

THE CITY RECORD.

OFFICIAL JOURNAL.

VOL. XVI.

NEW YORK, TUESDAY, FEBRUARY 14, 1888.

NUMBER 4,484.



BOARD OF ESTIMATE AND APPORTIONMENT.

BOARD OF ESTIMATE AND APPORTIONMENT—CITY OF NEW YORK,
MAYOR'S OFFICE, CITY HALL,
FRIDAY, February 10, 1888—2 o'clock P. M.

The Board met in pursuance of the following call :

OFFICE OF THE MAYORALTY,
EXECUTIVE DEPARTMENT—CITY HALL,
NEW YORK, February 8, 1888.

In pursuance of the authority contained in the 189th section of the New York City Consolidation Act of 1882, a meeting is hereby called of the Mayor, Comptroller, President of the Board of Aldermen, and the President of the Department of Taxes and Assessments, constituting a Board of Estimate and Apportionment, to be held at the office of the Mayor, on Friday, February 10, 1888, at 2 o'clock P. M., for the purpose of transacting such business as may be brought before the Board.

ABRAM S. HEWITT, Mayor.

INDORSED :

Admission of a copy of the within as served upon us this 8th day of February, 1888.

ABRAM S. HEWITT,
Mayor;

THEO. W. MYERS,
Comptroller;

GEORGE H. FORSTER,
President of the Board of Aldermen;

M. COLEMAN,
President of the Department of Taxes and Assessments.

Present—All the members, viz.:

Abram S. Hewitt, the Mayor; Theodore W. Myers, the Comptroller; George H. Forster, the President of the Board of Aldermen; Michael Coleman, the President of the Department of Taxes and Assessments.

The minutes of the meeting held January 20, 1888, were read and approved.

The Comptroller presented the following :

CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE,
February 10, 1888.

To the Board of Estimate and Apportionment:

At the meeting of this Board held January 20, 1888, a resolution was adopted directing the Comptroller to ascertain the contract price of the construction, cost of obtaining necessary land and water-front for approaches, and amount of bonds that have been issued to date for the bridge over the Harlem river, built pursuant to the provisions of chapter 487, Laws of 1885.

On January 21, 1888, I addressed a letter to the Harlem Bridge Commission, requesting a statement to be furnished containing the desired information and showing the total expenditures made for construction to January 1, 1888, and an estimate in detail of additional expenses necessary for the completion of the bridge.

The detailed statement and estimates prepared and furnished by the Harlem River Bridge Commission, with copies of the contract and specifications, are herewith submitted.

It appears from the statement of the Bridge Commission that the contract price for construction of the bridge was \$2,055,000, and that the estimated cost of construction under the contract will amount to \$2,483,757.54, being an estimated increase of cost of \$428,757.54, by substitution of better classes of work and material for common, required by the alteration in design, as follows:

Estimated total cost of construction..... \$2,483,757 54
Deduct contract price..... 2,055,000 00

Estimated increase..... \$428,757 54

This estimated increase of cost includes \$182,232 additional expense of deeper foundation of Pier II, leaving \$246,525.54 for the increase of cost of the superstructure of the bridge under the contract.

The cost of the land for the approaches is not included, however, in the estimated cost, as the land was acquired by proceedings confirmed by the Supreme Court, November 28, 1876, and the awards paid by assessments on private owners of property benefited. The total amount of awards and expenses of the proceeding was \$37,751.78, and the assessments have all been paid, excepting \$2,760.98.

The total estimated cost of the bridge, as stated by the Bridge Commission, amounts to \$2,678,650.22, as follows:

Cost of construction—
Amount of contract..... \$2,055,000 00
Increase of cost on superstructure..... 246,525 54
Increase of cost of foundation, Pier II..... 182,232 00

Expenses to January 1, 1888—
Pay-rolls, etc., office of Commission..... \$25,395 45
Pay-rolls, Engineering Department, etc..... 94,307 23

Estimated expenses after January 1, 1888—
Pay-rolls, etc., Commissioners' office..... \$13,600 00
Pay-rolls, etc., Engineering Department..... 61,500 00

Total estimated cost..... \$2,678,650 22

Total estimated cost..... \$2,678,650 22

Amount of bonds authorized by the Board of Estimate and Apportionment upon the requisition of the Bridge Commission, under chapter 487, Laws of 1885..... \$1,800,000 00

Amount of premium received on bonds issued..... 34,432 00

Amount used by Bridge Commissioners of bonds issued on requisition of the Department of Public Parks for preliminary surveys of bridge, under a resolution of the Board of Estimate and Apportionment adopted November 25, 1885..... 2,000 00

Estimated amount required to complete the bridge..... \$842,218 22

Respectfully submitted,
THEO. W. MYERS, Comptroller.

CITY OF NEW YORK—HARLEM RIVER BRIDGE COMMISSION,
COTTON EXCHANGE BUILDING,
January 28, 1888.

Hon. THEODORE W. MYERS, Comptroller of the City of New York:

SIR—I have the honor to acknowledge the receipt of your favor of the 27th of January, and to say that immediately upon receipt of your communication of the 21st instant, the preparation of the detailed statement was commenced, and is so far advanced that I hope to forward the same to you on Tuesday next.

Very respectfully,
MALCOLM W. NIVEN, Secretary Harlem River Bridge Commission.

CITY OF NEW YORK—HARLEM RIVER BRIDGE COMMISSION,
COTTON EXCHANGE BUILDING,
January 31, 1888.

Hon. THEODORE W. MYERS, Comptroller of the City of New York:

SIR—I have the honor to acknowledge your favor of January 21, 1888, requesting "a statement of the contract price of construction and cost of the land and water-front approaches, including all incidental expenses connected with the construction of the bridge, showing the total expenditures that have been made, together with an estimate in detail of the expenses which will be necessary for the completion of the bridge," and by direction of the Commission to submit the following:

The contract price for construction was \$2,055,000, based upon a plan, a copy of which is hereto appended and marked "A"; and upon estimated quantities of each kind or class of work called for in the plans and specifications, as shown in the schedule hereto appended and marked "B"; and upon an estimated depth of foundation of Pier II, of twenty-two feet, as shown on the plan "A."

By reference to the contract on file in your office, a copy of which is hereto appended for your convenience, and marked "C," you will observe that the Commissioners reserved the right to alter change or amend the plans in any particular, and that if by reason of any such change the quantity of any kind or class of work should be increased or diminished, then such increase should be paid for at the prices specified in the schedule annexed to the contract, in addition to the contract price of \$2,055,000, a copy of which schedule forms part of Appendix "C" hereto annexed. And if by reason of any such change there should be diminution in any kind or class of work, such diminution should be deducted at the schedule price from the contract price of \$2,055,000.

And if there should be an increase or diminution of any kind or class of work not embraced in the Schedule "C," then such increase or diminution should be made at cost as certified by the Engineer.

By the application of the foregoing rules, as you will observe, the cost of the bridge might materially vary, as the quantity of the various classes was increased or diminished. Thus the substitution of better classes for common classes of work would increase the total cost of the bridge, but the result of such changes would greatly add to the beauty and dignity of the structure.

I append hereto, as part of my report, a photograph from the drawing in this office which gives a general view of the bridge as it will be when completed; from which you can readily judge by comparison with the plan "A" whether the general character of the bridge has been improved by the increase and decrease of certain classes of work and changes in material. The effect of these changes will be to increase the payments to the contractors about twelve per cent. above the contract price of \$2,055,000, exclusive of the item of \$182,232, cost of foundation of Pier II, below line on plan "A."

I have no data in this office from which to prepare any statement of the cost of the land and water-front approaches, the same having been acquired, I am informed, by the City several years prior to the passage of the act under which this Commission was constituted. The Commission were required to build a bridge on the site already owned by the City; and it was not deemed necessary to investigate the details of the proceedings upon which the title of the City was based.

The vouchers drawn by the Commission upon the Comptroller to January 1, 1888, beginning with the organization of the Commission on the 27th day of July, 1885, have been as follows:

1st. Pay-roll of employees in the office of the Commission.....	\$14,048 39	
Office rent and sundry bills.....	10,747 06	\$25,395 45
2d. Pay-roll of employees in the Engineering Department.....	\$72,229 04	
Payments for services to experts, etc.....	6,690 61	
Sundry bills.....	15,387 58	94,307 23
3d. Payments to contractors and others on account of construction.....		1,544,846 71
Total vouchers to January 1, 1888.....		\$1,664,549 39

A detailed list of all vouchers drawn by this Commission upon the Comptroller is appended and marked "D," and gives the details of the above statements.

The estimated cost of the completion of the bridge, including all work done and expenses incurred since January 1, 1888, is as follows:

1st. Estimated payments to be made to the contractors for the following items of work necessary to complete the bridge, January 1, 1888:

Granite in piers, quoins above spring-line.....	\$2,574 00
Granite interior voissiors of arches.....	24,419 96
Granite in cornice and parapet on piers, abutments and approaches.....	178,000 00
Granite seats at piers.....	3,000 00
Granite and gneiss facing of piers and abutments.....	10,348 00
Gneiss rubble.....	57,073 50
Concrete interior of piers and under foundations.....	16,621 00
Concrete under paving of approaches.....	4,290 00
Concrete over jack-arches and buckle-plates.....	12,925 00
Excavation of earth for grading roadway.....	316 00
Excavation of rock for grading roadway.....	8,670 00
Embankment.....	1,691 60
Selected gravel under roadway and pavement.....	1,495 00
Vitrified drain-pipes.....	3,505 50
Cast iron drain-pipes.....	500 00
Cast-iron gratings.....	80 00
Galvanized iron clamps and dowels.....	1,000 00
Blue-stone flags, sidewalk.....	36,627 00
Curb-stone.....	4,746 00
Gutter stone.....	3,796 80
Asphalt covering.....	20,020 00
Granite pavement.....	37,968 00
Gas pipes.....	2,847 60
Gas-lamps.....	4,200 00
Gas-lamps, clusters.....	3,600 00
Arch pier quoins.....	2,109 00
Brick work.....	34,632 00
Steps and platform, stairway.....	2,300 00
Metal work erected and painted.....	289,132 71

Total..... \$768,488 67

Add ten per cent. heretofore retained..... 170,422 16

Total estimated payments to contractors..... \$938,910 83

2d. Engineer's Department expenses—
Salaries..... \$48,000 00
Incidentals..... 5,000 00
Rent, office and service grounds..... 8,500 00

3d. Commissioners' Office expenses—
Salaries..... \$8,190 00
Incidentals..... 2,500 00
Rent..... 3,000 00

To which is added vouchers to January 1, 1888..... 13,600 00

Making total estimated cost of the bridge..... \$2,678,650 22

From the above statement it appears that the estimated payments for construction will amount to	\$2,483,757 54
Deduct contract price	2,055,000 00
Apparent increase	\$428,757 54
From which deduct cost of foundation of Pier II	182,232 00
	\$246,525 54

Which is the estimated increase of cost by substitution of better classes of work and material for common, required by the alteration in design.

Very respectfully,

MALCOLM W. NIVEN, Secretary Harlem River Bridge Commission.

"B."

Estimated Quantities of the Several Classes of Work Required to Complete the Bridge According to Plan "A."

Granite in piers more than one foot below low water, cubic yards	1,500
Granite in piers, thence to the arch springline, cubic yards	1,550
Granite in piers, caps of rusticated work, cubic yards	490
Granite in piers, cornice course below springline, cubic yards	478
Granite in piers, bridge seats for metal arch ribs, cubic yards	600
Granite in piers, quoins above springline, cubic yards	1,135
Granite in piers, cornice and parapet on piers, cubic yards	530
Granite in cornice and parapet on abutments, cubic yards	605
Granite face voissiors of sixty feet arches, cubic yards	108
Granite or gneiss, interior sixty feet arches, cubic yards	1,416
Granite seats at piers, value \$500, for each refuge bay	6
Granite in stone posts for railing on embankments, per post	86
Gneiss in piers, facing on end and side of piers, cubic yards	8,335
Gneiss facing of abutments, cubic yards	5,524
Gneiss rubble, rear of the abutment and cross-walls, cubic yards	68,000
Blue-stone coping of buttresses in abutments, cubic yards	166
Pointing the whole face of the masonry, a gross sum of dollars	\$2,600
Concrete, interior of piers, cubic yards	17,500
Concrete under paving of approaches, cubic yards	858
Concrete under foundation of piers and abutments, cubic yards	6,972
Concrete in jack-arches on the abutments, and over buckle plates, cubic yards	2,585
Excavation of earth, dredging for Pier No. 2, cubic yards	3,500
Excavation of earth for foundation of piers and abutments, cubic yards	37,800
Excavation of earth for grading roadway beyond abutments, cubic yards	1,000
Excavation of rock for foundation of piers and abutments, cubic yards	14,250
Excavation of rock for grading roadway beyond abutments, cubic yards	7,000
Embankments for grading roadway beyond abutments, including wetting and rolling, cubic yards	3,500
Dry and slope wall on earth slopes, cubic yards	1,000
Selected gravel under roadway and pavements, including wetting and rolling, cubic yards	1,150
Vitrified drain pipes, including laying trenches and filling, viz :	
For pipes 6 inches diameter, per lineal foot	
For pipes 8 inches diameter, per lineal foot	
For pipes 12 inches diameter, per lineal foot	2,117
For pipes 18 inches diameter, per lineal foot	120
Cast-iron vertical drain pipes from roadway down to piers ; at each two taper pipes 9 to 6 inches, and remainder 6 inches diameter, viz :	
Lineal feet of tapers	84
Lineal feet of 6 inch pipe	1,225
Cast-iron gratings at each, per grate	16
Galvanized-iron for clamps, dowels and bolts, viz :	
In buttress coping, in jack-arches, in parapets and in railing-posts, including lead, pounds	10,000
Galvanized chain for railing on embankments, pounds	2,480
Blue-stone flags (for whole length), including the caulking of the joints, square feet	73,254
Curb-stone (for whole length), lineal feet	4,746
Gutter-stone (for whole length), lineal feet	4,746
Asphalt covering, about 70 feet width (for whole length), square yards	15,400
Granite pavement, including asphalt and fine gravel filling in joints, and the sand beneath, square yards	12,656
Gas-pipes of wrought-iron, 3 inches diameter, two lines (for whole length), lineal feet	4,746
Gas-lamps, 50 feet apart, on bridge and approaches, value \$60 each	70
Gas-lamps, clusters of 12, value \$300 each cluster	12

No estimate of foundations below 22 feet line shown on plan "A."

Price fixed in schedule embodied in Appendix "C," at \$45, if compressed air be used.

"C."

CONTRACT AND SPECIFICATIONS FOR THE CONSTRUCTION OF THE HARLEM RIVER BRIDGE.

Chapter 47, Law of 1885—July, 1886.

Jacob Lorillard, David James King, Vernon H. Brown, Commissioners.

CHAPTER 47.

AN ACT to provide for the construction of a bridge over the Harlem river in the City of New York.

Passed June 11, 1885 ; three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows :
Section 1. The Mayor, the Comptroller and the President of the Board of Aldermen of the City of New York are hereby authorized to appoint three competent persons Commissioners, to construct a suitable bridge for the passage of persons, animals, vehicles and traffic across the Harlem river in said city, at a point measured along the easterly water-line of said river, distant about fifteen hundred feet north of High Bridge, and where the land on both sides of said river for the approaches to a bridge has already been acquired by said city. Said Commissioners, when appointed, shall immediately proceed to construct said bridge.

Sec. 2. Said Commissioners shall hold office till such bridge is completed, which shall be within three years from the passage of this act. Said Commissioners shall not receive any salary or other compensation, but may provide all necessary materials and employ such persons as they may deem necessary for the work of constructing said bridge, and fix their compensation. In case a vacancy shall occur in the office of such Commission by death, resignation or otherwise, the officers mentioned in the first section shall appoint a person to fill such vacancy.

Sec. 3. Said bridge shall be constructed of stone, steel or iron, or of one or more of these materials ; shall in its width for passage be not less than eighty feet, and the grade thereof shall be at an elevation not less than one hundred and forty-five feet above mean high water-mark of said river. Said bridge shall always be free for the passage of persons, animals, vehicles and traffic, and when completed shall be kept and maintained in good order and repair by the Department of Public Works of said city.

Sec. 4. The Board of Estimate and Apportionment of the City of New York shall, on the requisition of said Commissioners, specify the amount needed in any calendar year for the work of constructing said bridge, raise such amount by taxation on the real and personal property liable to taxation in said city. The Comptroller of said city shall pay from such moneys upon vouchers certified by said Commissioners, in form to be approved by said Comptroller, the cost of the materials, labor and services required in the constructing of said bridge, and the necessary expenses connected therewith. The said Board of Estimate and Apportionment is hereby authorized to use any unexpended balance for any year prior to the year 1885, toward the payment of the cost of constructing said bridge, and also to provide the necessary moneys for the construction of said bridge, or any part thereof, by the issue of bonds of said city whenever said bonds can be issued without violating the provisions of the Constitution of this State ; and whenever such bonds cannot be so issued, then the moneys necessary for such construction shall be provided by taxation, as provided in the next preceding section.

Sec. 5. This act shall take effect immediately.

This agreement, made this 14th day of July, one thousand eight hundred and eighty-six, by and between Jacob Lorillard, Vernon H. Brown and David James King, as Commissioners appointed and acting under an act of the Legislature of the State of New York, entitled "An act to provide for the construction of a bridge over the Harlem river in the City of New York," being chapter 47 of the Laws of 1885, and hereinafter called the "Commissioners," parties of the first part, and the Passaic Rolling Mill Company, a corporation created and existing under the Laws of the State of New Jersey, and Miles Tierney, of Jersey City, in the State of New Jersey, hereby binding themselves jointly and severally and hereinafter called the "Contractors," parties of the second part, witnesseth, as follows :

First—The contractors, in consideration of the sum of two million and fifty-five thousand

dollars, to be paid in the manner hereinafter provided, shall and will furnish and provide all necessary materials and labor for the construction and completion of, and shall and will construct, finish and complete, ready for use and operation, the entire bridge to be erected over the Harlem river at One Hundred and Eighty-first street in the City of New York, pursuant to the provisions of the act of the Legislature of the State of New York entitled "An act to provide for the construction of a bridge over the Harlem river in the City of New York," being chapter 47 of the Laws of 1885. The said contractors shall furnish all of said materials and perform all of said labor, and fully construct, finish and complete said bridge in strict conformity to the preliminary plans and specifications hereto annexed, marked Schedule "A," and the strain sheet submitted by the contractors, and annexed hereto, marked Schedule "B," and in strict conformity to the working drawings to be made or approved by the Engineer of the Commissioners, as hereinafter provided, and fully complete and deliver the said bridge in all its parts ready for use and operation in a thorough, workmanlike and substantial manner, on or before the eleventh day of June, 1885, to the full satisfaction of the Commissioners.

Second—It is mutually understood and agreed that the Commissioners may at any time vary, alter, modify or amend the said preliminary plans and specifications, and in case by reason of any such change the quantity of any kind or class of work shall be increased beyond the amount thereof required by the said preliminary plans and specifications, then and in each such case the contractors shall receive payment for such increased quantity at the rates set forth in the schedule hereto annexed, marked "C," in addition to the said sum of \$2,055,000. And in case, by reason of any such change, the quantity of any kind or class of work shall be diminished from the amount thereof required by the said plans or specifications, then and in every such case, the said sum of \$2,055,000 shall be diminished, according to the rates set forth in said last-mentioned schedule. In case there shall be by reason of any such change an increase or decrease in quantity of any kind or class of work not specified in said Schedule "C," then there shall be added to or deducted from said sum of \$2,055,000, as the case may be, such sum as shall be certified by the Engineer as the cost of such increase or decrease in quantity. In every case the increase or decrease in quantity of any kind or class of work shall be conclusively fixed by the final estimate of the Engineer, to be certified to the Commissioners.

Third—The Commissioners agree to pay to the contractors the consideration hereinbefore expressed in the following manner: On or before the fifth day of each month the Engineer shall estimate the proportion which the work done and material furnished during the preceding month shall bear to the whole amount of work to be done and material to be furnished under this contract, and shall thereupon certify to the Commissioners that the work embraced within said estimate has been done in accordance with the specifications, and shall also certify the amount due to the contractors for such preceding month. The Commissioners shall thereupon audit the said statement and certificate, and if upon being satisfied of its correctness, and that the contractors have in all respects complied with this contract, then said Commissioners shall, on or before the 12th day of the month, pass and forward to the Comptroller of the City of New York, for payment, a proper voucher, in form to be approved by said Comptroller, in favor of the said contractors, for ninety per cent. of the amount which shall be shown by said certificate to be due to the contractors. The above-mentioned estimates and certificates of the Engineer shall be deemed approximate and provisional only, and any error in any of said estimates or certificates may be corrected by the Engineer in any subsequent estimate or certificate. In case any statement or certificate herein provided for shall, in the opinion of the Commissioners, be incorrect, or require alteration or explanation, then the same may be returned to the Engineer for such alteration, correction or explanation, and the time for auditing the same shall be extended until one week after a corrected or altered statement and certificate shall be received by the Commissioners.

Fourth—Detailed working drawings of the rental work shall be furnished by the contractors, embodying any changes or modifications of the preliminary plans and specifications hereto annexed which the Commissioners shall require. Such detailed drawings, when approved by the Engineer of the Commissioners, and any further drawings of masonry work made by the Engineer, shall constitute a part of this agreement, and the work shall be made to conform to the same. It is further agreed by the contractors that any change or alteration of the said plans or specifications shall not affect the price herein specified to be paid for said work, nor shall any claim for "extras," or increased or other compensation, be made by the contractors for or by reason or on account of any such change or modification, or any difference thereby occasioned in the nature, cost or expense of the work, except only as in the second article hereof expressly provided.

Fifth—And it is further understood and agreed that all work provided to be done under this agreement shall be of the best character, and shall be made complete and satisfactory before acceptance, and all material shall be fully inspected and tested by the Engineer or his deputies before going into said bridge ; but such inspection and tests shall not release the contractors from liability to make good any defects in such materials then or afterwards discovered ; and it is expressly understood and agreed that such inspection and tests shall be made at such times and in such manner as not to delay the progress of the work.

Sixth—And it is further understood and agreed that the Engineer shall at all times have easy and ample access to said bridge and all parts of the work, and to the materials in the possession of the contractors, and shall have assistance as he may require from the contractors in testing, examining, inspecting and supervising the work provided to be done by this agreement, and said Commissioners shall have the right to place such inspectors on said bridge and in the workshops, etc., as they may see fit, who shall be afforded by the contractors every facility for performing their duties.

Seventh—And it is further understood and agreed that, except as in this contract otherwise provided, no omission in this contract or in the specifications for said bridge, nor any failure or omission on the part of the Commissioners, or any of their officers or agents, nor any failure to inspect or examine, nor any exercise of the power or the right to inspect, examine or test, nor acceptance of any work or material expressed or implied, nor any allowance of the same in said bridge, shall be held to absolve said contractors from the responsibility and liability of completing and delivering said bridge as a whole, and of every part thereof, to the full satisfaction of the Commissioners and in accordance with the requirements of this agreement.

Eighth—It is further understood and agreed that the contractors shall have the right to sublet any part of the work to be performed under this contract, but only with the written consent of the Commissioners, but such subletting shall not release the contractors from any obligations imposed by law or the terms of this contract.

Ninth—And it is further understood and agreed that the contractors shall promptly pay the men, laborers and sub-contractors employed on said bridge, and also for the materials used therein, and in case any moneys due therefor in any month shall remain unpaid at the time of the making by the Engineer of the estimate of work done and materials furnished during the succeeding month, the Commissioners may pay the amount so due to said men, laborers or sub-contractors, or for such materials, and deduct the same from the amount of the voucher to be given to the contractors upon said estimate, or from any moneys due or to grow due to them under this agreement, and the receipts taken therefor shall be full discharges and acquittances in settlement with said contractors.

Tenth—It is further understood and agreed that if the work to be done under this agreement shall be abandoned by the contractors, or if this contract shall be assigned, whether by the act of the contractors or by the operation of law, or if the same, or any part of the work, shall be sublet without the written consent of the Commissioners, or if at any time the Engineer shall be of the opinion, and shall so certify in writing to the Commissioners that the said work or any part thereof is unnecessarily or unreasonably delayed by the contractors, or that they are willfully violating any of the provisions of this agreement, or of the specifications for said work, or fulfilling the said contract in bad faith, then the Commissioners, after giving ten days' notice in writing to the contractors, may notify the contractors to discontinue the work, or such part thereof as may be designated, and said Commissioners shall thereupon have power to make a contract or contracts with any person or persons for the completion of said work, or such designated part thereof, or to employ such and so many persons, and obtain by purchase or hire such animals, carts, wagons, implements or tools as said Engineer may determine to be necessary to complete the same, and to use such material as may be found at the work, and may procure other material for the completion of said work, and charge to the contractors the cost and expense of such labor, materials, animals, carts, wagons, implements and tools, and such cost and expense shall be deducted from any moneys due or to grow due to the contractors under this agreement, and in case such moneys shall not be sufficient to pay for the same, the contractors shall be liable for and shall pay the deficiency.

Eleventh—The work under this agreement is to be prosecuted at and from as many different points, at such times and in such part or parts of the work, and with such force as the said Commissioners by their Engineer, may from time to time determine, at each of which points an inspector may be placed to supervise the same.

Twelfth—The contractors shall and will clean off all surplus materials, sand, dirt and rubbish from said work and the right of way, and from the land mentioned in the Twenty-first Article hereof, within thirty days after the work shall have been completed ; and the work will not be accepted as completed until the same shall have been removed to the satisfaction of the Engineer. And upon the full completion of the work embraced in this agreement, the contractors will be required to file in the office of the said Commissioners a certificate, signed by the Engineer, to the effect that the stipulations relative to the removal of all surplus materials, sand, dirt and rubbish from the line of the work and the right of way and land above named have been faithfully complied with, and the final payment to the contractors shall not be made until after such certificate shall have been filed.

Thirteenth—All loss or damage arising out of the nature of the work to be done under this agreement, or from any unforeseen or unusual obstructions or difficulties which may be encountered in the prosecution of the same, or from the action of the elements, is to be sustained by the contractors aforesaid ; and in case any work shall be done in such manner as to require any consent, permit or license from municipal or other authorities, or from any other person or persons, corporation or corporations, the contractors shall procure the same at their own cost and expense.

