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DEPARTMENT OF PUBLIC WORKS.

Report for the Quarter and Year ending December 31, 1886.

DEPARTMENT OF PUBLIC WORKS, COMMISSIONER'S OFFICE, NO. 31 CHAMBERS STREET, NEW YORK, January 7, 1887.

Hon. ABRAM S. HEWITT, Mayor :

VOL. XV.

SIR-In compliance with section 49 of the New York City Consolidation Act of 1882, I have the honor to present herewith a report of the transactions of the Department of Public Works for the quarter ending December 31, 1886, and a review of its operations for the past year :

SUMMARY OF EXPENDITURES FOR THE QUARTER.

(Being amount of requisitions drawn on the Comptroller.)

| On account of appropriations raised by taxation | \$894,309 | 05 |
|--|-----------|----|
| On account of Local Improvements | 203,176 | 34 |
| On account of Funded Debt, for improvement and extension of water supply | 47,071 | 25 |
| On account of Revenue Bonds, in anticipation of collection of charges for water-meters | 71 | 43 |
| On account of Special Fund, for restoring pavements over street openings | 9,205 | 50 |
| | | - |

Total.....\$1,153,833 57

SUMMARY STATEMENT OF CONTRACTS.

(Contracts entered into during the Quarter.)

| 23 sewer contracts, estimated cost | \$157,322 85 |
|---|--------------|
| 26 regulating and grading contracts, estimated cost | 317,337 78 |
| 23 paving contracts, estimated cost | 158,765 13 |
| I water-pipe contract, estimated cost | 7,748 00 |
| 2 gas contracts, estimated cost | 32,150 00 |
| 18 miscellaneous contracts, estimated cost | 17,991 40 |

Total, 93 contracts, estimated cost \$691,315 16

(Contracts completed during the Quarter.)

| 0 | 8 mm 06 + +0 |
|--|--------------|
| 8 sewer contracts, cost | \$77,961 53 |
| 8 regulating and grading contracts, cost | 184,149 41 |
| 9 paving contracts, cost | 84,244 99 |
| I water-pipe contract, cost | 8,147 25 |
| 18 miscellaneous contracts, cost | 20,164 40 |
| - | |

Total, 44 contracts, cost \$374,667 58

BUREAU OF CHIEF ENGINEER OF THE CROTON AQUEDUCT.

At the beginning of the quarter the natural flow of the Croton river was far below the volume of water required for the City's supply, but it gradually increased, and on October 29 had risen sufficiently to fill the Aqueduct. Since that time there has been a surplus of flow, and the storage reservoirs and lakes, which had been drawn down very largely during the summer and autumn, have been gradually refilled. From October 1 to October 29, 1,560,000,000 gallons of water were drawn from the two storage reservoirs, and 410,000,000 gallons were drawn from Lakes Mahopac and Gilead.

The deficiency in the flow of the Bronx river continued much longer, and it was necessary to draw upon the water stored in the Kensico and Rye Ponds Reservoirs until December 18 ; the total The following work was done during the quarter in reinforcing and improving the Aqueduct : 1,012 cubic yards earth excavated.

975 cubic yards building stone quarried.

1,741 cubic yards dry masonry built.

490 lineal feet of additional brick arch built.

168 cubic yards stone and brick masonry built.

1,142 cubic yards filling placed in embankments.

10,349 lineal feet fences built.

An average of 13,500,000 gallons of water per day was pumped by the high service pumping works at High Bridge and at Ninety-eighth street, and distributed through the high service district.

In extending the water service in 34 separate streets and avenues, 14,500 lineal feet of 12-inch pipe and 13,685 lineal feet of 6 inch pipe was laid, making a total of 28,185 lineal feet, or 5 34-100 miles. With these pipes 55 stop-cocks and 77 fire-hydrants were placed.

252 additional water-meters were placed during the quarter, making 14,582 meters in use on December 31, 1886.

With the advent of cold weather, the people have resumed the pernicious practice of wasting water in immense quantities by letting the water run from faucets day and night to prevent freezing in their service-pipes. I shall speak more fully of the causes and effects of this waste in the review of the operations of the Department for the year 1886, which is embodied in this report.

BUREAU OF WATER PURVEYOR. Pavements.

| The following repavement works were finished during the quarter : |
|--|
| Eighteenth street, between First avenue and East river and between Eighth and Tenth avenues. |
| Fifteenth street, between First and Second avenues. |
| Nineteenth street, between First and Second avenues. |
| Twenty-fifth street, between First avenue and East river. |
| Pine street, between William and Pearl streets. |
| Chambers street, between Broadway and Centre street. |
| Eighth street, between Fourth avenue and Broadway. |
| Ninth street, between Third and Fourth avenues. |
| Eighteenth street, between Fourth avenue and Broadway. |
| The area of streets repaved is 24,896 square yards, exclusive of the Fifth avenue pavement. |
| On Fifth avenue, 18,571 square yards of pavement were laid during the quarter. |
| The laying of pavement is suspended during the severe cold weather, but paving-blocks con- |
| e to be delivered and inspected on the line of the work. |
| The following new pavements, payable by assessment, were laid : |
| Sixty-fourth street, between First and Second avennes. |
| Ninety-third street, between Eighth and Ninth avenues. |
| One Hundred and Third street, between First and Second avenues. |
| One Hundred and Ninth street between Madison and Fourth avenues, covering 8 515 square |

O ng 0,515 squ yards.

In the repairs of pavements an average force of 624 pavers, rammers and laborers, 124 carts and 2 teams was employed until severe cold weather compelled a suspension of the work. The repairs made by this force cover an area of 118,604 square yards. A small force of 59 men and 8 carts is retained during the winter season to repair dangerous places which demand immediate attention. Pavement repairs, covering an area of 2,902 square yards were made by contract, in addition to the work done by the repair force. Eighteen permits were issued to parties to repair pavements at their own expense.

Repairs of Water-pipes, Stop-cocks and Hydrants.

The average force employed under the direction of the Water Purveyor in the repairs of pipes, stop-cocks and hydrants was 79 mechanics and laborers and 11 carts. The following are the principal items of work done by this force :

397 defects in pipes and stop-cocks repaired.

186 water connections shut off on account of leaks in service-pipes.

1,054 repairs made to fire-hydrants.

96 old fire-hydrants replaced by new ones.

5 additional fire-hydrants placed.

272 repairs of defective pavements made.

I new public drinking-hydrant was placed and 42 drinking-hydrants were repaired.

BUREAU OF SEWERS.

During the quarter 9 contracts for new sewers and 9 contracts for receiving-basins were completed, and 29 sewer works were in progress at the close of the quarter. New contracts were made for 5 sewers and 6 receiving-basins, upon which work has not yet been begun. The aggregate quantities of work done under the several contracts are :

5,609 lineal feet of sewers built.

- 411 lineal feet culverts built.
 - 9 receiving-basins built.

The following are the principal items in repairing and cleaning sewers and receiving-basins : 250 lineal feet sewers rebuilt.

157 lineal feet sewers repaired.

107 lineal feet culverts rebuilt.

90 lineal feet spur-pipe laid.

2 new receiving-basins built.

quantity drawn during the quarter is 1,150,000,000 gallons.

The following table shows the rain-fall for the quarter at the several stations where rain gauges are kept by the Department :

| LOCATIONS. | October. Inches. | November. Inches. | DECEMBER. INCHES. | TOTAL. INCHES. |
|--------------------------|---------------------|----------------------|----------------------|-------------------|
| Boyd's Corners Reservoir | 2.28 | 5.57 | 4.29 | 12.14 |
| South East Reservoir | 1.95 | 5.09 | 3.97 | 11.01 |
| Croton Dam | 1.85 | 5.71 | 3.99 | 11.56 |
| Kensico Reservoir | 2.41 | 4.07 | 3.33 | 9.81 |
| Central Park Reservoir | 3.46 | 4.38 | 3.03 | 10.87 |

The Croton Aqueduct has delivered water to its full capacity, without interruption, during the past three months, and in November the volume passed through the conduit was increased one inch in depth, in order to meet to some extent the increased consumption of water caused by waste during cold weather.

2 receiving basins rebuilt. 51 receiving-basins repaired. 2 new manholes built. 107 manholes repaired. 52 new manhole covers and 33 manhole heads placed. 12 new granite basin heads placed. 24 new basin covers placed. 1,600 cubic yards earth excavated and refilled. 412 square yards pavement relaid.

BUREAU OF STREET IMPROVEMENTS.

During the three months work was in progress under twenty-one regulating and grading contracts, of which the following have been completed and accepted by the Department : West End avenue, from Seventy-second street to the Boulevard. William street, from Duane to North William street. Ninety-third street, from West End avenue to Riverside Drive. One Hundred and Thirtieth street, from Old Broadway to the Boulevard. One Hundred and Fifty-fifth street, from Eighth avenue to New avenue. One Hundred and Fifty-fifth street, from Eighth avenue to McComb's Dam lane.

THE CITY RECORD. Four flagging contracts and six contracts for fencing vacant lots were also completed. The aggregate quantities of work done under the several contracts are :

33,168 cubic yards earth excavated. 34,635 cubic yards rock excavated.

84,023 cubic yards filling placed in embankments.

7,128 lineal feet curb stone set.

63,383 square feet flagging laid.

1,163 lineal feet picket fence built.

In the care and repair of sidewalks in front of City property, the following work was done, under the appropriation for that purpose :

- 1,441 square feet flagging laid.
- 600 square feet flagging relaid.
- 232 lineal feet curb stone set.
- 125 lineal feet curb stone reset.
- 318 square feet flagging relaid.
- 579 receiving basins cleaned.
- 13,788 lineal feet of sewers cleaned.

1,917 cartloads of sewer deposits removed.

BUREAU OF STREETS AND ROADS.

In addition to the ordinary labor of maintaining and cleaning the macadam roadways under the charge of this Bureau, special repairs were made on the following roads :

- Western Boulevard, between Fifty-ninth and One Hundred and Fifty-fifth streets.

Seventy-second street, between Ninth avenue and Riverside Drive.

Seventy-second street, between Avenue A and Fifth avenue.

Fifth avenue, between One Hundred and Tenth and One Hundred and Twentieth streets. First avenue, between One Hundred and Ninth and One Hundred and Sixteenth streets.

Avenue A, between Fifty-seventh and Eighty-sixth streets.

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

Seventh avenue, between One Hundred and Tenth and One Hundred and Fifty-fourth streets. Sixth avenue, between One Hundred and Tenth and One Hundred and Forty-sixth streets. One Hundred and Sixteenth street, between Pleasant and Seventh avenues.

Mount Morris avenue, between One Hundred and Twentieth and One Hundred and Twentyfourth streets.

Fifth avenue, between One Hundred and Twenty-fourth and One Hundred and Thirtieth streets. Avenue St. Nicholas, between One Hundred and Tenth and One Hundred and Twenty-fifth streets.

In the cleaning of the roadways, 2,950 truck-loads of dirt and other refuse materials were removed, and 570 truck loads of deposits were removed from sewer basins along the road. All of these roadways are sprinkled when necessary for their maintenance, and to prevent excessive dust. Over 5,900,000 gallons of water was used in such sprinkling.

In the maintenance of the unpaved streets and roads under the charge of the Bureau, repairs were made on over 30 different streets and avenues.

BUREAU OF LAMPS AND GAS.

On September 30, 1886, the following public lamps were in use on the streets, avenues, parks, bridges and docks of the city, viz. :

23,908 gas-lamps.

- 711 electric-lights.
- 120 naphtha-lamps.

24,739 public lamps.

During the quarter 260 additional gas-lamps were erected and lighted ; 98 old gas-lamps were relighted, and 72 gas-lamps were discontinued, being a net increase of 286 lamps, and making a total of 25,025 public lamps in use at the close of the quarter.

For the year 1886, the Department paid for gas supplied to public buildings and offices under contracts with the gas companies, at the rate of \$1.50 per 1,000 cubic feet to the Consolidated Gas Company and \$1.40 per 1,000 cubic feet to the Equitable Gas Company. Under the contracts made in December for the year 1887, the price of gas supplied to all public buildings and offices is \$1.25 per 1,000 cubic feet.

BUREAU OF REPAIRS AND SUPPLIES.

The principal items of work done in the care and repair of public buildings are as follows :

New Court-house.

Placing 20 new doors and locks on closets in the County Clerk's Office ; placing new steam radiators and fixtures in the searchers' room ; furnishing new window shades in new court-rooms ; repairing the passenger elevator.

The City Hall.

Repairing the roof, chimney-tops and flues ; draping the main entrance of the building and the chamber of the Board of Aldermen on the occasion of the funeral obsequies of the late President Arthur ; placing electric connections in several rooms of the District Attorney's Office ; repairing the plastering in the Grand Jury Room and the General Sessions Court-room ; repairing the gasfixtures and heating apparatus in the offices of the Receiver of Taxes.

No. 31 Chambers Street.

Building new closets for books and documents, and placing new ventilators in the office of the Engineer in Charge of Sewers.

Offices of the Finance Department.

Furnishing a new safe for the Auditor's Office ; placing new ventilators in the City Paymaster's Office ; placing new gas-fixtures in several other rooms, Civil and Police Courts ; repairing furnaces and heating apparatus in the Third and Fifth District Police Courts ; repairing plumbing work in Sixth District Police Court ; repairing roof, gutters and leaders in First District Civil Court.

BUREAU OF WATER REGISTER.

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

For penalties on water rents 7,707 60 For permits to tap water-pipes 4,100 00

MISCELLANEOUS REVENUE.

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

| For vault permits | \$13,138 | 68 |
|---|----------|----|
| For sewer permits | 8,200 | 44 |
| For redemption of articles seized as obstructions | 496 | 58 |
| For articles sold at auction | 109 | 94 |
| For rent of steam rollers | 51 | 00 |
| For work and materials furnished to citizens | 177 | 23 |
| - Total | \$22.173 | 87 |

REVIEW OF THE OPERATIONS OF THE DEPARTMENT FOR THE YEAR 1886.

SUMMARY OF EXPENDITURES.

| On Appropriation Account for 1886 | \$2,175,144 | 57 |
|--|-------------|----|
| On Fund for Local Improvements | 591,409 | |
| On Croton Water Fund | 243,488 | II |
| On Revenue Bonds for Water-meters | | 71 |
| On Special Fund for Restoring Pavements over Street Openings | 32,658 | 22 |
| Estimated liabilities, including all outstanding accounts against appropriations for | | |
| 1884 | 464,543 | 93 |
| | | - |

Total \$3,514,915 31

Of the above liabilities \$244,158.32 is on the unfinished contract for repaying Fifth avenue, and the remainder on other unpaid and unfinished contracts and orders.

Expenditures for the Past Sixteen Years.

| For the year | 1871 | \$8,727,085 97 |
|--------------|------|----------------|
| ** | 1872 | 5,826,113 67 |
| ** | 1873 | 7,754,454 88 |
| | 1874 | 7,534,590 22 |
| ** | 1875 | 5,929,814 49 |
| ** | 1876 | 4,374,860 73 |
| ** | 1877 | 3,113,789 43 |
| ** | 1878 | 2,835,086 23 |
| ** | 1879 | 2,347,577 64 |
| ** | 1880 | 3,028,848 39 |
| ** | 1881 | 3,647,947 11 |
| . ** | 1882 | 5,014,999 91 |
| ** | 1883 | 4,725,143 90 |
| ** | 1884 | 4,643,546 20 |
| ** | 1885 | 3,791,288 10 |
| | 1886 | 3,514,915 31 |

SUMMARY STATEMENT OF CONTRACTS FOR THE YEAR 1886.

Contracts Entered Into.

| 49 | sewer contracts, estimated cost | \$363,026 39 | |
|----|--|---------------|----|
| 41 | regulating and grading contracts, estimated cost | 477,114 14 | |
| 51 | paving contracts, estimated cost | 757,306 00 | j. |
| 6 | water-pipe contracts, estimated cost | 110,559 20 | , |
| 2 | gas contracts, estimated cost | 32,150 00 | , |
| 47 | miscellaneous contracts, estimated cost | 86,225 76 | k. |
| | | | |
| 6 | and the set of the set of the set | er 806 a81 10 | |

196 contracts, estimated cost...... \$1,826,381 49

Contracts Completed.

| 18 | sewer contracts, actual cost | \$157,693 28 |
|----|---|----------------|
| | regulating and grading contracts, actual cost | 829,603 49 |
| 22 | paving contracts, actual cost | 205,328 05 |
| 3 | water-pipe contracts, actual cost | 25,462 52 |
| 32 | miscellaneous contracts, actual cost | 95,295 00 |
| | contracts, actual cost | \$1 313 a8a 34 |
| 91 | contracts, actual cost | \$1,313,302 34 |

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Markets.

