, and who may have given written notice to the said Commissioner of Public Works, Mayor and Comptroller before or within ten days after the final completion and acceptance of the whole work under this contract, that any balance for such work or material is due and unpaid, have been fully paid or satisfactorily secured. And in case such evidence be not furnished as aforesaid, such amount as may be necessary to meet the claims of the persons aforesaid shall be retained from the moneys due the said party of the second part under this agreement, until the liabilities aforesaid shall be fully discharged or such notice withdrawn.

P. And it is hereby expressly agreed and understood by and between the parties hereto that the said parties of the first part, their successors and assigns, shall not, nor shall any department or officer of the City of New York be precluded or estopped by any return or certificate made or given by the Engineer, Inspector or other officer, agent, or appointee of said Department of Public Works or said parties of the first part, under or in pursuance of anything in this agreement contained, from at any time showing the true and correct amount and character of the work which shall have been done and materials which shall have been furnished by the said party of the second part, or any other person or persons under this agreement.

Q. And the parties hereto declare that this contract is made with reference to the proposals hereto annexed, which are to be taken as part and parcel of these presents.

In witness whereof, the said Mayor, Comptroller and Commissioner of Public Works have hereunto set their hands and seals, on behalf of the said parties of the first part, and the said party of the second part has caused its corporate seal to be hereunto affixed, and its President and Secretary hereto to set their hands, and said parties hereto have executed triplicate copies hereof, one of which is to remain with the Commissioner of Public Works, one other to be filed with the Comptroller of the City of New York, and the third to be delivered to the said party hereto of the second part, the day and date herein first above written.

FRANKLIN EDSON,
Mayor of the City of New York.
ALLAN CAMPBELL,
Comptroller of the City of New York.
HUBERT O. THOMPSON,
Commissioner of Public Works.
THE NEW YORK GAS-LIGHT COMPANY,
By THOMAS K. LEES, President.
WILLIAM J. CLARK, Secretary.

Witness:
JOHN S. ROUTH.
Attest:
WM. J. CLARK, Secretary.

Know all men by these presents, that we, The New York Gas-light Company, Percy R. Pyne and Frederic W. Stevens, of the City of New York, are held and firmly bound unto the Mayor, Aldermen and Commonalty of the City of New York in the sum of forty thousand dollars, lawful money of the United States of America, to be paid to the said Mayor, Aldermen and Commonalty, or to their certain attorney, successors, or assigns; for which payment, well and truly to be made, we bind ourselves and our several and respective heirs, executors and administrators, jointly and severally, firmly by these presents.

Sealed with our seals Dated this twenty-fifth day of April, one thousand eight hundred and eighty-three.

Whereas, The above bounden, The New York Gas-light Company, by an instrument in writing, under their corporate seal, duly attached, bearing even date with these presents, and one part whereof is hereto annexed, have contracted with the said Mayor, Aldermen, and Commonalty to furnish the illuminating material for, and to light and extinguish certain of the public lamps of the City of New York, and keep such lamps and lamp-posts in all their parts in order, as in said contract will more fully and at large appear.

Now, therefore, the condition of the above obligation is such, that if the said The New York Gas-light Company shall well and truly, and in a good, sufficient and workmanlike manner, perform, fulfill, observe, and keep the said contract, and each and every of the covenants, provisions, conditions and terms therein contained, on their part to be performed, fulfilled, observed, and kept, then this obligation to be void; otherwise to remain in full force and virtue.

THE NEW YORK GAS-LIGHT CO.,
Per THOMAS K. LEES, President.
WM. J. CLARK, Secretary.
PERCY R. PYNE.
FREDERIC W. STEVENS.

Signed and sealed in presence of:
JOHN ROUTH.

EXHIBIT "G."

Time Table for Lighting and Extinguishing the Public Lamps, for the Year 1884.