Fourteenth—The contractors hereby covenant to and with the Commissioners that they have full right and authority to use any and all patented improvements and appliances which may be used in the construction of said bridge, and expressly agree to indemnify the Commissioners and the City

of New York, and save them and it harmless from any and all liabilities, damages, costs, charges and expenses which they or it may incur or suffer by reason of the use in the said bridge of any such patented articles, improvements or appliances, including all expenses or charges incurred by them or it in defending suits relating to the same.

Fifteenth—No work shall be done in laying or setting masonry, curb, or flagging when the weather is below freezing point, except on the written consent of the Engineer.

Sixteenth—And the said contractors further agree that the work shall be performed in the best manner, and the stone and iron and all other materials of which the work is composed shall be of such kind and quantity as shall be satisfactory to the Engineer, and that a sufficient number of persons shall be at all times employed to execute the work with due dispatch, the whole to be done to the satisfaction of said Commissioners; and any materials furnished or work done not satisfactory to the Commissioners, or their Engineer, shall be immediately removed and satisfactorily replaced by the contractors; or if they shall neglect or refuse to remove the same when notified so to do by the said Commissioners, then the said Commissioners may remove, or cause the same to be removed, and satisfactorily replaced, by contract or otherwise, and charge the expense thereof to the contractors; and the expense so charged shall be deducted and paid by the Commissioners out of such moneys as are or may become due under this agreement. And in case the same shall be insufficient for the purpose, the contractors shall be liable for, and shall pay, the deficiency.

Seventeenth—And the said contractors further agree that during the performance of the said work they will place proper guards upon and around the same for the prevention of accidents, and at night will put up and keep suitable and sufficient lights, and will take such other means as shall be required by the Engineer for the prevention of accident to persons or property, and that they will indemnify and save harmless the Commissioners and the City of New York against and from all suits and actions of every name and description brought against them or it, and all costs and damages, charges and expenses to which they or it may be put by reason or on account of any injury or damages to person or property caused by the contractors, their servants or agents, in the construction of the said work, or by or in consequence of any negligence in guarding the same, or of any improper materials used in its construction, or by or on account of any act or omission of the said contractors or their agents; and the said contractors hereby further agree that so much of the moneys due to them under and by virtue of this agreement as shall or may be considered necessary by the Commissioners, shall or may be retained by the said Commissioners until all such suits or claims for injuries or damages aforesaid shall have been settled, and evidence to that effect furnished to the satisfaction of the said Commissioners.

Eighteenth—It is further agreed that the return of the Engineer shall be the account by which the amount of materials furnished and work done shall be computed; and that the certificate of the inspectors appointed to inspect said work, that the same has been faithfully performed in accordance with the requirements of this contract, approved by the said Engineer and filed with the said Commissioners, shall be a condition precedent to the right of the said contractors to payment for work done by them under this agreement or any part thereof.

Nineteenth—It is further expressly understood and agreed by and between the parties hereto that the action of the Engineer by which the said contractors are to be bound and concluded, according to the terms of this contract, shall be that evidenced by his final certificate; all prior certificates upon which ninety per cent. payments may be made being merely estimates; and said final certificate may be made without notice to the contractors thereof, or of the measurements upon which the same is based.

Twentieth—And it is hereby expressly agreed and understood by and between the parties hereto that the said Commissioners, 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 any engineer, surveyor, inspector or other officer, agent or appointee of said Harlem River Bridge Commissioners, 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 furnished by the said contractors, or any other person or persons under this agreement.

Twenty-first—The Commissioners hereby covenant and agree to furnish to the contractors the free and uninterrupted use of the land shown on plan hereto attached, and marked Schedule "E," for the purpose of depositing any working material.

Twenty-second—The contractors hereby further agree that they will give their personal attention constantly to the faithful prosecution of the said work, and will keep the same under their own control; that they will not assign, by power of attorney or otherwise, any of the moneys payable under this agreement, unless by and with the consent of the said Commissioners in writing; that no right under this contract, nor to any moneys to become due hereunder, shall be asserted against the Mayor, Aldermen and Commonality of the City of New York, or against the said Commissioners by reason of any so-called assignment in law or equity of this contract, or any part thereof, and that no person other than the parties signing this agreement as the parties of the second part has now any claim hereunder. If at any time any overseer or workman who shall be employed by the contractors shall be declared by the Engineer to be unfaithful, disobedient or incompetent, the contractors, on receiving written notices, shall forthwith dismiss such person, and will not again employ him on any part of the work, except with the consent of said Engineer.

Twenty-third—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, or accepted by the Commissioners, 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 Commissioners or with the head of the Finance Department of the City of New York, any claim under the act entitled "An act to secure the payment of laborers, mechanics, merchants, traders, and persons furnishing materials towards the performing any public work in the cities of the State of New York," then and in every such case, the said Commissioners 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 and expenses 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 Commissioners until the lien created by the said act and the filing of the said notice shall be discharged pursuant to the provisions of the said act. And the said contractors hereby further agree that they will furnish said Commissioners 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 Commissioners, at any time within ten days after the completion of the work aforesaid, that any balance for such work or materials is still due and unpaid, have been fully paid or satisfactorily secured such balance.

Twenty-fourth—Upon the completion of the whole work, the Engineer shall examine the same, and in case he shall find that all the matters and things herein provided to be done by the contractors have been done to his satisfaction, he shall make a certificate of that fact and file the same with the Commissioners, and shall also certify to the Commissioners the amount remaining due to the contractors upon this contract. Said certificate shall be final and conclusive upon the contractors unless the same shall be returned by the Commissioners to the Engineer for correction, and upon the same being corrected accordingly, such corrected certificate shall be final and conclusive upon the contractors. Upon the completion of the whole work in accordance with the requirements of this contract, and to the satisfaction of the Commissioners, and upon acceptance thereof by the Commissioners, and upon the filing of the certificate last above mentioned, and the performance by the contractors of all acts and things by this contract required to be done by them, and upon the Commissioners being satisfied of the correctness of said certificate, the Commissioners shall pass and forward to the Comptroller of the City of New York, for payment, a proper voucher, or proper vouchers, in form to be approved by said Comptroller, in favor of the said contractors, for the amount shown by said certificate to be due to the said contractors.

Twenty-fifth—Whenever in this contract or in the specifications for said bridge, it is provided that anything is to be, or to be done, or as, or when or where "required" or "specified," it shall be taken to mean and intend "required" or "specified" (as the case may be) by the Engineer in charge of the work. Whenever the word "Engineer" is used in this contract or in said specifications, it refers to and designates the Engineer who may, by the said Commissioners, be appointed regularly, or for the time being to have charge of the construction of the work herein specified.

Twenty-sixth—Nothing herein contained shall subject the parties of the first part, or either of them, to any personal or individual liability.

In witness whereof, the parties of the first part and the said Myles Tierney have hereunto set their hands and seals, and the said Passaic Rolling Mill Company hath hereunto caused its corporate seal to be affixed, and these presents to be subscribed by its President, the day and year first above written.

JACOB LORILLARD, Commissioner. [SEAL]
DAVID JAMES KING, Commissioner. [SEAL]
VERNON H. BROWN, Commissioner. [SEAL]
MYLES TIERNEY. [SEAL]
PASSAIC ROLLING MILL CO. [SEAL]

State of New York, City and County of New York, ss.:

On this 14th day of July, in the year 1886, before me personally appeared Watts Cooke, the President of the Passaic Rolling Mill Company, with whom I am personally acquainted, who, being by me duly sworn, said: That he resided at Paterson, in the State of New Jersey; that he was President of the Passaic Rolling Mill Company; that he knew the corporate seal of said company, and that the seal affixed to the foregoing instrument was such corporate seal; that it was affixed by order of the Board of Directors of said company, and that he signed his name thereto by the like order as President of said company.

EDMUND L. BAYLIES, Notary Public (80), New York County.

State of New York, City and County of New York, ss.:

On this 14th day of July, in the year 1886, before me personally came Myles Tierney, to me

personally known, and known to me to be one of the individuals described in and who executed the foregoing instrument, and acknowledged to me that he executed the same.

EDMUND L. BAYLIES, Notary Public (80), New York County.

HARLEM RIVER BRIDGE—SPECIFICATIONS FOR ITS CONSTRUCTION.

GENERAL DESCRIPTION.

The bridge will consist of two arches of steel, each of 58 feet span in the clear; three piers, each 40 feet thick, at springing line of arches, with two abutments of masonry, the east abutment being about 342 feet long, the west abutment about 277 feet. Through each abutment will be a masonry arched passage of 60 feet clear span.

The contract will include such excavation, embankment, grading, paving, etc., as may be required for complete connections between the masonry abutments and Tenth avenue on the west side and Aqueduct avenue on the east side. These connections to be graded, paved, curbed and drained.

The total length of the bridge and its approaches will be about 2,373 feet. The clear width of the bridge 80 feet, 50 feet of which will be carriageway, and the remainder sidewalks of equal width.

The piers from the rock foundation to a level 1 foot below ground line or low water shall be formed of dressed stone facing with an interior of concrete. The facing to be of granite in heavy courses. From this level to the springing line of arches the general construction will be the same, but the facing will be of granite of approved color and texture, with rusticated joints.

Above the springing line the piers will be faced with coursed ashlar of gneiss, rock faced, with quoins of dressed granite. Courses may change their height occasionally on the long faces of the piers.

Abutments will be faced with random coursed work of gneiss, or other approved stone, rock faced.

All backing and cross walls of rubble. Ring stones () of arched openings will be of cut granite, the rest of the arch of dressed gneiss; cornices, balustrades, etc., of granite.

The roadway between Tenth avenue and the west abutments and Aqueduct street and the east abutment will be 80 feet wide, as on the bridge. Excavations for the roadway will be made 2½ to 3 feet below grade, surface, earth or rock.

Slopes of the roadway excavations and embankments which would extend outside the City's land 100 feet in width, must be supported by dry retaining-walls of rock from the excavations. Slopes of embankments will be protected by slope walls 1 foot thick.

The work will conform to the drawings exhibited and to such others, in explanation of details, or to conform to such new conditions as may arise, as may be furnished from time to time.

The contract will include preparation of the site, excavation, embankment, masonry, iron and steel work, and the entire construction and completion of the work according to the plans and specifications, together with the removal of all rubbish and surplus material.

Excavations will include all material removed for foundations, for grading the ground adjacent to the bridge, etc. Rock in place which requires blasting, and boulders of more than 10 cubic feet, shall be classified as "rock"; all other material as "earth." But all excavation for the middle pier (No. 2) is to be classified as dredging, the price for which is applicable only to the net lines of the coffer-dam required, and to the depth shown on the exhibited plans as depth of foundation of Pier No. 2. Excavations will be made to such slopes as may be directed by the Engineer, and be neatly finished.

Embankments will be formed of selected earth carted in layers of 1 foot in thickness, each layer to be kept as nearly horizontal as may be, wetted and rolled with a heavy grooved roller—such rock as it may be necessary to use will be placed in the outer slopes, or if any is permitted under the roadway it shall not be larger than 16 inches in any dimension. It shall be placed compactly and all spaces and interstices filled with small stones, gravel and earth. The upper three feet will be made with fine gravel and clay wetted and rolled to be water-tight.

FOUNDATIONS.

The piers will be founded upon the solid rock, and such means as the Engineer shall direct shall be used to lay the rock bare and visible. The western abutment will also rest upon the rock, which, on the west side of the valley, will be found at or near the surface. On a portion of the eastern side the rock lies at a considerable depth, and the foundations of the abutment at such points will be on earth at such depth as the Engineer may direct.

All rock which, in the opinion of the Engineer, is too soft or too much decayed to give a suitable support, shall be removed to such depth as may be necessary.

The surface of the rock shall be leveled off or cut down to such planes as the Engineer may direct, and all hollows and fissures will be filled with mortar or concrete, as directed.

If, in the opinion of the Engineer, the solidity of the foundation will be injured by blasting, the rock must be removed by other means.

Where the facing stones of the piers rest upon the rock, proper beds will be prepared for them by dressing the rock.

The face stone in foundation of abutment walls will also be fitted to the rock in such manner as the Engineer may direct; for rubble or concrete backing, it will be sufficient that the rock is approximately level.

Granite will be sound, strong and durable, to be approved by the Engineer; all above the surface will be of uniform and approved color and texture, in courses two and three feet high; the highest courses in bottom of wall. Each stone shall have at least as much bed as rise.

It will be cut to fair plane parallel beds to lay half-inch joints, with clean, sharp arrises; joints to be full for twelve inches back from the face.

Below the surface of ground and water—i. e., from one foot below the graded surface of the ground, or extreme low water—the face shall be pitched off to the lines of the beds and joints, to the true batter.

From surface to springing line the lower bed and the vertical joints shall be cut straight and true to the rock face of the stone; the upper bed shall have a horizontal draft four inches wide sunk two inches from the general face of the stone, conforming to the batter of the wall, and a flat draft, corresponding to the same on each angle of the pier.

The quoins will be rock faced, arranged to show alternately three and six feet on the front and side of pier, with a flat draft two inches wide around each face of each stone, and two inches back from its general rock face.

All cornices and parapet to be cut to true surfaces with true, clean arrises; to conform to drawings.

On coping of parapet, and all faces of same next the roadway to be six-cut work, outside wall to be plain axed.

Rails or coping and posts of parapet to be secured with such dowels or clamps as may be directed.

Face voussours of sixty feet arches—average depth three feet—will be cut to close plane beds and joints extending through the stone; to be fine cut (axed) on the soffit, rock faced on the heads, with three inch draft on each radial joint, and on each exposed arris. Interior arch stones may be of granite or gneiss, with fine cut beds and joints; face on soffit to be axed. The joints to be at right angles to the beds.

Bridge seats to conform to drawings of large selected dimension blocks of granite, close dressed upon all sides, six-cut work on top where arches rest. To be well bedded and bonded, and secured with clamps and holding down bolts.

Coursed ashlar will be of the best quality, sound, durable New York or Westchester gneiss, or equally acceptable stone in twelve to eighteen-inch courses dressed to plane, parallel beds with vertical joints six inches back from the face, to lay one-half inch joints pitched to line with not more than three inches rock on the face. Beds to average two and one-half feet wide, if required.

Broken range ashlar same as above, but courses may vary by chocking, or by the occasional use of levels, no leveler to be less than four inches high. Joints may be three-quarter inch thick, but stones which range together must be of the same height, and beds must be truly horizontal.

Random coursed work for facing abutments will be of the same or other approved stone with horizontal beds; end joints need not be vertical, but as nearly so as the stone will break; no sharp thin points allowed; all stones to have good beds whether natural or made so with the hammer or other tool, to lay three-quarter inch joints.

Rough rubble will be of hard, sound, clean, well-shaped stone, hammered if need be to good fair beds so that they will lie solid. All to be well bonded.

Dry retaining walls of such thickness as the Engineer may direct will be laid up of the best stone taken from excavation, laid to a fair face, and bonded as well as the character of the stone will permit.

Slope walls of same stone will be laid by hand on the slopes of banks to line, well fitted.

Cement will be equal to the best Rosendale brands, to be fresh and ground so fine that ninety-five per cent. will pass through a sieve of 2,500 meshes to the square inch. To be subject to continual inspection and test, and the approval of the Engineer. Portland cement of approved quality shall be used when required by the Engineer, and will be paid for at cost less the cost of the same quantity of Rosendale cement.

Sand will be sharp, silicious, clean and not too fine, screened when required by the Engineer.

Mortar will generally be composed of one part of cement and two parts by measure of sand, thoroughly mixed without excess of water on a bed of plank protected from the sun and rain, and used before it has begun to set. It cannot be used as grout or on the second set.

Concrete will be composed of one part by measure of cement, two parts of sand, and five parts of sound, hard, durable stone broken to pass through a ring two and one-half inches in diameter, the stone to be clean and free from dust. The whole to be thoroughly mixed without excess of water by machinery where practicable, put in place and compacted by ramming, before it has begun to set.

Two parts of the broken stone may be replaced with approved gravel of proper size and character; when required it shall be made of Portland cement, with two parts of sand and five of broken stone as above.

LAYING MASONRY.

All stone shall be laid upon its natural bed. For granite facing of piers, no stretcher shall have less length than 2½ times its rise; every fourth stone shall be a header, with 3 feet breadth of bed and 4 to 5 feet long; joints shall be broken at least a foot.

For coursed and broken range ashlar, the bond will be 8 inches, one header in every 10 feet of course, to be at least 4 feet long, be well bonded to the rough rubble backing.

All stone to be well and solidly laid to the proper lines in full beds of mortar and settled in place with a wooden maul. The stones to be clean and moistened at the time of setting. Joints of face stone will be filled with the trowel or other tool.

Rubble stone also will be laid perfectly solid in full beds of mortar, and all joints well filled with the same. All spaces shall be filled with mortar, and spalls and selected pieces of stone driven in until the whole is full. Every stone shall have at least one good flat bed. It will be laid upon its best bed and a proper bed prepared upon it for the stone above.

The cross-walls of rubble masonry and the rear of all walls backed with rubble will be neatly laid to line, with full, clean joints.

The walls must be solid, free from holes or voids.

Face work will be pointed and jointed as the work progresses, with the same mortar with which the work is laid, pressed in and burnished with a proper tool. The whole to be left fair and clean when the work is finished.

Suitable machinery must be used for handling large stones, and every stone the bond of which is broken must be taken up and reset.

All stone for the same class of face work shall be as nearly as practicable of the same quality and color, that the appearance of the finished work may be uniform.

The cross and transverse walls will carry longitudinal beams of iron or steel properly connected by tie rods. Upon these will be built arches of rubble or concrete of such dimensions as may be prescribed. All metal to be well bedded in concrete or masonry and protected from the elements.

The face of the masonry shall be left clean and free from stains and spots; all masonry broken or injured shall be replaced by the contractor at his own cost. If by direction of the Engineer the face should not be pointed as the work progresses, as hereinbefore provided, then, after completion, all joints shall be raked out to the proper depth and pointed with dark mortar made with finely ground Portland cement, driven in with a caulking tool.

On the abutments the sidewalks shall be of blue-stone flags, not less than three inches thick, planed on the top surface and front edge. The joints are to be caulked.

The flags shall extend the full width of sidewalk in not more than three lengths, breaking joints; to be from five to seven feet wide, and have an inclination of three inches towards the roadway. They shall be laid in cement mortar. The curb and gutter stone shall be of blue stone, with its exposed surfaces axed, to be laid in cement mortar. At distances of about 150 feet in length of the bridge there shall be drain openings on each side, nine inches diameter, from which drain-pipes of cast-iron shall extend so as to deliver the water clear of the bridge. The openings shall be covered with suitable iron gratings. All of the above are to be furnished and placed by the contractor for masonry.

Upon the buckle plates or jack-arches will be laid concrete to the depth of two inches, in which the stone shall be broken to not exceed three-quarters of an inch in diameter, and above this additional concrete as before described crowning to six inches at the centre, and over the latter a layer of one inch of Trinidad asphalt and sand, and so laid as to render it water tight.

Upon the asphalt covering shall be laid two inches of clean, coarse, sharp sand, upon which shall rest the granite paving, which shall consist of blocks of six inches deep, eight to twelve inches long, set three to four inches wide, separated by joints of one-half inch, which shall be filled with hot coal tar and asphalt, into which double-screened, clean gravel shall be rammed. The paving stone shall be so selected and laid as to place those of nearly the same size contiguous.

There shall be gas-lamps, of an approved pattern and of a value of at least \$60 each, at about fifty feet apart on each side of the bridge; also clusters on the two outer corners of each pier, of a value of not less than \$500 each, with the necessary pipes leading thereto, which shall be thoroughly tested by hydraulic pressure before acceptance.

There shall be one cut stone seats in each refuge bay over the three piers, of a value of not less than \$500 for each bay.

Passageways in the walls shall be made where directed. The general plans of the masonry, as shown on Sheets Nos. 2, 3, 4 and 5, are not intended for working plans, but solely to enable the bidders to determine the quantities, and, in connection with the specifications, the general character of the work. Modifications must be made in these plans to adapt the bridge seats to the plan of the arches, and to comply with the specifications in regard to the foundations.

From the ends of the abutments to Aqueduct street on the east, and Tenth avenue on the west, the roadway will be of granite blocks, sand, asphalt and concrete, as on the bridge proper. The concrete will be 9 inches deep, crowning 6 inches, and rest upon a bed of fine gravel of 12 inches depth, wet and rolled with a 20-ton roller. The crowning of the roadway will be made on the earth embankment or excavation.

The sidewalks shall each be 15 feet wide, of blue-stone flags and concrete, as on the bridge proper. The concrete shall be of the same depth as under the roadway. The curbs will be of blue stone, 6 feet long, 8 inches wide, and 20 inches deep, fine dressed on all exposed surfaces and end joints, and rough dressed elsewhere. The gutters also of blue stone, 12 inches wide, 10 inches deep, and 6 feet long, dressed on top, side and end joints; their surface will be placed 1 inch below the level of the pavement, and the latter beveled off to meet it.

The drains will be of vitrified clay pipe, 12 to 18 inches diameter under each gutter, at about 5 feet below ground, with manholes 3 feet square, provided with the usual cast-iron covers, gratings and ladders, and silt basins below. On the embankments, at the ends of the abutments, will be placed granite posts, 6 feet apart, each 8 feet long, set 4 feet above and 4 feet below the surface, the upper half to be fine dressed, 6 inches square at top, and 8 inches square at the surface of the ground. There will be two chains of ½-inch galvanized iron attached to bolts passing through the post and leaded to it.

Vitrified pipe of 12 inches diameter, placed at 5 feet below grade, under each gutter, with manholes, silt basins, cast-iron covers, gratings and ladders.

At the west end of the abutment the pipe from the south side will be extended across and connect with that on the north side, and then will descend vertically, by a well on the rear of the abutment, to its bottom, and pass through it to the interior, where it will connect with the drain-pipe within the abutment.

The drain-pipe within the abutment will follow the rear face of the north abutment wall and be carried through or under all of the cross walls to the rear of Pier No. 1, and thence either through or around the north end of the pier, and thence to the river. This pipe will be 12 inches diameter, and placed at such depth as will drain all of the space under the abutments.

In each of the spaces between the cross walls will be dug in the rock a trench descending from the south to the north side, and discharging into the main 12-inch drain-pipe.

The vertical cast-iron pipes from the roadway of the bridge will descend to and discharge in these cross drains.

The spaces within the abutment (east and west) will be leveled off to smooth surfaces as may be directed.

Such of the materials excavated (rock, sand, etc.) as the Engineer shall consider suitable for any portion of the work, may be used by the contractor without charge therefor.

All excavation, except the above, shall be deposited at such places within one-half mile haul as the Engineer shall indicate.

THE HARLEM RIVER BRIDGE—SPECIFICATIONS FOR THE STEEL AND IRON WORK.

GENERAL DESCRIPTION.

The work comprised under these specifications will consist of two main arch spans with their bracing, supporting columns, floor-beams, stringers and buckle plates; also the floor-beams over the piers and abutments; also the hand-railing and cornice work over the main spans.

MAIN SPANS.

The main spans will be arches, having a clear opening of 508 feet, with a rise of 90 feet, and a depth of arch rib of 13 feet, as per the general plan (Sheet No. 2). Each span will have six arch ribs, spaced 14 feet, centre to centre. Each rib will be formed of a plate web, properly stiffened, and of flanges of plates and angles. All parts of the ribs shall be of mild steel. The ribs must be united together by a system of wind-bracing on the line of each flange, and by a system of sway-bracing between all the ribs at every panel point.

The lateral and sway systems may be either of iron or steel.

The vertical columns supporting the cross floor-beams shall be formed of shaped-iron, latticed. These columns must be stiffened, transversely of the bridge, by a proper system of sway-bracing, and shall be rigidly connected to the arch ribs and the cross floor-beams.

The arch ribs may, at the option of the designer, be pivoted or fixed at the ends. For pivoted ends the bearing pressure upon the pivot shall not exceed 5,000 pounds per square inch of effective bearing surface. The bearing surfaces must be of steel. For fixed ends the anchorage must have a resistance equal at least to three times the overturning forces.

The floor shall be formed of cross floor-beams at intervals of about 15 feet, and longitudinal floor-beams resting upon and securely fastened to the cross floor-beams with a floor surface formed of buckle plates.

The cross floor-beams will be riveted girders formed of angles and plates of iron or mild steel. The longitudinal beams will be rolled beams of steel or iron, and will be spaced at the proper

distances apart to receive the buckle plates. The buckle plates will be of steel or iron, about 3 feet square, at least ¾ inch thick, and crowning 2 inches at the centre. They must be firmly and closely riveted to the longitudinal beams and to each other. The floor-beams on the abutments and piers will be rolled beams of steel or iron.

All parts must be readily accessible for inspection, cleaning and painting. No close sections will be accepted.

LOADS.

The floor and its supports shall be proportioned to carry a dead load of 225 pounds per square foot of bridge floor, inclusive of its own weight and either of the following live loads: (a) A distributed live load of 100 pounds per square foot of bridge floor; or (b) a twenty-ton road roller of the ordinary dimensions placed in any position on the roadway. The floor beams on the abutments and piers shall be proportioned for the above load, and, in addition, the weight of the jack arches. The arches of the main spans shall be proportioned to carry their own weight, assumed at 15,000 pounds per lineal foot of arch, an assumed weight of floor and paving equal to 18,000 pounds lineal foot of bridge, a live load assumed at 8,000 pounds per lineal foot of bridge, and a wind pressure of 1,200 pounds per lineal foot of bridge distributed in proportion to the exposed surfaces.

A range of temperature of 75 degrees Fahrenheit, above and below the mean, shall be considered in proportioning all parts of the structure.

The modulus of elasticity for iron and steel to be assumed at 26,000,000 pounds.

ALLOWED UNIT STRAINS.