Altering the stairways and sky-lights in Washington Markets; repairing Vesey Street Pier in Washington Market ; repairing and glazing the windows in Catharine Market ; repairing the roof, drain pipes and plumbing work in Tompkins Market, and placing two new iron smoke pipes ; making extensive repairs on roof, walls, flooring and windows of Clinton Market.

Armories.

Miscellaneous repairs to plumbing work, gas-fixtures, heating apparatus, etc., were made in the armories of the Seventh, Eleventh and Sixty-ninth Regiments.

BUREAU OF INCUMBRANCES.

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

- 205 complaints of obstructions received and attended to.
- 446 seizures and removals of obstructions made.
- 1,353 cart-loads of dirt, stone and other refuse material removed from the streets.
- 88 decayed or dangerous shade trees removed.
- 1,340 permits issued to place building material on streets.
 - 17 permits issued to cut down shade trees.
- 173 miscellaneous permits issued.

THE WATER SUPPLY.

The Croton Water-shed.

The average rain-fall in the Croton water-shed for the year 1886, as shown by the records kept at the Boyd's Corner Reservoir, and at the Croton Dam, was 49.88 inches. Records of rain-fall have been kept by the Department, and its predecessor, the Croton Aqueduct Department, at the Boyd's Corner Reservoir since 1866, as shown by a table in the report of the Chief Engineer of the Croton Aqueduct, Document D, hereto annexed. From this it appears that the average rain-fall for the twenty-one years was 46 80-100 inches per annum, the lowest being 38.52 inches in 1880, and the highest 52.20 in 1882. Though, as thus shown, the rain-fall for 1886 was 3.08 inches above the average, there were days when the natural flow of the Croton river was below the volume required to be constantly supplied and passed through the Aqueduct, and had to be supplemented by drafts upon the two storage reservoirs, and upon five of the natural lakes which are tributary to the City's water supply. The total quantity of stored water drawn is 5,270,000,000 gallons, of which the two storage reservoirs supplied 4,090,000,000 gallons, and the natural lakes 1,180,000,000 gallons.

Bronx River Water-shed.

The Department keeps a rain gauge in this water-shed at the Kensico Reservoir, which shows a rain-fall of 43.84 inches in 1886. The water-shed of the Bronx river, above the point where the water is drawn off for the City's supply, is 131/3 square miles. The average daily supply received in the City from the Bronx river during 1886 is 14,274,000 gallons, or more than 107,000 gallons per square mile of water-shed. The City now receives from the Croton river, through the present

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Aqueduct, about 30,000 gallons per day for each square mile of water-shed. All that is necessary to obtain from the Croton river the same proportion of supply as from the Bronx, which would be 362,000,000 gallons per day, is to increase the storage capacity and the conduit capacity to the required proportions. The latter will be had when the New Aqueduct is finished. The storage capacity of the Rye Ponds Reservoir and the Kensico Reservoir on the Bronx river is 2,670,000,000 gallons, for $13\frac{1}{3}$ square miles of water-shed, while the present storage capacity in the 338 square miles of the Croton water-shed is 9,000,000, including all the natural lakes and ponds which are available.

The amount expended on the Bronx river system during the past year for labor, materials, lands, water rights, etc., is \$159,847.73.

The total cost of the structures and property connected with the system to date is :

| Construction work | \$2,402,959 98 |
|-----------------------------------|----------------|
| Lands, water rights, damages, etc | 642,212 81 |
| Engineering and inspection. | |
| Total | \$3,207,638 70 |

The legal proceedings to determine the damages to be paid to owners of water rights below Bronxville are not yet concluded.

The work on the construction of the receiving and distributing reservoirs at Williamsbridge has been suspended for the winter season.

The Croton Aqueduct.

The condition of the structure has been improved during the past year by completing the reinforcement of the retaining walls and the top arch on all the embankments north of Yonkers, but a large amount of work remains to be done from that point southward to render the Aqueduct secure against leaks and breaks. On July 11, 1886, a large break in the structure occurred one mile below South Yonkers. It was above the spring-line of the arch, so that in making the repairs it was not necessary to close the Aqueduct, but only to reduce the depth of water to six inches below the spring-line. The repairs were completed on July 14, and the Aqueduct was again operated to its full capacity.

The stone work for the stairway leading from the low ground, on the north shore of Harlem river to the top of the bluff at High Bridge, has been finished.

Distribution and Consumption of Water.

During the year the water service was extended by laying 24.52 miles of twelve-inch and sixsuch pipes in 114 different streets or locations. With these pipes 185 stop-cocks and 252 firehydrants were placed. The distributing system now comprises 604.422 miles of pipes, with 6,284 stop-cocks and 7,833 fire-hydrants.

The constant and rapid growth of the population and business of the city causes a corresponding increase in the legitimate and necessary consumption of water, aside from the waste through leaks in mains, service-pipes and house plumbing, and through lavish use of water. This naturally produces a corresponding decrease of the pressures in the distribution of the water through the mains, and the people have to submit to the inconvenience and discomfort thus caused.

The portions of the city most seriously affected by this are the high service district and the high grounds contiguous to it, and the lower or commercial part of the city. In the latter the loss of pressure is not so severely felt, because nearly every building is supplied with mechanical appliances to pump and raise the water to the desired elevation. Most of the innumerable complaints received by the Department comes from dwellings and tenements where the decrease of pressures causes the diminution of domestic conveniences and comforts, which in many cases might safely be termed luxuries. It would, indeed, be well if the City were able to continue or resume the supply of these comforts and luxuries, not only for the gratification of individuals, but because an abundant supply and pressure of water is one of the most effective agents for the protection of the public health, and the safety of life and property from fire. Further decrease of pressure in the delivery of the water during the years which will intervene before an additional supply is received through the New Aqueduct is unavoidable.

In the meantime it is the duty of this Department, and of the authorities to whom it has to look for authority and means, to provide and use every practical measure to suppress waste of water, and it is equally the duty of every citizen and resident of the city to use the water with proper care and economy.

The greatest difficulty which the Department has to deal with, in the management and distribution of the water supply, is the persistent and pernicious habit indulged in by consumers in each recurring winter season of allowing the water to run through the faucets in house day and night, to prevent freezing in the service-pipes, instead of using other proper means, at their own expense, to protect their service-pipes from frost. This practice is unjust and dishonest to the public at large, and especially to the consumers who are sufficiently conscientious and careful in the use of water to refrain from unnecessary waste. If this waste should continue to the same or even a lesser extent, the pressures in the delivery of water through the mains will soon be so much reduced that in a large portion of the city it will be impossible to deliver the water even in the basements or cellars of houses. The danger and injury to the health and convenience of the public, to business interests and to the safety of life and property from fire, which would result in such case, are beyond estimate. During the year 902 additional water-meters were placed, making 14,582 meters in use at the

close of the year.

The meters and the consumption of water through them are distributed as follows, exclusive of 482 meters on which no readings have yet been recorded :

| | THO. OI MICLOID. | Ownona per Dienn |
|-------------------------|---|------------------|
| Hotels | 353 | 1,692,600 |
| Breweries, etc | 336 | 1,694,700 |
| Charitable institutions | 103 | 408,000 |
| Office buildings | 1,860 | 1,810,000 |
| Factories | 840 | 2,303,000 |
| Gas-works | 43 | 800,700 |
| Railroads | | 1,342,000 |
| Stables | and the second se | 1,141,000 |
| Apartment-houses | 154 | 323,000 |
| Docks | 131 | 1,444,800 |
| Miscellaneous | 8,368 | 10,146,300 |
| Totals | 14,100 | 23,106,100 |
| | | |

In consequence of the rapid growth in the number of buildings and in the population of the high service district, it has become necessary to increase the quantity of water pumped and distributed from 12,400,000 gallons per day in 1885 to 13,500,000 gallons per day in 1886. Neither the condition of the water supply, nor the capacity of the pumping engines, warrant any further increase. Since 1881 the number of buildings supplied through the high service has increased from 8,607 to 12,249, but there is no doubt that the ratio of increase in population is still greater, because a large proportion of the new buildings are large apartment-houses, some of which contain more population than an entire block of ordinary dwellings. Many large stables have also been built here within the past few years. The average pressures in the high service supply are now no higher than in other portions of the city, and on the highest ground the water cannot be delivered above the cellars or basements. Under these circumstances it is impossible to further extend the high service ; yet

some applicants for this service, who live on the borders of the district, think it a hardship or injustice to have their applications denied.

Surveys for the New Aqueduct.

The following surveys, maps, plans and specifications have been furnished to the Aqueduct Commissioners by this Department during the year 1886 :

Surveys, maps, plans and specifications for the double Reservoir I in the Town of South East, Putnam County.

Maps of lands required south of One Hundred and Thirty-fifth street, and plans and estimates for gate-house at One Hundred and Thirty-fifth street. Maps, plans, specifications and estimates for conduit pipes and gate-house, from One Hundred

and Thirty-fifth street to the Central Park Reservoir. Maps, plans, etc., for additional land required south of Harlem river, and for connections with

high service works at High Bridge. Maps of lands for additional shafts in Westchester County.

Surveys and maps of lands taken for Aqueduct purposes in Westchester County.

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STREET PAVEMENTS.

Repavement of Streets.

During the year 42,507 square yards of granite block pavements, 31,988 square yards of trapblock pavement and 2,261 square yards of asphalt pavement were laid in 26 different streets, the aggregate length of the new pavements being 4.95 miles. This is exclusive of the Fifth avenue repavement.

On Fifth avenue 54,069 square yards of pavement was laid. The new pavement is completed between Twenty-fifth and Thirty-second streets, between Thirty-seventh and Sixty-first streets, and between Seventy-fifth and Ninetieth streets, a total of 46 blocks of the 78 blocks to be laid. As stated in a previous part of this report, the actual work of laying pavement is suspended during the cold weather, but stone-blocks continue to be received and inspected on the line of the work.

New Pavements to be Paid for by Assessments.

New pavements were laid on 9 different streets. The aggregate length of the roadways so paved is 1.29 miles, and the area 22.486 square yards.

Twenty-four contracts for new pavements to be paid for by assessments have been made, but the works are postponed until the close of the winter season.

Repairs of Pavements.

The force employed by the Department in pavement repairs relaid 234,249 square yards of pavement and 714 crosswalks. The repairs also include the laying of 29 new crosswalks.

The report of the Water Purveyor, Document "E," enumerates 7 streets in which entire blocks of pavement were relaid from curb to curb, and 281 other streets and locations in which repairs of lesser extent were made. Eighty-one permits were issued to citizens to repair pavements at their own expense.

| The following is the length of paved streets in the city south of Harlem river : | | |
|--|--------|--------|
| ranite-block pavement | 73.40 | miles. |
| 'rap-block pavement | 236.25 | ** |
| obble-stone pavement | 26.29 | |
| lacadam pavement | 27.77 | ** |
| sphalt pavement | .78 | ** |
| - | | |

Total 364.49 miles.

SEWERAGE AND DRAINAGE.

During the year 18 sewer contracts were completed and $4,889\frac{1}{2}$ lineal feet of sewers were built by property-owners at their own expense, under permits from this Department. The total length of sewer thus added to the sewerage system is $3\frac{3}{4}$ miles, with 789 lineal feet of culverts and 42receiving-basins. Contracts for 4.6 miles of sewers are uncompleted.

The most important works finished in 1886 are the outlet sewers in Eighth avenue, between One Hundred and Fifty-third street and Harlem river, draining about 25 acres; sewer in Eighth avenue, between One Hundred and Fifth and One Hundred and Fourteenth streets, and sewers in Tenth avenue, between One Hundred and Sixty-second and One Hundred and Fifty-third streets. The latter sewer is a very important one, draining about 80 acres of land recently opened to improvements by the construction of the cable road on Tenth avenue. No outlet for this sewer to the Harlem river can be built until the Department receives authority from the Legislature to acquire private property through which to build the outlet. Two important outlets, one at the foot of Rector street, North river, and the other at the foot of Roosevelt street, East river, have, after long delays, been put under contract, and the work upon them will be prosecuted as rapidly as practicable.

The sewerage system of Manhattan Island now includes 414.1 miles of sewers of all sizes. Of these about 50 miles are outlets and collective sewers, and the remainder are branch or lateral sewers. The total number of receiving-basins is 5,077.

For all that portion of the city south of One Hundred and Fifty-eighth street the plans for a permanent sewerage system are established, and the principal work remaining to be done is the building of branch sewers for local drainage. The area of Manhattan Island, taking the new bulkhead lines as the boundary, is 12,500 acres, or about 19½ square miles, of which 9,500 acres are provided with sewerage. The present sewerage system has 154 outlets discharging into the adjacent waters. Nearly all these outlets discharge at low-water line, at or near the bulkhead, where the water is stagnant, and the large volumes of sewage settle and pollute the water and the atmosphere. For this reason the principal improvement required in the City's sewerage system is a chain of collective sewers along the water-front, with fewer outlets, which are to be extended to the pier lines into the tidal currents, where the sewage will be carried off and diffused so as to become harmless. The cost of carrying out this plan along the entire water-front will be very great, but will be amply repaid by the sanitary and other advantages which will be derived from it. The locations where and Perry streets, and along the North river on West street, from Battery place to Liberty street, and on Twelfth avenue, between Fifty-third and Sixty-second streets.

No sewerage plans have yet been made for that part of Manhattan Island, north of One Hundred and Fifty-eighth street. As this section of the city will probably soon become improved and populated, it will be the duty of this Department to make the necessary surveys and plans for sewerage.

The greater portion of the work of repairing and cleaning sewers is done by a trained and experienced force of mechanics and laborers, with the necessary number of carts, employed by the Department. A large amount of work, however, was done last year under contracts or on orders given to contractors.

During the year 76,919 lineal feet of sewers were cleaned (14½ miles), and 2,441 receiving-basins were cleaned. The work of cleaning sewers, from its very nature, is expensive as compared with the length of sewers cleaned and the quantity of material removed. In cleaning brick sewers the deposit must be removed and carried long distances underground by hand and small buckets, then hoisted to the surface and carted to dumping scows along the water-front.

THE CITY RECORD.

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The following are the principal items of work done in cleaning and repairing sewers : 422 lineal feet sewers rebuilt.

3,473 lineal feet sewers repaired.

429 lineal feet culverts rebuilt.

406 lineal feet spur pipe laid.

190 lineal feet of box-sewers built.

2 new receiving-basins built.

5 receiving-basins rebuilt.

- 206 receiving-basins repaired. 8 new manholes built.
- 463 manholes repaired.
- 63 new granite basin heads set.
- 139 new basin covers placed.
- 202 new manhole heads and 520 covers placed.

1,976 square yards of pavement relaid.

- 1,684 square feet flagging relaid.
- 6,488 cubic yards of earth excavated and refilled.
- 2,441 receiving-basins and culverts cleaned.

76,919 lineal feet of sewers cleaned.

8,153 cart-loads of sewer deposits removed.

REGULATING AND GRADING STREETS.

During the year 14 contracts for regulating streets, 9 contracts for flagging sidewalks and 6 contracts for fencing vacant lots were completed. The aggregate cost of these contracts was \$835,524.98.

The most important works which have been finished are :

Morningside avenue, from One Hundred and Tenth street to Tenth avenue.

Kingsbridge road, between One Hundred and Fifty-fifth and One Hundred and Ninetieth streets.

West End avenue, from Seventy-second street to the Boulevard. Eleventh avenue, from Kingsbridge road to Dyckman street.

Ninety-third street, from West End avenue to Riverside Drive.

At the close of the year work was in progress on 21 grading contracts and 13 contracts were suspended for the winter season. The aggregate quantities of work done on the several contracts for the year are as follows:

67,388 cubic yards earth excated.

141,455 cubic yards rock excavated.

154,085 cubic yards filling, placed in embankments.

31,395 lineal feet curb-stone set.

159,799 square feet flagging laid.

2,877 lineal feet culverts built.

2,375 cubic yards stone masonry built.

1,153 lineal feet picket-fence built.

MACADAM ROADWAYS.

The macadam roadways in the upper part of the city under the charge of this Department are 2734 miles in length, and cover an area of 958,638 square yards. At least four-fifths of these roads were built from ten to fifteen years ago. They were originally intended for light, pleasure and suburban traffic, but of late years they have been subject to heavy business traffic as other stone paved streets. They are in nowise adapted for this business traffic, which is increasing rapidly with the growth of population and business in the upper part of the city. I am informed that the condition of these roadways at the close of last year compares favorably with their condition in some years past, but from personal observation I find that they are too much worn down, especially in the centre, so that surface drainage is impossible, and rain water accumulates and stagnates. When these roads are not kept in good order they become a nuisance and annoyance to the people who travel over them as well as to those who are living in their vicinity. The portion of the city in which they are located is no longer a suburban district, being rapidly filled up with buildings and population. With the growth of population and business, the necessity for prompt and substantial repairs increases. It shall be the endeavor of the Department in the ensuing year to apply the means appropriated for the repairs and maintenance of these roads to the best possible advantage and purpose.