DATE.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.	DATE.	BEGIN TO LIGHT.	BEGIN TO EXTINGUISH.
Jan. 1.....	H. M.	H. M.	July 2.....	H. M.	H. M.
" 8.....	4.30	6.30	" 9.....	7.30	3.15
" 15.....	4.40	6.30	" 16.....	7.30	3.15
" 22.....	4.50	6.25	" 23.....	7.20	3.15
" 29.....	5.00	6.25	" 30.....	7.10	3.30
Feb. 5.....	5.10	6.10	Aug. 6.....	7.10	3.45
" 12.....	5.20	5.55	" 13.....	6.55	4.00
" 19.....	5.30	5.55	" 20.....	6.45	4.10
" 26.....	5.30	5.45	" 27.....	6.30	4.20
Mar. 5.....	5.40	5.35	Sept. 3.....	6.15	4.30
" 12.....	5.50	5.20	" 10.....	6.05	4.40
" 19.....	6.00	5.10	" 17.....	5.55	4.50
" 26.....	6.10	4.55	" 24.....	5.40	5.00
Apr. 2.....	6.15	4.40	Oct. 1.....	5.30	5.00
" 9.....	6.25	4.30	" 8.....	5.20	5.10
" 16.....	6.30	4.20	" 15.....	5.10	5.20
" 23.....	6.40	4.10	" 22.....	5.00	5.30
" 30.....	6.45	4.00	" 29.....	4.45	5.35
May 1.....	6.45	4.00	Nov. 5.....	4.40	5.45
" 7.....	6.55	3.40	" 12.....	4.30	6.00
" 14.....	7.00	3.30	" 19.....	4.25	6.00
" 21.....	7.10	3.15	" 26.....	4.20	6.10
" 28.....	7.15	3.15	Dec. 3.....	4.20	6.15
June 4.....	7.25	3.15	" 10.....	4.20	6.20
" 11.....	7.25	3.15	" 17.....	4.20	6.20
" 18.....	7.30	3.15	" 24.....	4.20	6.25
" 25.....	7.30	3.15			

INSTRUCTION TO LAMP-LIGHTERS.

I.—The lamps must be lighted and extinguished strictly in accordance with the time specified in this time table, and all the lamps must be lighted within one hour from the time of beginning.

II.—The lamps must be kept clean and in good condition; the top glass, sides and bottom glass must be thoroughly cleaned, both on the outside and inside of the lantern, three times in each week, and oftener if necessary to keep them clean, and dust and dirt must be brushed from the frames, and the glass street signs must also be cleaned. Lighters must bear in mind that with clean glass a greater brilliancy is obtained from the flame. In the winter season the snow must be brushed from the lanterns after each snow fall. Dirty and disordered lamps will be considered as evidence of a careless and incompetent lamp-lighter.

III.—The glass street signs must be kept in their proper positions. The sign bearing the name of any avenue or a main street must face the roadway of such avenue or street. One of the signs bearing the name of a cross street must face the roadway of such street, and the other sign must be placed on the opposite side of the lantern. Be careful to observe that the name does not face the inside of the lantern.

IV.—Advertising signs on the lamp-posts or lantern, or colored or ground glass in the lantern, are a violation of a Corporation Ordinance, and must not be permitted, except the red glass near the fire-alarm boxes and these must be kept in place.

V.—If a lighter, on extinguishing a lamp, should find a glass broken, he must replace the same before lighting time of the same day. If he should find a glass broken while lighting, he must replace the same before lighting time of the following day, and the bottom glass must be kept in place as well as sides and tops. If he should find any portion of the tin work broken, he must take the lantern to his Superintendent for repairs.

VI.—The burners must be kept in good condition to burn with a full, clear, steady flame, and not with a single or forked jet. If a burner, when lighted, should not emit the proper flame, then the same must be immediately cleared from its obstruction; and if it will not burn properly, another burner must be substituted.

VII.—If a lighter, when lighting, finds that a lamp will not burn, he will leave such lamp and finish his route. He must then return to the unlighted lamps and endeavor to get them in burning order. If he cannot make the lamp burn, he must report the same on the following morning to the Superintendent of the Gas Company.