The maximum strains produced by any combination of the above loads shall not exceed the following:

Tension or compression in the flanges of the arch ribs, per square inch of gross section	15,000 pounds.
Tension in same, per net section	18,000 "
Tension in flanges of cross floor-beams, per square inch of net section for iron	10,000 "
Same for mild steel	12,000 "
Tension of compression, extreme fibre of longitudinal beams, for iron	12,000 "
Same for steel	15,000 "
Tension, lateral and sway rods, iron	15,000 "
Tension, lateral and sway rods, steel	20,000 "

Compression of flanges of cross floor-beams to have same gross section as the tension of flanges. The vertical columns shall be proportioned by the following formula:

$$P = \frac{10,000}{L^2} + \frac{1}{30,000 R^2}$$

P = allowed compression per square inch of cross section.

L = length in inches.

R = least radius of gyration in inches.

No compression member, however, shall have an unstayed length exceeding 45 times its least width. The lateral struts shall be proportioned by the above formula to resist the resultant due to an assumed strain of 10,000 pounds per square inch upon all rods attached to these struts.

The rivets connecting the parts of any member must be so spaced that the shearing strain per square inch shall not exceed 7,500 pounds for iron, nor 9,000 pounds for steel; nor the pressure on the bearing surface of the rivets, per square inch, exceed 12,000 pounds for iron or 15,000 pounds for steel.

Plate girders shall be proportioned upon the supposition that the bending or cord strains are resisted entirely by the web plate. No part of the web plate shall be estimated as flange area. The web plates shall not be subjected to a shearing strain per square inch greater than 4,000 pounds for iron or 5,000 pounds for steel. No web plate shall, however, be less than ¾ inch thick.

Similarly, the web of the arch ribs shall be considered as resisting shearing strains only.

All web plates must be properly stiffened, and must be spliced at all joints by a plate or two angles on each side.

The flange plates of the arch ribs must be limited in width so as not to extend beyond the outer line of rivets connecting them to the angles more than 5 inches or more than 8 times the thickness of the first plate. Where two or more plates are used on the flanges, they shall either be of equal thickness, or shall decrease in thickness outwardly from the angles.

The pitch of rivets in all classes of work shall never exceed 6 inches, or 16 times the thinnest outside plate, nor be less than 3 diameters of the rivet.

The distance between the edge of any piece and the centre of a rivet-hole must never be less than 1¼ inches, except for bars less than 2½ inches wide. Where practicable it shall be at least 2 diameters of the rivet.

The rivets used shall generally be ¾ inch or more in diameter.

All rivet-holes must be so accurately spaced that when the several parts forming one piece are assembled together, a rivet ⅛ inch less in diameter than the hole can be entered, hot, into any hole.

The rivets when driven must completely fill the holes. The heads must be round and of a uniform size for the same sized rivets throughout the work; they must be full and neatly made and be concentric to the rivet-hole and thoroughly pinch the connected pieces together. Wherever possible all rivets must be machine driven, both during the shop manufacture and the erection.

The several pieces forming one built member must fit closely together, and, when riveted, shall be free from twists, bends or open joints.

All joints in riveted work, whether in tension or compression, must be properly spliced. All abutting ends shall be planned to careful fits.

All the details and connections of the several parts of the structure shall be of such strength that rupture would occur in the body of the members rather than in any of their details or connections.

No steel or iron of a less thickness than ¾ inch shall be used in any part of the structure.

No tension rod shall have a less sectional area than 1¼ square inches.

The sheared edges of all the steel shall be planed off to a depth of ¼ inch.

All punched holes shall be clean cuts without torn or ragged edges.

All punched holes in steel must be reamed to a diameter ⅛ inch larger so as to remove all the sheared surface of the metal.

All bed plates must be of such dimensions that the greatest pressure upon the masonry shall not exceed 800 pounds per square inch. The bed plates must be firmly anchored to the masonry of the piers and abutments.

The workmanship of all parts of the work shall be first class in every particular, not only as regards the effective working of all parts of the structure as to maximum strength, but to secure in all respects neatness of appearance and finish to all detailed parts.

Wherever the floor girders of the main arches are supported on the masonry, suitable bearings of cast or wrought iron shall be secured to the masonry to carry the same.

Provision must be made at the junction of the pavements on the abutments, piers and main spans to allow for the movements from expansion.

The contractor shall furnish promptly all bolts and anchors, which must be inserted in the piers and abutments during the construction of the same. He will also furnish all necessary drawings, showing the proper location of each bolt and anchor, for the use of the masonry contractor.

The cornice and parapet over the arches shall be made of cast-iron, as shown on Sheet No. 6, and shall not weigh less than 100 pounds per lineal foot.

These castings must be clean and sharp on the edges, and perfectly straight and out of wind. They must be free from blow-holes and surface defects, and shall be equal to the best class of architectural iron-work.

QUALITY OF MATERIAL.

IRON.—All wrought-iron must be tough, fibrous and uniform in character. It shall have a limit of elasticity of not less than 26,000 pounds per square inch.

Finished bars must be thoroughly welded during the rolling, and be free from injurious seams, blisters, buckles, cinder spots or imperfect edges.

For all tension members the bars shall stand the following tests:

Full-sized pieces of flat, round or square iron, not over 4½ inches in sectional area, shall have an ultimate strength of 48,000 pounds per square inch, and stretch 12½ per cent. in their whole length.

Bars of a larger sectional area than 4½ square inches, when tested in the usual way, will be allowed a reduction of 1,000 pounds per square inch for each additional square inch of section, down to a minimum of 46,000 pounds per square inch.

When tested in specimens of uniform sectional area of at least ½ square inch for a distance of 10 inches, taken from the tension members, which have been rolled to a section not more than 4½ square inches, the iron shall show an ultimate strength of 50,000 pounds per square inch, and stretch 18 per cent. in a distance of 8 inches.

Specimens taken from bars of a larger cross section than 4½ inches will be allowed a reduction of 500 pounds for each additional square inch of section, down to a minimum of 48,000 pounds.

The same sized specimens taken from angle and other shaped iron shall have an ultimate strength of 48,000 pounds per square inch, and elongate 15 per cent. in 8 inches.

The same sized specimens taken from plates less than 24 inches in width shall have an ultimate strength of 48,000 pounds, and elongate 15 per cent. in 8 inches (2).

The same sized specimens taken from plates exceeding 24 inches in width shall have an ultimate strength of 46,000 pounds, and elongate 10 per cent.

All iron for tension members must be capable of being bent cold, for about 90 degrees, to a curve whose diameter is not over twice the thickness of the piece, without cracking. At least one

sample in three must bend 180 degrees to this curve without cracking. When nicked on one side, and bent by a blow from a sledge, the fracture must be nearly all fibrous, showing few crystalline specks.

Specimens from angle, plate (a) and shaped iron must stand bending cold through 90 degrees, and to a curve, whose diameter is not over three times its thickness, without cracking. When nicked and bent its fractures must be mostly fibrous.

Iron rivets shall be made from the best double refined iron.

STEEL.—The steel shall be uniform in character for each specified kind. The finished bars, plates and shapes must be free from cracks on the faces or corners, and have clean, smooth surfaces. All steel for the arch ribs, girders and tension rods, shall have an ultimate strength of 62,000 to 70,000 pounds per square inch, with an elastic limit not less than 32,000 pounds per square inch, and a minimum elongation of 18 per cent. when measured on an original length of 8 inches.

All steel for rivets shall have an ultimate strength per square inch of 56,000 to 64,000 pounds, with a minimum elongation of 25 per cent.

Tests shall be made by samples cut from the finished material after rolling. The samples to be at least 12 inches long and to have a uniform sectional area not less than $\frac{1}{2}$ square inch. All the samples must show uniform fine grained fractures of a blue steel-gray color, entirely free from fiery lustre or a blackish cast.

Samples cut from finished material for the arch ribs, girders or tension members, tested before or after heating to a low cherry red, and cooled in water at 82° Fahr. must stand bending to a curve whose inner radius is one and a half times the thickness of the sample, without cracking. Samples of rivet steel, before and after being heated to a light yellow heat and quenched in cold water, must stand closing solidly together without sign of fracture. To check the uniformity of the material, the manufacturers of the ingots shall cause to be made from each cast sample bars of $\frac{3}{4}$ inch round, with a definite and uniform reduction equivalent to reducing a 4-inch ingot to the sample size. They shall mark the same in a manner to identify the final product.

The usual chemical tests shall be furnished in connection with these samples.

No work must be put upon any steel at or near the blue temperature, or between that of boiling water and the ignition of hard-wood sawdust.

Any steel straightened or worked cold by use of the hammer or gag press must be afterwards wholly annealed.

The contractor must furnish the use of a testing machine, capable of testing the above samples, at all mills where the iron or steel may be manufactured, free of cost.

All facilities for inspection of the material and workmanship shall be furnished by the contractor. He shall furnish the above samples, prepared, of both the steel and iron, without charge.

PAINTING.

All the steel and iron work, except the buckle plates, shall receive a thorough coating of pure linseed oil as soon as practicable after its manufacture, and an additional coat of paint before erection.

The paint shall be made of strictly pure linseed oil and finely ground red lead.

The paint must be well worked into all joints and open spaces.

Before painting, all the iron and steel work shall be thoroughly cleansed from rust or loose scale.

In riveted work, all surfaces coming in contact shall each be painted before being riveted together.

The buckle plates shall be treated by immersion, hot, in a bath of the usual preparation of coal-tar and asphaltum, now customary for cast-iron water-pipe.

After erection, all exposed surfaces of the steel and iron work shall receive two full coats of white lead and linseed oil paint of six selected tints and shades.

ERECTION.

The contractor shall so conduct his operations during erection as not to obstruct the river passage, or any public street, without due authority; nor to interfere unnecessarily with the work of the other contractors.

He shall assume all risks of accidents to men and material prior to the final acceptance of the completed structure by the Commission.

At the completion of his work he must remove all false works, piling, and other obstructions or unsightly material produced by his operations.

GENERAL CLAUSES.

All working drawings required by the Commission must be furnished free of cost.

No work shall be commenced or materials ordered until the working drawings are approved in writing by the Engineer of the Commission.

The iron hand-railing, cornice and ornamental iron work will be in accordance with the general plans.

The Commission reserve the selection of the hand-railing and ornamental work, providing its actual cost in place to the contractor, plus ten per cent. profit, does not exceed the price of eighteen dollars per running foot for the iron hand-railing, and a fixed price of thirty-six dollars per lineal foot of span for the cornice and ornamental iron work, exclusive of hand-railing, but inclusive of all brackets and attachments.

SCHEDULE "C."

PRICES TO GOVERN INCREASE OR DIMINUTION OF WORK.

Granite in piers more than one foot below low water, cubic yard.....	\$25 00
Granite in piers, thence to the arch springline, cubic yard.....	28 00
Granite in piers, caps of rusticated work, cubic yard.....	36 00
Granite in piers, cornice courses below springline, cubic yard.....	40 00
Granite in piers, bridge seats for metal arch ribs, cubic yard.....	44 00
Granite in piers, quoins above springline, cubic yard.....	33 00
Granite in piers, cornice and parapet on piers, cubic yard.....	53 00
Granite in cornice and parapet on abutments, cubic yard.....	50 00
Granite face voissins of 60-feet arches, cubic yard.....	37 00
Granite or gneiss, interior 60-feet arches, cubic yard.....	33 00
Granite seats at piers, value \$500, for each refuge bay, cubic yard.....	500 00
Granite in stone posts for railing on embankments, per post.....	16 00
Gneiss in piers, facing on end and side of piers, cubic yard.....	15 00
Gneiss facing of abutments, cubic yard.....	11 00
Gneiss rubble, rear of the above and cross-walls, cubic yard.....	5 50
Blue-stone coping of buttress in abutments, cubic yard.....	45 00
Pointing the whole face of the masonry, a gross sum of dollars.....	2,600 00
Concrete, interior of piers, cubic yard.....	5 50
Concrete under paving of approaches, cubic yard.....	5 50
Concrete under foundation of piers and abutment, cubic yard.....	5 50
Concrete in jack-arches on the abutments and over buckle plates, cubic yard.....	5 00
Excavation of earth—Dredging for Pier No. 2, cubic yard.....	4 00
Excavation of earth for foundation of piers and abutments—For piers, cubic yard.....	3 00
Excavation of earth for foundation of piers and abutments—For abutments, cubic yard.....	60 00
Excavation of earth for grading roadway beyond abutments, cubic yard.....	50 00
Excavation of rock for foundation of piers and abutments, cubic yard.....	2 00
Excavation of rock for grading roadway beyond abutments, cubic yard.....	1 00
Embankments for grading roadway beyond abutments, including wetting and rolling, cubic yard.....	40 00
Dry and slope wall on earth slopes, cubic yard.....	2 00
Selected gravel under roadway and pavements, including wetting and rolling, cubic yard.....	1 30
Vitrified drain-pipes, including laying trenches and filling, viz:	
For pipes 6 inches diameter, per lineal foot.....	1 50
For pipes 8 inches diameter, per lineal foot.....	1 50
For pipes 12 inches diameter, per lineal foot.....	2 75
For pipes 18 inches diameter, per lineal foot.....	2 75
Cast-iron vertical drain-pipes from roadway down to piers, at each 2 taper pipes, 9 to 6 inches, and remainder 6 inches diameter, viz:	
Lineal foot of tapers.....	1 25
Lineal foot of 6-inch pipe.....	80 00
Cast-iron gratings at each, per grating.....	5 00
Galvanized iron for clamps, dowels and bolts, viz:	
In buttress coping, in jack-arches, in parapets and in railing posts, including lead, per pound.....	10 00
Galvanized chain for railing on embankments, per pound.....	10 00
Blue-stone flags (for whole length), including the caulking of the joints, square foot.....	50 00
Curb-stone (for whole length), lineal foot.....	1 00
Gutter stone (for whole length), lineal foot.....	80 00
Asphalt, covering about 79 feet width (for whole length), square yards.....	1 30
Granite pavement, including asphalt and fine gravel in joints, and the sand beneath, per square yard.....	3 00
Gas-pipes of wrought-iron, 3 inches diameter, two lines (for whole length), per lineal foot.....	60 00
Gas-lamps, 50 feet apart, on bridge and approaches, value \$60 each.....	60 00
Gas-lamps, clusters of 12, value \$300 each cluster.....	300 00
Foundations of Pier 3 below line shown on Plan 1, per cubic yard of masonry.....	25 00

For foundations of Pier 2, if compressed air is used, per cubic yard of displacement, timber and masonry, below said line.....	\$45 00
For foundations of Pier 2, if any process other than compressed air is used, cost as certified to by the Engineer, with 10 per cent. added.....	10 00
For any decrease in foundations above said line per yard to be deducted.....	

"D."

Commissioners' Office Expenses.

BILLS.

December, 1885—			
Voucher No.	8. T. G. Sellow, furniture.....	\$300 50	
"	9. American Writing Machine Co., type-writer.....	85 00	
"	11. W. & J. Sloane, carpets.....	106 35	
"	13. DeGraaf & Taylor, furniture.....	109 50	
January, 1886—			
Voucher No.	4. J. C. Rankin, Jr., printing.....	38 00	
"	5. New York Cotton Exchange, office rent.....	506 00	
"	7. Searing & Hyde.....	290 35	
"	10. Frank Kiernan & Co., advertising.....	267 65	
"	12. Marvin Safe Co., rent of safe.....	80 00	
February, 1886—			
Voucher No.	17. New York Cotton Exchange, office rent.....	500 00	
"	21. M. W. Niven, petty cash.....	16 12	
March, 1886—			
Voucher No.	26. M. W. Niven, petty cash.....	45 11	
April, 1886—	None.		
May, 1886—			
Voucher No.	32. New York Cotton Exchange, office rent.....	500 00	
"	33. Searing & Hyde, stationery.....	46 30	
"	37. M. W. Niven, petty cash.....	6 75	
June, 1886—			
Voucher No.	38. M. W. Niven, petty cash.....	54 25	
July, 1886—			
Voucher No.	44. M. W. Niven, petty cash.....	10 57	
"	43. New York Cotton Exchange, office rent.....	500 00	
August, 1886—			
Voucher No.	49. M. W. Niven, petty cash.....	53 68	
"	53. M. W. Niven, petty cash.....	39 39	
"	56. Searing & Hyde, stationery.....	39 96	
September, 1886—			
Voucher No.	60. M. W. Niven, petty cash.....	72 72	
"	61. Searing & Hyde, stationery.....	9 48	
"	64. J. C. Rankin, Jr., printing.....	15 50	
October, 1886—			
Voucher No.	76. New York Cotton Exchange, office rent.....	500 00	
November, 1886—			
Voucher No.	80. Carter & Ledyard, counsel fees.....	4,025 17	
"	90. Metropolitan Telephone and Telegraph Co., telephone rent.....	50 84	
"	91. J. C. Cady, ice.....	15 65	
"	92. Marvin Safe Co., rent of safe.....	60 00	
"	89. Searing & Hyde, stationery.....	19 70	
December, 1886—			
Voucher No.	97. M. W. Niven, petty cash.....	13 12	
"	109. M. W. Niven, petty cash.....	2 31	
"	107. Searing & Hyde, stationery.....	18 80	
January, 1887—			
Voucher No.	116. Searing & Hyde, stationery.....	15 70	
"	120. M. W. Niven, petty cash.....	6 40	
"	114. New York Cotton Exchange, rent of office.....	500 00	
February, 1887—			
Voucher No.	125. M. W. Niven, petty cash.....	2 85	
"	124. Searing & Hyde, stationery.....	45 45	
March, 1887—			
Voucher No.	139. J. C. Cady, ice.....	8 64	
"	141. Metropolitan Telephone and Telegraph Co., telephone rent.....	38 40	
"	130. Searing & Hyde, stationery.....	8 30	
April, 1887—			
Voucher No.	146. M. W. Niven, petty cash.....	7 81	
"	150. New York Cotton Exchange, office rent.....	500 00	
"	151. Searing & Hyde, stationery.....	38 01	
May, 1887—			
Voucher No.	157. M. W. Niven, petty cash.....	6 00	
"	158. Searing & Hyde, stationery.....	8 45	
June, 1887—			
Voucher No.	171. M. W. Niven, petty cash.....	1 70	
"	176. Searing & Hyde, stationery.....	7 80	
July, 1887—			
Voucher No.	184. New York Cotton Exchange, office rent.....	500 00	
"	185. M. W. Niven, petty cash.....	5 97	
August, 1887—			
Voucher No.	193. M. W. Niven, petty cash.....	2 20	
"	189. Searing & Hyde, stationery.....	31 65	
"	194. Metropolitan Telephone and Telegraph Co., telephone rent.....	38 70	
September, 1887—			
Voucher No.	205. Searing & Hyde, stationery.....	11 39	
"	204. M. W. Niven, petty cash.....	6 07	
October, 1887—			
Voucher No.	210. M. W. Niven, petty cash.....	7 64	
"	213. J. C. Cady, ice.....	60 00	
"	214. Marvin Safe Company, rent of safe.....	16 10	
"	215. Searing & Hyde, stationery.....	500 00	
November, 1887—			
Voucher No.	223. M. W. Niven, petty cash.....	5 10	
"	226. Metropolitan Telephone and Telegraph Co., telephone rent.....	40 50	
"	230. Searing & Hyde, stationery.....	1 25	
December, 1887—			
Voucher No.	245. Searing & Hyde, stationery.....	27 58	
"	236. M. W. Niven, petty cash.....	1 41	
			\$10,747 06
PAY-ROLL.			
October, 1885. Voucher No.	1	\$208 39	
November, " "	2	265 00	
December, " "	3	365 00	
January, 1886. " "	10	565 00	
February, " "	23	565 00	
March, " "	25	565 00	
April, " "	31	565 00	
May, " "	36	565 00	
June, " "	39	565 00	
July, " "	42	565 00	
August, " "	45	565 00	
September, " "	59	575 00	
October, " "	65	575 00	
November, " "	78	575 00	
December, " "	96	575 00	
January, 1887. " "	110	575 00	

February, 1887.	Voucher No. 121.	\$575 00
March, "	" 128.	575 00
April, "	" 144.	585 00
May, "	" 155.	585 00
June, "	" 169.	585 00
July, "	" 180.	585 00
August, "	" 186.	585 00
September, "	" 198.	585 00
October, "	" 208.	585 00
November, "	" 221.	585 00
December, "	" 235.	585 00
		<u>\$14,648 39</u>

"D."

ENGINEER'S DEPARTMENT EXPENSES.

BILLS.

December, 1885—	Voucher No. 8.	T. G. Sellw, furniture.	\$45 25
"	" 11.	W. & J. Sloane, carpets.	86 03
"	" 13.	DeGraaf & Taylor, furniture.	72 75
January, 1886—	Voucher No. 6.	Keuffel & Esser, drawing materials.	180 06
"	" 14.	C. C. Schneider, first premium.	1,500 00
"	" 15.	William Hildenbrand, second premium.	1,000 00
February, 1886—	Voucher No. 18.	Edward H. Kendall, expert services.	500 00
"	" 19.	P. P. Dickinson, expert services.	500 00
"	" 20.	Theodore Cooper, expert services.	500 00
"	" 21.	H. B. Christensen, prints.	1 20
March, 1886—	Voucher No. 24.	Manhattan Lithographic Co., prints.	182 50
"	" 26.	M. W. Niven, petty cash.	7 17
"	" 27.	Evening Post Job Printing Co., advertising.	57 40
April, 1886—	Voucher No. 28.	Frank Kiernan & Co., advertising.	475 00
"	" 29.	Evening Post Job Printing Co., advertising.	29 85
May, 1886—	Voucher No. 34.	H. B. Christensen, prints.	45 00
"	" 35.	Keuffel & Esser, drawing materials.	13 97
"	" 37.	M. W. Niven, petty cash.	12 50
June, 1886—	Voucher No. 38.	M. W. Niven, petty cash.	16 20
July, 1886—	None.		
August, 1886—	Voucher No. 46.	Keuffel & Esser, drawing materials.	141 46
"	" 47.	Evening Post Job Printing Co., advertising.	70 05
"	" 48.	T. G. Sellw, furniture.	133 50
"	" 50.	M. Kyle, one cedar boat.	20 00
"	" 53.	M. W. Niven, petty cash.	15 05
"	" 54.	W. P. Cook, cement testing machine.	155 00
"	" 55.	H. B. Christensen, prints.	13 68
"	" 56.	Searing & Hyde, stationery.	13 65
"	" 57.	James C. Colwell, lumber.	21 46
"	" 58.	G. S. Woolman, rent of instrument.	5 00
September, 1886—	Voucher No. 60.	M. W. Niven, petty cash.	12 00
"	" 61.	Searing & Hyde, stationery.	35 70
"	" 62.	H. B. Christensen, prints.	27 36
"	" 63.	Keuffel & Esser, drawing materials.	16 11
"	" 64.	J. C. Rankin, Jr., printing.	30 00
October, 1886—	Voucher No. 66.	M. W. Niven, petty cash.	30 62
"	" 67.	J. C. Rankin, Jr., printing.	17 00
"	" 68.	T. G. Sellw, furniture.	47 50
"	" 69.	J. Q. A. Butler, heater.	77 27
"	" 70.	R. F. Barrett, hardware.	18 65
"	" 71.	William R. Cook, cement moulds.	72 00
"	" 72.	Keuffel & Esser, drawing materials.	62 82
"	" 73.	F. G. Richardson, wire sieves.	9 70
"	" 74.	Young & Sons, instrument.	150 00
"	" 75.	A. H. Green, office rent at High Bridge.	225 00
"	" 76.	Estate William B. Ogden, service ground rent.	1,375 00
November, 1886—	Voucher No. 79.	J. C. Rankin, Jr., printing.	15 00
"	" 81.	M. D. Williamson, coal and wood.	39 40
"	" 82.	Benjamin D. Benson, stationery.	41 80
"	" 85.	Stackpole & Brother, instrument.	200 00
"	" 86.	Young & Sons, instrument.	18 00
"	" 87.	Keuffel & Esser, drawing materials.	59 16
"	" 88.	Ellis B. Noyes, computations.	25 00
"	" 89.	Searing & Hyde, stationery.	40 85
"	" 90.	G. S. Woolman, rent of instrument, three months.	15 00
"	" 93.	J. W. Colwell, lumber.	25 96
"	" 94.	Alfred Nobel, Engineer, petty expense.	43 54
December, 1886—	Voucher No. 97.	M. W. Niven, petty cash.	500 00
"	" 98.	John Reid, photographs.	107 55
"	" 99.	Keuffel & Esser, drawing materials.	60 00
"	" 100.	William Hoeltgebaum, drawing materials.	70 69
"	" 101.	G. S. Woolman, rent of instrument.	27 99
"	" 102.	William R. Winn, oil.	5 00
"	" 103.	Buff & Berger, instruments.	10 90
"	" 104.	Stackpole & Brother, instrument.	247 25
"	" 105.	Angus MacIntosh, coal.	140 00
"	" 106.	G. W. G. Ferris, Jr., inspecting.	55 50
"	" 107.	Searing & Hyde, stationery.	142 03
"	" 108.	M. W. Niven, petty cash.	5 40
January, 1887—	Voucher No. 112.	Estate of William B. Ogden, service ground rent.	72 26
"	" 113.	A. H. Green, office rent at High Bridge.	1,375 00
"	" 115.	Myles Tierney, laborer.	225 00
"	" 116.	Searing & Hyde, stationery.	38 14
"	" 117.	William R. Hutton, Engineer, petty expenses.	41 13
"	" 118.	G. W. G. Ferris, Jr., inspecting.	33 25
"	" 119.	Keuffel & Esser, drawing materials.	109 08
"	" 120.	M. W. Niven, petty cash.	26 68
February, 1887—	Voucher No. 122.	J. C. Rankin, Jr., printing.	133 16
"	" 123.	G. W. G. Ferris, Jr., inspecting.	32 50
"	" 125.	M. W. Niven, petty cash.	85 44
"	" 126.	W. R. Cook, cement moulds.	172 85
March, 1887—	Voucher No. 130.	Searing & Hyde, stationery.	83 75
"	" 131.	Myles Tierney, placing monuments.	24 55
"	" 132.	Stackpole & Brother, instrument.	8 73
"	" 133.	Kerby & Brother, rules.	9 00
"	" 134.	Patterson Brothers, hardware.	10 50
"	" 135.	William Hoeltgebaum, drawing materials.	26 30
"	" 136.	Fairbanks & Co., scales.	20 30
"	" 137.	A. H. Green, office rent at High Bridge.	41 30
"	" 138.	Estate of William B. Ogden, service ground rent.	225 00
"	" 140.	M. W. Niven, petty cash.	1,375 00
"	" 141.	Metropolitan Telephone and Telegraph Co., telephone.	105 15
"	" 142.	Keuffel & Esser, drawing materials.	40 15
"	" 143.	G. W. G. Ferris, Jr., inspecting.	38 52
			<u>165 78</u>