PUBLIC LAMPS.

At the close of the year there were 24,194 gas lamps, 711 electric lights and 120 naphtha lamps in use on the streets, parks, docks and bridges of the city. Of these, 650 new gas lamps, 3 electric lights and 70 naphtha lamps were placed in the course of the year. The streets to which public lamps have been extended during the year are $1\frac{1}{3}$ miles in length. The total length of streets lighted by public lamps is 464 miles, and the area of parks and public places lighted is 42 acres. The several gas companies laid 36.65 miles of gas-mains, and the present total extent of gas-mains in the city is 927 $\frac{1}{2}$ miles. In the report of the Superintendent of Lamps and Gas, Document I, will be found a list of streets or parts of streets and public places in which an extension of electric lights is requested by resolutions of the Common Council, with the estimated number of lights required, the cost of the same, the number of gas lamps which would be displaced by the same, and the excess of cost of such electric lights over that of gas lamps. This excess of cost amounts to \$446,299 per annum. The authority to extend the electric light to additional streets is vested in the Gas Commission. Miscellaneous Buildings.

Franklin Market, rented for business purposes.

No. 49 Beekman street, occupied by the Corporation Attorney.

No. 5 Duane street, used for storage by Public Administrator.

Nos. 61 and 63 Chatham street or Park Row, rented for business purposes.

The Dog Pound, foot of East Sixteenth street.

In addition to the above the Department has the care of twenty-two buildings or parts of buildings, which are rented by the City for Civil and Police Courts, for armories of the State militia, and for various public offices.

Some of the buildings, such as the Hall of Records, Clinton Market, and the old Franklin Market building, are so dilapidated that if they were private property the owners would undoubtedly find it to their interest and, by the erection of new buildings, make better use of the valuable ground which they occupy.

The cost of repairs to keep such old buildings in tenantable condition is very great. All the other buildings, of which only a few are of recent construction, require frequent repairs. The details of this work for the year will be found in the several quarterly reports.

It is to be hoped that the contemplated construction of market buildings on the Fort Gansevoort property, under the authority of the Sinking Fund Commissioners, will soon be begun and carried out, that the business now done in West Washington Market may be transferred there, and the valuable space and water-front now occupied by that market be made available for commerce.

STREET OBSTRUCTIONS.

Section 324 of the New York City Consolidation Act of 1882 says :

"It shall be the duty of the Commissioner of Public Works to remove all obstructions now existing, or which may hereafter be placed upon any street or sidewalk, or public ground not inclosed in any public park."

This is a difficult duty under any circumstances with the inadequate appropriation for that purpose; the conflict of authority between the legislative and executive branches of the City government on the subject of certain obstructions and incumbrances; the absence of proper penalties for violations of the law and ordinances, and the indifference of the Police Force in respect to such violations, it can only be very imperfectly and partially performed.

The obstructions which are most frequently complained of are unused vehicles left standing in the streets, and building materials placed in front of buildings in course of construction.

In many, probably in a majority of cases, where vehicles are removed by their owners on notice from the Department, they are returned to their old places after the Inspector has made his visit and report.

The temporary deposit of building materials in front of buildings in course of erection is specially allowed by the City ordinance, under which this Department issues yearly from 7,000 to 9,000 permits to builders. The space allowed by these permits for the placing of material is 7 feet from the curb outward on the front of the building, but the cases in which these limits are observed by the holders of the permits are probably less than 10 per cent. of the whole number. It is evident that with the three or four Inspectors of Incumbrances which the appropriation allows the Department to employ to look after all kinds of obstructions in over 400 miles of streets, the Department is powerless to prevent these evils.

Very little improvement can be effected in the matter of street obstructions, until the law or ordinance shall prescribe in detail and with precision, what constitutes an obstruction, so that there may be no room for difference of opinion on the subject; and until fines or penalties are established, with power to enforce them by immediate and summary measures.

The following is a summary of the operations of the Bureau of Incumbrances for the year :

- 947 complaints received and attended to.
- 1,459 seizures and removals of obstructions made.
- 1,683 cart loads of stone and other refuse removed.
- 267 dangerous shade trees removed.
- 7.014 permits issued to place building material on streets. 46 permits issued to cut down shade trees.
- 858 miscellaneous permits issued.
- 68 notices issued to repair defective sidewalks.
- 11 notices issued to repair defective vault covers.

and the second se

CITY REVENUE.

The following is the amount of revenue from the water service collected by the Department, and paid into the City Treasury during the year :

| For water rents | \$2,328,303 | 46 |
|--------------------------------|-------------|----|
| For penalties on water rents | 15,489 | 15 |
| For permits to tap water pipes | 14,328 | 50 |
| | | - |

This is an increase of \$223,445.28 over the amount collected in 1885.

The Department also collected from various sources, and paid into the City Treasury, the folving amounts :

| lowing amounts : | | |
|---|--------------|---|
| For vault permits | \$70,349 5 | 5 |
| For sewer permits | 34,427 6 | I |
| For redemption of articles seized as obstructions | 1,806 5 | 3 |
| For articles sold at auction | 639 8 | 8 |
| For rent of steam rollers | 228 7 | 5 |
| For work and materials furnished citizens | 365 6 | 2 |
| For use of sprinkling wagons | 107 0 | o |
| | \$107,924 94 | 4 |

PUBLIC BUILDINGS.

The following buildings, owned by the City, are under the care of this Department :

Court and Municipal Buildings.

The City Hall. The New Court-house. The Brown-stone Court-house. The Hall of Records. The Third District Court-house (Jefferson Market). The Seventh District Court-house, Fifty-seventh street, near Third avenue. The Fifth District Court-house, No. 154 Clinton street. The Third District Police Court-house, No. 69 Essex street. The City Arsenal, at White and Elm streets. The County Jail, in Ludlow street.

Market Buildings.

Washington Market. Fulton Market. Jefferson Market. Clinton Market. Tompkins Market. West Washington Market. Catharine Market. Centre Market. Essex Market. Union Market. The following documents, appended to this report, contain further detailed information of the transactions of the Department :

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

Very respectfully,

JOHN NEWTON, Commissioner of Public Works.

FEBRUARY II, 1887.

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THE CITY RECORD.

Document "A."

Showing Titles of Appropriations; Balances of 1885 on October 1, 1886; Requisitions on 1885 in Fourth Quarter of 1886, together with Transfers; Balances of 1885 on December 31, 1886; Appropriations, including Transfers of 1886; Requisitions, First Nine Months of 1886; Requisitions, Fourth Quarter, 1886; Total Requisitions of 1886; Balances on December 31, 1886; and the Titles and Conditions of the Trust and Special Accounts.

| TITLES OF APPROPRIATIONS. | Balances of 1885 on October 1, 1886. | Transfers and Requisitions on 1885, Fourth Quarter, 1886. | Balances of 1885 on December 31, 1886. | Appropriations, including Transfers of 1886. | Requisitions, First Nine Months, 1886. | Requisitions, Fourth Quarter of 1886. | Total Requisitions for 1886. | Balances on December 31, 1886, Crediting Vouchers Returned. |
|--|--|---|--|---|--|---|------------------------------------|---|
| Aqueduct-Repairs, Maintenance and Strengthening | \$445 38 | \$445 38 | | \$225,000 00 | \$121,321 57 | \$55,144 79 | \$176,466 36 | \$48,533 64 |
| Aqueduct-Repairs, Maintenance and Strengthening-Salaries | IC | 10 | | 25,000 00 | 16,877 56 | 7,033 21 | 23.910 77 | 1,089 23 |
| Boring Examinations for Grading and Sewer Contracts | | | | 10,000 00 | 1,705 12 | 2,091 04 | 3,797 16 | 6,202 84 |
| Boulevards, Roads and Avenues, Maintenance of | 892 81 | 802 81 | \$90 CO | 80,000 00 | 52,850 72 | 22,812 61 | 75,663 33 | 4,336 67 |
| Boulevards, Roads and Avenues, Maintenance of-Salaries | 5 00 | 5 00 | | | | | | · ···· |
| Bronx River Works-Maintenance and Repairs | | 216 54 | | 17,990 00 | 9,423 80 | 5,920 93 | 15,344 73 | 2,645 27 |
| Bronx River Works—Maintenance and Repairs—Salaries Contingencies—Department of Public Works | 100 00 | 100 00 | | 3,650 00 | 2,200 00 | 1,250 00 | 3,450 00 | 200 00 |
| Flagging Sidewalks and Fencing Vacant Lots, etc | 215 E9 3 12 | 214 99 | 70 | 4,000 00 | 1,930 24 | 1,110 02 668 07 | 3,040 26 788 59 | 959 7 |
| For an Iron Awning around Jefferson Market Building | 43 00 | 3 12 43 CO | | 1,000 00 | 113 62 | | | 211 41 |
| For Additions to the Brown-stone Building | 43 05 | 43 00 | | 35,000 CO | 425 co | | 425 00 | 24 875 0 |
| For Repairs and Alterations on Essex Market Court-house | 159 07 | 159 07 | | | 425 00 | | 425 00 | 34,575 00 |
| For Repairs on Essex Market Building | 86 64 | 86 64 | | | | | | |
| For Repairs to Seventh Regiment Armory Building | | | | 3 000 00 | 1,254 83 | 929 00 | 2,183 83 | 816 1 |
| For Street Signs on Buildings and Public Lamps | | | | 5,000 00 | 1,045 00 | 929 50 | 1,974 50 | 3,025 50 |
| Free Floating Baths | | I 58 | | 15,000 00 | 11,953 39 | 2,409 91 | 14,363 30 | 636 70 |
| Free Floating Baths-Salaries | | I CO | | 20,000 00 | 12,198 00 | 6,437 50 | 18,635 50 | 1,364 50 |
| Lamps and Gas and Electric Lighting | 28 79 | 28 79 | | 714,300 00 | 416,956 53 | 236,041 96 | 652,998 49 | 61,301 5 |
| Lamps and Gas and Electric Lighting—Salaries | 316 72 | 316 72 | | 5,400 00 | 3,516 63 | 1,515 12 | 5,031 75 | 368 2 |
| Laying Croton Pipes | 8,106 23 | 6,385 19 | 1,721 04 | 186,000 00 | 3,516 63 78,269 58 | 77,402 34 | 155,671 92 | 30,328 0 |
| Laying Croton Pipes—Salaries | 2 84 | 2 84 | | 16,500 00 | 10,451 47 | 5,437 40 | 15,888 87 | 611 1 |
| Public Buildings—Construction and Repairs | | 18 32 | 150 00 | 68,100 00 | 45,273 53 | 11,501 63 | 56.775 16 | 11,324 8. |
| Public Drinking-hydrants | | 57 20 | | 5,000 CO | 1,954 02 | 772 91 | 2,726 93 | 2,273 0 |
| Public Drinking-hydrants-Salaries | | | | 1, 00 00 | 631 69 | 333 32 | 965 OI | 34 99 |
| Removing Obstructions in Streets and Avenues | | | | 6,884 00 | 2,414 77 | 2,089 77 | 4,504 54 | 2,379 4 |
| Removing Obstructions in Streets and Avenues-Salaries | | c8 | | 3,116 00 | 1,784 09 | 1,166 88 | 2,950 97 | 105 0 |
| Repairing and Renewal of Pipes, Stop-cocks, etc | | 77 02 | | 139,500 co | 98,391 14 | 31,534 87 | 129,926 01 | 9,573 9 |
| Repairing and Renewal of Pipes, Stop-cocks, etcSalaries | 4 40 | 4 40 | | 43,100 00 | 28,228 54 | 14,868 54 | 43,097 48 | 2 5 |
| Repairs and Renewal of Pavements and Regrading | 82 25 | 82 25 | | 219.500 00 | 90,748 57 | 104,277 49 | 195,026 06 | 24,473 9 |
| Repairs and Renewal of Pavements and Regrading-Salaries | 113 01 | 113 01 | | 11,300 00 | 6,039 50 | 3,111 00 | 9.150 50 | 2,149 5 |
| Repaying Fifth Avenue | | * 150,000 00 | | 294,000 00 | 1,873 53 | 38,517 18 | * 40,390 71 | 253,609 2 |
| Repaying Streets and Avenues | | 539 80 2,010 00 | 779 57 | 204,500 00 6,600 co | 50,764 55 1,308 00 | 66,431 09 1,116 00 | 157,195 64 | 47,304 3 |
| Roads, Streets and Avenues Unpaved, Maintenance and Sprinkling. | | 68 30 | | 25,000 00 | 17,629 01 | 6,889 50 | 2,424 00 | 4,176 0 |
| Salaries—Department of Public Works | | 26 56 | | 85,000 00 | 61,027 15 | 23,909 08 | 24,518 51 84,936 23 | 481 4 63 7 |
| Sewers—Repairing and Cleaning | | 13 54 | | 110,000 00 | 69,269 83 | 19,973 84 | 89,243 67 | 20,756 3 |
| Sewers—Repairing and Cleaning—Salaries | | 1 52 | | 0,000 00 | 5,564 00 | 2,625 35 | 8,189 35 | 810 6 |
| Sewerage System—Salaries | | 46 | | 15,000 00 | 8,511 68 | 3,564 97 | 12,076 65 | 2,923 3 |
| Street Improvements-For Surveying, Monumenting, etc | | 130 00 | 780 00 | 3,000 00 | 1,161 60 | 406 50 | 1,568 10 | 1,431 9 |
| Supplies for and Cleaning Public Offices | 1,230 44 | . 371 09 | 859 35 | 100,800 00 | 63,019 19 | 28,213 49 | 91,232 68 | 9,567 3 |
| Supplies for and Cleaning Public Offices-Salaries | | 19 58 | | 25,000 00 | 10,318 76 | 7,764 75 | 24,083 51 | 916 40 |
| Surveys, Maps, etc., for Street Openings and New Streets | 06 | 06 | | 14,200 00 | 5,021 06 | 1,300 00 | 6,321 06 | 7,878 94 |
| Supplying Water to Shipping, etc.—Salaries | 50 | 50 | | 9,000 00 | 5,535 46 | 2,988 96 | 8,524 42 | 475 58 |
| Water Supply for the Twenty-fourth Ward | 663 92 | 663 92 | | 5,000 00 | 2,891 06 | 1,187 46 | 4,078 52 | 921 48 |
| Water Supply for the Twenty-fourth Ward-Salaries | | | | 1,000 00 | 615 00 | 309 00 | 924 00 | 76 oc |
| Wells and Pumps-Repairing and Cleaning. | 224 25 | 224 25 | | 250 00 | | | | 250 00 |
| Gansevoort Market Building Fund | | | | 4,600 50 | | 4,680 50 | 4,680 50 | |
| Totals | \$167,615 38 | \$163,234 72 | \$4,380 60 | \$2,776,370 50 | \$1,368,476 19 | \$806,668 38 | \$2,175,144 57 | \$601,225 93 |

Amount drawn on Street Improvements for Surveying, etc., of 1884, \$800; same year, on Iron Bridge over Fourth avenue, at Eighty-sixth street, \$5,349.23. * Adjustment of Repaving Fifth Avenue Account as to charges between the years 1885 and 1886.

| TITLES OF TRUST ACCOUNTS. | Balances from 1885, and Receipts, First Nine Months, 1886. | Receipts, Fourth Quarter, 1886. | Total Balances of 1885 and Receipts for 1886. | Requisitions, First Nine Months, 1886. | Requisitions, Fourth Quarter, 1886. | Total Requisitions for 1886. | Balances, December 31, 1886. |
|---|--|------------------------------------|--|---|--|---|------------------------------------|
| Croton Water Fund. Fund for Local Improvements Restoring and Repaving—Special Fund—Department of Public Works Water Meter Fund, No. 2. | \$34,977 86 | \$8,839 50 541 28 | \$42,817 36 33,498 48 | \$196,416 86 388,233 43 23,452 72 7,599 28 | \$47,071 25 203,176 34 9,205 50 71 43 | \$243,488 II 591,409 77 32,658 22 7,670 71 | \$10,159 14 25,827 77 |

Statement of General Bookkeeper, Department of Public Works, showing all Revenues of the City received through the Department of Public Works during the First Nine Months of 1886 during Fourth Quarter of 1886, and the Total for the Year.