VIII.—Lamp lighters will not be permitted to climb the lamp-posts. The lamps must be lighted either by means of a torch or the use of a ladder.

IX.—In case a lamp-post should be found broken or taken down, or requiring repairs, he must report the same at once to the Superintendent of the Gas Company, stating the correct location of the post and what repairs are required. If the post has been taken down, he must report by whom and for what purpose, and date when done. No excuse will be accepted from any lamp-lighter who fails to report lamp-posts taken down or broken.

X.—Lighters must not break the lamp bottoms, nor the street-sign slots. Lamps furnished with these slots should be placed on corner lamp-posts.

XI.—Ladders must not be left tied to the lamp-posts.

CORPORATION ORDINANCES RELATING TO THE PUBLIC LAMPS.

Sec. 68. Any person breaking, mutilating, or obstructing any of the public lamps in the city of New York, shall be liable to a penalty of five dollars for each offense.

Sec. 69. Any person who shall break, misplace or carry away any of the glass street-signs now or hereafter to be placed in any of the public lamps, shall be liable to a penalty of three dollars for each offense.

Sec. 70. No person without permission of the Commissioner of Public Works, shall take up, remove or carry away any public lamp-post in the city of New York, under the penalty of ten dollars for each offense.

Sec. 71. No person shall remove, or cause or permit to be removed, any public lamp-post now or hereafter to be placed in front of their premises, for the purpose of constructing a vault or otherwise, without the permission of the Superintendent of Lamps and Gas; and the owner or owners of such vault shall cause the lamp-posts so removed to be reset at their own expense immediately upon the completion of the vault, under the penalty of twenty-five dollars for each offense.

Sec. 226. No person shall attach, place, or paste, or caused to be attached, placed, or pasted, any sign or advertisement, or other matter, upon any public lamp-post, now erected in the city of New York or that may hereafter be so erected, under the penalty named in the next section.

Sec. 227. The violation of any of the provisions of the preceding section shall be punishable by a fine of not less than one dollar, or more than ten dollars.

Sec. 412. It shall not be lawful to erect any telegraph-post within a distance of ten feet of any public street-lamp. Any person offending against any of the provisions of this section shall be deemed guilty of a misdemeanor, and on conviction thereof before any of the police magistrates or justices of this city shall be punished by a fine not exceeding ten dollars, or in default of the payment of such fine, by imprisonment not exceeding ten days.

S. MCCORMICK, Superintendent of Lamps and Gas.

Document "L."

CITY OF NEW YORK—DEPARTMENT OF PUBLIC WORKS,
BUREAU OF REPAIRS AND SUPPLIES,
SUPERINTENDENT'S OFFICE, 31 CHAMBERS STREET, ROOM 15,
NEW YORK, 1884.

Hon. HUBERT O. THOMPSON, Commissioner of Public Works:

SIR—In accordance with your instructions I have the honor to submit the following report of the transactions of this Bureau for the three months ending December 31, 1883.

The annexed exhibit shows the condition of the appropriations credited to this Bureau, and available balances.

Among the principal items of work were the following:
New County Court-house.—A system of electric call bells has been applied in Comptroller's office.

Portions of gutters where leaks occurred have been repaired and painted, and the flue tops painted and made tight at base on roof.

In the Sheriff's offices, additions and new connections have been made to electric call bells and annunciatory.

Hall of Records.—Book-racks and pigeon-holes have been put up and portions of the floor in Record repaired.

Brown-stone Building.—Iron gratings over area in rear of building have been repaired and new fastenings put on.

Electric light has been installed in the office of Receiver of Taxes.
A storm-door has been put up at first floor entrances on north and south side of the building.
Galvanized iron chimney-tops have been replaced on roof and some flues cleaned, electric light has been introduced in office of District Attorney.