April, 1887—	Voucher No. 147.	Keuffel & Esser, drawing materials.	\$8 10
"	" 148.	A. MacIntosh & Son, coal.	23 00
"	" 149.	M. D. Williamson, coal.	11 50
"	" 151.	Searing & Hyde, stationery.	29 67
"	" 152.	William R. Winn, oil.	6 35
"	" 153.	A. R. Norman, water-colored drawing.	115 00
"	" 154.	G. W. G. Ferris, Jr., inspecting.	230 94
"	" 146.	M. W. Niven, petty cash.	87 22
May, 1887—	Voucher No. 156.	John Reid, photographs.	61 25
"	" 158.	Searing & Hyde, stationery.	30 20
"	" 157.	M. W. Niven, petty cash.	107 80
"	" 159.	Frank W. Skinner, petty expenses.	10 07
"	" 160.	William Lynch, awnings.	30 00
"	" 161.	G. W. G. Ferris, Jr., inspecting.	453 53
"	" 162.	Patterson Bros., hardware.	21 40
"	" 163.	G. S. Woolman, rent of instrument.	5 00
"	" 164.	Keuffel & Esser, drawing materials.	18 37
"	" 165.	T. G. Sellw, furniture.	17 50
"	" 167.	William Hoeltgebaum, drawing materials.	28 08
"	" 168.	Metropolitan Telephone and Telegraph Co., telephone.	77 75
June, 1887—	Voucher No. 171.	M. W. Niven, petty cash.	159 30
"	" 172.	G. W. G. Ferris, Jr., inspecting.	248 37
"	" 173.	Patterson Bros., hardware.	21 04
"	" 174.	Keuffel & Esser, drawing materials.	21 20
"	" 175.	A. H. Green, office rent at High Bridge.	225 00
"	" 176.	Searing & Hyde, stationery.	20 07
"	" 177.	Estate William B. Ogden, service ground rent.	1,375 00
"	" 178.	Manhattan Lithographic Co., prints.	8 60
"	" 179.	J. Ludwig, picture frames.	24 35
July, 1887—	Voucher No. 182.	Keuffel & Esser, drawing materials.	31 28
"	" 183.	Stackpole & Bro., rent of instrument.	7 00
"	" 185.	M. W. Niven, petty cash.	104 50
August, 1887—	Voucher No. 186.	T. G. Sellw, furniture.	51 50
"	" 188.	William Hoeltgebaum, drawing materials.	14 25
"	" 189.	Searing & Hyde, stationery.	15 40
"	" 190.	Keuffel & Esser, drawing materials.	13 98
"	" 191.	G. W. G. Ferris, Jr., inspecting.	247 83
"	" 192.	DeWitt C. Gardner, stationery.	50 85
"	" 193.	M. W. Niven, petty cash.	142 10
"	" 194.	Metropolitan Telephone and Telegraph Co., telephone rent.	38 70
"	" 195.	M. MacIntosh, plumbing.	24 00
September, 1887—	Voucher No. 197.	John Reid, photographs.	49 00
"	" 200.	Miller & Loechner, drawing materials.	13 68
"	" 201.	DeWitt C. Gardner, stationery.	15 85
"	" 202.	G. W. G. Ferris, Jr., inspecting.	50 70
"	" 203.	Keuffel & Esser, drawing materials.	20 64
"	" 204.	M. W. Niven, petty cash.	208 65
"	" 205.	Searing & Hyde, stationery.	9 75
"	" 206.	A. H. Green, office rent at High Bridge.	225 00
"	" 207.	Estate William B. Ogden, service ground.	1,375 00
October, 1887—	Voucher No. 210.	M. W. Niven, petty cash.	130 62
"	" 212.	Stackpole & Bro., instrument.	16 00
"	" 213.	J. C. Cady, ice.	7 65
"	" 215.	Searing & Hyde, stationery.	9 90
"	" 216.	Keuffel & Esser, drawing materials.	4 31
"	" 219.	DeWitt C. Gardner, stationery.	43 40
"	" 220.	G. W. G. Ferris, Jr., & Co., inspecting.	77 12
November, 1887—	Voucher No. 223.	M. W. Niven, petty cash.	87 80
"	" 224.	Alfred Noble, engineer, services.	228 85
"	" 225.	John Reid, photographs.	37 00
"	" 226.	Metropolitan Telephone and Telegraph Co., telephone rent.	39 00
"	" 228.	Pearce & Jones, fire signal.	75 00
"	" 229.	Keuffel & Esser, drawing materials.	30 24
"	" 230.	Searing & Hyde, stationery.	5 00
"	" 231.	Knickerbocker Ice Co., ice.	8 66
"	" 232.	J. O. A. Butler, stoves.	14 20
"	" 233.	A. MacIntosh, coal.	16 75
"	" 234.	John Bogart, sundry outlays.	32 00
December, 1887—	Voucher No. 236.	M. W. Niven, petty cash.	179 18
"	" 237.	F. A. Scafford, carpenter.	53 80
"	" 238.	Keuffel & Esser, drawing materials.	58 81
"	" 239.	John Reid, photographs.	61 00
"	" 240.	Kerby & Bro., rules.	12 00
"	" 241.	William R. Winn, oil.	10 05
"	" 242.	G. W. G. Ferris, Jr., & Co., inspecting.	57 84
"	" 243.	Boulton's Sons, chest of drawers.	32 00
Total.			<u>\$22,078 19</u>

PAY-ROLL.

October, 1885, Voucher No.		1	\$541 93
November, " "		2	630 00
December, " "		3	600 00
January, 1886, " "		10	600 00
February, " "		23	600 00
March, " "		25	600 00
April, " "		31	775 25
May, " "		36	1,221 25
June, " "		39	1,150 00
July, " "		42	1,150 00
August, " "		45	2,136 76
September, " "		59	2,283 11
October, " "		65	2,718 16
November, " "		78	3,036 33
December, " "		90	3,303 01
January, 1887, " "		110	3,730 05
February, " "		121	3,753 09
March, " "		128	3,846 99
April, " "		144	4,162 50
May, " "		155	3,993 81
June, " "		169	3,882 83
July, " "		180	4,005 05
August, " "		186	4,224 08
September, " "		198	4,350 00
October, " "		208	4,997 05
November, " "		221	5,023 33
December, " "		235	5,034 40

CONSTRUCTION ACCOUNT.

BILLS.

April, 1886—	Voucher No. 30.	Charles B. Brush, boring for foundation.	\$3,779 30
June, 1886—	Voucher No. 40.	Charles B. Brush, boring for foundation.	275 00
"	" 41.	Charles B. Brush, boring for foundation.	2,605 00
August, 1886—	Voucher No. 51.	Charles B. Brush, boring for foundation.	3,361 15
"	" 52.	Charles B. Brush, professional services.	125 00

November, 1886—		
Voucher No. 83.	Bridgeport Wood filling Co., silex.....	\$4 41
" 84.	Budd & Westerman, plugs.....	16 62
October, 1887—		
Voucher No. 217.	S. B. Fardon, iron ladders.....	400 00
" 209.	Passaic Rolling Mill Co., iron.....	102 95
November, 1887—		
Voucher No. 227.	N. F. Palmer, Jr. & Co., iron.....	317 80
		\$11,047 23

PAYMENTS TO THE PASSAIC ROLLING MILL CO. AND MYLES TIERNEY.

August, 1886.	Estimate No. 1.....	\$6,982 20
October, " "	" 2.....	11,971 89
November, " "	" 3.....	36,416 30
December, " "	" 4.....	45,761 44
December, " "	" 5.....	79,237 57
January, 1887.	" 6.....	71,053 38
February, " "	" 7.....	127,319 98
March, " "	" 8.....	109,033 37
April, " "	" 9.....	112,139 57
May, " "	" 10.....	110,477 75
June, " "	" 11.....	99,942 86
July, " "	" 12.....	73,972 45
August, " "	" 13.....	117,518 68
September, " "	" 14.....	139,786 87
October, " "	" 15.....	141,155 98
November, " "	" 16.....	149,136 13
December, " "	" 17.....	119,293 06
		\$1,533,799 48

Which was received and referred to the Counsel to the Corporation for his opinion as to how far the City is liable for the extra expense under the contract.

The Comptroller presented the following :

CITY OF NEW YORK—HARLEM RIVER BRIDGE COMMISSION,
COTTON EXCHANGE BUILDING,
January 30, 1888.

To the Board of Estimate and Apportionment of the City of New York :

GENTLEMEN—By a resolution of your Board, adopted June 15, 1887, the Comptroller was authorized to issue one million dollars of the consolidated stock of the City of New York, for the purpose of making payments for work done and materials furnished and services rendered in the construction of the bridge over the Harlem river, in the City of New York, during the year 1887, pursuant to the provisions of chapter 487 of the Laws of 1885.

A balance of about \$171,000 remains unexpended. Some small payments remain to be made on accounts of last year, but a large portion of said balance is available for 1888. I respectfully ask that the Comptroller be authorized to use such balance for the payments to be made during the year 1888.

By order of the Board.

Very respectfully,

MALCOLM W. NIVEN, Secretary Harlem River Bridge Commission.

And offered the following preamble and resolution :

Whereas, This Board authorized, on June 15, 1887, the issue of one million dollars (\$1,000,000) Consolidated Stock of the City of New York, for the purpose of making payments for work done and materials furnished and services rendered in the construction of the bridge over the Harlem river, during the year 1887 ; and

Whereas, The whole amount so authorized was not expended in the year 1887 ;

Resolved, That the Comptroller be and is hereby authorized to use and apply any balance of the proceeds of said stock remaining unexpended in 1887 to the same objects and purposes for payments required in the year 1888.

Which were adopted by the following vote :

Affirmative—The Mayor, Comptroller, President of the Board of Aldermen and President of the Department of Taxes and Assessments—4.

The Comptroller presented the following :

CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE,
February 10, 1888.

To the Board of Estimate and Apportionment :

A resolution of the Board of Education requesting the transfer of four thousand four hundred dollars was referred to the Comptroller on January 20, 1888, and I submit a resolution for that purpose.

Respectfully,

THEO. W. MYERS, Comptroller.

And offered the following resolution :

Resolved, That the sum of four thousand four hundred dollars (\$4,400) be and is hereby transferred from the appropriation to the Board of Education for 1887, entitled "Fuel for all the Schools and the Hall for the Board of Education," which is in excess of the amount required for the purposes thereof, to the appropriations entitled as follows :

"Gas for all the Schools and the Hall of the Board of Education," for 1887.....	\$900 00
"Incidental Expenses of the Board of Education," for 1887.....	3,500 00
Total.....	\$4,400 00

—which are insufficient for the purposes thereof.

Which was adopted by the following vote :

Affirmative—The Mayor, Comptroller, President of the Board of Aldermen and President of the Department of Taxes and Assessments—4.

The Comptroller presented the following :

CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE,
February 9, 1888.

To the Board of Estimate and Apportionment :

At the meeting of this Board held January 11, 1888, a resolution to amend the title of an appropriation under the head of "Advertising, Printing, etc.," in the Final Estimate for the year 1888, by including certain "arrears" of 1887, was referred to the Counsel to the Corporation for his opinion as to the power of the Board of Estimate and Apportionment to amend it as proposed. The opinion of the Counsel to the Corporation is herewith submitted, advising against the proposed amendment, and also that a transfer be made from the appropriation for the year 1888 to provide for the arrears of 1887. A resolution for that purpose is herewith presented.

Respectfully,

THEO. W. MYERS, Comptroller.

And offered the following resolution :

Resolved, That the sum of four thousand two hundred and thirty-three dollars and forty-two cents (\$4,233.42) be and is hereby transferred from the appropriation for the year 1888, under the heading of "Advertising, Printing, Stationery and Blank Books," for "Publication of the CITY RECORD, including the Preparation and Printing of the Registry of Voters," which is in excess of the amount required for the objects and purposes thereof, to the appropriation for the year 1887, under the same heading, for "Publication of the CITY RECORD, including the Preparation and Printing of the Registry of Voters and for Deficiency of 1886," which is insufficient for the purposes thereof.

Which was adopted by the following vote :

Affirmative—The Mayor, Comptroller, President of the Board of Aldermen and President of the Department of Taxes and Assessments—4.

The Comptroller offered the following preamble and resolution :

Whereas, There is a deficiency in the appropriation for "Sheriff's Fees," for 1887, for charges for various purposes in bills for the quarter ending December 31, 1887, at rates fixed for compensation by this Board ; and

Whereas, There is a surplus in the appropriation for the "Support of Prisoners in the County Jail," for 1887 ; therefore

Resolved, That the sum of one thousand eight hundred and six dollars and twenty-nine cents (\$1,806.29) be and is hereby transferred from the appropriation for "Support of Prisoners in the

County Jail," for 1887, which is in excess of the amount required for the purpose thereof, to the appropriation for "Sheriff's Fees," for 1887, which is insufficient for the objects and purposes thereof.

Which were adopted by the following vote :

Affirmative—The Mayor, Comptroller, President of the Board of Aldermen and President of the Department of Taxes and Assessments—4.

The Comptroller presented the following :

CITY OF NEW YORK—FINANCE DEPARTMENT,
COMPTROLLER'S OFFICE,
February 10, 1888.

To the Board of Estimate and Apportionment :

Herewith I present transcripts of judgments against the City for salaries of certain persons employed as Inspectors by the Board of Excise of this city, amounting to \$11,192.70, together with an opinion of the Counsel to the Corporation that they should be paid from the moneys of the Excise Fund.

A resolution for that purpose is submitted accordingly.

Respectfully,

THEO. W. MYERS, Comptroller.

LAW DEPARTMENT,
OFFICE OF THE COUNSEL TO THE CORPORATION,
NEW YORK, January 21, 1888.

Hon. THEODORE W. MYERS, Comptroller :

SIR—I have received your several letters inclosing transcripts of judgment against the City in favor of the following-named persons, for the several sums enumerated below, viz. :

John Carey.....	\$1,631 06
Michael Fay.....	1,499 36
John H. McCoy.....	87 91
Richard Sullivan.....	1,553 11
Nicholas Langdon.....	1,555 24
John Rourke.....	1,866 20
Terence Reilly.....	1,499 36
Henry E. Hughes.....	1,500 46

These judgments have been properly obtained and should be paid.

I would respectfully call your attention to a letter written by my predecessor to your Department on the 8th day of December last, in which he sets forth at length the facts upon which these and a number of other similar actions are based, and states that, unless he is advised to do otherwise within ten days, he will allow the plaintiffs to enter judgment rather than continue the litigation and involve the City probably for the payment of more costs.

No answer having been received to that letter within the time specified, the plaintiff in each of these actions was accordingly allowed to enter judgment for the amount claimed, with interest from the date of demand, together with his taxable costs, making together the amount named in the several transcripts, which is correct, and I herewith return the transcripts to you with my indorsement of approval thereon.

The plaintiff's attorney has agreed to procure and deliver releases from the several claimants of any further claim which, he informs me, he is ready to deliver upon payment of the several claims. I recommend that such releases be received and filed with the vouchers in your Department.

I remain, yours, respectfully,

HENRY R. BEEKMAN, Counsel to the Corporation.

The salaries of the judgment creditors were payable by law from the Excise Funds. I therefore repeat the recommendation of my predecessor to you under date of December 8, 1887, in reference to the payment of these judgments from the Excise moneys.

HENRY R. BEEKMAN, Counsel to the Corporation.

And offered the following resolution :

Resolved, That the Comptroller be and is hereby authorized to pay from "Excise Licenses" the following named persons the sums set opposite their names respectively, amounting to \$11,192.70, being for judgments against the City, so to be paid as advised by the Counsel to the Corporation, with interest thereon, viz. :

John Carey.....	\$1,631 06
Michael Fay.....	1,499 36
John H. McCoy.....	87 91
Richard Sullivan.....	1,553 11
Nicholas Langdon.....	1,555 24
John Rourke.....	1,866 20
Terence Reilly.....	1,499 36
Henry E. Hughes.....	1,500 46

Total..... **\$11,192 70**

Which was adopted by the following vote :

Affirmative—The Mayor, Comptroller, President of the Board of Aldermen and President of the Department of Taxes and Assessments—4.

The Comptroller presented the following :

LAW DEPARTMENT,
OFFICE OF THE COUNSEL TO THE CORPORATION,
NEW YORK, February 10, 1888.

Hon. THEODORE W. MYERS, Comptroller of the City of New York :

SIR—I have received from the Finance Department the claim of Mr. Peter B. Vermilyea, assignee of Robert L. Baldwin, for services rendered by Baldwin as Inspector of the Board of Excise from May 1, 1886, to July 7, 1886, at the rate of \$75 per month.

Pursuant to your request, an examination of the claimant and his assignor have been made, by which the claim is presumptively established.

I am also informed that the records of the Excise Department sustain the allegation that Mr. Baldwin was employed in the capacity of Inspector at the rate of \$75 per month for the period named.

I therefore advise you that this claim is of the same character as the claim of James F. Butler and nineteen others mentioned in the letter of the late Corporation Counsel, dated December 5, 1887 addressed to the Finance Department.

The claim should therefore be adjusted and paid in the manner indicated in that letter. I remain,

Yours respectfully,

HENRY R. BEEKMAN, Counsel to the Corporation.

And offered the following resolution :

Resolved, That the sum of one hundred and sixty-six dollars and ninety-three cents (\$166.93) be and hereby is allowed and appropriated to be paid from the "Excise Licenses," for the payment of the salary of Robert L. Baldwin, for services rendered to the old Excise Board of the City of New York, as Inspector, for two months and seven days, from May 1, 1886, to July 7, 1886, and the Comptroller is authorized to pay the same to Peter B. Vermilyea, assignee, as a settlement in full of the claim of said Baldwin.

Which was adopted by the following vote :

Affirmative—The Mayor, Comptroller, President of the Board of Aldermen and President of the Department of Taxes and Assessments—4.

The Comptroller offered the following resolution :

Resolved, That the Comptroller be and is hereby authorized to pay Michael Foley the sum of fifty-four dollars (\$54) out of "Excise Licenses," for ice delivered to the Excise Board from January 1 to July, 1886, as certified by the Commissioners of Excise then holding office.

Which was adopted by the following vote :

Affirmative—The Mayor, Comptroller, President of the Board of Aldermen and President of the Department of Taxes and Assessments—4.

The Comptroller offered the following resolution :

Resolved, That the title of the appropriation made in the Final Estimate for 1888, to the Department of Public Works, "For Salaries of Engineer, Clerks, Inspectors and Measurers in the Bureau of Water Register," printed on page 903 of the minutes of 1887, be amended by adding the words "and of the Chief Engineer of the Croton Aqueduct," and also, that the title of the appropriation for claims of Excise Commissioners, printed on page 926 of the minutes, be amended by striking out the word "judgment" and inserting the words "counsel fees" in its place.

Which was adopted by the following vote :

Affirmative—The Mayor, Comptroller, President of the Board of Aldermen and President of the Department of Taxes and Assessments—4.

The Comptroller offered the following resolution :

Resolved, That the amounts following be and hereby are appropriated from the "Excise Fund," under the provisions of section 210, chapter 410, Laws of 1882 (New York City Consol.

ation Act of 1882), for the support of children in the month of January, 1888, committed by magistrates to the institutions named, pursuant to law :

NAME.	NUMBER OF CHILDREN.	NUMBER OF DAYS.	RATE.	AMOUNT.
Mission of the Immaculate Virgin.....	1,062	32,808	\$2 per week	\$9,373 71
Institution of Mercy.....	796	23,749	"	6,769 78
Missionary Sisters, Third Order of St. Francis.....	597	18,201	"	5,101 23
Dominican Convent of Our Lady of the Rosary.....	497	15,036	"	4,296 00
Asylum Sisters of St. Dominic.....	438	13,510	"	3,838 00
St. Joseph's Asylum.....	424	12,587	"	3,710 57
Hebrew Sheltering Guardian Society.....	378	17,438	"	4,922 29
Ladies' Deborah Nursery and Child's Protectory.....	304	9,340	"	2,668 57
St. Agatha Home for Children.....	170	5,200	"	1,430 96
St. James' Home.....	114	3,472	"	992 00
Association for the Benefit of Colored Orphans.....	122	3,686	"	1,053 14
American Female Guardian Society and Home for the Friendless.....	120	3,356	"	938 86
Asylum of St. Vincent de Paul.....	135	4,149	"	1,124 43
St. Michael's Home.....	54	1,438	"	393 14
St. Ann's Home.....	103	3,129	"	894 00
Association for Befriending Children and Young Girls.....	14	431	"	124 00
Total.....				\$47,650 74

Which was adopted by the following vote :
Affirmative—The Mayor, Comptroller, President of the Board of Aldermen and President of the Department of Taxes and Assessments—4.

The Comptroller offered the following resolution :
Resolved, That the sum of four hundred and forty-one dollars and seventy-eight cents (\$441.78) be and hereby is appropriated from the "Excise Fund" to the "Home for Fallen and Friendless Girls," for the support of forty-six inmates, in the month of January, 1888, aggregating one thousand and seventy-five days, at the rate of \$150 per annum, pursuant to section 208, chapter 410, Laws of 1882 (New York City Consolidation Act of 1882).

Which was adopted by the following vote :
Affirmative—The Mayor, Comptroller, President of the Board of Aldermen and President of the Department of Taxes and Assessments—4.

The Comptroller presented the following :
DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION,
COMMISSIONERS' OFFICE, NO. 66 THIRD AVENUE,
NEW YORK, February 10, 1888.

Hon. ABRAM S. HEWITT, Mayor, Chairman Board of Estimate and Apportionment :

SIR—I transmit the following proceedings of the Board of Public Charities and Correction, at a meeting held this day :

Resolved, That the Honorable the Board of Estimate and Apportionment be and the same is hereby respectfully requested to transfer the sum of one hundred and seventy-five dollars (\$175) from the appropriation entitled for "East Wing of Insane Asylum, Ward's Island," 1881, for which the same is not required, to the appropriation entitled for "Alterations, Additions and Repairs to Buildings and Apparatus," 1885, to pay the fees of the architect employed to superintend, etc., the work of alterations to the said east wing of Insane Asylum, the contract for which work was charged to and has been paid for out of the aforesaid appropriation entitled for "Alterations, Additions and Repairs to Buildings and Apparatus," 1885, the balance of said appropriation being insufficient for the payment of the bill for architect's fees.

By order.

G. F. BRITTON, Secretary.

And offered the following resolution :
Resolved, That the sum of one hundred and seventy-five dollars (\$175) be and is hereby transferred from the appropriation to the Department of Public Charities and Correction for the year 1881, entitled "For Construction of New Buildings, etc.—East Wing to Insane Asylum, Ward's Island," which is in excess of the amount required for the purposes thereof, to the appropriation for the year 1885, entitled "For Construction of New Buildings, etc.—Alterations, Additions and Repairs to Buildings and Apparatus," 1885, which is insufficient for the purposes thereof.

Which was adopted by the following vote :
Affirmative—The Mayor, Comptroller, and President of the Board of Aldermen—3.
Negative—The President of the Department of Taxes and Assessments—1.

The President of the Board of Aldermen presented the following :
Resolved, That the Board of Estimate and Apportionment be and is hereby requested to transfer the sum of seven hundred and fifty dollars from the appropriation for "City Contingencies," for the year 1887, which is in excess of the amount required for the purposes and objects thereof, and has an unexpended balance of more than that sum, to the appropriation for "Salaries—Clerks and Officers of the Board of Aldermen," for the year 1888, which is insufficient for the objects and purposes thereof; and be it further

Resolved, That when such transfer shall have been made the Clerk of this Board be and he is hereby requested to appoint John McGuire as a Messenger in his office, in order to provide more efficient messenger service for the Committees of this Board, and for which the appropriation for 1888 is insufficient.

Whereupon the Comptroller offered the following resolution :

Resolved, That the sum of \$588.00 be and the same is hereby transferred from the appropriation to the Common Council entitled "City Contingencies," 1887, the same being in excess of the amount required for the purposes and objects thereof, to the appropriation for the Common Council entitled "Salaries—Clerks and Officers, Board of Aldermen," 1888, the amount of said appropriation being insufficient.

Which was adopted by the following vote :
Affirmative—The Mayor, Comptroller, President of the Board of Aldermen and President of the Department of Taxes and Assessments—4.

The Comptroller presented the following :
THE ACTORS' FUND OF AMERICA,
NEW YORK, January 31, 1888.

To the Board of Estimate and Apportionment :

The undersigned, representing the Actors' Fund of America, respectfully make application for an appropriation by your Honorable Board to said Fund of the unappropriated balance of the moneys derived from theatrical licenses for the year 1887.

A. M. PALMER, President.
HARRISON GREY FISKE, Secretary.
T. H. FRENCH, Treasurer.

Which was received and laid over.

The Comptroller presented the following :
HEALTH DEPARTMENT, NO. 301 MOTT STREET,
NEW YORK, February 10, 1888.

Hon. THEODORE W. MYERS, Comptroller, etc. :

SIR—At a meeting of the Board of Health on February 9, 1888, a resolution, of which the following is a copy, was adopted :

"Resolved, That the Board of Estimate and Apportionment be and is hereby respectfully requested to amend the title of the appropriation 'Hospital Fund—For Enlarging Disinfecting Building, providing proper Steam Apparatus for Disinfecting Clothing, Erecting Fire-escapes for Hospital Building, etc., on ground at Sixteenth street and East river,' 1887, amounting to \$7,500, by adding thereto 'and for Alteration of Hospital Building and Erecting an Elevator.'"

A true copy.

EMMONS CLARK, Secretary.

And moved that the said appropriation be amended as requested.

Which was adopted by the following vote :
Affirmative—The Mayor, Comptroller, President of the Board of Aldermen and President of the Department of Taxes and Assessments—4.

On motion, the Board adjourned.