| TOTAL FOR 1886. | Fourth Quarter, 1886. | FIRST NINE MONTHS, 1886. | Source of Revenue. | TOTAL FOR 1886. | FOURTH QUARTER, 1886. | FIRST NINE MONTHS, 1886. | Source of Revenue. |
|-----------------|--------------------------|-----------------------------|---|---|---|---|--|
| \$68 84 | | | MEM.—Receipts from Old Account during Third Quar- ter, 1886. | 14,328 50 | \$315,394 39 7,707 60 4,100 00 13,138 68 8,200 44 496 58 | \$2,012,909 07 7,781 55 10,228 50 57,210 87 26,227 17 1,309 95 | Water rents |
| | \$70,394 95 46,646 12 | | Water by meter measurement. | 34,427 61 1,806 53 639 88 228 75 365 62 107 00 | 109 94 51 00 177 23 | 529 94 177 75 188 39 107 00 | Work and material furnished citizens Use of sprinkling wagons |
| \$119,979 19 | 2,938 12 | | Meters and meter-setting | \$2,466,046 05 | \$349,375 86 | \$2,116,670 19 | Total |

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

| Document "B." | | Aqueduct—Repairs, Maintenance and Strengthening, 1885— Waste-weir at Yonkers. | |
|---|---------------------------|---|--------------------|
| | | Waste-weir at Yonkers | \$378 57 |
| A Detailed Statement of Expenditures for which Requisitions were drawn on the Comptro the Commissioner of Public Works, during the Quarter ending December 31, 1886. | ller by | Boring Examinations for Grading and Sewer Contracts— Pay-rolls | \$1,291 00 |
| APPROPRIATIONS. | | Sounding-rods One Hundred and Fifty-fifth street, between Eighth avenue and McComb's Dam | 35 34 |
| Aqueduct-Repairs, Maintenance and Strengthening | | Lane | 764 70 |
| Brick | 147 50 121 74 90 00 | | \$2,091 04 |
| | 55 00 | Boulevards, Roads and Avenues, Maintenance of- | |
| Cylinder oil | 99 50 115 00 | Horse-hire Lumber Paint. | \$180 00 12 88 |
| | 46 25 | Pay-rolls | 36 55 18 448 OI |
| Gas | 14 00 | Powder and fuse | 4 10 |

379

| Iorse-feed | 73 48 |
|-------------------|---------------|
| Ce | 23 89 |
| amber | 198 95 |
| Ianure | 43 75 |
| XII | 43 75 8 78 |
| Paint | 216 60 |
| Pay-rolls | 42,250 15 |
| Yipe | 22 50 |
| ump | 8 23 |
| Putting up stoves | 15 15 |
| owder and fuse | 19 50 |
| Rent of offices | 106 25 |
| Repairing engine | 705 83 |
| Rope | 62 78 |
| and | 590 00 |
| awdust | 50 00 |
| tone | 3,298 00 |
| upplies | 330 97 |
| 'axes | 755 15 |
| raveling expenses | 150 47 |
| Vood | 42 00 |
| | |
| Total | \$55,144 79 |

| Powder and fuse. |
|--|
| Repairing sprinklers |
| Rolling pavement |
| Sand |
| Stone and screenings |
| Supplies |
| Total |
| Bronx River Works—Maintenance and Repairing— |
| Building road |
| Lumber |
| Pay-rolls |
| Taxes. |
| |
| Total |
| Contingencies—Department of Public Works— |
| Horse-hire |
| Incidental expenses |
| Postage |
| Traveling expenses |
| - Total |
| |

| Flagging | ewalks and Fencing Vacant Lots— Catharine Market County Jail | \$559 34 | 56 |
|---------------|--|--------------|----------|
| | Rivington street, between Goerck and Mangin streets | 75 \$658 | |
| | Total | \$050 | 97 |
| Free Floating | r Baths— re | \$100 | 00 |
| Ice | | 66 | |
| Mooring | baths | 110 | 00 03 |
| Repairin | up stoves. g pumps | 18 | 63 |
| | railings | | 56 |
| Removit | g platforms. | 11 | 50 |
| Storing | paths | 547 | 00 |
| Towing | hathe | 619 793 | |
| Wharfag | e | | - |
| | Total | \$2,409 | 91 |
| amps and (| as and Electric Lighting— ninations | \$479 | 00 |
| I amn a | ohes | 1,150 | 00 |
| Lamp-p | nete | 2,077 2,122 | 86 |
| Lamps . | pairing | 105 | |
| Lamp-p | osts renairing | 20 | 50 |
| Lettering | globes | 99 709 | |
| Repairin | g pressure register clock | 98 | |
| Rent of | offices | 240 | |
| Lighting | Armory, First Battery. "Second Battery | 44 94 | 2 |
| ** | " Seventh Regiment | 737 | 43 |
| " | " Eighth " | 196 249 | |
| | " Ninth " " Eleventh " | 87 | 50 |
| " | " Twelfth " | 213 | 08 |
| " | " Twenty-second Regiment Sixty-ninth | 592 191 | |
| " | "Seventy-first " | 170 | |
| •• | Bath, Battery | 20 | |
| ** | " Gouverneur Slip " Duane street | | 10 95 |
| ** | " Horatio street | 15 | 15 |
| ** | " Fifth street | | 20 |
| | Nineteenth street Twenty-seventh street | 11 21 | 55 |
| ** | " Thirty-seventh street | | 90 |
| ** | Fifiy-first street One Hundred and Twelfth street | | 90 50 |
| | " One Hundred and Thirty-eighth street | 18 | 50 |
| ** | Brown-stone Building | 120 | 15 |
| ** | City Hall CITY RECORD Book Bindery | 380 I | 45 28 |
| ** | County Iail | 285 | 74 |
| ** | Court, Civil, First District | | 07 80 |
| 44 | " Second " " Fourth " | | 18 |
| ** | " Fifth " | | 38 |
| ** | " Sixth " " Eighth " | | c6 55 |
| ** | " Ninth " | 10 | 40 |
| | " Tenth " | 267 | 13 |
| | Court, Police, First " Second " | | 78 |
| ** | " Third " | 36 | 12 |
| ** | " Fourth " Fifth " | 120 | 82 28 |
| ** | Court, Special Sessions | 5 | 85 |
| ** | Court-house, Third District | 133 1,046 | |
| | " County Department of Taxes and Assessments | | 32 73 |
| ** | " Public Works | 221 | 22 |
| ** | Engine-house, High Bridge "Ninety-eighth street | 72 141 | 85 |
| ** | Market, Catharine | 40 | 70 |
| ** | " Centre | | 87 |
| | " Clinton " Essex | | 12 |
| ** | " Fulton | 958 | 50 |
| ** | " Jefferson " Tompkins | 219 134 | |
| " | " Union | 0 | 70 |
| " | " Washington | 658 | 30 |
| ** | Office Corporation Attorney | 22 | 97 98 |
| ** | " Photometrical, | 5 | 28 |
| " | " Receiver of Taxes | 361 | 40 |
| ** | Rivington Street Yard Twenty-fourth Street Yard | | 63 |
| ** | Repair Shop, Thirtieth street | 9 | 40 |
| ** | " Eighty-third street | 5 | 23 |
| ** | " One Hundred and Twenty-ninth street | | 32 75 |
| ** | Streets, Brush Electric Illuminating Co | 29,379 | 00 |
| ** | " United States Illuminating Co | 30,790 | |
| " | " Consolidated Gas Co. | 22,634 | 48 |
| ** | " Equitable Gas light Co | 6,851 | 68 |
| 45 | " New York Mutual Gas light Co | 1,227 | 82 |

380

| RECORD. | FEBRUARY II. | 1887. |
|--|---|------------------|
| Laying Croton Pipes- | | |
| West End avenue, between Seventy-seventh and Se Fifty-fifth street, between Avenue A and two hundr | venty-ninth streets | \$140 2 |
| Sixty-fifth street, between Boulevard and Tenth ave | ed and mty-nve leet cast | 179 3 380 2 |
| Sixty-seventh street, between Second and Third ave | enues | 398 5 |
| Sixty-eighth street, between Ninth avenue and Bou | levard | 243 2 |
| Seventy-second street, between Eighth and Ninth a Seventy-third street, between Avenue A and First a | | 962 5 396 4 |
| Seventy-eighth street, between Eleventh avenue and | d Riverside Drive | 283 5 |
| Eighty-first street, between Avenues A and B | | 427 8 |
| Ninety-fifth street, between Eighth and Ninth aven Ninety-sixth street, between Third and Lexington a | ues | 445 8 267 7 |
| Ninety-sixth street, between Third and Lexington a Ninety-fifth and One Hundred and Eighty-third | streets, Sixth and Eleventh | 20/ / |
| avenues, etc | | 11,829 8 |
| Ninety-ninth street, between First avenue and East One Hundredth street, between Second and Third | river | 254 2 |
| One Hundred and Fifteenth street, between Sevent | | 396 g 420 6 |
| One Hundred and Twentieth street, between Fifth | and Sixth avenues | 950 0 |
| One Hundred and Twentieth street, between Sixth One Hundred and Thirty-fifth street, between Seve | and Seventh avenues | 421 7 |
| One Hundred and Thirty-seventh street, betwee | een Eighth and St. Nicholas | 500 . |
| avenues | 2111 | 236 9 |
| One Hundred and Thirty-seventh street, between W One Hundred and Seventy-fifth street, between Va | nderbilt and Webster avenues. | 542 2 190 2 |
| Total | | \$77,402 3 |
| aying Croton Pipes, 1885- | = | |
| Tiebout, Girard, Hull avenues, etc | = | \$541 0 |
| ablic Buildings-Construction and Repairs- | | # . Q |
| Armory, Sixty-ninth Regiment | | \$281 8 656 3 |
| Brown-stone Building Bureau Repairs and Supplies | | 1,045 8 |
| City Hall | | 304 2 128 c |
| " Prison Court, Civil, First District | | 6 8 |
| " " Second " | | 6 ; |
| Pitth | | 94 |
| " " Ninth " | | 9 5 54 5 |
| " " Fifth " | | 10 1 |
| Court-house, County | | 947 |
| County Jail | | 416 25 0 |
| Hall of Records | | 58 |
| Market, Catharine "Centre | | 25 0 |
| " Clinton | | 197 4 |
| " Washington | | 4,347 3 |
| No. 31 Chambers street | | 161 |
| No. 49 Beekman street Stewart Building | | 36 0 |
| Twenty-fourth Street Yard | | 76 0 |
| Pay-rolls | | 750 2 |
| Total Deduct duplicate voucher for C. M. Horton, agent | ····· | \$11,651 |
| | = | \$11,501 |
| ablic Drinking-hydrants— Repairing hydrants | | \$772 |
| | = | *//- |
| emoving Obstructions in Streets and Avenues— Removing obstructions | | \$1,720 |
| " trees Traveling expenses | •••••••••••• | 322 46 |
| Total | | \$2,089 |
| epairing and Renewal of Pipes, Stop-cocks, etc | · · · · · | |
| Altering tap and service pipes. | · ····· | \$821 25 |
| Coal | | 185 |
| Hydrants | | 873 |
| Hydrant boxes Laying pipe | ••••••• | 610 |
| Lumber | | 778 |
| Meters | | 176 |
| Nozzle-caps and chains | | 90 |
| Pay-rolls | | 25,108 38 |
| Pumps | | II |
| Repairing hydrants | | 714 |
| Resetting " Salt | | 473 |
| Stone | | 35 |
| Stop-cock boxes and covers | | 510 |
| Supplies | | 397 170 |
| Traveling expenses | | 63 |
| Valves | ••••••••••••••••••••••••••••••••••••••• | 300 |
| Total | | \$31,534 |
| Repairs and Renewal of Pavements and Regrading- Bridge-stone | | \$2,520 |
| Curb-stone | | 6 |
| Horse-hire | | 151 90,218 |
| Red globes | | 48 |
| Rent of ward | | 1.800 |

| | W York Muldal Gas-light Co | 1,227 02 | Act globes | 40 -3 |
|--------|--|---------------|---|--------------|
| | New Fork and New Jersey Globe Gas-light Co | | | 1,800 00 |
| | " " Northern Gas-light Co | | | 1,414 25 |
| | " " Yonkers " | 3,378 00 | " roof | 50 10 |
| | | | " tools | 528 25 |
| | Total | \$236,041 96 | " tool-carts | 21 75 |
| | | | " wagon | 28 00 |
| | Castan Duran | | Rollers | 20 00 |
| Laying | Croton Pipes- | **** **** *** | Cand | 6,391 55 |
| | st-iron pipe | | Signal oil | 05 05 |
| | rse-hire, etc | | Supplier | 671 88 |
| | drants, stop-cocks, etc | | The state | 220 00 |
| | moving and relaying gas-mains | | Traveling organizes | 92 05 |
| | y-rolls | | | 92 -5 |
| | ley avenue, between Riverdale avenue and six hundred and thirty feet north | | Total | \$104 277 AD |
| | ook avenue, between One Hundred and Thirty-third street and Harlem rive | | Total | \$104,277 49 |
| Bro | own place, between One Hundred and Thirty-fourth and One Hundred | and | The second se | |
| | Thirty-fifth streets | 120 91 | Repairs to Seventh Regiment Armory Building- | 40.00 |
| Ede | gecomb avenue, between One Hundred and Thirty-sixth and One Hundred : | and | Repairing, etc., roof | \$929 00 |
| | Thirty-seventh streets | | | |
| Mu | Iberry street and Bowery | | | |
| Av | enue A, east side, between Seventy-ninth and Eightieth streets | 431 84 | Pay-rolls | \$3,116 00 |
| Siv | th avenue, east side, between One Hundred and Fortieth and One Hund | Ired | Work on contract | 35,401 18 |
| - DLA | and Forty first streets | | | 33,401 10 |
| Ta | and Forty mist successful and Eighty first streets | 165 15 | | \$38,517 18 |
| Te | nth avenue, between Eighty-seventh and Eighty-eighth streets. | 286 95 | Fotat | 730,517 10 |
| | eventh avenue, between Seventieth and Seventy-second streets | 200 95 | | |
| | est End avenue, between Seventy-second and Seventy-third streets | | | |
| | | | | \$79,720 00 |
| We | est End avenue, between Seventy-fifth and Seventy-seventh streets | 261 85 | = | |

FEBRUARY II, 1887.