City Hall.—In my report for the last quarter I stated that extensive repairs and alterations were in progress in the Mayor's offices and Aldermanic Chamber. Since then the work has been entirely completed to the satisfaction of the Mayor and Common Council.

In the Executive Department the walls and ceilings have been washed off, repaired, frescoed and decorated, and the woodwork either painted in uniform colors or grained and varnished.

In the main room and library entirely new furniture of walnut, upholstered in leather, has taken the place of the old, and the windows of same upholstered.

New carpets have been laid and window-shades hung; one chandelier has been put up in Library.

A portable heater has been set up in basement to heat Library, and new register placed in main room Mayor's office.

No. 31 Chambers street.—The roof of building has been repaired and painted. Wire guards have been put in all openings of well-hole. In the office of Water Register, closet has been furnished for the safe-keeping of books, maps and stationery, and weather-strips applied to windows. Grate-bars have been put in furnace, and the furnace relined, where needed, with fire-brick.

County Jail.—Storm-door enclosure has been erected at main entrance, additional wash-basins have been put in for use of prisoners, and repairs made to heating apparatus. New grate-bars have been put in furnace.

No. 49 Beekman street.—The flues have been cleaned, two galvanized-iron smoke-pipes have been put on chimneys, and the roof and skylight painted.

Third District Court-house.—Grate-bars have been put in furnace, the interior of same repaired, where needed, with fire-brick, and some repairs made to steam boiler.

City Prison Courts.—New tin flashing has been put around eight chimneys, and the posts of old tower repaired.

In the Clerk's room of the Court of Special Sessions, loose plaster has been taken down, the ceiling has been washed off and calcimined, the woodwork painted, and all the grainwork varnished.

Fifth District Police Court.—Some repairs have been made to steam-pipes, boiler, and heating apparatus.

Corporation Yard, Gansevoort street.—The roof of office has been repaired and painted.

Seventh District Court-house.—The chimneys have been cleaned, smoke-stacks on roof repaired, manhole plate on boiler reset, and portions of furnace relined with fire-brick.

Centre Market.—A portion of the felt and gravel roof, and the leader, on east side of building, have been repaired. The outside doors have been repaired, and necessary bolts and hinges put on. New sash and several lights of glass put in on first floor of building.

Catharine Market.—Outside doors have been repaired, new sash put in and general repairs made to glazing, the floor made good in several places.

Tompkins Market.—New doors put up, storm-doors repaired, and reglazing done, snow-guard taken down, slating repaired, and galvanized iron smoke-stack put on chimney.

Fulton Market.—The gutters around five towers have been relined, portions of slate roof repaired, the flashings pointed and secured, the felt and gravel roof repaired, and the roof on Beekman and Water streets sides painted.

West Washington Market.—On Vesey street pier some repairs have been made to planking, defective timbers taken out and replaced by new.

Ninth Regiment.—Repairs have been made to steam-pipes and radiators.

Twelfth Regiment.—The partition on the south side of the main drill room has been removed, and the balconies overhead have been suspended from the roof trusses by iron rods.

Twenty-second Regiment.—New cast-iron sewer-pipe has been laid, and extensive repairs made to plumbing and lighting of Armory.

Sixty-ninth Regiment.—New grate bars have been put in furnace and pit cocks put on radiators.

Free Floating Baths.—During the bathing season nine free swimming-baths have been in commission.

The following is a statement of the number of bathers:

LOCATION.	MALES.	FEMALES.	TOTAL.
Gouverneur street, East river.....	365,447	146,219	511,666
Fifth street, East river.....	351,795	129,325	481,121
Nineteenth street, East river.....	310,177	109,185	419,362
Thirty-seventh street, East river.....	235,513	111,906	347,419
One Hundred and Twelfth street, East river.....	219,810	111,275	331,085
Fifty-first street, North river.....	231,462	103,968	335,430
Bethune street, North river.....	258,944	102,613	361,557
Duane street, North river.....	96,502	52,583	149,085
At the Battery.....	318,155	176,206	494,361
Total.....	2,387,805	1,043,281	3,431,086

A contract was made for the building of four additional baths; they have been completed and accepted by the Department, and with the other nine are now in winter quarters in Gowanus basin, Brooklyn.