M. COLEMAN, Secretary.

DEPARTMENT OF TAXES AND ASSESSMENTS.

Report for the Quarter ending December 31, 1887.

DEPARTMENT OF TAXES AND ASSESSMENTS,
COMMISSIONERS' OFFICE,
NEW YORK, January 3, 1888.

The Honorable ABRAM S. HEWITT, Mayor, etc. :

SIR—In compliance with the provisions of section 49 of the New York City Consolidation Act of 1882, the Commissioners of Taxes and Assessments submit the following as their

REPORT

of the operations and action of the Department of Taxes and Assessments for the quarter ending December 31, 1887.

The work of assessing real and personal property in the City of New York for purposes of taxation for the year 1888, which was commenced by the Deputy Tax Commissioners, under the direction of the Commissioners of Taxes and Assessments, on the first Monday of September, as required by section 814 of the New York City Consolidation Act of 1882, is in a fair state of progress, and the Books of Annual Record of Assessed Valuations of Real and Personal Estate for the year 1888 will be opened for inspection and correction on the second Monday of January (9th instant), as required by law.

The following is a copy of the equalization table for the year 1887, as adopted by the State Board of Equalization, and it shows the equalized valuation placed on the County of New York for the purpose of State taxation as compared with the other counties of the State :

Equalization Table, 1887.

COUNTIES.	ASSESSED VALUE OF REAL ESTATE, 1885.	ASSESSED VALUE OF PERSONAL ESTATE, 1886.	TOTAL ASSESSED VALUE OF REAL AND PERSONAL ESTATE, 1886.	AMOUNT DEDUCTED FROM ASSESSED VALUE OF REAL ESTATE.	AMOUNT ADDED TO ASSESSED VALUE OF REAL ESTATE.	EQUALIZED VALUE OF REAL ESTATE.	TOTAL EQUALIZED, REAL AND PERSONAL.
Albany.....	\$2,345,683	\$7,923,207	\$100,268,690	\$13,662,383		\$78,683,300	\$86,066,307
Allegany.....	15,026,643	1,176,660	16,203,330	1,808,183		13,218,463	14,395,123
Broome.....	27,158,617	2,954,568	30,413,215	9,029,647		18,429,700	21,383,568
Cattaraugus.....	21,147,818	1,914,985	23,062,803	7,011,818		14,135,000	16,590,985
Cayuga.....	28,541,199	3,609,573	32,150,772	1,519,229		27,021,970	30,631,543
Chautauqua.....	24,650,224	2,575,890	27,226,114	1,576,374		23,073,850	25,649,740
Chemung.....	18,931,381	1,134,905	20,066,486	1,348,211		17,583,370	18,718,275
Chenango.....	16,141,400	1,921,340	18,062,740	80,400		16,081,000	17,982,340
Clinton.....	7,277,899	1,002,745	8,280,644		\$1,487,011	8,765,510	9,766,255
Columbia.....	22,254,711	4,182,629	26,437,340		3,546,789	25,801,500	29,084,129
Cortland.....	8,726,720	1,051,469	9,778,189		1,330,271	10,057,460	11,080,469
Delaware.....	11,667,819	1,408,594	13,076,413		845,121	12,512,940	13,921,534
Dutchess.....	37,120,765	6,546,680	43,667,445		864,835	37,985,600	44,532,280
Erie.....	145,009,330	10,229,479	155,238,809	27,495,705		117,533,605	127,763,104
Essex.....	10,624,277	760,485	11,384,762	869,502		9,754,474	10,515,263
Franklin.....	7,594,976	1,167,785	8,762,761	736,526		6,858,450	8,026,235
Fulton.....	8,980,888	787,235	9,768,123	1,384,388		7,593,500	8,383,735
Genesee.....	15,984,775	2,286,310	18,271,085		3,113,725	19,098,500	21,384,810
Greene.....	13,508,233	1,845,625	15,353,858	1,593,559		11,914,674	13,760,299
Hamilton.....	1,527,593	1,800	1,529,393	371,703		1,155,800	1,157,600
Herkimer.....	17,556,511	2,244,592	19,801,103		3,937,989	21,494,500	23,739,092
Jefferson.....	28,295,998	3,067,204	31,363,202	7,725,098		20,571,000	23,638,204
Kings.....	350,369,688	14,657,676	365,027,364	22,909,788		327,459,300	348,116,076
Lewis.....	7,048,310	650,785	7,699,094		1,340,181	8,358,338	9,039,397
Livingston.....	23,605,472	2,920,630	26,526,102	1,230,922		22,404,550	25,305,180
Madison.....	18,031,275	2,030,435	20,061,710	264,115		17,767,100	19,707,535
Monroe.....	107,760,486	5,031,890	112,792,376	26,828,186		80,932,300	85,964,190
Montgomery.....	23,422,341	2,461,088	25,883,429	2,005,791		21,417,550	23,877,628
New York.....	1,203,941,065	176,883,875	1,380,824,940		119,775,885	1,233,666,950	1,500,550,825
Niagara.....	27,223,937	2,129,526	29,353,463	3,255,637		23,668,300	26,097,826
Oneida.....	45,841,438	4,277,729	50,119,167		8,027,112	53,865,550	58,146,275
Onondaga.....	68,076,495	6,542,225	74,618,720	11,363,157		65,723,338	69,255,563
Ontario.....	31,026,694	3,898,846	34,925,540	5,535,670		25,491,024	27,389,870
Orange.....	31,737,939	5,216,189	36,954,148		5,999,826	37,737,785	40,953,974
Orleans.....	15,937,715	1,790,624	17,748,339	2,911,895		13,025,820	14,816,444
Oswego.....	24,171,238	1,363,570	25,534,807	1,879,138		22,296,100	24,655,579
Otsego.....	13,446,182	1,561,000	15,007,182		7,537,458	20,983,650	22,544,650
Putnam.....	6,887,916	1,262,750	8,150,666	667,136		6,220,780	7,483,530
Queens.....	28,532,463	2,142,430	30,674,893		13,789,782	42,322,245	44,464,675
Rensselaer.....	72,466,453	6,600,955	81,067,408	20,521,453		51,945,000	60,545,955
Richmond.....	9,114,997	231,275	9,346,272		2,924,833	12,038,830	12,271,105
Rockland.....	9,948,681	1,144,485	11,093,166		2,301,319	12,250,000	13,394,485
Saratoga.....	19,587,484	1,529,504	21,116,988		2,072,447	21,659,931	23,189,435
Schoenectady.....	12,702,327	917,501	13,619,828	847,377		11,854,950	12,772,451
Schoharie.....	13,462,330	1,702,719	15,165,049	4,807,830		8,594,500	10,297,219
Schuyler.....	7,079,561	713,070	7,792,631	544,012		6,535,550	7,248,620
Seneca.....	16,078,467	2,219,422	18,297,889	2,950,517		13,127,950	15,347,372
St. Lawrence.....	29,689,550	2,799,828	32,489,378	8,012,700		21,676,950	24,476,678
Steuben.....	28,419,917	2,517,799	30,937,716	8,161,642		20,258,274	22,776,094
Suffolk.....	13,839,221	1,888,900	15,728,121		1,531,326	15,373,746	17,265,646
Sullivan.....	5,517,287	158,800	5,676,087	248,787		5,268,500	5,427,300
Tioga.....	12,570,952	808,933	13,460,885	1,385,360		11,185,592	12,084,525
Tompkins.....	10,023,686	1,262,670	11,286,356		4,104,304	14,188,000	15,450,600
Ulster.....	23,291,764	3,029,775	26,321,539	877,739		22,414,025	25,443,000
Warren.....	6,926,226	1,232,195	8,158,421	1,603,246		5,322,980	6,555,175
Washington.....	15,519,473	2,388,173	17,907,646		4,593,527	20,113,000	22,501,173
Wayne.....	25,737,579	2,365,389	28,102,968	2,698,399		23,039,180	25,451,569
Westchester.....	60,704,250	2,934,687	63,638,937		18,736,280	79,440,530	82,375,217
Wyoming.....	13,272,094	1,610,986	14,883,080		39,906	13,312,000	14,922,986
Yates.....	11,772,857	1,128,486	12,901,343	179,627		11,593,230	12,721,716
Total.....	\$3,025,229,788	\$335,898,389	\$3,361,128,177	\$207,913,746	\$207,913,746	\$3,025,229,788	\$3,361,128,177

As shown by this table, the amount (\$119,725.885) added by the State Board of Equalization to the assessed value of the real estate in this city, as fixed by this Department, makes the total equalized value of New York County for the year 1887 \$1,500,550.825, which is 45.6 per centum of the aggregate equalized valuations of all the counties of the State.

The Commissioners are unable to say how the State Board of Equalization arrived at the amount of the equalized value of this city as shown in the above table. Every facility has always been afforded the Board of State Assessors by this Department to examine the records of the assessed valuations of this city, and all information relative to the same that the Commissioners could impart

has been cheerfully given when sought. But last year no examination, so far as the Commissioners are aware, was made of the records of assessed valuations of this city, nor was any information concerning the same requested of this Department by the Board of State Assessors. The equalized valuation placed upon this city appears, therefore, to have been fixed upon purely arbitrary principles. Since the assessment rolls for the year 1887 were delivered to the Receiver of Taxes the Commissioners of Taxes and Assessments have remitted taxes for said year in 24 instances, amounting, in the aggregate, to the sum of \$5,783.93.

The following is a detailed statement of such remissions:

NAME.	DESCRIPTION OF ASSESSMENT.	ASSESSED VALUATION.	ASSESSED VALUATION ON WHICH TAX WAS REMITTED.	DATE OF REMISSION.	AMOUNT OF TAX REMITTED.	REASON FOR REMISSION.
Rev. G. H. Mandeville.....	Twelfth Ward, Block 240, No. 13.....	\$6,000 00	\$1,500 00	Oct. 12, 1887	\$32 40	Clergyman; \$1,500 exempt by law.
Samuel Joseph.....	Thirteenth Ward, No. 199.....	15,000 00	5,000 00	" 12, "	108 00	Clerical error.
Rev. James D. Wilson.....	Twenty-second Ward, Block 103, No. 57.....	12,500 00	1,500 00	" 13, "	32 40	Clergyman; \$1,500 exempt by law.
Rev. Alexander Kohnt.....	Nineteenth Ward, Block 77, No. 34.....	10,000 00	1,500 00	" 19, "	32 40	" "
St. Joseph's Roman Catholic Church of Tremont	Upper Morrisania, Twenty-fourth Ward, Nos. 31A and 32.....	5,000 00	5,000 00	" 19, "	108 00	Used for educational purposes; exempt.
Roman Catholic Church of Our Lady of Mount Carmel.....	Twelfth Ward, Block 145, No. 17.....	1,600 00	1,500 00	" 19, "	34 56	" "
Church of the Epiphany.....	Eighteenth Ward, Nos. 5526, 5527 and 5528.....	11,500 00	11,500 00	" 19, "	248 40	" "
Congregation Beth Hamedresh.....	Tenth Ward, Nos. 1428, 1429 and 1430.....	30,000 00	30,000 00	" 19, "	648 00	Used for public worship; exempt.
Thomas S. Faye.....	Resident, personal.....	10,000 00	10,000 00	Nov. 2, "	216 00	Sickness during time record was open for correction.
Alexander Levett.....	".....	4,000 00	4,000 00	" 2, "	86 40	Absence from city during time record was open for correction.
Roman Catholic of St. Joseph of the Holy Family.	Twelfth Ward, Block 1053, No. 33.....	15,000 00	15,000 00	" 2, "	324 00	Used for educational purposes; exempt.
Rutgers Female College.....	Nineteenth Ward, Block 539, Nos. 63 and 63½.....	37,500 00	37,500 00	" 2, "	810 00	Used for college purposes; exempt.
Lawrence Clark.....	Resident, personal.....	3,000 00	3,000 00	" 16, "	64 80	Absence from city during time record was open for correction.
Samuel Cardwell.....	135 shares Murray Hill Bank.....	15,795 00	15,795 00	" 16, "	341 17	" "
Rev. Horatio N. Hardy.....	Nineteenth Ward, Block 84, No. 10½.....	4,000 00	1,500 00	" 16, "	32 40	Clergyman; \$1,500 exempt by law.
George B. Durrie.....	Resident, personal.....	3,000 00	3,000 00	" 23, "	64 80	Sickness and absence from city during time record was open for correction.
Church of the Blessed Sacrament.....	Twenty-second Ward, Block 159, Nos. 5453, 5454 and 5455.....	24,000 00	24,000 00	" 30, "	518 40	Used for public worship; exempt.
St. Francis Xavier College.....	Eighteenth Ward, Nos. 3282 and 3272.....	20,000 00	20,000 00	" 30, "	626 40	Used for college purposes; exempt.
Church of St. Joseph.....	Ninth Ward, No. 2298.....	6,000 00	6,000 00	Dec. 7, "	129 60	Used for educational purposes; exempt.
New York Protestant Episcopal City Mission Society.....	Fifteenth Ward, No. 1630.....	47,000 00	47,000 00	" 7, "	1,015 20	" "
Church of St. Monica.....	Nineteenth Ward, Block 106, Nos. 39A, 40 and 41.....	4,880 00	4,880 00	" 7, "	105 40	" "
Rev. F. de Sola Mendes.....	Twenty-second Ward, Block 48, No. 48.....	7,500 00	1,500 00	" 14, "	32 40	Clergyman; \$1,500 exempt by law.
Gustav May.....	Resident, personal.....	3,000 00	3,000 00	" 14, "	64 80	Absence from the city during time record was open for correction.
Alden B. Stockwell.....	".....	5,000 00	5,000 00	" 21, "	108 00	" "
Total.....					\$5,783 93	

The following is a summary of the report of the Board of Assessors for the quarter ending October 31, 1887:

Number of assessment lists received, 93, amounting to.....	\$699,054 38
Number of assessment lists transmitted for confirmation, apportioned and advertised for objections in the CITY RECORD, 98, amounting to.....	1,542,015 77
Leaving unacted upon, 117 assessment lists, amounting to.....	767,757 94

The report in detail has been transmitted to the CITY RECORD for publication.

Respectfully submitted,

MICHAEL COLEMAN,
EDWARD C. DONNELLY,
THOMAS L. FEITNER,

Commissioners of Taxes and Assessments.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION.

MEETINGS, JANUARY 16 TO 21, 1888.

Communications Received.

From Penitentiary—List of prisoners received during week ending January 14, 1888: Males, 29; females, 3. On file.

List of 26 prisoners to be discharged from January 22 to 28, 1888. Transmitted to Prison Association.

From New York City Asylum for Insane, Blackwell's Island—History of 9 patients received during week ending January 14, 1888. On file.

From heads of institutions—Reporting meats, milk, fish, etc., received during week ending January 14, 1888, of good quality and up to the standard. On file.

From City Cemetery—List of burials during week ending January 14, 1888. On file.

From New York City Asylum for Insane, Ward's Island—History of 11 patients received during week ending January 14, 1888. On file.

From District Prisons—Amount of fines received during week ending January 14, 1888, \$55. On file.

From Storekeeper—Rejecting groceries, etc., furnished under contract, they being inferior to sample. Approved.

Contracts Awarded.

J. L. Chamberlain—5,000 yards Stillwater muslin, at 2 90-100 cents per yard; 10,000 yards awning stripes, at 9 85-100 cents per yard; 10,000 yards ticking, at 12 84-100 cents per yard; 10,000 yards cotton jeans, at 9 85-100 cents per yard; 1,000 yards red flannel, at 21 12-100 cents per yard; 500 yards white flannel, at 20 46-100 cents per yard; 10 bales cotton batts, at 10 15-100 cents per pound; 500 yards crash, at 8 20-100 cents per yard; 500 dozen men's socks, at 67 cents per dozen; 100 pieces crinoline, at 65 cents each; 10 great gross suspender buttons, at 50 cents per great gross; 200 packages pins, at 36 cents per package; 30,000 sewing needles, at \$133.95 per thousand. Sureties, W. E. Tefft, No. 22 East Sixty-fourth street; John N. Beach, No. 178 South Oxford street, Brooklyn.

D. B. Duncan—37,000 tons white ash coal, at \$3.99 per ton. Sureties, L. C. Popham, No. 5 West Twenty-third street; H. E. Bowers, No. 111 Broadway.

Joseph H. Doscher—200,000 pounds brown soap, at 3 36¼-100 cents per pound, less 10 cents per empty box returned. Sureties, A. Scherenback, No. 72 Hancock street; E. A. Milliken, No. 1455 Second avenue.

M. F. Powers—15,000 pounds Oolong tea, at 14 cents per pound. Sureties, Anne Powers, No. 266 East Twenty-second street; M. Dannenberg, No. 417 East Fifty-second street.

Wright & Windsor—68,000 dozen eggs, at 24 93-100 cents per dozen. Sureties, John A. Smith, No. 297 Washington street; John M. Hare, No. 190 Chambers street.

Thomas M. McCarthy—1,600 pounds candles, at 11 31-100 cents per pound; 200 pounds dried currants, at 6 23-100 cents per pound; 200 pounds farina, at 3½ cents per pound; 50 barrels fine flour, at \$4.87 per barrel; 1,000 pounds oatmeal, at 3 10-100 cents per pound; 250 bushels dried peas, at \$1.10 per bushel; 150 pounds ground pepper, at 17 20-100 cents per pound; 5,000 pounds prunes, at 3 74-100 cents per pound; 100,000 pounds brown sugar, at 5 41-100 cents per pound; 10,000 pounds cut loaf sugar, at 7 94-100 cents per pound; 2,400 pounds laundry starch, at 3 20-100 cents per pound; 100 pounds corn starch, at 4½ cents per pound; 50 dozen Lima beans, at \$1.38 per dozen; 50 dozen canned corn, at \$1.03 per dozen; 50 dozen canned peas, at \$1.18 per dozen; 50 dozen canned peaches, at \$2.48 per dozen; 50 dozen canned pears, at \$2.73 per dozen; 20 dozen canned salmon, at \$2.58 per dozen; 20 dozen chow chow, at \$2.97 per dozen; 13 dozen gherkins, at \$2.97 per dozen. Sureties, James E. Nichols, No. 155 West Fifty-eighth street; T. W. Ormiston, No. 139 West Seventy-third street.

N. Millard & Co.—25,000 pounds Rio coffee, roasted, at 20 80-100 cents per pound; 3,000 pounds Maracaibo coffee, roasted, at 22 30-100 cents per pound; 15,000 pounds coffee sugar, at 6 10-100 cents per pound; 50 barrels pickles, at \$8.70 per barrel, less 75 cents per empty barrel returned; 50 barrels sal soda, at 1 cent per pound; 50 dozen canned tomatoes, at \$1.04 per dozen; 50 dozen sea foam, at \$2.50 per dozen; 40 dozen Worcestershire sauce, at \$4.37 per dozen; 30 barrels chloride lime, at 2 40-100 cents per pound; 75 barrels, more or less, two-stamp Bourbon whiskey, at \$1.40 per gallon. Sureties, George F. Gantz, No. 176 Duane street; George R. Lansing, No. 46 West Twenty-first street.

Thurber, Whyland & Co.—1 dozen Edam cheese, at \$9 75 per dozen; 15,000 pounds granu-

lated sugar, at 7 12-100 cents per pound. Sureties, John Early, No. 145 Chambers street; James S. Barron, No. 141 Chambers street.

George P. Ockerhausen—10,000 gallons syrup, at 22 87-100 cents per gallon. Sureties, Thomas Minford, No. 35 West Fifty-sixth street; Michael Callahan, No. 350 East One Hundred and Sixteenth street.

Henry Chuck—8,000 yards bleached hospital gauze, at 3¼ cents per yard. Sureties, Louis Rothstein, No. 316 East Forty-ninth street; Abraham Rothstein, No. 328 East Forty-third street.

Thurber, Whyland & Co.—2,000 barrels flour, No. 1, at \$4.80 per barrel, less 16 cents per empty barrel returned. Sureties, John Early, No. 145 Chambers street; J. S. Barron, No. 141 Chambers street.

R. A. Robbins—40 dozen bath brick, at 24 9-10 cents per dozen; 5 gross handled mugs, at \$7.20 per gross; 2 gross bed pans, at \$57 per gross; 3 gross spit cups, at \$10.47 per gross; 2 gross feed cups, at \$14.10 per gross; 2 gross pitchers, 1-quart, at \$12.48 per gross; 2 gross pitchers, 2-quart, at \$17.80 per gross; 2 gross pitchers, 3-quart, at \$21.97 per gross; 5 gross soup plates, at \$9.10 per gross; 1 gross ewers, at \$39.90 per gross; 8 gross saucers, at \$5.49 per gross; 50,000 yards brown muslin, at 6 80-100 cents per yard; 30,000 yards handkerchief muslin, at 4 47-100 cents per yard; 5,000 yards bleached muslin, at 8 49-100 cents per yard; 100 pieces oiled muslin, at \$1.34 per piece; 5,000 yards liney woolsey, at 8 74-100 cents per yard; 25,000 yards light calico, at 15-100 cents per yard; 3,000 yards brown denims, at 9 49-100 cents per yard; 20,000 yards Canton flannel, at 7 61-100 cents per yard; 1,500 pairs colored blankets, at \$2.91 48-100 per pair. Sureties, James S. Barron, No. 329 West Twenty-second street; W. H. Barron, No. 348 West Twenty-ninth street.

Alexander Reid—2 steam boilers, for \$1,650. Sureties, David Wilson, No. 402 West Thirty-third street; J. C. Devine, No. 41 Perry street.

Almeron Whitehead—Fish for 1888: 450,000 pounds common fish, at 3 cents per pound; 15,000 pounds Boston steak cod, at 5½ cents per pound; 5,000 pounds blue fish, at 6 cents per pound; 500 pounds black fish, at 5 cents per pound; 200 pounds fresh mackerel, No. 1, at 8 cents per pound; 11,000 pounds halibut, at 10 cents per pound; 2,000 pounds shad, at 10 cents per pound; 500 pounds smelts, at 6 cents per pound; 10,800 pounds salmon trout, at 10 cents per pound; 300 pounds flounders, at 5 cents per pound; 1,000 pounds white fish, at 10 cents per pound; 1,000 pounds haddock, at 4 cents per pound; 700 pounds sea bass, at 7 cents per pound; 2,000 pounds lobsters, at 8 cents per pound; 25,000 hard clams, at \$4 per 1,000; 1,000 soft clams, at \$2 per 1,000; 10,000 bay oysters, at \$8 per 1,000; 60,000 culls, at \$4 per 1,000; 50 quarts scollops, at 16 cents per quart. Sureties, John Elsey, Pier 24, North river; George J. Bryan, No. 757 Broadway.

Appointed.

- January 16. Albert Klein, Fireman, N. Y. City Asylum for Insane. Salary, \$300 per annum.
 " 16. Anetta Neillard, Cook, Charity Hospital. Salary, \$240 per annum.
 " 16. Delia Mulligan, Waitress, Charity Hospital. Salary, \$192 per annum.
 " 16. Maggie Bergen, Waitress, Charity Hospital. Salary, \$192 per annum.
 " 16. William Morris, Patrick J. Riordan, Charles J. Knightly, Cyrus J. Mendenhall, John J. Dundon, Thomas F. Kane, Albert Riddick, Oscar Groschel, Michael Malone, C. Ogden Meigs, Attendants, N. Y. City Asylum for Insane. Salary, \$300 per annum each.
 " 19. Henry Hoffnagle, Head Cook, N. Y. City Asylum for Insane, Blackwell's Island. Salary, \$600 per annum.
 " 19. Catherine Sheridan, Attendant, N. Y. City Asylum for Insane, Hart's Island. Salary, \$216 per annum.
 " 20. William H. Miller, Orderly, Almshouse. Salary, \$120 per annum.
 " 21. Thomas E. Lynch, Driver, Ninety-ninth Street Hospital. Salary, \$400 per annum.
 " 21. William Stumke, Head Cook, N. Y. City Asylum for Insane, Ward's Island. Salary, \$600 per annum.
 " 21. Bernard Trub, Second Cook, N. Y. City Asylum for Insane, Ward's Island. Salary, \$400 per annum.
 " 21. T. Meyer, Second Cook, N. Y. City Asylum for Insane, Blackwell's Island. Salary, \$400 per annum.
 " 21. A. Weill, Head Cook, N. Y. City Asylum for Insane, Hart's Island. Salary, \$500 per annum.
 " 21. Herman Rickart, Baker, N. Y. City Asylum for Insane, Ward's Island. Salary, \$600 per annum.
 " 21. Thompson W. Miller, Charles Lorensen, Hugh Mooney, James B. McInerney, William A. Irwin, Attendants, N. Y. City Asylum for Insane. Salary, \$300 per annum.

Reappointed.

January 16. John E. Rochford, Orderly, Harlem Hospital. Salary, \$240 per annum.
 " 16. Mary Edwards, Nurse, Harlem Hospital. Salary, \$192 per annum.
 " 16. John G. Kennedy, Orderly, Randall's Island Hospital. Salary, \$240 per annum.

Resigned.

January 18. Albert A. Thompson, Orderly, Almshouse.
 " 20. Barbetta Seitz, Cook, Charity Hospital.
 " 21. Ella O. Touhill, Attendant, N. Y. City Asylum for Insane, Blackwell's Island.

Dropped from Roll.

January 17. Mary Donahue, Attendant, N. Y. City Asylum for Insane, Blackwell's Island.

Relieved from Duty.

January 18. Samuel R. Kent, Orderly, Charity Hospital.
 " 19. Rachel Finn, Attendant, N. Y. City Asylum for Insane, Hart's Island.

Dismissed.

January 17. John Sweeney, Orderly, Bellevue Hospital.
 " 17. Patrick Moran, Attendant, N. Y. City Asylum for Insane, Ward's Island.

G. F. BRITTON, Secretary.

MEETINGS, JANUARY 23 TO 28, 1888.

Communications Received.