THE CITY RECORD.

| Repaving Streets and Avenues— Cannon street, between Houston and Grand streets Pine street, between William and Pearl streets, Ninth, Eighth and Eighteenth streets Fifteenth and Nineteenth streets, between First and Second avenues, and Twenty-fifth street. Eighteenth street, between First avenue and East river Eighteenth street, between First avenue and East river Eighteenth street, between First avenue and East river Eighteenth street, between Eighth and Tenth avenues. Surveying Total Repaving Streets and Avenues, 1885— Twenty-sixth street, between Eighth and Tenth avenues. Roads, Streets and Avenues, Unpaved, etc.— Horse-hire Pay-rolls Screenings. Total Sewers—Repairing and Cleaning— Basin-heads | \$8,130 1 10,859 1 16,160 0 16,420 1 13,018 1 1,841 0 \$66,431 0 \$539 8 |
|--|---|
| Pine street, between William and Pearl streets, Ninth, Eighth and Eighteenth streets Fifteenth and Nineteenth streets, between First and Second avenues, and Twenty-fifth street. Eighteenth street, between First avenue and East river Eighteenth street, between Eighth and Tenth avenues. Surveying Total Repaving Streets and Avenues, 1885– Twenty-sixth street, between Eighth and Tenth avenues. Pay-rolls Screenings Total Total Sewers—Repairing and Cleaning— | 10,859 9 16,160 0 16,420 1 13,018 8 1,841 0 \$66,431 0 |
| streets Fifteenth and Nineteenth streets, between First and Second avenues, and Twenty-fifth street. Eighteenth street, between First avenue and East river Eighteenth street, between First avenue and East river Eighteenth street, between First avenue and East river Eighteenth street, between Eighth and Tenth avenues. Surveying Total Repaving Streets and Avenues, 1885— Twenty-sixth street, between Eighth and Tenth avenues. Roads, Streets and Avenues, Unpaved, etc.— Horse-hire Pay-rolls Screenings. Total Total Streets Total | 16,160 0 16,420 9 13,018 8 1,841 0 \$66,431 0 |
| fifth street Eighteenth street, between First avenue and East river Eighteenth street, between Eighth and Tenth avenues. Surveying Total Repaving Streets and Avenues, 1885— Twenty-sixth street, between Eighth and Tenth avenues. Roads, Streets and Avenues, Unpaved, etc.— Horse-hire Pay-rolls Screenings Total Sewers—Repairing and Cleaning— | 16,420 13,018 8 1,841 0 \$66,431 0 |
| Eighteenth street, between Eighth and Tenth avenues. Surveying | 13,018 8 1,841 0 \$66,431 0 |
| Surveying Total Repaving Streets and Avenues, 1885— Twenty-sixth street, between Eighth and Tenth avenues Roads, Streets and Avenues, Unpaved, etc.— Horse-hire Pay-rolls Screenings Total Sewers—Repairing and Cleaning— | 1,841 (\$66,431 (|
| Repaving Streets and Avenues, 1885— Twenty-sixth street, between Eighth and Tenth avenues Roads, Streets and Avenues, Unpaved, etc.— Horse-hire | |
| Twenty-sixth street, between Eighth and Tenth avenues. Roads, Streets and Avenues, Unpaved, etc.— Horse-hire Pay-rolls Screenings Total Sewers—Repairing and Cleaning— | |
| Twenty-sixth street, between Eighth and Tenth avenues. Roads, Streets and Avenues, Unpaved, etc.— Horse-hire Pay-rolls Screenings Total Sewers—Repairing and Cleaning— | \$539 8 |
| Horse-hire Pay-rolls Screenings Total | |
| Horse-hire | |
| Screenings Total Sewers—Repairing and Cleaning— | \$180 0 |
| Total | 6,193 2 516 2 |
| Sewers—Repairing and Cleaning— | \$6,889 |
| Sewers—Repairing and Cleaning— Besin heads | |
| 1)doll-10000 | \$140 0 |
| Boots, hose and aprons Brick, sand and cement | 95 5 101 2 |
| Cleaning and repairing sewer | 6,489 8 |
| Correcting insurance maps | 120 C 270 C |
| Lumber | 115 6 |
| Pay-rolls Pipe | 12,135 8 115 0 |
| Removing basin-heads | 10 0 |
| " tools | 125 0 |
| Rod and target Building basin, etc | 14 4 153 C |
| Stone | 64 8 |
| Total | \$19,973 8 |
| Supplies for and Cleaning Public Offices, etc.— | |
| Armory, Twenty-second Regiment | \$11 C |
| Brown-stone Building. | 438 3 |
| Bureau Repairs and Supplies City Hall | 2,053 6 989 8 |
| City Prison Court, Civil, First District | 20 5 5 5 |
| " " Fifth " | 40 8 |
| " " Ninth " | 48 2 11 0 |
| " " Eleventh District | 6 5 |
| Police, Third District Special Sessions | 25 0 49 0 |
| " General Sessions" Common Pleas | 385 4 |
| " Superior | 155 0 |
| " Supreme | 173 9 167 2 |
| " Third | 22 5 |
| Department of Finance Public Works | 489 8 508 7 |
| " Taxes and Assessments Rivington Street Yard | 15 5 |
| Hall of Records | 86 3 |
| Market, Clinton | 35 0 60 0 |
| " Washington | 60 C |
| Office, County Clerk | 74 6 4 5 |
| " Surrogate " Recorder | 96 4 |
| " Sheriff | 91 1 9 0 |
| Commissioners of Accounts Civil Service Board | 15 |
| " District Attorney | 16 2 |
| Coal | 1,616 2 |
| Total | \$28,213 4 |
| treet Improvements—For Surveying, Monumenting, etc.— Pay-rolls | \$366 5 |
| Setting monuments | 40 0 |
| Total | \$406 5 |
| treet Improvements – For Surveying, Monumenting, etc., 1884 – Setting monuments | \$800 0 |
| treet Signs on Buildings and Public Lamps— Glass street signs | \$929 50 |
| = | #929 50 |
| Martin Charles Contraction of the second sec | \$1,300 00 |
| purveys, Maps, etc., for Street Openings, etc.— Pay-rolls | |
| Water Supply for the Twenty-fourth Ward | |
| Pay-rolls Vater Supply for the Twenty-fourth Ward Supply of water | \$1,170 6 |
| Pay-rolls | \$1,170 6 16 8 \$1,187 40 |

| Laving Croton Dines | | |
|--|-----------|----|
| Laying Croton Pipes | \$77,402 | |
| Laying Croton Pipes, 1885 | 541 | |
| Laying Croton Pipes-Salaries | 5,437 | |
| Public Buildings-Construction and Repairs. | 11,651 | |
| Public Drinking-hydrants | 772 | |
| Public Drinking-hydrants-Salaries. | 333 | |
| Removing Obstructions in Streets and Avenues | 2,089 | 77 |
| Removing Obstructions in Streets and Avenues—Salaries | 1,166 | 88 |
| Repairing and Renewal of Pipes, Stop-cocks, etc | 31,534 | 87 |
| Repairing and Renewal of Pipes, Stop-cocks, etcSalaries | 14,868 | |
| Repairs and Renewal of Pavements and Regrading | 104,277 | |
| Repairs and Renewal of Pavements and Regrading-Salaries | 3,111 | |
| Repaving Fifth Avenue | 38,517 | |
| Repaving Fifth avenue, 1885 | 79,720 | |
| Repaying Streets and Avenues | 66,431 0 | |
| Repaying Streets and Avenues, 1885 | 539 | |
| Repaying Streets and Avenues-Salaries. | 1,116 (| |
| Roads, Streets and Avenues, Unpaved, etc | | |
| Salaries—Department of Public Works | 6,889 | |
| Sawer Densiring and Classing | 23,909 | |
| Sewers-Repairing and Cleaning | 19,973 | |
| Sewers-Repairing and Cleaning-Salaries | 2,625 | |
| Sewerage System-Salaries | 3,564 | 97 |
| Street Improvements - For Surveying, Monumenting, etc | 406 | 50 |
| Street Improvements-For Surveying, Monumenting, etc., 1884 | 800 | |
| Supplies for and Cleaning Public Offices, etc. | 28,213 | |
| Supplies for and Cleaning Public Offices, etc., 1885 | 162 | |
| Supplies for and Cleaning Public Offices, etc.—Salaries | 7,764 | 75 |
| Surveys, Maps, etc., for Street Openings, etc. | 1,300 | 00 |
| Supplying Water to Shipping, etc Salaries, | 2,988 | 96 |
| Water Supply for the I wenty-fourth Ward | 1,187 | |
| Water Supply for the Twenty-fourth Ward-Salaries | 309 | |
| | | - |
| Total | \$889,628 | 55 |

TRUST ACCOUNTS.

CROTON WATER FUND.

| Altering pipe | \$102 47 |
|-----------------------------|-------------|
| Binding maps | 153 10 |
| Clerical services | 503 05 |
| Coal and wood | 178 50 |
| Drawing materials. | 157 08 |
| Horse-hire, etc | 420 00 |
| Legal services, etc | 2,001 81 |
| Lumber | 129 71 |
| Oak Pegs | 40 00 |
| Pay-rolls | 19,955 10 |
| Printing testimony | 205 26 |
| Rent of offices. | 422 00 |
| Rent of mill seat | |
| Reservoir at Williamshridan | 300 00 |
| Reservoir at Williamsbridge | 21,348 00 |
| Self-registering gauge | 105 00 |
| Traveling expenses | 960 17 |
| Total | \$47,071 25 |

FUND FOR LOCAL IMPROVEMENTS.

| Regulating, grading, etc.— | | | | |
|---|---------|----|----------|----|
| One Hundred and Fourteenth street, between Fourth and Eighth avenues One Hundred and Fifty-fifth street, between Eighth and first new | \$5,617 | 50 | | |
| avenue west of Eighth avenue | 10.171 | 72 | | |
| William street, between Duane and North William streets | 2.852 | 30 | | |
| Removing and relaying gas-mains | 604 | | | |
| Surveying | 194 | 37 | | |
| Pay-rolls | 741 | 00 | | |
| | | - | \$20,271 | 54 |
| Sewers- | | | | - |
| Sixty-seventh, Sixty-eighth and Sixty-ninth streets, between West End avenue and lands of N. Y. C. and H. R. R. R's Co | | | | |
| Fishty second lands of N. Y. C. and H. K. K. K. S. Co | | | | |
| Eighty-seventh street, between Tenth avenue and Riverside Drive | 1,603 | | | |
| Ninety-fourth street, between Eighth and Ninth avenues | 1,234 | | | |
| Ninety-fifth street, between Ninth and Tenth avenues | 3,010 | 74 | | |
| Lexington avenue, between Eighty-third and Eighty-fifth streets | 1,232 | | | |
| Pay-rolls | 2,083 | 62 | | |
| | | - | 12,084 | 26 |

| | | | | - |
|---|----------|----|----------|----|
| LOCAL IMPROVEMENT FUND. | | | | |
| legulating, Grading, etc | | | | |
| Ninety-third street, between West End avenue and Riverside Drive | \$11,880 | 11 | | |
| Ninety-third street, between Boulevard and West End avenue | 87 | | | |
| Ninety-fourth street, between Boulevard and Riverside Drive | 5,005 | | | |
| Ninety-eighth street, between Second and Third avenues | 162 | | | |
| One Hundred and Twelfth street, between Seventh and Eighth avenues. One Hundred and Fifty-third street, between sixty feet east of Seventh | 208 | | | |
| avenue and New avenue | 294 | 00 | | |
| West End avenue, between Seventy-second street and Boulevard Morningside avenue, between One Hundred and Tenth street and | 32,697 | | | |
| Tenth avenue Fort Washington Ridge road between Eleventh avenue and Kings- | 1,749 | 50 | | |
| bridge road | 6,440 | 00 | | |
| Surveying | 2,181 | 50 | | |
| Pay-rolls | 1,140 | õo | | |
| - | | - | \$61,854 | 99 |
| ewers- | | | | |
| One Hundred and Forty-first street, between St. Nicholas and Tenth avenues | \$285 | 60 | | |
| Tenth avenue, east side, between One Hundred and Sixty-second and | | | | |
| One Hundred and Seventieth streets, and west side, etc | 9,834 | 53 | | |
| Removing and relaying gas-mains | 1,249 | 62 | | |
| Repairing pavement | 37 | 50 | | |
| | | | | |

381

11,407 25

-

73,262 24

\$32,355 80

Total

\$5,349 23

•

RECAPITULATION OF APPROPRIATIONS.

| Aqueduct-Repairs, Maintenance and Strengthening | \$55,144 79 |
|---|---|
| Aqueduct-Repairs, Maintenance and Strengthening, 1885 | 378 57 |
| Aqueduct-Repairs, Maintenance and Strengthening-Salaries | 7,033 21 |
| Boring Examinations for Grading and Sewer Contracts | 2,001 04 |
| Boulevards, Roads and Avenues, Maintenance of | 22,812 61 |
| Bronx River Works-Maintenance and Repairing | 5,920 93 |
| Bronx River Works—Maintenance and Repairing—Salaries | 1,250 00 |
| Contingencies—Department of Public Works | 1,110 02 |
| Flagging Sidewalks and Fencing, etc | 668 97 |
| Free Floating Baths | 2,409 91 |
| Free Floating Baths-Salaries | 6,437 50 |
| For Street Signs on Buildings and Public Lamps | 929 50 |
| For Repairs to Seventh Regiment Armory Building | 929 00 |
| For an Iron Bridge over Fourth Avenue at Ninety-eighth Street, 1884 | 5,349 23 |
| Lamps and Gas and Electric Lighting | 236,041 96 |
| Lamps and Gas and Electric Lighting-Salaries | 1,515 12 |
| | the second se |

| \$156 8 |
|---------|
| |
| 222 8 |
| 59 12 |
| |
| 66 81 |
| |
| 51 79 |
| 72 53 |
| |

STREET IMPROVEMENT FUND.

| Southeast corner of Lexington avenue and One Hundred and Twenty- third street | \$128 | 06 |
|---|------------|----------|
| Leroy street, south side, between Greenwich and West streets Seventh avenue, between One Hundred and Twenty eighth and One | 891 | |
| Hundred and Forty-fifth streets | 4,735 | |
| Grand Boulevard, west side, between Sixty-first and Sixty-third streets Surveying | 527 643 | 42 46 |