Annexed please find detailed report of Douglas Smyth, Esq., architect.

THOS. H. MCAVOY, Esq.:

DEAR SIR.—In regard to works of construction under my charge during the quarter ending January 1, 1884, I would state that four swimming-baths have been completed and delivered. The work at Jefferson Market has been completed, but not yet accepted or occupied, pending some repairs to roof. The work at Washington Market is going along rapidly and will be in all probability completed within the time required by contract.

During the year 1883 contracts have been completed for flooring Fulton Market and for laying new sidewalks around the same. The four baths above mentioned have been built. A contract was made for building an additional story on Jefferson Market, which contract is now practically completed. Drawings and specifications were made for alterations to Essex Market; the matter was referred to the Comptroller. The Commissioners of the Sinking Fund later decided to let the premises without improvements; no work has therefore been done. Drawings and specifications were made for an iron shed around Fulton Market, but no contract made, owing to informality in bids at public letting. Drawings and specifications are being prepared for the completion of all work in rebuilding Washington Market. This work will be ready for advertising by about February 1, 1884.

Very truly yours,

DOUGLAS SMYTH.

Very respectfully,

THOMAS H. MCAVOY, Superintendent Repairs and Supplies.

Document "M."

DEPARTMENT OF PUBLIC WORKS,
BUREAU OF INCUMBRANCES—ROOM 16, No. 31 CHAMBERS STREET,
NEW YORK, January 16, 1884.

Hon. HUBERT O. THOMPSON, Commissioner of Public Works:

SIR—I submit herewith the report of the operations of this Bureau for the quarter ending December 31, 1883 (months of October, November and December), together with a condensed statement of the entire business during the year:

Number of complaints received and notices issued therefor, against obstructions and incumbrances on sidewalks, streets and avenues, 440.

Number of removals of merchandise wagons, trucks, carts, stands, etc., to the Corporation Yard or other suitable places, 115.

Expense of such removals (including 72 loads of dirt, stone, rubbish, etc.), from various parts of the city..... \$691 70
Total expenses for the quarter..... 1,598 70

Received from owners for the redemption of seized articles, etc..... \$123 00

Received from sale held November 2, 1883, at the Corporation Yard, foot of Gansevoort street, North river..... 382 85

Total..... \$505 85

Which amount was duly paid over to the City Chamberlain.

Number of permits issued to builders.....	1,167
" " " to cut down trees.....	33
" " " for special purposes.....	101
" notices issued to repair and reflag sidewalks.....	186
" notices issued to repair vault covers.....	3
During the year 1883, the total number of complaints received and notices issued therefor, were.....	2,610
Removals to the Corporation Yard.....	771
" of loads of stone, dirt, rubbish, etc.....	2,295
" of dead and dangerous trees.....	96
Number of builders' permits issued.....	5,983
" special permits issued.....	589
" permits issued to cut down trees.....	60
" notices issued to repair and reflag sidewalks.....	652
" notices issued to repair vault covers.....	19