From Penitentiary—List of prisoners received during week ending January 21, 1888: Males, 35; females, 2. On file.
 List of prisoners to be discharged from January 29 to February 4, 1888. Transmitted to Prison Association.
 From New York City Asylum for Insane, Blackwell's Island—History of 12 patients received during week ending January 21, 1888. On file.
 From New York City Asylum for Insane, Ward's Island—History of 20 patients received during week ending January 21, 1888. On file.
 From Heads of Institutions—Reporting meats, milk, fish, etc., received during week ending January 21, 1888, of good quality and up to the standard. On file.
 From City Cemetery—List of burials during week ending January 21, 1888. On file.
 From his Honor the Mayor—Memoranda of proposed legislation affecting the city considered at a meeting of the heads of departments, held January 23, 1888. On file.
 From City Prison—Amount of fines received during week ending January 14, 1888, \$63. On file.
 From District Prisons—Amount of fines received during week ending January 21, 1888. On file.
 From Health Department—Copy of report of a Sanitary Inspector of premises No. 66 Third avenue. Referred to Supervising Engineer.
 From City Prison—Amount of fines received during week ending January 21, 1888, \$81. On file.

Appointed.

January 23. Archibald Crow, Orderly, Charity Hospital. Salary, \$72 per annum.
 " 24. Matthew Brannelly, John Doherty, John Edwards, Alexander Wager, Attendants, N. Y. City Asylum for Insane, Ward's Island. Salary, \$300 per annum each.
 " 25. Alexander Wells, Night Watchman, Bellevue Hospital. Salary, \$144 per annum.
 " 25. James T. Reilly, Orderly, Bellevue Hospital. Salary, \$240 per annum.
 " 25. William Lowe, Thomas Graham, Attendants, N. Y. City Asylum for Insane, Ward's Island. Salary, \$300 per annum each.
 " 26. William C. Gallagher, Assistant Physician, N. Y. City Asylum for Insane, Ward's Island. Salary, \$300 per annum.
 " 26. William F. Berkeley, Fireman, N. Y. City Asylum for Insane, Hart's Island. Salary, \$360 per annum.
 " 27. Raymond Donnelly, Maurice Corridan, Attendants, N. Y. City Asylum for Insane, Ward's Island. Salary, \$300 per annum each.
 " 28. Russell Bayley, Assistant Physician, N. Y. City Asylum for Insane. Salary, \$300 per annum.

Reappointed.

January 24. Frederick Joseph, William Dwyer, Bernard Morris, Daniel O'Kane, Nelson R. Kennedy, Attendants, N. Y. City Asylum for Insane, Ward's Island. Salary, \$300 per annum each.

Resigned.

January 23. Mary Fagan, Assistant to Nurse, Randall's Island Hospital.
 " 23. Thomas Johnston, Thomas Kane, Charles J. Knightly, J. B. McInerney, Attendants, N. Y. City Asylum for Insane, Ward's Island.
 " 25. Carrie Frisbie, Attendant, N. Y. City Asylum for Insane, Blackwell's Island.
 " 28. Edward McDonald, Orderly, Harlem Hospital.

Relieved from Duty.

January 23. Michael Horan, Attendant, N. Y. City Asylum for Insane, Ward's Island.
 " 26. Anetta Neillard, Cook, Charity Hospital.
 " 28. William Norris, Attendant, N. Y. City Asylum for Insane, Ward's Island.

Dismissed.

January 23. Hugo Barteldes, Fireman, N. Y. City Asylum for Insane, Ward's Island.
 " 27. James Connolly, H. A. Vaughan, Patrick Farrell, Attendants, N. Y. City Asylum for Insane, Ward's Island.

G. F. BRITTON, Secretary.

CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS.

CITY OF NEW YORK,
 CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS,
 SECRETARY'S OFFICE, ROOM 11, CITY HALL,
 NEW YORK, February 11, 1888.

THOMAS COSTIGAN, Esq., Supervisor City Record:

Sir—In accordance with Civil Service Regulation 41 I hereby report the following appointments:

By the Department of Street Cleaning—

February 1, 1888, as Pilot:
 Thomas A. Keyes; character certified to by Daniel Shea, No. 370 West Thirty-second street;
 John F. Higgins, No. 43 Second avenue; D. L. Bradley, No. 115 Broad street; Lewis Luckendach,
 No. 8 South street.

February 2, 1888, as Superintendent of Tugs and Scows:
 Charles W. Kennedy; character certified to by L. W. Winchester, No. 145 Broadway; T. E. Sloan,
 No. 140 West Seventy-eighth street; Thomas E. Cable, No. 130 Broadway; Arthur Berry,
 No. 37 Fifth avenue.

By the Department of Docks—

February 3, 1888, as Inspectors of Pier Building:
 Frank E. Doughty; character certified to by Henry Guion, No. 735 East Ninth street; John Paar,
 No. 356 East Fourth street; Charles N. Hicks, No. 175 Lewis street; George A. Church, M. D.,
 No. 276 Seventh street.

E. E. McCarney; character certified to by John Loftus, No. 401 West Thirty-fourth street;
 Thomas N. Cabe, No. 316 East Thirty-first street; Thomas Collins, No. 424 West Forty-seventh
 street; Frank McGoe, No. 239 West Twenty-sixth street.

By the Department of Public Parks—

January 23, 1888, as Park Policemen:
 Francis McClory; character certified to by James F. McEntyre, No. 309 East Eighty-second
 street; Henry C. Hart, No. 1473 Park avenue; A. Geritzen, No. 201 East Eighty-sixth street.
 Patrick Myles; character certified to by William Hallisy, No. 109 Charlton street; E. F.
 Kempner, No. 246 East Fifty-third street; Patrick Walsh, No. 429 East Seventy-first street.

February 9, 1888, as Computer and Draughtsman:
 Edgar Schroeders; character certified to by Richard Amerman, No. 8 James street; Francis
 W. Ford, No. 8 James street; Alfred Zucker, No. 346 Broadway; Henry Ruhl, One Hundred and
 Sixty-fourth street, near Delmonico place.

Very respectfully yours,

LEE PHILLIPS, Secretary and Executive Officer.

DEPARTMENT OF PUBLIC WORKS.

DEPARTMENT OF PUBLIC WORKS,
 COMMISSIONER'S OFFICE, NO. 31 CHAMBERS STREET,
 NEW YORK, February 9, 1888.

In accordance with the provisions of section 51 of chapter 410 of the Laws of 1882, the Department of Public Works makes the following report of its transactions for the week ending February 4, 1888:

Public Moneys Received during the Week.

For Croton water rents	\$33,791 10
For penalties on water rents	201 15
For tapping Croton pipes	35 00
For sewer permits	140 00
For restoring and repaving—Special Fund	664 00
For redemption of obstructions seized	58 75
For vault permits	7 50
Total	\$34,897 50

Public Lamps.

2 old lamps relighted.
 21 lamps discontinued.
 1 lamp-post reset.
 1 lamp-post straightened.
 1 column refitted.
 10 columns releaded.

Report of Photometrical Examinations of Illuminating Gas, for the week ending February 4, 1888, made at the Photometrical Rooms of the Department of Public Works.

DATE.	TIME.	Thermometer.	Barometer.	GAS COMPANY.	BURNER.	Pressure as Delivered to Burner.	Consumption of Gas, Rate per hour.	Consumption of Candle, Grs. per hour.	ILLUMINATING POWER.	
									Observed.	Corrected.
Jan. 30	1 P.M.	56	29.89	Manhattan	Empire 5 ft. ....	.62	5.00	116.4	20.30	19.88
" 31	4:30 P.M.	66	29.98	"	"	.63	5.00	122.4	19.26	19.64
Feb. 1	3 P.M.	68	30.22	"	"	.64	5.00	120.0	19.92	19.92
" 2	5:30 P.M.	72	30.30	"	"	.64	5.00	114.6	21.48	20.51
" 3	4 P.M.	69	30.26	"	"	.65	5.00	115.8	19.88	19.19
" 4	3 P.M.	68	30.11	"	"	.63	5.00	114.6	20.04	19.14
Average.									19.71	
Jan. 30	1:30 P.M.	56	29.89	New York	Bray's Slit Union, 7	.83	5.00	119.4	23.42	23.30
" 31	4 P.M.	66	29.98	"	"	.84	5.00	120.0	22.54	22.54
Feb. 1	3:30 P.M.	68	30.22	"	"	.84	5.00	123.0	22.36	22.92
" 2	5 P.M.	72	30.30	"	"	.84	5.00	121.8	20.60	20.91
" 3	4:30 P.M.	69	30.26	"	"	.84	5.00	114.0	23.32	22.15
" 4	2:30 P.M.	68	30.11	"	"	.85	5.00	117.0	22.92	22.35
Average.									22.36	
Jan. 30	3 P.M.	56	29.89	N. Y. Mutual	"	.90	5.00	117.0	30.82	30.05
" 31	2:30 P.M.	66	29.98	"	"	.89	5.00	118.8	32.40	32.08
Feb. 1	5 P.M.	68	30.22	"	"	.88	5.00	120.0	30.60	30.60
" 2	3:30 P.M.	72	30.30	"	"	.89	5.00	118.8	29.74	29.44
" 3	6 P.M.	69	30.26	"	"	.88	5.00	120.0	30.46	30.46
" 4	1 P.M.	68	30.11	"	"	.90	5.00	124.2	28.62	29.62
Average.									30.37	
Jan. 30	2 P.M.	56	29.89	Municipal	"	.85	5.00	117.0	26.78	26.11
" 31	3:30 P.M.	66	29.98	"	"	.84	5.00	121.2	25.92	26.18
Feb. 1	4 P.M.	68	30.22	"	"	.85	5.00	121.2	27.60	27.87
" 2	4:30 P.M.	72	30.30	"	"	.84	5.00	120.0	28.80	28.80
" 3	5 P.M.	69	30.26	"	"	.85	5.00	121.8	28.04	28.46
" 4	2 P.M.	68	30.11	"	"	.86	5.00	120.0	28.82	28.82
Average.									27.70	
Jan. 30	2:30 P.M.	56	29.89	Equitable	"	.89	5.00	119.4	32.02	31.66
" 31	3 P.M.	66	29.98	"	"	.89	5.00	120.0	32.76	32.76
Feb. 1	4:30 P.M.	68	30.22	"	"	.89	5.00	121.2	32.46	32.78
" 2	4 P.M.	72	30.30	"	"	.89	5.00	124.8	31.66	32.92
" 3	5:30 P.M.	69	30.26	"	"	.89	5.00	120.0	32.80	32.80
" 4	1:30 P.M.	68	30.11	"	"	.89	5.00	126.0	31.24	32.80
Average.									32.65	
Jan. 30	11:30 A.M.	66	30.03	Metropolitan	Bray's Slit Union, 6	.65	5.00	120.0	20.66	20.66
" 31	11 A.M.	65	30.03	"	"	.63	5.00	121.8	20.44	20.74
Feb. 1	11:30 A.M.	67	30.30	"	"	.64	5.00	126.0	19.88	20.87
" 2	10 A.M.	70	30.44	"	"	.65	5.00	124.8	20.18	20.99
" 3	10:30 A.M.	71	30.32	"	"	.63	5.00	117.6	21.86	21.42
" 4	10:30 A.M.	76	30.31	"	"	.65	5.00	114.0	20.96	19.91
Average.									20.76	
Jan. 30	11 A.M.	66	30.03	Knickerbocker	"	.63	5.00	120.0	21.08	21.08
" 31	11:30 A.M.	65	30.03	"	"	.69	5.00	121.2	22.76	22.99
Feb. 1	11 A.M.	66	30.30	"	"	.70	5.00	120.0	22.88	22.88
" 2	10:30 A.M.	70	30.44	"	"	.70	5.00	121.8	23.06	23.40
" 3	10 A.M.	71	30.32	"	"	.71	5.00	124.8	23.00	23.92
" 4	11 A.M.	76	30.31	"	"	.70	5.00	115.2	24.82	23.83
Average.									23.01	

E. G. LOVE, Gas Examiner.

Permits Issued.

9 permits to tap Croton pipes.
 158 permits to open streets.
 3 permits to make sewer connections.
 5 permits to repair sewer connections.

- 75 permits to place building material on streets.
9 permits—special.
1 permit to construct street vaults.

Obstructions Removed.

- 28 obstructions removed from the various streets and avenues.

Repairing and Cleaning Sewers.

- 46 receiving-basins and culverts cleaned.
2,260 lineal feet of sewer cleaned.
13 lineal feet of sewer repaired.
12 lineal feet of culvert rebuilt.
1 basin repaired.
4 manholes repaired.
4 new manhole heads and covers put on.
1 new manhole cover put on.
1 new basin cover put on.
65 cubic yards of earth excavated and refilled.
26 square yards of pavement relaid.
149 cart-loads of dirt removed.

Statement of Laboring Force Employed in the Department of Public Works during the week ending February 4, 1888.

NATURE OF WORK.	MECHANICS.	LABORERS.	TEAMS.	CARTS
Aqueduct—Repairs and Maintenance and Strengthening.....	33	117	10	7
Supplying Water to Shipping.....	6	...	..	..
Laying Croton Pipes.....	2	17	2	..
Repairs and Renewals of Pipes, Stop-cocks, etc.....	54	108	..	13
Bronx River Works—Maintenance and Repairs.....	2	18	3	1
Repairing and Cleaning Sewers.....	4	40	..	18
Repairs and Renewals of Pavements.....	26	34	..	6
Boulevards, Roads and Avenues, Maintenance of.....	13	34	7	1
Roads, Streets and Avenues.....	1	12	3	..
Totals.....	147	380	25	46
Increase over previous week.....	2	9	..	..
Decrease from previous week.....	..	..	..	..

Appointment.

Thomas L. Moore, Assistant Engineer, at \$2,250 per annum.

Changes in Salaries.

Robert Tyler, Clerk, from \$1,500 to \$1,800 per annum.

Requisitions on the Comptroller.

The total amount of requisitions drawn by the Department on the Comptroller during the week is \$54,555.38.

D. LOWBER SMITH, Deputy Commissioner of Public Works.

DEPARTMENT OF STREET CLEANING.

DEPARTMENT OF STREET CLEANING—CITY OF NEW YORK,
Nos. 49 AND 51 CHAMBERS STREET,
NEW YORK, February 9, 1888.

In accordance with the provisions of section 51, chapter 410 of the Laws of 1882, the Commissioner of Street Cleaning makes the following abstract of the transactions of this Department for the week ending January 8, 1888:

Streets Cleaned.

	Miles.	Feet.
By the Department.....	169	680
Lower Broadway.....	15	..
First District.....	203	3,483
Second District.....	282	..
Totals.....	669	4,163

Material Removed.

	Loads.
Ashes.....	19,506
Street dirt.....	4,243
From Department of Public Works.....	53
From Markets.....	182
Permits.....	3,165
Total.....	27,149

Final Disposition.

	Loads.
56 self dumpers at sea.....	22,105
13 deck scows at sea.....	5,075
4 deck scows at Newtown creek.....	1,095
3 deck scows at Edgewater.....	1,045
2 deck scows at One Hundred and Fifty-fifth street and Harlem river.....	817
2 deck scows at Hart's Island.....	748
Total.....	30,885

Appointments.

Samuel G. Burns, Assistant Inspector, at One Hundred and Twenty-ninth street.
Peter Byrnes, Special Messenger.
James Meehan, Hired Cartman, Thirtieth Precinct.
Fred. S. Riley, Deckhand, tug "Municipal."
James Robinson, Deckhand, tug "Dassori."
William Schwab, Driver.
John Hartman, Driver.
John Kelly, Driver.
Thomas McCabe, Driver.
William Reynolds, Driver.
Patrick Keogh, Driver.
John Masterson, Driver.
Patrick Clark, Driver.

Transfer.

James F. Fitzsimmons, Driver, to Assistant Inspector.

Promotion.

Michael H. Foley, Assistant District Inspector to District Inspector.

Change in Designation.

All Watchmen at dumps to be hereafter called Assistant Dump Inspectors.

Increase in Salary.

R. W. Horner, Chief Clerk, from \$2,500 to \$2,800 per year.
John B. Greene, Superintendent, from \$2,500 to \$2,800 per year.
C. B. Galvin, Complaint and Corresponding Clerk, from \$1,200 to \$1,500 per year.
J. H. Dunn, Messenger, from \$900 to \$1,080 per year.

Pay-rolls

—audited and transmitted to the Finance Department, chargeable to the appropriation for "Cleaning Streets—Department of Street Cleaning," for the year 1887:

Schedule No. 126—
Laborers, etc., for last fifteen days of December..... \$17,997 70

Bills

—audited and transmitted to the Finance Department as per schedules, chargeable to the appropriation for "Cleaning Streets—Department of Street Cleaning," for the year 1887:

Schedule No. 124—
Holland, Edward, contract..... \$442 36
Hayward & Duffy, contract..... 9,978 60
Hayward & Duffy, assignees of M. J. O'Reilly, contract..... 17,379 97

Schedule No. 125—

Bauer, A. M., Propeller, towing..... 5 00
Collector of City Revenue, rent..... 500 00
Coates, John K., hired horses..... 139 50
Connolly, John E., feed..... 484 50
Clancimino Towing Line, rent..... 162 00
Clearelli, Joseph, labor..... 182 25
Dillon, James, hired horses..... 582 00
Dailey, John D., unloading scows..... 25 00
Jones, H., newspapers..... 9 08
Kelly Bros., carriage hire..... 47 00
Orth, G. A., gas fitting..... 15 29
Press Publishing Co., rent and gas..... 300 92
Short, William H. Co., supplies..... 30 00
Sullivan, John W., repairs..... 340 55
Sanguinito, James, services..... 40 00

Total..... \$30,664 02

Revenues.

Trimming scows..... \$269 00

J. S. COLEMAN, Commissioner of Street Cleaning.

DEPARTMENT OF DOCKS.

At an executive meeting of the Board of Docks, held February 3, 1888.

Present—Commissioners Stark, Matthews and Marshall.

The minutes of the meeting held February 2, 1888, were read and approved.

The communication from the Counsel to the Corporation in reference to suits for violation of the rules and regulations was referred to Commissioner Marshall.

The application of the Western Union Telegraph Company for permission to renew the piling at the east side of the abutment on the north side of railroad bridge crossing the Harlem river at Fourth avenue, was

On motion, ordered to be placed on file. The action of the President in directing the Engineer-in-Chief to examine and report, was approved.

The report of the Engineer-in-Chief on Secretary's Order No. 7442 in relation to the application of L. & J. Brandt for permission to run a 6-inch drain pipe from stable at the foot of East Eighty-third street into the river, was

On motion, ordered to be placed on file and permission granted, the said pipe to be placed thereat under the direction and supervision of the Engineer-in-Chief of this Department, and to be and remain during the will of the Board.

The Auditing Committee reported that they had insured the Derrick "City of New York," for \$50,000 for one year, from February 2, 1888, to February 2, 1889.

On motion, their action was approved.

The report of the Engineer-in-Chief on Secretary's Order No. 7447, respecting the eligible list submitted by the Civil Service Board for the position of Inspectors of Pier Building, was,

On motion, ordered to be placed on file, and the following resolution was adopted:

Resolved, That Frank E. Doughty and E. E. McCamey be and they hereby are appointed Inspectors of Pier Building, with compensation at the rate of forty cents per hour, to take effect when their services are required.

The following preambles and resolution were,

On motion, adopted:

Whereas, The Fort Lee Ferry Company is indebted to and owes this Department the sum of \$250, being the rental for six months (two quarters) for the bulkhead between West One Hundred and Thirtieth and West One Hundred and Thirty-first streets, North river, and the southerly side of the Pier at West One Hundred and Thirty-first street, North river, leased to the said Ferry company under a lease dated the 29th day of April, 1857, to which reference is hereby made; and

Whereas, The said ferry company has neglected to pay the said rental, although the same has been duly demanded; therefore

Resolved, That the Counsel to the Corporation be and hereby is requested to take the necessary steps to collect from the said Fort Lee Ferry Company the amount due for the use of said premises as provided for in said lease.

On motion, James Anderson was appointed Dock Builder.

On motion, the Board adjourned.

G. KEMBLE, Secretary.

At a special meeting of the Board of Docks held February 6, 1888.

Present—Commissioners Stark, Matthews and Marshall.

The Board met for the purpose of receiving the estimates for dredging at Pier 7, East river, advertised to be opened this day, at 12 o'clock M.

A representative of the Comptroller was present.

One estimate was received, as follows:

From the Union Dredging Company, with \$50 in money, 20 cents per cubic yard.

On motion, the Secretary was directed to transmit to the Comptroller the security deposit, received from said bidder and accompanying their estimate.

The following resolution was,

On motion, adopted:

Resolved, That the contract opened this day for dredging at Pier 7, East river, be and hereby is awarded to the Union Dredging Company, upon the approval of the sureties by the Comptroller of the City.

On motion, the Board adjourned.

G. KEMBLE, Secretary.

APPROVED PAPERS

Resolved, That permission be and the same is hereby given to Antonio Perazza to keep a stand for the sale of fruit, inside the stoop-line, in front of No. 2 East street, provided such stand shall not be an obstruction to the free use of the street by the public, nor exceed six feet long by four feet wide; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, January 24, 1888.

Approved by the Mayor, February 6, 1888.

Resolved, That permission be and the same is hereby given to Mary Dunkeley to place and keep a stand for the sale of newspapers, periodicals and fruit, on the sidewalk, within the stoop-line, in front of No. 24 Vesey street, provided such stand shall not be an obstruction to the free use of the street by the public, nor exceed six feet long by two and one-half wide; such permission to continue only during the pleasure of the Common Council.

Adopted by the Board of Aldermen, January 31, 1888.

Approved by the Mayor, February 8, 1888.

Resolved, That the sidewalks on both sides of Eighty-sixth street, from the westerly line of Eighth avenue to the easterly line of Ninth avenue, be and they are hereby fixed and established at the uniform width of twenty feet, and the carriageway of said street, between said avenues, at the width of sixty feet.

Adopted by the Board of Aldermen, January 31, 1888.

Approved by the Mayor, February 8, 1888.

Resolved, That One Hundred and Forty-seventh street, from the Grand Boulevard to Twelfth avenue, be regulated, graded and curbed, and the sidewalks flagged a space four feet wide through the centre thereof, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That water-pipes be laid in Macomb street, from Broadway to Albany avenue, as provided in section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That the sidewalks on the northeast corner of Ninth avenue and Ninety-second street, extending about one hundred feet on Ninth avenue and about one hundred and twenty-five feet on Ninety-second street, be flagged full width, and that the flagging and the curb now on the sidewalk be relaid and reset, and that new flagging and curb be furnished where the present flagging and curb are defective, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That the carriageway of Ninety-first street, from Eighth avenue to Ninth avenue, be paved with granite-block pavement, and that crosswalks of three courses of blue stone be laid at the terminating avenues, where not already laid, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That the carriageway of One Hundred and Sixteenth street, from Eighth avenue to Ninth avenue, be paved with granite-block pavement, and that crosswalks of three courses of blue stone be laid at the intersecting and terminating avenues, where not already laid, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps lighted in One Hundred and Thirtieth street, from Eighth avenue to Manhattan avenue, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps lighted in Edgecomb avenue, from One Hundred and Thirty-seventh street to One Hundred and Forty-first street, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That One Hundred and Sixty-first street, from St. Nicholas avenue to Tenth avenue, be regulated and graded, the curb-stones set and sidewalks flagged a space four feet wide through the centre thereof, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That the Commissioner of Public Works be and he is hereby authorized and directed to lay water-mains in One Hundred and Thirtieth street, between Eighth and Manhattan avenues, pursuant to section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That the Commissioner of Public Works be and he is hereby authorized and directed to lay water-mains in Madison avenue, between Ninety-fourth and One Hundred and Ninth streets, pursuant to section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That the Commissioner of Public Works be and he is hereby authorized and directed to lay water-mains in One Hundredth street, between Fourth and Fifth avenues, pursuant to section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That the Commissioner of Public Works be and he is hereby authorized and directed to lay water-mains in One Hundred and Twelfth street, between Eighth and Manhattan avenues, pursuant to section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That the Commissioner of Public Works be and he is hereby authorized to lay a six-inch water-main from the main in Seventy-ninth street to and across East river to the main on Blackwell's Island, with the necessary hydrants, stop-cocks, meter and connections, pursuant to section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That the Commissioner of Public Works be and he is hereby authorized and directed to lay water-mains in Avenue A, between Sixty-second and Sixty-ninth streets, pursuant to section 356 of the New York City Consolidation Act of 1882.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That gas-mains be laid, lamp-posts erected and street-lamps placed thereon and lighted in Ninetieth street, from Second to First avenue, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That the sidewalks on the east side of Fourth avenue, between One Hundred and Twenty-fourth and One Hundred and Twenty-fifth streets, about one hundred feet in length, be flagged full width, and that the flagging and the curb now on the sidewalks be relaid and reset, and that new flagging and curb be furnished where the present flagging and curb are defective, as provided by section 321 of chapter 410, Laws of 1882, as amended by chapter 569 of the Laws of 1887, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That an improved iron drinking-fountain, for man and beast, be erected on the northwest corner of Lexington avenue and One Hundred and Twenty-fourth street, under the direction of the Commissioner of Public Works.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That an additional course of flagging four feet wide be laid on the sidewalks in front of Nos. 310 to 316 East Seventy-fifth street, a distance of one hundred feet in length, and in front of No. 320 East Seventy-fifth street, a distance of twenty-five feet in length, the walk be repaired and that the flagging and the curb now on the sidewalks be relaid and reset and that new flagging and curb be furnished where the present flagging and curb are defective, as provided by section 321 of chapter 410, Laws of 1882, as amended by chapter 569 of the Laws of 1887, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That One Hundred and Fifty-ninth street, from St. Nicholas avenue to Tenth avenue, be regulated and graded, the curb-stones set and the sidewalks flagged a space four feet wide through the centre thereof, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That an additional course of flagging, four feet wide, be laid on the sidewalks on the east side of Tenth avenue, between Sixty-first and Sixty-second streets, and on the south side of Sixty-second street for a distance extending east of Tenth avenue about two hundred feet, and on the north side of Sixty-first street a distance extending about one hundred feet east of Tenth avenue, and that the flagging and the curb now on the sidewalk be relaid and reset and that new flagging and curb be furnished where the present flagging and curb are defective, as provided by section 321 of chapter 410, Laws of 1882, as amended by chapter 569 of the Laws of 1887, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That an additional course of flagging, four feet wide, be laid on the sidewalks on the east side of Tenth avenue, between Sixty-fifth and Sixty-sixth streets, Sixty-seventh and Seventieth streets, Seventy-second and Seventy-third streets, Seventy-sixth and Seventy-seventh streets, Seventy-eighth and Seventy-ninth streets, and the west side of Tenth avenue, between Sixty-sixth and Seventy-first streets and Seventy-sixth to Seventy-ninth street, and that the flagging and the curb now on the sidewalk be relaid and reset and that new flagging and curb be furnished where the present flagging and curb are defective, as provided by section 321 of chapter 410, Laws of 1882, as amended by chapter 569 of the Laws of 1887, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That an additional course of flagging, four feet wide, be laid on the sidewalks on the east side of Ninth avenue, between Eighty-first and Eighty-second streets, and on north side of Eighty-first street extending about two hundred and forty feet east of Ninth avenue, and that the flagging and the curb now on the sidewalks be relaid and reset, and that new flagging and curb be furnished where the present flagging and curb are defective, as provided by section 321 of chapter 410, Laws of 1882, as amended by chapter 569 of the Laws of 1887, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Resolved, That One Hundred and Eighth street, from the Boulevard to Riverside Drive, be regulated and graded, the curb-stones set and the sidewalks flagged a space four feet wide through the centre thereof, under the direction of the Commissioner of Public Works; and that the accompanying ordinance therefor be adopted.