6,927 64

\$629 90

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| 382 | THE | CITY | R. | ECORD. | | FEBRUARY II, | .007. |
|--|--|---|--|---|---|---|--------------------|
| aving- Systy fourth street, between First and Second avenues | . \$6,395 57 6,404 79 | | Date of Contract. | NATURE AND LOCATION OF WORK. | CONTRACTOR. | SURRTIES. | ESTIMATED COST. |
| Ninety-third street, between Eighth and Ninth avenues. One Hundred and Third street, between First and Second avenues. One Hundred and Seventh street, between Third and Lexingto avenues. Surveying Pay-rolls. | 3,115 35 1,477 55 | \$25,846 86 | 1886. Oct. 21 | Alterations and improvements to receiving-basins on the southeast and southwest corners of Ninety- second, Ninety-fourth and Ninety- sixth streets, on southwest corner of Ninety-third street, on northeast | Thomas O'Maley, | Robert B. Saul, 162d st. and roth ave. | 1 |
| egulating grading, etc.— Sixty-ninth street, between Eighth and Ninth avenues Eighty-second street, between Boulevard and Riverside Drive Eighty-ninth street, between Boulevard and Riverside Drive Ninety-first street, between Tenth avenue and Riverside Drive | . 1,324 00 | | | and northwest corners of Ninety- sixth and Ninety-eighth streets, and on northwest corners of Ninety-ninth, One Hundredth, One Hundred and First, and One Hundred and Second streets and West End avenue | 162d street and 10th | Patrick Larney, 325 East 38th street | } \$1,475 × |
| One Hundred and Second street, between Ninth avenue and Riversi Drive One Hundred and Fourteenth street, between Tenth avenue as Riverside Drive | 1,050 00 nd | | " 26 | | J. W. Phelan, 205 West 124th street. | Terance Kane, 140th street, bet. 5th and 6th avenues Nathan Murdough, 437 West 57th street. | 1,429 5 |
| One Hundred and Thirtieth street, between Old Broadway a Boulevard One Hundred and Forty-ninth street, between Seventh and Eigh | nd 1,301 81 1th | | " 99 | Sewer in One Hundred and Thir- teenth street, between Boulevard and Riverside avenue | John Slattery, 788 Fourth avenue | 437 West 57th street. John Davidson, 702 Fourth avenue P. H. Slattery, 681 East 135th street. George H. Toop, 431 East 88th street | } 4.733 ○ |
| avenues First new avenue west of Eighth avenue, between One Hundred a Forty-fifth and One Hundred and Fifty fifth streets Claremont avenue, between One Hundred and Sixteenth and O | ne 1,310 00 | | Nov. 4 | third street, between Eighth ave- nue and Avenue St. Nicholas) | Joseph Moore, 180 East 88th street. | 421 East 88th street John McLaughlin, 346 East 81st street George H. Toop, 421 East 88th street. | } 1,084 o |
| Hundred and Twenty-second streets Edgecomb avenue, between One Hundred and Thirty-seventh a One Hundred and Fortieth streets Fort George avenue, Tenth and Eleventh avenues | nd 2,793 00 | | | east side, between One Hun- dred and Forty-first and One Hundred and Forty-fifth streets. | Joseph Moore, 180 East 88th street. | 421 East 88th street. John McLaughlin, 316 East 81st street John Becker, 10th ave., bet. Man- | 8,760 0 |
| Surveying Pay-rolls | 450 /0 | 33,925 91 | " 5 | Sewer in One Hundred and Eight- eenth street, between Fifth and Sixth avenues | Thomas Murray, 30th street and Tenth avenue | hattan and Law- rence streets Isaac A. Hopper, Seventh avenue and 122d street | 4.414 5 |
| wers— Sixty-second street, between Tenth and Eleventh avenues Seventy-fourth street, between Ninth and Tenth avenues Seventy-sixth street, between Avenue A and East river | 1,191 12 | | | Extension of sewer at foot of Rector street, Hudson river, with altera- tions and improvements to exist- ing sewer | John D. Walsh, 396 Wythe avenue, Brooklyn, N. Y | James D. Leary, 73 Willia u street Joseph Cumings, 45 Duane street | 6,921 4 |
| One Hundred and Third street, between Ninth and Tenth avenues. One Hundred and Fifth street, between First avenue and Harlem ri One Hundred and Fifteenth street, between Seventh and Eigh | 2,389 80 ver 2,892 75 nth 2,736 72 | | " 12 | Outlet sewer through Pier 29, East river, with alterations and im- provements to existing sewer at foot of Roosevelt street | John D. Walsh, 396 Wythe avenue, Brooklyn, N. Y | James D. Leary, 73 William street Joseph Cumings, 45 Duane street John Ryan, | 5,969 3 |
| One Hundred and Forty-third street, between Boulevard and Hamilt place One Hundred and Fifty-first street, between St. Nicholas and Ter | on 1,143 10 1,143 10 5.022 08 | | " 30 | Sewer in Mad son avenue, between One Hundred and Seventeenth and One Hundred and Nine- teenth streets | Thomas Murray, 130th street and 10th avenue. | 129th street, bet. 11th and 12th avenues. John Becker, Tenth avenue and Manhattan street. | 8,560 |
| Eighth avenue, between One Hundred and Fifth and One Hundr and Fourteenth streets. | 1,144 29 1,087 87 | | " 30 | Sewer in Ninety-first street, between Eighth and Ninth avenues) | John McKim & Son, 326 East 58th street. | Patrick Reilly, 39 Sutton place Thomas E. Crimmins, 1043 Third avenue George H. Toop, 421 East 88th street. | 7,538 |
| Hudson street, between Christopher and Grove streets Basins— One Hundred and Twenty-ninth street, north side, at Manhatt | tan | | " 30 Dec. 6 | mit west of Ninth avenue and sum- | 180 East 88th street. | John McQuade, 1338 Lexington ave Charles Jones, | 1,30 |
| avenue West End avenue, northwest corners of Seventy-second, Seven third and Seventy-fourth streets Southeast corner of Eighty-first street and Avenue A. | ty. 265 62 299 80 | | Novia | Eighty-ninth and Ninety-first streets, and between Ninety-third and Ninety-fourth streets | James J. Jones, 430 East 89th street. Terence A. Smith, | 257 Alexander ave George H. Toop, 421 East 88th street. Joseph C. Biglin, 212 East 31st street | 5,900 |
| Northwest corner of One Hundred and Seventh street and F avenue. Southeast corner of One Hundred and Ninth street and Fou avenue. | rth 220 09 | | | Avenue A and First avenue) Sewer in One Hundred and Forty- third street, between Seventh and | 216 East 30th street | Thomas Bartley, 544 Third avenue Patrick Larney, 325 East 38th street. James F. Boyle, | 1,305 |
| avenue Northwest corner of One Hundred and Twenty-first street a Fourth avenue Northeast corner of One Hundred and Seventh street and F avenue. | 390 co | | " 20 | Eighth avenues | Patrick Sheehy, | 676 Second avenue. Thomas Regan, 719 Lexington avenue Michael Regan, | 3.717 |
| Removing and relaying gas-mains . Pay-rolls | 35 04 | 30,227 99 | " 27 | and Eighth avenues | | 227 Lexington avenue James McBride, 155 East 124th street. George H. Toop, 421 East 88th street. | 2,312 |
| Total | = | \$97,558 30 | " 27 | Sewer in Ninth avenue, east side, between One Hundred and Fifth and One Hundred and Sixth streets. | Joseph A. Devlin, 66 West 119th street. | 421 East 88th street. James McBride, 155 East 124th street George H. Toop, 421 East 88th street. James McBride, | 1,359 |
| storing pavements, etc y-rolls | •••••••••••••••• | 1,050 50 | | Sewer in One Hundrel and Forty- eighth street, between Seventh and Eighth avenues |) | George H. Toop, 421 East 88th street | 2,690 |
| WATER-METER FUND, NO. 2. | = | | | Sewers in Seventy-second street, between Hudson river and Eleventh avenue, with branch in Riverside avenue, between Seventy-second and Seventy- sixth streets | John Slattery, 788 Fourth avenue | John Davidson, 868 Fourth avenue Denis McGrath, 35 East 104th street | 20,037 |
| GANSEVOORT MARKET BUILDING FUND. | - | \$4,680 50 | Oct. 6 | Regulating and Grading Contracts | | (William Bostelmann, | \$157,322 |
| RECAPITULATION OF FUNDS. not for Local Improvements | · · · · · · · · · · · · · · · · · · | 32,355 80 | | Thirty-ninth to One Hundred and Fortieth street, and setting curb- stones and flagging sidewalks therein. | i44th street and roth avenue | 102 West street | \$11,534 |
| reet Improvement Fund. ansevoort Market Building Fund. estoring and Repaving -Special Fund. ater-meter Fund, No. 2. | ••••• | 97,558 30 | " E | Regulating and grading One Hun- dred and Thirty-seventh street, from Eighth to St. Nicholas ave- nue, and setting curb-stones and flagging sidewalks therein | Thomas Murray, 130th street and 10th avenue | Broadway and Law rence street John Becker, roth avenue and Manhattan street. | 2,261 |
| Total | = | | | Regulating and grading One Hun- dred and Thirtieth street, from Old Broadway to Boulevard, and setting curb-stones and flagging sidewalks therein | Thomas Murray, 130th street and 10th avenue | roth avenue an | . 1,275 |
| ppropriations unds Total | •••••• | 204,205 02 | | Regulating and grading Edgecombe avenue (the first avenue east of and generally parallel with Ninth avenue or St. Nicholas place), from One Hundred and Forty- fifth street to St. Nicholas place. | John F. Dawson, 174 Alexander ave | Manhattan streets Thomas Patten, 13 East 57th street. S. F. Knapp, 158th street, Audubo Park | 86,826 |
| Document "C." Contracts Made during the Three Months ending Dece | mber 31, 1886 | | " 1 | dred and Second street, from | James H. Sullivan, | John Claffy, 48 Dey street | 1 |
| Do and Location of Work. Contractor. | SURETIES. | ESTIMATED Cost. | | and setting curb-stones and flag- ging sidewalks therein | | John Claffy, 48 Dey street | 1 |
| 1886. Completing unfinished sewer in One) | | - | | and setting curb-stones and flag- ging sidewalks therein | Thomas E. Crimmins, 951 Madison avenue. | 157 East 71st street. | . } 8,99 |
| Hundred and Fifty-first street, between Avenue St. Nicholas and Tenth avenue, and in Tenth ave- 326 East 58th street. | rick Reilly, 39 Sutton place 115 Johnson, 196 Lexington ave | and the second se | 1 | curb-stones and flagging side- walks therein | 951 Madison avenue. | Thomas Crimmins, 1225 Park avenue James R. Breen, 157 East 71st street. | 4.79 |
| 9 Outlet sewer in Eighth avenue, between One Hundred and Fifty- third street and Harlem river) Verdine E. Horton, 111 West 128th street Jac | liam E. Dean, 68 West 127th stre ob Ebling, 2362 Third avenue | 14.395 0 | | 4 Regulating and grading One Hun- dred and Twelfth street, from Eighth to New avenue, and setting curb-stones and flagging side- walks therein. | Thomas E. Crimmins, 951 Madison avenue | Thomas Crimmins, 1225 Park avenue James R. Breen, 157 East 71st street | 5,13 |
| " 13 Sewer in One Hundred and Thirty- first street, between Broadway and Tenth avenue | n Fleming, 211 East 83d stree omas Regan, 719 Lexington ave | et } 2,053 0 | • • • | 4 Regulating and grading One Hun- dred and Seventh street, from Eighth to Ninth avenue, and setting curb-stones and flagging sidewalks therein | Thomas E. Crimmins, 951 Madison avenue | Thomas Crimmins, 1225 Park avenue James R. Breen, 157 East 71st street. | 10,75 |
| ers in Eleventh avenue, between Fourteenth and Seventeenth streets, and in Fourteenth street, between Tenth and Thirteenth ave- nues, and sewers in Eleventh ave- 111 West 128thstreet. Jac | lliam E. Dean, 68 West 127th str ob Ebling, 2362 Third avenue | 7 24,515 5 | and the second sec | 4 Regulating and grading One Hun- dred and First street, from Eighth to Manhattan avenue, and setting curb-stones and flagging side- walks therein. | Thomas E. Crimmins, 951 Madison avenue | [International | |
| nue, between Fifteenth and Six-1 teenth streets, and in Fifteenth street, between Tenth and Elev- enth avenues | - Jos Third avenue |) | | 4 Regulating and grading Sixty-fifth street, from Tenth to Eleventh avenue, and setting curb-stones and flagging sidewalks therein. | D. W. Moran, 349 East 72d street. | 430 East 89th street | 1 4,000 |

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THE CITY RECORD.

| Date of Contract. | NATURE AND LOCATION OF WORK. | CONTRACTOR. | SURETIES. | ESTIMATED COST. | Date of Contract | NATURE AND LOCATION OF WORK. | CONTRACTOR. | SURETIES. | ESTIMATE Cost. |
|----------------------|--|--|---|----------------------|---------------------|---|--|--|-------------------|
| 1886. Oct. 26 | Regulating and grading Eighty-first street, from Avenue A to Avenue B, and setting curb-stones and flagging sidewalks therein | Patrick McInerney, 214 East 85th street. | Charles McGinnis, 127 Broome street John Fleming, 211 East 83d street | \$2,736 48 | 1886, Nov. 20 | Laying crosswalks on east and west) sides of Tenth avenue at One Hundred and Fifty-sixth. One | | | |
| " 26 " 27 | Regulating and grading Ninety-fifth street, from Eighth to Ninth ave- nue, and setting curb-stones and (flagging sidewalks therein, | Patrick McInernev, 214 East 85th street . | 211 East 83d street Charles McGinois, 127 Broome street John Fleming, 211 East 83d street | } 2,456 48 | | sides of Tenth avenue at One Hundred and Fifty-sixth, One Hundred and Fifty-sighth, One Hundred and Fifty-eighth, One Hundred and Fifty-ninth, One Hundred and Sixtieth, One Hun- dred and Sixty-fourth and One | Thomas Murray, 130th st. and 10th ave. | John Lynch, 2191 Third avenue John Ryan, 129th st. and 12th ave. | \$1,923 0 |
| " 21 | Regulating and grading first new avenue west of Eighth avenue, from One Hundred and Forty-fifth to One Hundred and Fifty-fifth street, and setting curb-stones and flagging sidewalks therein | William J. Kelly, Pelhamville, West- chester Co., N. Y. | Charles F. Mattlage, 276 Greenwich street Mary Ann Petiit, 444 West 34th street. | } 55,120 00 | " 23 | dred and Sixty-fourth and One Hundred and Sixty-fifth streets; also west side of Tenth avenue at One Hundred and Sixty-first street, etc Paving with granite-block pavement, | | James Slattery | |
| " 30 | Regulating and grading Edgecombe avenue, from One Hundred and Forty-first to One Hundred and Forty-fifth street, and setting curb-stones and flazging side- | Bernard Mahon, 2261 Seventh avenue | Thomas O'Maley, 162d street and 10th avenue William Kelly, | 18,196 60 | Dec. 15 | One Hundred and Twenty-first } | John G. Smith, 329 West 48th street. John G. Smith, 329 West 48th street. | 218 West 57th street. Henry A. Childs, 113 West 34th street. James Slattery, 218 West 57th street. John F. Moore, | 6,951 |
| łov. g | walks therein. Regulating and grading One Hun- dred and Eighth street, from Tenth avenue to Boulevard, and + setting curb-stones and flagging | James H. Sullivan, 2145 Sixth avenue | 460 West 51st street. John D. Hall, 337 West 29th street. John Claffy, | 1,080 90 | | street, Sixth to Seventh avenue) Paving Contracts (under Section 194, | 329 West 40th street. | 514 West 105th street | |
| " 9 | sidewalks therein | D. W. Moran, 349 East 72d street | 48 Dey street John McQuade, 1338 Lexington ave- nue Peter McGinness, | 2,363 10 | Nov. 20 | New York Consolidation Act of 1882. Paving with granite-block pavement, Sixth street, from Bowery to | Terence A. Smith, 218 East 36th street. | Matthew Baird, 807 Lexington ave James Baird, | \$21,753 |
| Dec. 1 | street Regulating and grading One Hun- dred and Forty-eighth street, from Seventh to Eighth avenue, and setting curb stones and flagging sidewalks therein. | William Kelly, 460 West 51st street. | James Fitzpatrick, 529 West 42d street. Henry Kelly, |) 9,874 68 | Nov. 9 | Avenue B) Laying Water-main Contract. Laying water-mains in Broadway and) Tenth, Ninth, Eighth, Sixth, | | 310 East 57th street. P. M. Wilson, 86 Bank street | <u>)</u>] |
| " 4 | dred and Forty-third street, from Seventh to Eighth avenue, and setting curb-stones and flagging | John J. Farley, 1990 Madison avenue. | 422 West 42d street. Thomas McMahon, 5 Sutton place. Patrick Farley, | } 5,509 81 | | Fourth and Riverside avenues, and in Eighty-eighth street | Borstman & Cornwell, 304 East 116th street. | James Kay, 159 Washington Mar- ket | \$7,748 |
| " 4 | Regulating and grading the first new) avenue west of Eighth avenue, from One Hundred and Forty- second to One Hundred and second | Bernard Mahon, | A. Bigelow Kellogg, 285 Broadway. |) } 17,414 96 | Dec. 2 | Furnishing cast-iron water-pipes, } branch pipes and special castings. } | Warren Foundry and Machine Co., Phillipsburg, N.J | Joseph Richardson, 119 Liberty street William E. Stiger, 140 West 73d street | 1 \$12,050 |
| Iov. 29 | street, from First avenue to Ave- | Terence A. Smith, | James D. Leary, 73 William street. Joseph C. Biglin, 157 East 37th street. John McGuire, | } 12,212 91 | Dec. 27 | Gas Contracts. Furnishing illuminating gas for light- ing the public markets, armories, buildings and offices of the City | The Equitable Gas-light | John Fox, 117th street and Pleasant avenue | \$9,500 |
| Dec. 18 | nue A, and setting curb-stones and flagging sidewalks therein Regulating and grading Ninetieth street, from the Boulevard to Riverside Drive, and setting curb- | 218 East 36th street Thomas O'Maley, 162d street and Tenth | 326 East 38th street. Robert B. Saul, 162d street and 10th avenue | | ** 27 | ing the public markets, armories, | 340 Third avenue | Elias C. Benedict, 10 West 51st street Percy R. Pyne, 25 East 22d street | 1 |
| ** 20 | dred and Eighth street, from Eighth to Manhattan avenue, and } | John Cox & Co., 220 Broadway | William Bostelmann, 102 West street, John Regan, 153 Fraoklin street E. J. Cassidy, | ń | | buildings and offices of the City of New York for the period from January 1, 1887, to December 31, 1887, both days inclusive) | Co. of New York, 4 Irving place | 25 East 22d street Thomas Rutter, 814 Fifth avenue | \$32,150 |
| •' 22 | dred and Thirty-seventh street, from Tenth to Convent avenue, | John Slattery, 788 Fourth avenue | E. J. Cassidy, 1119 Madison avenue John Davidson, 868 Fourth avenue, P. H. Slattery, |) } 2,991 81 | Oct. 18 | Special Contracts. Flagging south side of Leroy street, } from Greenwich to West street. } Flagging four feet in width on the } | Patrick Larney, 325 East 38th street} | | \$913 |
| " 27 | and setting curb-stones and flag- ging sidewalks therein | John J. Farley, 1990 Madison avenue | 681 East 135th street. Patrick Farley, 1990 Madison avenue Thomas McMahon, | 1 | 18 | west side of the Grand Boulevard, [from Sixty-first to Sixty-third street] | Patrick Larney, 325 East 38th street} | | 528 |
| | ging sidewalks therein | l | 5 Sutton Place | J \$317,337 78 | | Madison and Fourth avenues; on the west side of Fourth avenue, between Seventy-sixth and Sev- enty-seventh streets, and on the north side of Seventy-sixth street, between Madison and Fourth ave- | Patrick Larney, 325 East 38th street } | | 66 |
| ct. 12 | taining walls, and paying with I | | Ransom Parker, Jr., | 1 | Nov. 23 | nues | Patrick Larney, 325 East 38th street. } | | 47 |
| | granite-block pavement, with a foundation of broken stone thor- > oughly rolled, One Hundred and Fifty-fifth street, from Avenue St. Nicholas to St. Nicholas place | George F. Doak, Broadway, n. 129th st. | 224 W. 11th street Daniel D. Wylie, 697 Madison avenue. | \$10,376 62 | " 23 | Fencing vacant lots at the southeast corner of Seventh avenue and One { Hundred and Twenty-second street. | Bernard A. Roth, 402 East 122d street. | | 90 |
| * 23 | Paving with trap-block pavement, Nunety-sixth street, from Third to Lexington avenue | Charles Guidet, '237 Broadway | James Everard, Worth House Martin B. Brown, 931 Madison avenue. James Everard, | 7,486 13 | Dec. 9 | West Fifty-fifth street, from pres- ent pavement to the North river. | P. H. Fitzgerald, 428 West 35th street. | John White, 536 West 40th street. William H. Taylor, | |
| * 23 | Paving with trap-block pavement, Ninety-third street, from Eighth to Ninth avenue | Charles Guidet, 237 Breadway | Worth House Martin B. Brown, 931 Madison avenue. James Everard, | 6,835 92 | " 10 | first streets and Avenue A) Receiving-basin on southeast corner) of Twenty-first street and Thir- teenth avenue | 343 East 16th street) R. A. Cunningham, 343 East 16th street. } | 343 East 16th street. William H. Taylor, 343 East 16th street. | } 560 } 207 |
| * 23 | Paving with trap-block pavement, Seventy-fourth street, from Boule- vard to Eleventh avenue | Charles Guidet, 237 Broadway | Worth House Martin B. Brown, 931 Madison avenue. James Everard, | 4,608 61 | " 10 " 10 | Receiving-basin on southeast corner) of One Hundred and Twenty- third street and Manhattan avenue) Receiving-basin on southwest corner) | R. A. Cunningham, 343 East 16th street. | William H. Taylor, 343 East 16th street. | } 250 |
| -3 | Paving with trap-block pavement, Sixty-seventh street, from Second to Third avenue | Charles Guidet, 237 Broadway | Worth House Martin B. Brown, 931 Madison avenue. James Everard, | 6,209 00 | " 10 | of Sixty-second street and Avenue A | R. A. Cunningham, 343 East 16th street. } R. A. Cunningham, | William H. Taylor, 343 East 16th street. William H. Taylor, | } 244 |
| · 23 | Paving with trap-block pavement, Sixity-sixth street, (rom Boulevard to Tenth avenue | Charles Guidet, 237 Broadway | Worth House Martin B. Brown, 931 Madison avenue. James Everard, | 4,998 50 | " 10 | Hundred and Eighth street and Lexington avenue | 343 East 16th street. R. A. Cunningham, | 343 East 16th street. William H. Taylor, | } 403 } 448 |
| • 23 | Hundred and Thirty-first street, from Sixth to Seventh avenue) Paving with granite-block pavement, | Charles Guidet, 237 Broadway | Worth House Martin B. Brown, 931 Madison avenue. James Everard, Worth House | 1 | " 10 | dred and Twenty-third street and Manhattan avenue | 343 East 16th street. ∫ D. W. Moran, 349 East 72d street ∫ | 343 East 16th street. Feter McGinness, 1546 Park avenue. | } 440 } 123 |
| 23 | Ninety-third street, from Ninth to Tenth avenue | 237 Broadway | Martin B. Brown, 931 Madison avenue. James Everard, Worth House | 1 | " 10 | avenue Laying crosswalks across Pleasant av- enue at the southerly and northerly intersections of One Hundred and | D. W. Moran, 349 East 72d street } | Peter McGinness, 1546 Park avenue. | } 302 |
| ' ² 3 | avenue to Boulevard) Paving with granite-block pavement, Washington street, from Little | 237 Broadway | Martin B. Brown, 931 Madison avenue. James Everard, Worth House Martin B. Brown | 2,554 10 5.754 75 | " 18 | Fifteenth street | Bernard A. Roth, 402 East 122d street. } | | 390 |
| • 23 | West Twelfth to Fourteenth street) Paving with trap-block pavement, Seventie h street, from Avenue A to First avenue | Thomas Gearty, 135 East 83d street. | Martin B. Brown, 931 Madison avenue. P. H. McCullagh, 240 East 32d street Thomas Regan, | | " 28 " 28 | Fencing vacant lots on northwest corner of One Hundred and Ninth street and Fourth avenue | Bernard A. Roth, 402 East 122d street. } Bernard A. Roth, | | 79 |
| ov. 4 | Paving with granite-block pavement, Eighty-fifth street, from Eighth to Ninth avenue. | George F. Doak, Broadway, n.129th st. | 719 Lexington ave Ransom Parker, Jr., 224 West 11th street. Louis D. Beck, | 8,243 48 | | Ninety-sixth street, between Second and Third avenues | 402 East 122d street. | ••••• | 229 \$5,141 |
| 12 | Paving with trap-block pavement,) | William A. Cumming, | 58 Cedar street Julius A. Candee, 26th street, E. R | 1 | | | | | \$3,141 |