Total expenditure for the year..... \$7,999 99

Receipts for articles redeemed by owners..... \$574 25

Receipts from sales at Corporation Yard..... 549 10

Total..... \$1,123 35

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

The great number of obstructions and incumbrances, caused by the erection of new buildings, the repair and alteration of others, and the increasing demands of business, besides the many unnecessary and objectionable ones, which are the outgrowth of many years of custom and questionable legislation, renders the work of this Bureau at all times difficult, and often attended with serious and harassing obstacles. The conflicting and varied opinions which exist in different branches of the City Government, as to granting extraordinary or unnecessary privileges to individuals, for the use of the streets and sidewalks, tends to add to these evils, and to confuse the public mind as to the rights and privileges conferred by the laws and ordinances. Under these circumstances, this Bureau, while hardly claiming entirely satisfactory results for its work during the past year, has yet done all that it possibly could, with the means at its command, to abate and remove the worst and most objectionable obstructions and incumbrances, especially such as were offensive to, or interfering with, the comfort and rights of neighbors, etc. To do even this, over an area as large as is comprised within the limits of this island, requires all the resources within the control of this Bureau. The question of ridding the streets of the many telegraph and other poles, to which I alluded in my last annual report, seems to be fast approaching a satisfactory conclusion—the local authorities have already decreed that the wires of the Electric Light Company, must be placed underground by May 1, 1886. The same action will no doubt be taken by the present Legislature, with reference to telegraph and all other poles, and thus a final and more acceptable solution be arrived at, by the removal of these unsightly and unnecessary obstructions in our thoroughfares. If the local authority, from which nearly all the permits to place obstructions and incumbrances is derived, would determine that justice to all, means a like opportunity for all, and that every special grant or privilege to obstruct or encumber the streets or sidewalks, is an offense and injury to every one, except the recipient of such benefit or favors, the problem of making and keeping our thoroughfares clear, sightly and unobstructed, would be largely solved, and the hearty approval of every right thinking citizen thereby attained.

Respectfully,

JOSEPH BLUMENTHAL, Superintendent of Incumbrances.

Document "N."

BUREAU OF WATER REGISTER—31 CHAMBERS STREET,
NEW YORK, September 30, 1883.

Hon. HUBERT O. THOMPSON, Commissioner of Public Works:

SIR—I herewith transmit statement of moneys received for water rents, penalties and taps, for the quarter ending December 31, 1883:

	Taps.	Penalties.	Principal.
October.....	\$1,101 50	\$1,652 65	\$84,960 05
November.....	1,435 50	1,705 20	80,438 03
December.....	733 50	1,639 50	105,641 83
Total.....	\$3,270 50	\$4,997 35	\$271,039 91

Total..... \$279,307 76

Deposit to the credit of Special Meter Stock—

October.....	\$28 66
November.....	709 18
December.....	
Total.....	\$737 84

Water-Meter Fund, No. 2—

October.....	
November.....	\$388 04
December.....	3,413 54
Total.....	\$3,801 58

Special Fund—Repairing Streets—

October.....	\$1,075 75
November.....	1,237 00
December.....	744 50
Total.....	\$3,057 25

I have the honor to also submit a statement of moneys received for the year ending December 31, 1883, and placed to the credit of their respective accounts with the City Chamberlain.

TOTAL RECEIPTS.

Regular water rates and penalties.....	\$1,352,136 38
Water by meter measurement.....	478,141 08
Permits for water for building purposes.....	28,388 50
Regular water rates returned in arrears.....	\$80,335 55
Water by meter measurement returned in arrears.....	20,408 26
Pipe tapping receipts.....	\$10,853 00
Restoring pavements.....	\$11,360 30
Collections from Meters and Meter Settings—	
Special meter stock account.....	\$3,878 91
Water meter fund, No. 2.....	3,801 58
Amount returned to Bureau of arrears for meters and-meter setting.....	\$7,680 49
	3,472 80
Total.....	\$11,153 29

The amount received during the year for restoring pavements of \$11,360.30 is reserved for repaving openings in street made for the purpose of connecting water-pipes with buildings, repairing, etc.

The special water account of \$11,153.29 is reserved and set apart to reimburse the city for meters and meter settings.

The receipts for water rates and penalties, including water by meter measurement and building purposes, show an increase over last year amounting to \$222,335.71. The amount returned to the Bureau of Arrears in excess of last year's return is \$7,191.25, showing a total increase of the product of the Croton water from collections and returns in arrears, of \$229,526.96.

Respectfully submitted,

J. H. CHAMBERS, Water Register.

THE CITY RECORD.

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Association for Befriending Children and Young Girls, \$168.29.....

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