Adopted by the Board of Aldermen, January 31, 1888.
Approved by the Mayor, February 8, 1888.

Whereas, In order to secure to the people of this city the benefits of Home Rule, and to protect certain interests of the municipality, as clearly shown by the message of his Honor the Mayor, the Constitution of the State requires amendment;

Resolved, That the Legislature be and hereby is respectfully requested to provide by law for the election of delegates to a "convention to revise the Constitution and amend the same," in pursuance of the mandate of the Constitution and the will of the People as expressed by their vote for such a convention at the election of 1886.

Adopted by the Board of Aldermen, February 7, 1888.
Approved by the Mayor, February 10, 1888.

EXECUTIVE DEPARTMENT.

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

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

(Signed), ABRAM S. HEWITT,
Mayor.

CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS.

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

THOMAS COSTIGAN, Esq.,
Supervisor City Record:

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

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

Yours respectfully,
LEE PHILLIPS,
Secretary and Executive Officer.

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

THOMAS COSTIGAN, Esq.,
Supervisor:

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

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

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

Very respectfully,
LEE PHILLIPS,
Secretary and Executive Officer.

LEGISLATIVE DEPARTMENT.

OFFICE OF THE BOARD OF ALDERMEN,
No. 8 CITY HALL,
NEW YORK, February 13, 1888.

Appointment.

John Maguire, No. 1070 Second avenue, Messenger, \$900 per annum.

F. J. TWOMEY,
Clerk of Common Council.

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 Clerks.

EXECUTIVE DEPARTMENT.

Mayor's Office.

No. 6 City Hall, 10 A. M. to 3 P. M.
ABRAM S. HEWITT, Mayor; ARTHUR BERRY, Secretary and Chief Clerk.

Mayor's Marshals' Office.

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

COMMISSIONERS OF ACCOUNTS.

Rooms 114 and 115, Stewart Building, 9 A. M. to 4 P. M.
WM. PITT SHEARMAN, J. B. ADAMSON.

AQUEDUCT COMMISSIONERS.

Room 200, Stewart Building, 5th floor, 9 A. M. to 5 P. M.
JAMES C. SPENCER, President; JOHN C. SHEEHAN, Secretary; BENJAMIN S. CHURCH, Chief Engineer; J. C. LULLEY, Auditor.

BOARD OF ARMORY COMMISSIONERS.

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

LEGISLATIVE DEPARTMENT.

Office of Clerk of Common Council.

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

City Library.

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

DEPARTMENT OF PUBLIC WORKS.

Commissioner's Office.

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

Bureau of Chief Engineer.

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

Bureau of Water Register.

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

Bureau of Street Improvements.

No. 31 Chambers street, 9 A. M. to 4 P. M.
WM. M. DEAN, Superintendent.

Engineer-in-Charge of Sewers.

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

Bureau of Repairs and Supplies.

No. 31 Chambers street, 9 A. M. to 4 P. M.
WILLIAM G. BERGEN, Superintendent.

Bureau of Water Purveyor.

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

Bureau of Lamps and Gas.

No. 31 Chambers street, 9 A. M. to 4 P. M.
STEPHEN MCCORMICK, Superintendent.

Bureau of Streets.

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

Bureau of Incumbrances.

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

Keeper of Buildings in City Hall Park.

MARTIN J. KRESSE, City Hall.

FINANCE DEPARTMENT.

Comptroller's Office.

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

Auditing Bureau.

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

Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents.
Nos. 31, 33, 35, 37, 39 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.
ARTEMAS S. CADDY, Collector of Assessments and Clerk of Arrears.

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

Bureau for the Collection of Taxes.
No. 59 Chambers street and No. 35 Reade street, Stewart Building.
GEORGE W. MCLEAN, Receiver of Taxes; ALFRED VREDENBURGH, Deputy Receiver of Taxes.

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

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

LAW DEPARTMENT.

Office of the Counsel to the Corporation.

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

Office of the Public Administrator.

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

Office of the Corporation Attorney.

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

POLICE DEPARTMENT.

Central Office.

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

DEPARTMENT OF CHARITIES AND CORRECTION.

Central Office.

No. 66 Third avenue, corner Eleventh street, 9 A. M. to 4 P. M.
CHARLES E. SIMMONS, President; GEORGE F. BRITTON, Secretary.

Purchasing Agent, FREDERICK A. CUSHMAN Office hours, 9 A. M. to 4 P. M. Closed Saturdays, 12 M. Contracts, Proposals and Estimates for Work and Materials for Building, Repairs and Supplies, Bills and Accounts. 9 A. M. to 4 P. M. Closed Saturdays, 12 M. RUFUS L. WILDER, General Bookkeeper and Auditor.

FIRE DEPARTMENT.

Office hours for all except where otherwise noted from 9 A. M. to 4 P. M. Saturdays, 12 M.

Headquarters.

Nos. 157 and 159 East Sixty-seventh street.
HENRY D. PURROY, President; CARL JUSSEN, Secretary.

Bureau of Chief of Department.

CHARLES O. SHAY, Chief of Department.

Bureau of Inspector of Combustibles.

PETER SEERY, Inspector of Combustibles.

Bureau of Fire Marshal.

GEORGE H. SHELTON, Fire Marshal.

Bureau of Inspection of Buildings.

ALBERT F. D'ORCH, Superintendent of Buildings.

Attorney to Department.

WM. L. FINDLEY.

Fire Alarm Telegraph.

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

Repair Shops.

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

Hospital Stables.

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

HEALTH DEPARTMENT.

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

DEPARTMENT OF PUBLIC PARKS.

Emigrant Industrial Savings Bank Building, Nos. 49 and 51 Chambers street, 9 A. M. to 4 P. M.

M. C. D. BORDEN, President; CHARLES DE F. BURNS, Secretary.

Civil and Topographical Office.

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

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

DEPARTMENT OF DOCKS.

Battery, Pier A, North River, 9 A. M. to 4 P. M.

L. J. N. STARK, President; G. KEMBLE, Secretary.
Office hours from 9 A. M. to 4 P. M. daily, except Saturdays, on Saturdays as follows: from October 1 to June 1, from 9 A. M. to 3 P. M.; from June 1 to September 30, from 9 A. M. to 12 M.

DEPARTMENT OF TAXES AND ASSESSMENTS.

Staats Zeitung Building, Tryon Row, 9 A. M. to 4 P. M. Saturdays, 12 M.

MICHAEL COLEMAN, President; FLOYD T. SMITH, Secretary.

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

DEPARTMENT OF STREET CLEANING.

Nos. 31 and 32 Park Row, "World" Building, Rooms 1, 2 and 3, 9 A. M. to 4 P. M.

JAMES S. COLEMAN, Commissioner; JACOB SEABOLD, Deputy Commissioner; R. W. HORNER, Chief Clerk.

CIVIL SERVICE SUPERVISORY AND EXAMINING BOARDS.

Room No. 11, City Hall.

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

BOARD OF ESTIMATE AND APPORTIONMENT.

Office of Clerk, Staats Zeitung Building, Room 5.
The Mayor, Chairman; CHARLES V. ADEE, Clerk.

REGISTER'S OFFICE.

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

COMMISSIONER OF JURORS.

Room 127, Stewart Building, Chambers street and Broadway, 9 A. M. to 4 P. M.

CHARLES REILLY, Commissioner; JAMES E. CONNER, Deputy Commissioner.

COUNTY CLERK'S OFFICE.

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

DISTRICT ATTORNEY'S OFFICE.

Second floor, Brown-stone Building, City Hall Park, 9 A. M. to 4 P. M.

JOHN R. FELLOWS, District Attorney; JAMES MCCABE, Chief Clerk.

THE CITY RECORD OFFICE.

And Bureau of Printing, Stationery, and Blank Books
No. 2 City Hall, 9 A. M. to 5 P. M., except Saturdays, on which days 9 A. M. to 3 P. M.

THOMAS COSTIGAN, Supervisor; R. P. H. ABELL, Book-keeper.

BOARD OF ASSESSORS.

Office City Hall, Room No. 11½, 9 A. M. to 4 P. M.
EDWARD GILON, Chairman; WM. H. JASPER, Secretary.

BOARD OF EXCISE.

No. 24 Bond street, 9 A. M. to 4 P. M.
CHARLES H. WOODMAN, President; DAVID S. WHITE, Secretary and Chief Clerk.

SHERIFF'S OFFICE.

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

CORONERS' OFFICE.

Nos. 13 and 15 Chatham street, 8 A. M. to 5 P. M. Sundays and holidays, 8 A. M. to 12:30 P. M.
MICHAEL J. B. MESSEMER, FERDINAND LEVY, FERDINAND EDMAN, JOHN K. NUGENT, CORONERS; JOHN T. TOAL, Clerk of the Board of Coroners.

SUPREME COURT.

Second floor, New County Court-house, opens at 10:30 A. M.
CHARLES H. VAN BRUNT, Presiding Justice; JAMES A. FLACK, Clerk; THOMAS F. GILROY, Deputy County Clerk.

General Term, Room No. 9, WILLIAM LAMB, Jr., Clerk.
Special Term, Part I, Room No. 10, HUGH DONNELLY, Clerk.

Special Term, Part II, Room No. 18, WILLIAM J. HILL, Clerk.

Chambers, Room No. 11, WALTER BRADY, Clerk.

Circuit, Part I, Room No. 12, SAMUEL BARRY, Clerk.

Circuit, Part II, Room No. 14, JOHN B. MCGOLDRICK, Clerk.

Circuit, Part III, Room No. 13, GEORGE F. LYON, Clerk.

Circuit, Part IV, Room No. 15, J. LEWIS LYON, Clerk.

Judges' Private Chambers, Rooms Nos. 19 and 20, EDWARD J. KNIGHT, Librarian.

SUPERIOR COURT.

Third floor, New County Court-house, 11 A. M.

General Term, Room No. 35.

Special Term, Room No. 33, 10 A. M.

Part I, Room No. 34.

Part II, Room No. 35.

Part III, Room No. 36.

Judges' Private Chambers, Room No. 30.

Naturalization Bureau, Room No. 32.

Clerk's Office, Room No. 31, 9 A. M. to 4 P. M.

JOHN SEDGWICK, Chief Judge; THOMAS BORSE, Chief Clerk.

COURT OF COMMON PLEAS.

Third floor, New County Court-house, 11 A. M.

Assignment Bureau, Room No. 23, 9 A. M. to 4 P. M.

Clerk's Office, Room No. 22, 9 A. M. to 4 P. M.

General Term, Room No. 24, 11 o'clock A. M. to adjournment.

Special Term, Room No. 21, 11 o'clock A. M. to adjournment.

Chambers, Room No. 21, 10:30 o'clock A. M. to adjournment.

Part I, Room No. 25, 11 o'clock A. M. to adjournment.

Part II, Room No. 26, 11 o'clock A. M. to adjournment.

Part III, Room No. 27, 11 o'clock A. M. to adjournment.

Naturalization Bureau, Room No. 25, 9 A. M. to 4 P. M.

RICHARD L. LARREMORE, Chief Justice; NATHANIEL JARVIS, Jr., Chief Clerk.

COURT OF GENERAL SESSIONS.

No. 32 Chambers street. Parts I. and II. Court opens at 11 o'clock A. M.

FREDERICK SMYTH, Recorder; HENRY A. GILDER-SLEEVE and RUFUS B. COWING, Judges of the said Court.

Terms, first Monday each month.

JOHN SPARKS, Clerk. Office, Room No. 11 10 A. M. till 4 P. M.

CITY COURT.

City Hall.

General Term, Room No. 20.

Trial Term, Part I, Room No. 20.

Part II, Room No. 19.

Part III, Room No. 15.

Special Term, Chambers, Room No. 21, 10 A. M. to 4 P. M.

Clerk's Office, Room No. 21, City Hall, 9 A. M. to 4 P. M.

DAVID MCADAM, Chief Justice; JOHN REID, Clerk.

OVER AND TERMINER COURT.

New County Court-house, second floor, southeast corner, Room No. 12. Court opens at 10½ o'clock A. M.

Clerk's Office, Brown-stone Building, City Hall Park, second floor, northwest corner, Room No. 11, 10 A. M. till 4 P. M.

COURT OF SPECIAL SESSIONS.

At Tombs, corner Franklin and Centre streets, daily at 10:30 A. M., excepting Saturday.

Clerk's Office, Tombs.

DISTRICT CIVIL COURTS.

First District—First, Second, Third and Fifth Wards, southwest corner of Centre and Chambers streets.

MICHAEL NORTON, Justice.
Clerk's office open from 9 A. M. to 4 P. M.

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

CHARLES M. CLANCY, Justice.

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

GEORGE B. DEANE, Justice.

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

ALFRED STECKLER, Justice.

Fifth District—Seventh, Eleventh and Thirteenth Wards, No. 154 Clinton street.

HENRY M. GOLDFOOLE, Justice.

Sixth District—Eighteenth and Twenty-first Wards No. 6½ Union place, Fourth avenue, southwest corner of Eighteenth street. Court opens 9 A. M. daily; continues to close of business.

Clerk's office open from 9 A. M. to 4 P. M. each court day.

On and after Monday, October 3, 1887, the trial days of this Court will be Mondays, Wednesdays and Fridays.

JOHN JEROLMAN, Justice.

Ninth District—Twelfth Ward, No. 225 East One Hundred and Twenty-fifth street.

JOSEPH P. FALLON, Justice.

Clerk's office open daily from 9 A. M. to 4 P. M. Trial days Tuesdays and Fridays. Court opens at 10½ A. M.

Tenth District—Twenty-third and Twenty-fourth Wards, corner of Third avenue and One Hundred and Fifty-eighth street.

Office hours, from 9 A. M. to 4 P. M. Court opens at 9 A. M.

ANDREW J. ROGERS, Justice.

Eleventh District—No. 910 Eighth avenue; Twenty-second Ward, and all that part of the Twelfth Ward lying south of One Hundred and Tenth street and west of Sixth avenue. Court open daily (Sundays and legal holidays excepted) from 9 A. M. to 4 P. M.

THOMAS E. MURRAY, Justice.

POLICE COURTS.

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

GEORGE W. CREIGIE, Secretary.

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

First District—Tombs, Centre street.

Second District—Jefferson Market.

Third District—No. 69 Essex street.

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

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

DRY GOODS.
5,000 yards Crash Toweling.
2,000 yards Huck Toweling.
50,000 yards Buckram Muslin.
10,000 yards Ticking.
400 Rubber Blankets, eyelets all around.
200 Toilet Quilts.
25 gross Women's Thimbles.