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| | Ninth avenue) | Broadway, n. 129th st. | Louis D. Beck, 58 Cedar street Julius A. Candee, | 0,243 40 | | | | \$5,141 40 |
|--------|--|--|--|----------|----------------------|---|--|-----------------------------------|
| 12 | Paving with trap-block pavement, One Hundred and Ninth street, from Madison to Fourth avenue.) | William A. Cumming, 5 Dey street | 26th street, E. R James Mulry, 30 East 81st street | 2,922 12 | | 22 Sewer Contracts | RECAPITULATION. \$157.322 85 | |
| 12 | Paving with trap-block pavement, One Hundred and First street, from Second to Third avenue) | William A. Cumming, 5 Dey street | Julius A. Candee, 26th street, E. R James Mulry, 30 East 81st street | 4,446 46 | | 26 Regulating and Grading Contr 22 Paving Contract 1 Paving Contract (under section | acts. 317,337 78 317,337 78 137,011 25 194, New York Consolidation Act of 1882). 21,753 88 12,850 00 | |
| 20 | Paving with trap-block pavement, Ninety-seventh street, from Ninth to Tenth avenue | P. H. Fitzgerald, 428 West 35th street. | Charles Guidet, 237 Broadway Samuel Booth, 545 West 35th street. | 7,183 47 | | 1 Laying Water-main Contract 2 Gas Contracts | 7,748 00 32,150 00 5,141 40 | |
| 20 | Paving with trap-block pavement, Seventy-first street, from Eastern Boulevard to East river | P. H. Fitzgerald, 428 West 35th street. | Charles Guidet, 237 Broadway Samuel Booth, 545 West 35th street. | 6,306 co | | 93 Contracts | \$691,315 16 | |
| 30 | Paving with granite-block pavement, Ninety-first street, from Fourth to Fifth avenue | Winnam Keny, | James Fitzpatrick, 529 West 42d street. Henry Kelly, 422 West 42d street. | 8,684 10 | | Contracts Completed during t | the Three Months ending December 31, 1886. | |
| 30 | Paving with granite-block pavement, One Hundred and Fifth street, from First avenue to bulkhead line on the East or Harlem river. | William J. Clark, 339 East 63d street. | Matthew Baird, 807 Lexington ave James Baird, 310 East 57th street. | 7,989 46 | DATE. | NATURE. | LOCATION OF WORK. | TOTAL Cost. |
| 20 | Laying crosswalks on both sides of Sixth avenue, across the intersect- ing streets, from One Hundred and Twenty-fifth to One Hundred and Forty-fifth street, where not already laid | Thomas Murray, 130th sr. and 10th ave. | John Lynch, 2101 Third avenue John Ry n, 129th st. and 12th ave. | 3,195 50 | Oct. 4 " 4 " 4 | Regulating and grading Sewer Paving | side Drive In Hudson street, between Christopher and Grove streets | \$40,956 23 985 76 3,432 34 |
| | | | | | | | | |

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FEBRUARY 11, 1887.

| DA | TE. | NATURE. | LOCATION OF WORK. | TOTAL COST. |
|------|----------|---|--|-----------------------|
| Oct. | 4 | Fencing vacant lots | On block bounded by First and Second avenues. | |
| | 4 | | Eighty-second and Eighty-third streets On the northwest corner of Seventh avenue and One | \$253 \$ |
| | 6 | Sewars | Hundred and Twenty-sixth street In Tenth avenue, east side, between One Hundred and Sixty-second and One Hundred and Seventieth | 124 8 |
| | | | streets, and west side, between Kingsbridge road and One Hundred and Seventy-third street | 47;392 8 |
| ** | 6 | Fencing vacant lots | On the northeast corner of Fourth avenue and One | |
| | 6 | " | Hundred and Twenty-seventh street On north side of Fifty-seventh street, one hundred feet east of Broadway, and running east about one hun- | 51 4 |
| ** | 16 | Flagging four feet wide | dred and fifty feet On southeast corner of Lexington avenue and One | 66 5 |
| | 16 | Paving | Hundred and Twenty-third street Sixty-fourth street, from First to Second avenue | 136 o 6,857 4 |
| | 16 | Sewer | In Ninety-fourth street, between Eighth and Ninth avenues | 5,536 8 |
| | 22 | Regulating and grading | William street, from Duane street to intersection of North William street | 3,865 1 |
| .46 | 30 | Sewer | In Lexington avenue, between Eighty-third and | 5,005 2 |
| Nov. | 5 | Alterations and improvements to § | Eighty-fifth streets On northeast and northwest corners of Seventy-second, Seventy-third and Seventy-fourth streets and West | 5,005 - |
| ** | - | receiving-basins) Fencing vacant lots | End avenue On south side of Seventy-seventh street, between | 357 3 |
| | 5 | reneing vacant iots | Madison and Fourth avenues, on west side of Fourth avenue, between Seventy-sixth and Seventy- | |
| | | | Seventh streets, and on north side of Seventy-sixth street, between Madison and Fourth avenues | 75 I. |
| ** | 15 | Flagging sidewalks | On south side of Leroy street, from Greenwich to West | |
| ** | 15 | Regulating and grading | West End avenue, from Seventy-second street to its | 932 2 |
| ** | 23 | " | junction with the Boulevard One Hundred and Fifty fifth street, from Eighth | 107,315 2 |
| 15 | 19 | Flagging | avenue to McComb's Dam lane | 14,513 2 |
| ** | 23 | Receiving-basins | Sixty-third street On north side of One Hundred and Twenty-ninth street, at junction of Manhattan street, and south | 579 0 |
| ** | 20 | Flagging, etc., sidewalks | side at east and west corners of Manhattan street | 891 5 |
| | 27 | Receiving-basin | eighth to One Hundred and Forty-fifth street On northwest corner of One Hundred and Seventh | 6,258 1 |
| | 27 | | street and First avenue On southeast corner of Eighty-first street and | 269 43 |
| | 26 | Sewer | Avenue A In Ninety-fifth street, between Ninth and Tenth | 368 oc |
| | 29 | Receiving-basin | avenues On northwest corner of One Hundred and Twenty- | 7,609 28 |
| Dec. | 4 | Fencing vacant lots | first street and Fourth avenue On east side of Madison avenue, from One Hundred | 469 6 |
| | 4 | Receiving-basin | and Tenth to One Hundred and Eleventh street On southeast corner of One Hundred and Ninth street | 58 7 |
| | | | and Fourth avenue | 352 44 |
| | 13 | Sewer. | street and First avenue | 298 93 |
| | 13 | | In One Hundred and Fifteenth street, between Seventh and Eighth avenues | 3.381 30 |
| | 13 | " | In One Hundred and Fifth street, between First ave- nue and Harlem river | 3,584 60 |
| | 15 15 | Paving | Ninety-third street, from Eighth to Ninth avenue One Hundred and Third street, from First to Second | 6,945 8 |
| ** | 18 | Regulating and grading | one Hundred and Thirtieth street, from Old Broadway | 6,700 49 |
| | 27 | Extension of sewer | to the Boulevard At foot of Ninety-sixth street, Hudson river | 1,564 73 |
| ** | 31 | Paving | One Hundred and Ninth street, from Madison to Fourth avenue | 3,056 40 |
| ** | 31 | Regulating and grading | One Hundred and Fifty-fifth street, from Eighth avenue to first new avenue west of Eighth avenue. | 8,385 39 |
| ** | 31 | Receiving-basins | On the northwest and southwest corners of One Hun- dred and First street and Third avenue, and on northeast and northwest and southeast and southwest corners of One Hundred and Sixth street | |
| Det. | 12 26 | Paving Repairs to sewer | and Fourth avenue Eighteenth street, from Eighth to Tenth avenue In One Hundred and First street, between First and | 1,291 21 |
| Nov. | 5 24 | Paving Furnishing and delivering stop-cocks, stop-cock boxes and covers and | and Second avenues Eighteenth street, from First avenue to East river | 1,608 03 17,078 81 |
| - | 24 | Paving | Fifteenth street, from First to Second avenue | 13,894 00 |
| Dec. | 31 31 | Laying water-mains Paving with Trinidad asphalt pave- | In Mulberry street and Bowery | 8,147 2 |
| | | | | |

RECAPITULATION.

| 8 Sewer Contracts | \$77,961 | 53 |
|------------------------------------|-----------|----|
| 8 Regulating and Grading Contracts | 184,149 | 41 |
| 9 Paving Contracts | 84,244 | 99 |
| i Laying Water-main Contract | 8,147 | 25 |
| 1 Miscellaneous Contract | | 00 |
| 17 Special Contracts | 6,270 | 40 |
| _ | 2 11 | - |
| 44 Contracts | \$374,007 | 58 |
| E | | - |

Document "D."

DEPARTMENT OF PUBLIC WORKS, OFFICE OF CHIEF ENGINEER, NO. 31 CHAMBERS STREET, ROOM 10, New York, January 6, 1887.

GEN. JOHN NEWTON, Commissioner of Public Works :

DEAR SIR-I herewith submit report for the quarter ending December 31, 1886, and a summary for the year 1886.

EXPENDITURES FOR THE QUARTER ENDING DECEMBER 31, 1886.

| 5 | Repairing and Renewal of Pipes, Stop-cocks, etc.—Salaries. Shipping and Building—Salaries. Water Supply, Twenty-fourth Ward Water Supply, Twenty-fourth Ward—Salaries. Water Meter Fund, No. 2. | | |
|---|---|--------------|--|
| | Total | \$808,343 85 | |

Contracts Made, Completed and Unfinished in 1886.

| WORK. | CONTRACTOR. | DAT OF CO TRAC | ON- | Cost Estimated. | DATE FINA ESTIMA | L | Amount of Final Estimate, | AMOUNT PAID 1886. |
|---|---|----------------------|---------|------------------------|------------------------|----------|---------------------------------|----------------------|
| Building reservoir at Williams- bridge | Sullivan & Moore | 188 June | 6 | \$457,775 00 | 1886. | | | \$94,860 0 |
| Laying mains in Kingsbridge road Furnishing lumber | Allen & O'Malley James V. Lawrence | July Sept. | | 11,348 00 4,358 00 | Jan. | 8 | \$10,418 17 4,158 62 | \$,198 8 4,158 6 |
| Laying mains in Fordham ave- nue, etc Furnishing cast-iron pipe, etc. | John Cornwell, Jr Theo. Sturges | Oct. | 1 12 | 20,498 00 37,775 00 | | 24 31 | 17,105 60 44,499 23 | 10,148 5 44.499 2 |
| Furnishing and delivering stop- cocks, hydrants, etc | Charles C. Field | | 12 | 6,660 00 | Jan. | 4 | 6,660 00 | 6,660 0 |
| Laying mains in One Hun- dred and Thirty-fourth street, etc | Thomas Hayden & Louis Berkowitz | Nov. | 7 | 7,706 00 | Sept. | 8 | 6,897 10 | 6,550 2 |
| nue and Ninety-eighth street | Peter J. Masterson | | 24 | 18,362 92 | | | | 13,392 20 |
| eighth street and High- bridge aying mains in Ninth ave-) | George W. Winant George Borstman & J. | 1886 March | | 11,850 00 | | | | 7,719 8 |
| nue, etc | Cornwell | | 17 | 12,935 00 | Sept. | 22 | 11,810 46 | 11,219 9. |
| urnishing stop-cocks, hy- drants, etc | William H. Browne | ** | 26 | 6,807 75 | Aug. | 9 | 6,807 75 | 6,807 7 |
| aying mains in Fairmount avenue, etc | John Cornwell, Jr | April | 22 | 8,460 00 | ** | 20 | 10,210 57 | 9,709 0 |
| aying mains in Mulberry street and Bowery | F. Thilemann, Jr Warren Foundry and | May | 27 | 10,355 00 | Dec. | 27 | 8,147 25 | 7,739 8 |
| pipes, etc | Machine Co | June | I | 53,144 20 | ** | 23 | 58,443 56 | 58,443 5 |
| fifth street, etc urnishing stop-cocks, hy- | John Cornwell, Jr | July | 2 | 17,908 00 | | | | 15,546 9 |
| drants, etc | James M. Motley | ** | 14 | 13,894 00 | Nov. | 20 | 13,894 00 | 13,894 0 |
| way, etc way, etc | Borstman & Cornwell Warren Foundry and | Nov. | 9 | 7.748 00 | | | | |
| pipe, etc | Machine Co | Dec. | 2 | 12,850 00 | | | | |

STORAGE RESERVOIRS.

Water was drawn from the storage reservoirs in the Croton Basin from October 1 to October 29, since which time they have been gradually filling.

Water was drawn from the storage reservoirs in the Bronx water shed until December 18, 1886.