HARDWARE, IRON, ETC.
9 bundles best quality Galvanized Iron, No. 24.
24 x 84.
10 boxes best quality Charcoal Tin IX, 14 x 20.
1 dozen Scythe Blades.
30 dozen Narrow Fast Butts, 12 x 2, 6 each.
2 1/2, 3, and 3 1/2.
100 papers best quality Finishing Nails, 10 x 1 1/2.
25 each 1/2, 3/4, 1, 1 1/4, 1 3/4, and 2.
492 gross best quality Wood Screws, 24 each 1/2.
Nos. 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100.
12 gross each, 1/2, 3/4, 1, 1 1/4, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10, 10 1/4, 10 1/2, 10 3/4, 11, 11 1/4, 11 1/2, 11 3/4, 12, 12 1/4, 12 1/2, 12 3/4, 13, 13 1/4, 13 1/2, 13 3/4, 14, 14 1/4, 14 1/2, 14 3/4, 15, 15 1/4, 15 1/2, 15 3/4, 16, 16 1/4, 16 1/2, 16 3/4, 17, 17 1/4, 17 1/2, 17 3/4, 18, 18 1/4, 18 1/2, 18 3/4, 19, 19 1/4, 19 1/2, 19 3/4, 20, 20 1/4, 20 1/2, 20 3/4, 21, 21 1/4, 21 1/2, 21 3/4, 22, 22 1/4, 22 1/2, 22 3/4, 23, 23 1/4, 23 1/2, 23 3/4, 24, 24 1/4, 24 1/2, 24 3/4, 25, 25 1/4, 25 1/2, 25 3/4, 26, 26 1/4, 26 1/2, 26 3/4, 27, 27 1/4, 27 1/2, 27 3/4, 28, 28 1/4, 28 1/2, 28 3/4, 29, 29 1/4, 29 1/2, 29 3/4, 30, 30 1/4, 30 1/2, 30 3/4, 31, 31 1/4, 31 1/2, 31 3/4, 32, 32 1/4, 32 1/2, 32 3/4, 33, 33 1/4, 33 1/2, 33 3/4, 34, 34 1/4, 34 1/2, 34 3/4, 35, 35 1/4, 35 1/2, 35 3/4, 36, 36 1/4, 36 1/2, 36 3/4, 37, 37 1/4, 37 1/2, 37 3/4, 38, 38 1/4, 38 1/2, 38 3/4, 39, 39 1/4, 39 1/2, 39 3/4, 40, 40 1/4, 40 1/2, 40 3/4, 41, 41 1/4, 41 1/2, 41 3/4, 42, 42 1/4, 42 1/2, 42 3/4, 43, 43 1/4, 43 1/2, 43 3/4, 44, 44 1/4, 44 1/2, 44 3/4, 45, 45 1/4, 45 1/2, 45 3/4, 46, 46 1/4, 46 1/2, 46 3/4, 47, 47 1/4, 47 1/2, 47 3/4, 48, 48 1/4, 48 1/2, 48 3/4, 49, 49 1/4, 49 1/2, 49 3/4, 50, 50 1/4, 50 1/2, 50 3/4, 51, 51 1/4, 51 1/2, 51 3/4, 52, 52 1/4, 52 1/2, 52 3/4, 53, 53 1/4, 53 1/2, 53 3/4, 54, 54 1/4, 54 1/2, 54 3/4, 55, 55 1/4, 55 1/2, 55 3/4, 56, 56 1/4, 56 1/2, 56 3/4, 57, 57 1/4, 57 1/2, 57 3/4, 58, 58 1/4, 58 1/2, 58 3/4, 59, 59 1/4, 59 1/2, 59 3/4, 60, 60 1/4, 60 1/2, 60 3/4, 61, 61 1/4, 61 1/2, 61 3/4, 62, 62 1/4, 62 1/2, 62 3/4, 63, 63 1/4, 63 1/2, 63 3/4, 64, 64 1/4, 64 1/2, 64 3/4, 65, 65 1/4, 65 1/2, 65 3/4, 66, 66 1/4, 66 1/2, 66 3/4, 67, 67 1/4, 67 1/2, 67 3/4, 68, 68 1/4, 68 1/2, 68 3/4, 69, 69 1/4, 69 1/2, 69 3/4, 70, 70 1/4, 70 1/2, 70 3/4, 71, 71 1/4, 71 1/2, 71 3/4, 72, 72 1/4, 72 1/2, 72 3/4, 73, 73 1/4, 73 1/2, 73 3/4, 74, 74 1/4, 74 1/2, 74 3/4, 75, 75 1/4, 75 1/2, 75 3/4, 76, 76 1/4, 76 1/2, 76 3/4, 77, 77 1/4, 77 1/2, 77 3/4, 78, 78 1/4, 78 1/2, 78 3/4, 79, 79 1/4, 79 1/2, 79 3/4, 80, 80 1/4, 80 1/2, 80 3/4, 81, 81 1/4, 81 1/2, 81 3/4, 82, 82 1/4, 82 1/2, 82 3/4, 83, 83 1/4, 83 1/2, 83 3/4, 84, 84 1/4, 84 1/2, 84 3/4, 85, 85 1/4, 85 1/2, 85 3/4, 86, 86 1/4, 86 1/2, 86 3/4, 87, 87 1/4, 87 1/2, 87 3/4, 88, 88 1/4, 88 1/2, 88 3/4, 89, 89 1/4, 89 1/2, 89 3/4, 90, 90 1/4, 90 1/2, 90 3/4, 91, 91 1/4, 91 1/2, 91 3/4, 92, 92 1/4, 92 1/2, 92 3/4, 93, 93 1/4, 93 1/2, 93 3/4, 94, 94 1/4, 94 1/2, 94 3/4, 95, 95 1/4, 95 1/2, 95 3/4, 96, 96 1/4, 96 1/2, 96 3/4, 97, 97 1/4, 97 1/2, 97 3/4, 98, 98 1/4, 98 1/2, 98 3/4, 99, 99 1/4, 99 1/2, 99 3/4, 100, 100 1/4, 100 1/2, 100 3/4, 101, 101 1/4, 101 1/2, 101 3/4, 102, 102 1/4, 102 1/2, 102 3/4, 103, 103 1/4, 103 1/2, 103 3/4, 104, 104 1/4, 104 1/2, 104 3/4, 105, 105 1/4, 105 1/2, 105 3/4, 106, 106 1/4, 106 1/2, 106 3/4, 107, 107 1/4, 107 1/2, 107 3/4, 108, 108 1/4, 108 1/2, 108 3/4, 109, 109 1/4, 109 1/2, 109 3/4, 110, 110 1/4, 110 1/2, 110 3/4, 111, 111 1/4, 111 1/2, 111 3/4, 112, 112 1/4, 112 1/2, 112 3/4, 113, 113 1/4, 113 1/2, 113 3/4, 114, 114 1/4, 114 1/2, 114 3/4, 115, 115 1/4, 115 1/2, 115 3/4, 116, 116 1/4, 116 1/2, 116 3/4, 117, 117 1/4, 117 1/2, 117 3/4, 118, 118 1/4, 118 1/2, 118 3/4, 119, 119 1/4, 119 1/2, 119 3/4, 120, 120 1/4, 120 1/2, 120 3/4, 121, 121 1/4, 121 1/2, 121 3/4, 122, 122 1/4, 122 1/2, 122 3/4, 123, 123 1/4, 123 1/2, 123 3/4, 124, 124 1/4, 124 1/2, 124 3/4, 125, 125 1/4, 125 1/2, 125 3/4, 126, 126 1/4, 126 1/2, 126 3/4, 127, 127 1/4, 127 1/2, 127 3/4, 128, 128 1/4, 128 1/2, 128 3/4, 129, 129 1/4, 129 1/2, 129 3/4, 130, 130 1/4, 130 1/2, 130 3/4, 131, 131 1/4, 131 1/2, 131 3/4, 132, 132 1/4, 132 1/2, 132 3/4, 133, 133 1/4, 133 1/2, 133 3/4, 134, 134 1/4, 134 1/2, 134 3/4, 135, 135 1/4, 135 1/2, 135 3/4, 136, 136 1/4, 136 1/2, 136 3/4, 137, 137 1/4, 137 1/2, 137 3/4, 138, 138 1/4, 138 1/2, 138 3/4, 139, 139 1/4, 139 1/2, 139 3/4, 140, 140 1/4, 140 1/2, 140 3/4, 141, 141 1/4, 141 1/2, 141 3/4, 142, 142 1/4, 142 1/2, 142 3/4, 143, 143 1/4, 143 1/2, 143 3/4, 144, 144 1/4, 144 1/2, 144 3/4, 145, 145 1/4, 145 1/2, 145 3/4, 146, 146 1/4, 146 1/2, 146 3/4, 147, 147 1/4, 147 1/2, 147 3/4, 148, 148 1/4, 148 1/2, 148 3/4, 149, 149 1/4, 149 1/2, 149 3/4, 150, 150 1/4, 150 1/2, 150 3/4, 151, 151 1/4, 151 1/2, 151 3/4, 152, 152 1/4, 152 1/2, 152 3/4, 153, 153 1/4, 153 1/2, 153 3/4, 154, 154 1/4, 154 1/2, 154 3/4, 155, 155 1/4, 155 1/2, 155 3/4, 156, 156 1/4, 156 1/2, 156 3/4, 157, 157 1/4, 157 1/2, 157 3/4, 158, 158 1/4, 158 1/2, 158 3/4, 159, 159 1/4, 159 1/2, 159 3/4, 160, 160 1/4, 160 1/2, 160 3/4, 161, 161 1/4, 161 1/2, 161 3/4, 162, 162 1/4, 162 1/2, 162 3/4, 163, 163 1/4, 163 1/2, 163 3/4, 164, 164 1/4, 164 1/2, 164 3/4, 165, 165 1/4, 165 1/2, 165 3/4, 166, 166 1/4, 166 1/2, 166 3/4, 167, 167 1/4, 167 1/2, 167 3/4, 168, 168 1/4, 168 1/2, 168 3/4, 169, 169 1/4, 169 1/2, 169 3/4, 170, 170 1/4, 170 1/2, 170 3/4, 171, 171 1/4, 171 1/2, 171 3/4, 172, 172 1/4, 172 1/2, 172 3/4, 173, 173 1/4, 173 1/2, 173 3/4, 174, 174 1/4, 174 1/2, 174 3/4, 175, 175 1/4, 175 1/2, 175 3/4, 176, 176 1/4, 176 1/2, 176 3/4, 177, 177 1/4, 177 1/2, 177 3/4, 178, 178 1/4, 178 1/2, 178 3/4, 179, 179 1/4, 179 1/2, 179 3/4, 180, 180 1/4, 180 1/2, 180 3/4, 181, 181 1/4, 181 1/2, 181 3/4, 182, 182 1/4, 182 1/2, 182 3/4, 183, 183 1/4, 183 1/2, 183 3/4, 184, 184 1/4, 184 1/2, 184 3/4, 185, 185 1/4, 185 1/2, 185 3/4, 186, 186 1/4, 186 1/2, 186 3/4, 187, 187 1/4, 187 1/2, 187 3/4, 188, 188 1/4, 188 1/2, 188 3/4, 189, 189 1/4, 189 1/2, 189 3/4, 190, 190 1/4, 190 1/2, 190 3/4, 191, 191 1/4, 191 1/2, 191 3/4, 192, 192 1/4, 192 1/2, 192 3/4, 193, 193 1/4, 193 1/2, 193 3/4, 194, 194 1/4, 194 1/2, 194 3/4, 195, 195 1/4, 195 1/2, 195 3/4, 196, 196 1/4, 196 1/2, 196 3/4, 197, 197 1/4, 197 1/2, 197 3/4, 198, 198 1/4, 198 1/2, 198 3/4, 199, 199 1/4, 199 1/2, 199 3/4, 200, 200 1/4, 200 1/2, 200 3/4, 201, 201 1/4, 201 1/2, 201 3/4, 202, 202 1/4, 202 1/2, 202 3/4, 203, 203 1/4, 203 1/2, 203 3/4, 204, 204 1/4, 204 1/2, 204 3/4, 205, 205 1/4, 205 1/2, 205 3/4, 206, 206 1/4, 206 1/2, 206 3/4, 207, 207 1/4, 207 1/2, 207 3/4, 208, 208 1/4, 208 1/2, 208 3/4, 209, 209 1/4, 209 1/2, 209 3/4, 210, 210 1/4, 210 1/2, 210 3/4, 211, 211 1/4, 211 1/2, 211 3/4, 212, 212 1/4, 212 1/2, 212 3/4, 213, 213 1/4, 213 1/2, 213 3/4, 214, 214 1/4, 214 1/2, 214 3/4, 215, 215 1/4, 215 1/2, 215 3/4, 216, 216 1/4, 216 1/2, 216 3/4, 217, 217 1/4, 217 1/2, 217 3/4, 218, 218 1/4, 218 1/2, 218 3/4, 219, 219 1/4, 219 1/2, 219 3/4, 220, 220 1/4, 220 1/2, 220 3/4, 221, 221 1/4, 221 1/2, 221 3/4, 222, 222 1/4, 222 1/2, 222 3/4, 223, 223 1/4, 223 1/2, 223 3/4, 224, 224 1/4, 224 1/2, 224 3/4, 225, 225 1/4, 225 1/2, 225 3/4, 226, 226 1/4, 226 1/2, 226 3/4, 227, 227 1/4, 227 1/2, 227 3/4, 228, 228 1/4, 228 1/2, 228 3/4, 229, 229 1/4, 229 1/2, 229 3/4, 230, 230 1/4, 230 1/2, 230 3/4, 231, 231 1/4, 231 1/2, 231 3/4, 232, 232 1/4, 232 1/2, 232 3/4, 233, 233 1/4, 233 1/2, 233 3/4, 234, 234 1/4, 234 1/2, 234 3/4, 235, 235 1/4, 235 1/2, 235 3/4, 236, 236 1/4, 236 1/2, 236 3/4, 237, 237 1/4, 237 1/2, 237 3/4, 238, 238 1/4, 238 1/2, 238 3/4, 239, 239 1/4, 239 1/2, 239 3/4, 240, 240 1/4, 240 1/2, 240 3/4, 241, 241 1/4, 241 1/2, 241 3/4, 242, 242 1/4, 242 1/2, 242 3/4, 243, 243 1/4, 243 1/2, 243 3/4, 244, 244 1/4, 244 1/2, 244 3/4, 245, 245 1/4, 245 1/2, 245 3/4, 246, 246 1/4, 246 1/2, 246 3/4, 247, 247 1/4, 247 1/2, 247 3/4, 248, 248 1/4, 248 1/2, 248 3/4, 249, 249 1/4, 249 1/2, 249 3/4, 250, 250 1/4, 250 1/2, 250 3/4, 251, 251 1/4, 251 1/2, 251 3/4, 252, 252 1/4, 252 1/2, 252 3/4, 253, 253 1/4, 253 1/2, 253 3/4, 254, 254 1/4, 254 1/2, 254 3/4, 255, 255 1/4, 255 1/2, 255 3/4, 256, 256 1/4, 256 1/2, 256 3/4, 257, 257 1/4, 257 1/2, 257 3/4, 258, 258 1/4, 258 1/2, 258 3/4, 259, 259 1/4, 259 1/2, 259 3/4, 260, 260 1/4, 260 1/2, 260 3/4, 261, 261 1/4, 261 1/2, 261 3/4, 262, 262 1/4, 262 1/2, 262 3/4, 263, 263 1/4, 263 1/2, 263 3/4, 264, 264 1/4, 264 1/2, 264 3/4, 265, 265 1/4, 265 1/2, 265 3/4, 266, 266 1/4, 266 1/2, 266 3/4, 267, 267 1/4, 267 1/2, 267 3/4, 268, 268 1/4, 268 1/2, 268 3/4, 269, 269 1/4, 269 1/2, 269 3/4, 270, 270 1/4, 270 1/2, 270 3/4, 271, 271 1/4, 271 1/2, 271 3/4, 272, 272 1/4, 272 1/2, 272 3/4, 273, 273 1/4, 273 1/2, 273 3/4, 274, 274 1/4, 274 1/2, 274 3/4, 275, 275 1/4, 275 1/2, 275 3/4, 276, 276 1/4, 276 1/2, 276 3/4, 277, 277 1/4, 277 1/2, 277 3/4, 278, 278 1/4, 278 1/2, 278 3/4, 279, 279 1/4, 279 1/2, 279 3/4, 280, 280 1/4, 280 1/2, 280 3/4, 281, 281 1/4, 281 1/2, 281 3/4, 282, 282 1/4, 282 1/2, 282 3/4, 283, 283 1/4, 283 1/2, 283 3/4, 284, 284 1/4, 284 1/2, 284 3/4, 285, 285 1/4, 285 1/2, 285 3/4, 286, 286 1/4, 286 1/2, 286 3/4, 287, 287 1/4, 287 1/2, 287 3/4, 288, 288 1/4, 288 1/2, 288 3/4, 289, 289 1/4, 289 1/2, 289 3/4, 290, 290 1/4, 290 1/2, 290 3/4, 291, 291 1/4, 291 1/2, 291 3/4, 292, 292 1/4, 292 1/2, 292 3/4, 293, 293 1/4, 293 1/2, 293 3/4, 294, 294 1/4, 294 1/2, 294 3/4, 295, 295 1/4, 295 1/2, 295 3/4, 296, 296 1/4, 296 1/2, 296 3/4, 297, 297 1/4, 297 1/2, 297 3/4, 298, 298 1/4, 298 1/2, 298 3/4, 299, 299 1/4, 299 1/2, 299 3/4, 300, 300 1/4, 300 1/2, 300 3/4, 301, 301 1/4, 301 1/2, 301 3/4, 302, 302 1/4, 302 1/2, 302 3/4, 303, 303 1/4, 303 1/2, 303 3/4, 304, 304 1/4, 304 1/2, 304 3/4, 305, 305 1/4, 305 1/2, 305 3/4, 306, 306 1/4, 306 1/2, 306 3/4, 307, 307 1/4, 307 1/2, 307 3/4, 308, 308 1/4, 308 1/2, 308 3/4, 309, 309 1/4, 309 1/2, 309 3/4, 310, 310 1/4, 310 1/2, 310 3/4, 311, 311 1/4, 311 1/2, 311 3/4, 312, 312 1/4, 312 1/2, 312 3/4, 313, 313 1/4, 313 1/2, 313 3/4, 314, 314 1/4, 314 1/2, 314 3/4, 315, 315 1/4, 315 1/2, 315 3/4, 316, 316 1/4, 316 1/2, 316 3/4, 317, 317 1/4, 317 1/2, 317 3/4, 318, 318 1/4, 318 1/2, 318 3/4, 319, 319 1/4, 319 1/2, 319 3/4, 320, 320 1/4, 320 1/2, 320 3/4, 321, 321 1/4, 321 1/2, 321 3/4, 322, 322 1/4, 322 1/2, 322 3/4, 323, 323 1/4, 323 1/2, 323 3/4, 324, 324 1/4, 324 1/2, 324 3/4, 325, 325 1/4, 325 1/2, 325 3/4, 326, 326 1/4, 326 1/2, 326 3/4, 327, 327 1/4, 327 1/2, 327 3/4, 328, 328 1/4, 328 1/2, 328 3/4, 329, 329 1/4, 329 1/2, 329 3/4, 330, 330 1/4, 330 1/2, 330 3/4, 331, 331 1/4, 331 1/2, 331 3/4, 332, 332 1/4, 332 1/2, 332 3/4, 333, 333 1/4, 333 1/2, 333 3/4, 334, 334 1/4, 334 1/2, 334 3/4, 335, 335 1/4, 335 1/2, 335 3/4, 336, 336 1/4, 336 1/2, 336 3/4, 337, 337 1/4, 337 1/2, 337 3/4, 338, 338 1/4, 338 1/2, 338 3/4, 339, 339 1/4, 339 1/2, 339 3/4, 340, 340 1/4, 340 1/2, 340 3/4, 341, 341 1/4, 341 1/2, 341 3/4, 342, 342 1/4, 342 1/2, 342 3/4, 343, 343 1/4, 343 1/2, 343 3/4, 344, 344 1/4, 344 1/2, 344 3/4, 345, 345 1/4, 345 1/2, 345 3/4, 346, 346 1/4, 346 1/2, 346 3/4, 347, 347 1/4, 347 1/2, 347 3/4, 348, 348 1/4, 348 1/2, 348 3/4, 349, 349 1/4, 349 1/2, 349 3/4, 350, 350 1/4, 350 1/2, 350 3/4, 351, 351 1/4, 351 1/2, 351 3/4, 352, 352 1/4, 352 1/2, 352 3/4, 353, 353 1/4, 353 1/2, 353 3/4, 354, 354 1/4, 354 1/2, 354 3/4, 355, 355 1/4, 355 1/2, 355 3/4, 356, 356 1/4, 356 1/2, 356 3/4, 357, 357 1/4, 357 1/2, 357 3/4, 358, 358 1/4, 358 1/2, 358 3/4, 359, 359 1/4, 359 1/2, 359 3/4, 360, 360 1/4, 360 1/2, 360 3/4, 361, 361 1/4, 361 1/2, 361 3/4, 362, 362 1/4, 362 1/2, 362 3/4, 363, 363 1/4, 363 1/2, 363 3/4, 364, 364 1/4, 364 1/2, 364 3/4, 365, 365 1/4, 365 1/2, 365 3/4, 366, 366 1/4, 366 1/2, 366 3/4, 367, 367 1/4, 367 1/2, 367 3/4, 368, 368 1/4, 368 1/2, 368 3/4, 369, 369 1/4, 369 1/2, 369 3/4, 370, 370 1/4, 370 1/2, 370 3/4, 371, 371 1/4, 371 1/2, 371 3/4, 372, 372 1/4, 372 1/2, 372 3/4, 373, 373 1/4, 373 1/2, 373 3/4, 374, 374 1/4, 374 1/2, 374 3/4, 375, 375 1/4, 375 1/2, 375 3/4, 376, 376 1/4, 376 1/2, 376 3/4, 377, 377 1/4, 377 1/2, 377 3/4, 378, 378 1/4, 378 1/2, 378 3/4, 379, 379 1/4, 379 1/2, 379 3/4, 380, 380 1/4, 380 1/2, 380 3/4, 381, 381 1/4, 381 1/2, 38

1888.
L. J. N. STARK,
JAMES MATTHEWS,
CHARLES H. MARSHALL,
Commissioners of Docks.

JURORS. NOTICE IN RELATION TO JURORS FOR STATE COURTS.

OFFICE OF THE COMMISSIONER OF JURORS,
ROOM 127, STEWART BUILDING,
CHAMBERS STREET AND BROADWAY,
NEW YORK, June 1, 1887.

APPLICATIONS FOR EXEMPTIONS WILL BE heard here, from 10 a. m. to 4 p. m. daily, from all persons hitherto liable or recently serving who have become exempt, and all needed information will be given. Those who have not answered as to their liability, or proved permanent exemption, will receive a "jury enrollment notice," requiring them to appear before me this year. Whether liable or not, such notices must be answered in person, if possible, and at this office only, under severe penalties. If exempt, the party must bring proof of exemption; if liable, he must also answer in person, giving full and correct name, residence, etc., etc. No attention paid to letters.

Persons "enrolled" as liable must serve when called or pay their fines. No 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 jurors are not exempt.

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

CHARLES REILLY
Commissioner of Jurors

BOARD OF EDUCATION.

SEALED PROPOSALS WILL BE RECEIVED BY the School Trustees for the Twenty-third Ward, at the Hall of the Board of Education, 100 Nassau street, until Monday, February 20, 1888, and until four o'clock p. m. on said day, for the erection of a New School Building, on One Hundred and Thirty-eighth and One Hundred and Thirty-ninth streets, 700 feet east of Willis avenue.

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 street, at the 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.

WILLIAM R. BEAL,
CHARLES E. LAWSON,
FREDERICK FOLZ,
WILLIAM HOGG,
SAMUEL SAMUELS,

Board of School Trustees for the Twenty-third Ward.
Dated, New York, February 7, 1888.

DEPARTMENT OF PUBLIC WORKS.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
ROOM 6, No. 31 CHAMBERS STREET,
NEW YORK, February 8, 1888.

TO CONTRACTORS.

BIDS FOR ESTIMATES, INCLOSED IN A SEALED envelope, with the title, "the work and the name of the bidder endorsed thereon, also the number of the work as in the advertisement, will be received at this office until 12 o'clock m., Tuesday, February 21, 1888, at which place and hour they will be publicly opened by the head of the Department.

No. 1. FOR REGULATING AND PAVING WITH MACADAM PAVEMENT THE ROADWAY OF ELEVENTH AVENUE, from One Hundred and Fifty-fifth street to the intersection thereof with Kingsbridge road, RESETTING OLD CURB-STONES AND FURNISHING AND SETTING NEW CURB-STONES WHERE NOT ALREADY DONE.

No. 2. FOR REGULATING AND GRADING ONE HUNDRED AND TWENTY-FOURTH STREET, from Ninth to Tenth avenue, AND SETTING CURB-STONES AND FLAGGING SIDEWALKS THEREIN.

No. 3. FOR REGULATING AND GRADING ONE HUNDRED AND THIRTIETH STREET, from Tenth avenue to Convent avenue, AND SETTING CURB-STONES AND FLAGGING SIDEWALKS THEREIN.

No. 4. FOR REGULATING AND GRADING ONE HUNDRED AND FIFTIETH STREET, from Tenth avenue to St. Nicholas avenue, AND SETTING CURB-STONES AND FLAGGING SIDEWALKS THEREIN.

No. 5. FOR REGULATING AND GRADING MATTAN AVENUE, from the intersection of Manhattan avenue with the avenue bounding Morningside avenue on the east, between One Hundred and Thirtieth and One Hundred and Fourtieth streets, to One Hundred and Sixteenth street, AND SETTING CURB-STONES AND FLAGGING SIDEWALKS THEREIN.

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 is so interested, it shall distinctly state that fact. That it is made without any constraint or other person making an estimate for the same work, and it 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 thereof, 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 it is worth the amount of the security required for the completion of the contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety, or otherwise,

and that he has offered himself as surety in good faith, with the intention to execute the bond required by law.

No estimate will be considered unless accompanied by either a certified check upon one of the State or National banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must not be inclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such deposits, except that of the successful bidder, will be returned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited and retained by the City of New York, as liquidated damages for such neglect or refusal; but 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 Rooms 1 and 5, No. 31 Chambers street.

JOHN NEWTON,
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
No. 31 CHAMBERS STREET,
NEW YORK, February 3, 1888.

PUBLIC NOTICE IS HEREBY GIVEN THAT A petition of the property-owners, with map and plan showing the grade of the "Edgemont" avenue, between One Hundred and Forty-third and One Hundred and Forty-fifth streets," 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 the 15th day of February, 1888.

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

D. LOWBER SMITH,
Deputy and Acting Commissioner of Public Works.

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

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

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

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

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

FRONT WIDTH.	1 Story.	2 Stories.	3 Stories.	4 Stories.	5 Stories.
16 feet and under.	\$4.00	\$5.00	\$6.00	\$7.00	\$8.00
16 to 18 feet....	5.00	6.00	7.00	8.00	9.00
18 to 20 feet....	6.00	7.00	8.00	9.00	10.00
20 to 22½ feet....	7.00	8.00	9.00	10.00	11.00
22½ to 25 feet....	8.00	9.00	10.00	11.00	12.00
25 to 30 feet....	10.00	11.00	12.00	13.00	14.00
30 to 37½ feet....	13.00	14.00	15.00	16.00	17.00
37½ to 50 feet....	14.00	15.00	16.00	17.00	18.00

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

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

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

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

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

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

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

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

COWS.—For each and every cow, one dollar per annum.

DISH SINKS shall be charged an annual rate of from five to twenty dollars in the discretion of the Commissioner of Public Works.

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

For all stables not metered, the rates shall be as follows: HORSES, PRIVATE.—For two horses there shall be charged six dollars per annum; and for each additional horse, two dollars.

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

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

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

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

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

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

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

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

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

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

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

Urinals shall be charged two dollars per annum each. WATER-CLOSET RATES.—For hoppers of any form, when water is supplied direct from the Croton supply, through any form of the so-called single or double valves, hopper-cocks, stop-cocks, self-closing cocks, which are so constructed that not more than one drop of water can be drawn, per year, twenty dollars.

For any pan closet, or any of the forms of valve, plunger, or other water-closet not before mentioned, supplied with water as above described, per year, ten dollars.

For any form of hopper or water-closet, supplied from the ordinary style of cistern filled with ball-cock, and overflow pipe that communicates with the pipe to the water-closet, so that overflow will run into the hopper or water-closet, when ball-cock is defective, or from which an unlimited amount of water can be drawn by holding up the handle, per year, each, five dollars.

For any form of hopper or water-closet, supplied from any of the forms of waste-preventing cisterns, that are approved by the Engineer of the Croton Aqueduct, which are so constructed that not more than three gallons of water can be drawn at each lift of the handle, or depression of the seat, if such cisterns are provided with an overflow pipe, such overflow pipe must connect with the water-closet, but be carried like a safe-waste, as provided by the Board of Health regulations, per year, two dollars.

Cistern answering this description can be seen at this Department.

METERS.

Under the provisions of section 352, Consolidated Act 1882, water-meters, of approved pattern, shall be hereafter placed on the pipes supplying all stores, workshops, hotels, manufactories, public edifices, at wharves, ferry-houses, stables, and in all places where water is furnished for business consumption, except private dwelling houses.

It is provided by section 353, Laws of 1882, that "all expenses of meters, their connections and setting, water rates, and other lawful charges for the supply of Croton water, shall be a lien upon the premises where such water is supplied, as now provided by law."

All manufacturing and other business requiring a large supply of water will be fitted with a meter.

Water measured by meter, ten cents per one hundred cubic feet.

Rate Without Meters.

PER DAY, GALLONS.	PER 100 GALLONS, RATE.	PER ANNUM, AMOUNT.
25	05	\$3.75
50	05	7.50
100	05	15.00
150	05	22.50
200	05	30.00
250	04½	33.75
300	04	37.50
350	03½	41.25
400	03	45.00
500	02½	56.25
600	02	75.00
700	01½	105.00
800	01	150.00
900	00¾	187.50
1,000	00½	250.00
1,500	00¼	375.00
2,000	00½	500.00
2,500	00¼	625.00
3,000	00¼	750.00
3,500	00¼	875.00
4,000	00¼	1,000.00
4,500	00¼	1,125.00
5,000	00¼	1,250.00
6,000	00¼	1,500.00
7,000	00¼	1,750.00
8,000	00¼	2,000.00
9,000	00¼	2,250.00
10,000	00¼	2,500.00

The rate charged for steam-vessels taking water daily or belonging to daily lines, is one-half cent per ton (Custom House measurement) for each time they take water.

Steamers taking water other than daily, one cent per ton (Custom House measurement).

Water supplied to sailing vessels and put on board, twenty-five cents per hundred gallons.

All meters not hereinbefore embraced are reserved for special contract by and with the Commissioner of Public Works.

HYDRANTS, HOSE, TROUGHS, FOUNTAINS, ETC., ETC.

No owner or tenant will be allowed to supply water to another person or persons.

All persons taking water from the City must keep their own service-pipes, street tap, and all fixtures connected therewith, in good repair, protected from frost, at their own risk and expense, and shall prevent all waste of water.

The use of hose to wash coaches, omnibuses, wagons, railway cars or other vehicles or horses, cannot be permitted.

No horse-troughs or horse-watering fixtures will be permitted in the street or on the sidewalk, except upon a license or permit taken out for that purpose. All licenses or permits must be annually renewed on the first of May. Such fixtures must be kept in good order, and the water not allowed to drip or waste by overrunning the sidewalk or street, or to become dangerous in winter by freezing in and about such troughs or fixtures.

No hydrant will be permitted on the sidewalk or in the front area, and any hydrant standing in a yard or alley, attached to any dwelling or building, must not be left running when not in actual use, and if the drip or waste from such hydrant freezes and becomes dangerous in winter, the supply will be shut off in addition to the penalty of five dollars imposed.

Taps at wash-basins, water-closets, baths and urinals must not be left running, under the penalty of five dollars for each offense, which will be strictly enforced.

Fountains or jets in hotels, boarding-houses, eating-salons, confectioneries or other buildings are strictly prohibited.

The use of hose for washing sidewalks, stoops, areas, house-fronts, yards, court-yards, gardens, and about stables, is prohibited. Where premises are provided with wells, special permits will be issued for the use of hose, in order that the police or inspectors of this department may understand that the permission is not for the use of Croton water.

Opening fire-hydrants to fill hand sprinklers or other vessels will not be allowed.

The penalty for a violation of any of the preceding rules and regulations will be five dollars for each offense, and if not paid when imposed will become a lien on the premises in like manner as all other charges for unpaid water rates.

By order,
JOHN NEWTON,
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
No. 31 CHAMBERS STREET,
NEW YORK, June 21, 1887.

PUBLIC NOTICE AS TO WATER RATES.

PUBLIC NOTICE IS HEREBY GIVEN THAT in compliance with the provisions of chapter 559, Laws of 1887, amending sections 350 and 351 of the New York City Consolidation Act of 1882, passed June 9, 1887, the following changes are made in charging and collecting water rents:

1st. All extra charges for water incurred from and after June 9, 1887, shall be treated, collected and returned in arrears in the same manner as regular rents have heretofore been treated.

2d. In every building where a water meter or meters are now, or shall hereafter be in use, the charge for water by meter measurement shall be the only charge against such building, or such part thereof as is supplied through meter.

3d. The returns of arrears of water rents, including the year 1887, shall be made as heretofore on the confirmation of the tax levy by the Board of Aldermen, and shall include all charges and penalties of every nature.

4th. A penalty of five dollars (\$5) is hereby established, and will be imposed in each and every case where the rules and regulations of the Department prohibiting the use of water through hose, or in any other wasteful manner, are violated, and such penalties will be entered on the books of the Bureau against the respective buildings or property, and, if not collected, be returned in arrears in like manner as other charges for water.

5th. Charges for so-called extra water rents of every nature, imposed or incurred prior to June 9, 1887, will be canceled of record on the books of the Department.

D. LOWBER SMITH,
Deputy and Acting Commissioner of Public Works

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
No. 31 CHAMBERS STREET,
NEW YORK, November 10, 1886.

NOTICE TO CROTON WATER CONSUMERS.

NUMEROUS APPLICATIONS HAVE BEEN made to this Department by citizens claiming reductions or rebates on bills for water supplied through meters, on the alleged ground of leakage caused by defective plumbing and worn-out service pipes, or by willful waste of water by tenants allowing the faucets to be turned on in full force in water-closets, sinks, etc., without the knowledge or consent of the owners of the premises.

The main object of the use of water-meters is to enable this Department to detect and check the useless and unprofitable waste of an element so valuable and essential to the health and comfort of all the citizens, and this object can only be accomplished by enforcing payment for the water wasted.

Under the law all charges for water supplied through meters are a lien against the respective premises, and the law therefore holds the owner of the premises responsible for the amount of water used or wasted.

Notice is therefore given to all householders that, in all further applications for reduction of water rents, no allowance will be made on account of waste of water occurring through leaks from defective service pipes or plumbing, or wasteful use of water by tenants or occupants of buildings, though such leakage or waste may have occurred without the knowledge or consent of the owners of the buildings.

House-owners are further notified that whenever their premises become vacant, and are likely to remain vacant, they must notify this Department in writing, and that unless this requirement is complied with no deductions in extra water rents will be allowed for any portion of one year.

JOHN NEWTON,
Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS,
COMMISSIONER'S OFFICE,
No. 31 CHAMBERS STREET,
NEW YORK, September 29, 1886.

PUBLIC NOTICE.

PERSONS HAVING ANY BUSINESS IN THIS Department which is not assigned to or transacted by the several Bureaux in the Department, and which should come under the immediate notice of the Commissioner of Public Works, are requested to communicate directly in person, or by letter, with the Commissioner.

JOHN NEWTON,
Commissioner of Public Works.

DEPARTMENT OF TAXES AND ASSESSMENTS.

DEPARTMENT OF TAXES AND ASSESSMENTS,
STAATS ZEITUNG BUILDING,
NEW YORK.

IN COMPLIANCE WITH SECTION 847 OF THE City Consolidation Act of 1882, it is hereby advertised that the books of "The Annual Record of the Assessed Valuations of Real and Personal Estate" of the City and County of New York, for the year 1888, will be open for examination and correction from the second Monday of January, 1888, until the first day of May, 1888.

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.

MICHAEL COLEMAN,
EDWARD C. DONNELLY,
THOMAS L. FEITNER,
Commissioners of Taxes and Assessments