Storage Drawn.

| | GALLONS, OCT. 1 TO DEC. 31. | Gallons, Total for Year. |
|-------------------------|--------------------------------|--------------------------------|
| Boyd's Corner Reservoir | 610,000,000 | 1,790,000,000 |
| South East Reservoir | 950,000,000 | 2,300,000,000 |
| Kirk Lake | | 510,000,000 |
| Lake Mahopac | 280,000,000 | 280,000,00 |
| Lake Gleneida | | 90,000,000 |
| Lake Gilead | 130,000,000 | 130,000,000 |
| Barrett Pond | | 170,000,000 |
| Kensico Reservoir | 550,000,000 | 1,050,000,000 |
| Rye Ponds Reservoir | 600,000,000 | 1,100,000,000 |
| Total gallons | 3,120,000,000 | 7,420,000,000 |

Rain-fall-Inches.

| - | OCTOBER. | November. | DECEMBER. | TOTAL FOR QUARTER. | TOTAL FOR YEAR. |
|--------------------------|----------|-----------|-----------|--------------------------|-----------------------|
| Boyd's Corners Reservoir | 2.28 | 5.57 | 4.29 | 12.14 | 47.59 |
| South East Reservoir | 1.95 | 5.09 | 3.97 | 11.01 | 46.24 |
| Kensico Reservoir | 2.41 | 4.07 | 3.33 | 9.81 | 43.84 |
| Croton Dam , | 1.86 | 5.71 | 3.99 | 11.56 | 55.81 |
| Central Park Reservoirs | 3.46 | 4.38 | 3.03 | 10.87 | 45.00 |

| Croton Water Fund. | 41,63 |
|---|----------|
| Contingencies—Department of Public Works | |
| Iron Bridge over Fourth avenue, at Ninety-eighth street | 5,06 |
| Laving Croton Pipes | 77,34 |
| Laying Croton Pipes-Salaries | 4,02 |
| Repairing and Renewal of Pipes, Stop-cocks, etc. | 6,25 |
| Repairing and Renewal of Pipes, Stop-cocks, etcSalaries | 6,13 |
| Shipping and Building-Salaries | 1,46 |
| Water Supply, Twenty-fourth Ward | 1,18 |
| Water Supply, Twenty-fourth Ward—Salaries | 15 |
| Water Meter Fund, No. 2 | 7 |
| Total | \$195,58 |

Total

SUMMARY OF EXPENDITURES FOR THE YEAR 1886.

| Aqueduct-Repairs, Maintenance and Strengthening | \$183,022 |
|--|-----------|
| A meduct_Renairs. Maintenance and Strengthening-Salaries | 23,910 |
| Dears River Works-Maintenance and Kepairs | 16,275 |
| Brony River Works-Maintenance and Repairs-Salaries | 3,450 |
| Croton Water Fund. | 243,190 |
| Contingencies-Department of Public Works. | 870 |
| Iron Bridge over Fourth Avenue, at Ninety-eighth Street | 14,899 |
| Laying Croton Pipes. | 228,397 |
| Laying Croton Pipes -Salaries | 28,210 |
| Repairing and Renewal of Pipes, Stop-cocks, etc | 20,210 |

| | orage 1 | reservoi | r, boya | s corn | ers, 1 a | inum Ci | ouncy, 1 | v. 1., 11 | cinaing | Melted | Sno |
|-----------|---------|---------------|---------|--------|----------|---------|----------|-----------|---------|--------|-----|
| MONTH. | 1866. | 1 867. | 1868. | 1869. | 1870. | 1871. | 1872. | 1873. | 1874. | 1875. | 187 |
| January | 3.33 | 2.11 | 2.90 | 3.79 | 4.51 | 3.80 | 1.44 | 5.66 | 6.96 | 2.74 | 1 |
| February | 3.60 | 3.00 | 1.38 | 3.64 | 6.40 | 3.81 | 1.22 | 3.09 | 2.78 | 3.47 | |
| March | 3.33 | 1.49 | 2.55 | 5.48 | 3.80 | 4.27 | 2.59 | 3.08 | 1.57 | 4.99 | 1 |
| April | 3.79 | 3.74 | 3.87 | 2.11 | 5-45 | 3.01 | 3.04 | 3.77 | 6.31 | 3.04 | |
| May | 5.62 | 6.86 | 8.79 | 4.52 | 2 30 | 3.45 | 3.69 | 2.91 | 1.99 | 1.08 | 1 3 |
| June | 4.45 | 5.28 | 4.53 | 3.59 | 2.06 | 5.73 | 4.00 | 0.71 | 3.57 | 3.02 | 1 |
| July | 4.01 | 5.25 | 2.13 | 2.26 | 3.43 | 5.07 | 4.34 | 2.21 | 5.98 | 3.10 | 1 3 |
| August | 6.56 | 10.04 | 6.98 | 1.92 | 5.10 | 5.24 | 5.99 | 5.73 | 2.75 | 10.33 | 1 |
| September | 4.92 | 3.62 | 9.33 | 3.20 | 2.85 | 1.44 | 3.69 | 3.73 | 3.56 | 3.11 | |
| October | 5.09 | 3.66 | 0.87 | 9.46 | 4.73 | 6.18 | 2.15 | 5.13 | 2.40 | 3.61 | |
| November | 3.80 | 3.10 | 4.65 | 2.43 | 2.51 | 4.35 | 4.91 | 3.72 | 2.72 | 4.61 | 3 |
| December | 3.27 | 2.62 | 2.35 | 5.96 | 1.49 | 2.59 | 3.68 | 4.13 | 1.78 | 1.56 | 1 |
| Total | 51.77 | 50.77 | 50.33 | 48.36 | 44.63 | 48.94 | 40.74 | 43.87 | 42.37 | 43.66 | 40 |

THE CITY RECORD.

| | Rain | fall at | Storage | Reserv | oir, etc | (Con | tinued). | | | |
|-----------|-------|---------|---------|--------|----------|-------|----------|-------|-------|-------|
| Монтн. | 1877. | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. |
| January | 2.68 | 4.49 | 2.52 | 4.00 | 4.19 | 4.41 | 2.80 | 5.07 | 5.59 | 5.24 |
| February | 0.80 | 3.65 | 2.85 | 2.92 | 5.28 | 5.96 | 5. 21 | 6.31 | 4.66 | 5.20 |
| March | 7.66 | 3.10 | 4.96 | 4.51 | 6.14 | 4.58 | 1.67 | 4.82 | 1.29 | 3.86 |
| April | 2.35 | 2.85 | 5.10 | 3.99 | 1.67 | 1.36 | 3.94 | 2.95 | 2.09 | 3.61 |
| May | 0.85 | 4.97 | 2.45 | 1.17 | 3.74 | 6.30 | 2.86 | 4.33 | 2.44 | 4.54 |
| June | 4.95 | 4.65 | 5.29 | 1.28 | 5.72 | 3.04 | 5.64 | 2.04 | 1.19 | 3.09 |
| July | 4.65 | 4.28 | 5.95 | 5.65 | 2.45 | 3.63 | 4.26 | 6.54 | 5.27 | 4.40 |
| August | 2.54 | 2.66 | 5.83 | 3.60 | 1.71 | 3.92 | 2.09 | 4.50 | 7-35 | 3.21 |
| September | 1.49 | 6.61 | 3.43 | 2.69 | 0.75 | 14.33 | 2.45 | 1.69 | 1.09 | 2.30 |
| October | 8.38 | 3.78 | 0.95 | 3.25 | 3.65 | 3.33 | 6.99 | 3.74 | 5.19 | 2.28 |
| November | 8.16 | 4.36 | 2.49 | 2.97 | 4.50 | 1.66 | 1.79 | 4.37 | 5.99 | 5.57 |
| December | 1.52 | 8.74 | 4.26 | 2.49 | 6.53 | 2.68 | 3.45 | 7.34 | 3.84 | 4.29 |
| Total | 46.03 | 54.14 | 46.08 | 38.52 | 46.33 | 55.20 | 43.15 | 53.71 | 45.99 | 47.59 |

BRONX RIVER SUPPLY.

The commissioners appointed to appraise damages along the Bronx river, between White Plains and Bronxville, for the diversion of the water, have held regular meetings, and soon will be ready to report to the Supreme Court. The searches, maps, etc., necessary for the appointing of commissioners for the appraisal of damages along the Bronx river, between Bronxville and Woodlawn, are now being completed. The work on the Williamsbridge reservoir has been suspended for the winter. The regular force has been employed cleaning ditches, repairing roads, widening and fencing roads, and cleaning around, and in reservoirs. 1,195,000,000 gallons have been supplied to the City during the quarter. 5,210,000,000 gallons have been supplied from the Bronx river during the year 1886.

Lands Acquired and Damages Paid in 1886.

| PARCEL No. | NAME OF OWNER. | DAMAGES. | Amount Paid. | Remarks. |
|---------------|--------------------------------|------------------------|-----------------|----------------|
| 35 | Bridget Marran and others | For diversion of water | \$157 00 | By Commission. |
| I | Charles Dickinson and others | For land and damages | 3,107 00 | ** |
| 2 | Amanda Bussing and others | " | 1,000 00 | |
| 3 | Susan Ann Tier | " | 500 00 | " |
| 30 | Thomas N. Cooke and A. O'Brien | For diversion of water | 126 00 | |

Amount Expended to December 31, 1886.

| | Го December 31, 1885. | IN 1886. | TOTALS. |
|----------------------------|-----------------------------|--------------|----------------|
| Labor and material | \$2,289,989 99 | \$112,969 99 | \$2,402,959 98 |
| Land damages and expenses | 619,601 07 | 22,611 74 | 642,212 81 |
| Engineering and inspection | 228,200 00 | 24,266 00 | 252,466 00 |
| Totals to date | \$3,137,791 06 | \$159,847 73 | \$3,297,638 79 |

SURVEYS, ETC., FOR THE NEW AQUEDUCT.

During the year 1886, surveys, maps and plans and specifications for the Double Reservoir I, in South East, Putnam County, New York, have been submitted to the Aqueduct Commissioners. Maps of lands required south of One Hundred and Thirty-fifth street, and plans and estimates of gate house at One Hundred and Thirty-fifth street and Convent avenue, have been submitted to

the Aqueduct Commissioners. Maps, plans, specifications and estimates for conduit-pipes, gate-house, etc., between One Hun-dred and Thirty-fifth street and Central Park Reservoir, have been submitted to the Aqueduct Commissioners.

Maps, plans, etc., for additional lands south of Harlem river, and for connection to engine-house at High Bridge, have been submitted to the Aqueduct Commissioners. Maps of lands required for additional shafts in Westchester County have been submitted to the

Aqueduct Commissioners. Surveys and maps of lands for Reservoir purposes on the Croton river, between Croton Dam and Croton Falls, have been continued with a reduced force during the year. The necessary surveys, maps, etc., for the use of the Land Commissioners appointed to appraise the lands taken for the New Aqueduct in Westchester County have been made and furnished as called for under instructions of the Corporation Counsel.

AQUEDUCT REPAIRS, MAINTENANCE AND STRENGTHENING.

The Aqueduct during the quarter has steadily carried the full flow of water, and in November another inch in depth of water was run in same, which is all that can be carried with any degree of safety until thorough repairs can be done in the inside of the Aqueduct.

Work Done during the Quarter ending December 31, 1886.



| | ttion. | .per | ż | FER | NCR. | duct. | an I Grading. | and Seeding. | nry. | onry. | nry. | | | Dock. | aid. | Broken Concrete. |
|----------|----------------------|----------------|--------------|----------------|---------------|----------------------|--------------------|--------------------|----------------|-----------------------|---------------|-------------|---------------|---------------|----------------|-----------------------|
| | Earth Excavation. | Stone Quarried | Dry Masonry. | Repaired. | Built. | Arching Aqueduct. | Filling and Gra | Sodding and See | Stone Masonry. | Cut-stone Masonry. | Brick Masonry | Paving. | Tile Pipe. | Planking D | Flagging Laid. | Stone Brok for Con |
| | Cu. yds. | Cu. yds. | Cu. yds. | Lin, feet, | Lin. feet. | Lin. fcet. | Cu. yds. | Sq. yds. | Cu. yds. | Cu. feet | Cu. feet. | Sq. yds. | Lin. fcet. | Feet B. M. | Sq. feet. | Cu. feet. |
| First | | | | | 380 | | | | | | | | | | | |
| Second . | 250 | 125 | 1,084 | | 6,820 | | | : | | | | | | | 136 | |
| Third | 1,131 | 460 | 859 | 1,771 | 7,290 | | | | | | | | ICO | | | |
| Fourth . | 1,342 | | 691 | 2,250 | 280 | 433 | 775 | 320 | 307 | | 63 | | | | | |
| Fifth | 1,127 | | 438 | 3,400 | 2,700 | | 640 | 2,359 | 624 | | | 722 | | | | |
| Sixth | 1,359 | 2263 | 1,839 | 1,500 | 2,910 | 1,098 | 1,003 | 450 | 609 | | 244 | | | | | |
| Seventh | 105 | | 3 | | 510 | | 72 | | 27 | 2,440 | | | | 18,180 | | 1,93 |
| Eighth | 148 | | | r , 996 | 3,405 | | | | 23 | | 12 | | | | | |
| Total | 5,462 | 3,218 | 4,914 | 11,917 | 24,295 | 1,531 | 2,490 | 3.129 | 1.590 | 2,440 | 319 | 722 | 100 | 18,180 | 136 | 1,93 |

The general work of keeping the Aqueduct property in good condition, cutting grass, repairing fences, cleaning gates, stop-cocks, etc., has been steadily carried on. The condition of the Aqueduct is better than a year ago. Three bad embankments on the Sixth Division have been re-arched and re-enforced by retaining-walls, and the leaks at these places— very troublesome last winter — are now easily controlled. The Jaffrey bank, on the Fourth Division, has also been re-arched. This concludes the re-arching of embankments north of Yonkers, all the bad and dangerous banks having now been repaired down to that point. Much and very important work remains to be done, however, on the Sixth Division. The condition of this part of the Aqueduct is such as to cause much apprehension and to require the closest attention and care.

Little has been attempted on the First Division except the general repairs and maintenance. It became necessary last January to establish a police supervision of our works at Croton Dam, on account of the lawlessness of the men at work on the New Aqueduct. On the Second Division the year has been chiefly spent on the high retaining-wall at Quaker

Bridge. On the Third Division a great deal of attention has been given to rebuilding retaining-walls, walls having been built at Croton avenue, Tarrytown, Daniels' bank, Morrell's bank, Buttman's bank and Sampson's bank. The Aspinwall leak continues to require close attention and constant

doctoring. On the Fourth Division, Jaffrey's bank has been re-arched. A new retaining-wall at Minturn's, and a small wall in Dobbs' Ferry, have been built. The thorough repairs made at the Dobbs' Ferry leak in 1885 have been proved, inasmuch as

The thorough repairs made at the Dobbs' Ferry leak in 1885 have been proved, inasmuch as the leak continues dry. On the Fifth Division the whole year has been occupied in the effort to put the "Glen" at Yonkers in proper shape, and enough has been done to indicate a completion of what is necessary to that end during the present year, 1887. Additional land should be acquired here, as has been often recommended heretofore. More work has been done on the Sixth Division than anywhere else. About 1,100 feet of arch-ing has been done and much energy and skill have been shown by the Keeper in caring for his numerous leaks and conducting the work of repairs and strengthening. On Sunday, July 11, 1886, a bad break occurred on the Sixth Division, one mile below South Yonkers. It was on the side of the Aqueduct, above the spring-line of the arch, and it was not necessary repairs. The repairs were complete and the water running as usual July 14. On the Seventh Division the stone work on the High Bridge steps is now complete, and there remains the platform and grading to finish the work. Work has been commenced on the excavation for wall about the high-service reservoir, at Tenth avenue, but at this date but little has been accomplished. On the Eighth Division the work has been little else but general repairs and maintenance.

| HIGH 1 | BRIDGE, | 1886. |
|--------|---------|-------|
|--------|---------|-------|

| NUMBER OF DAYS PUMPING. | NUMBER OF STROKES. | HEIGHT PUMPED, FEET. | NUMBER OF GALLONS PUMPED. | POUNDS OF COAL CONSUMED. | GALLONS OF OIL EXPENDED, | POUNDS OF WASTE EXPENDED. |
|----------------------------|-----------------------|----------------------------|------------------------------|--------------------------------|--------------------------------|---------------------------------|
| 365 | 26,632,667 | 100 | 1,996,950,036 | 3,520,795 | 568 | 374 |
| Average per month | 2,219,389 | 100 | 166,454,169 | 293,400 | | |

Average duty, 47,305,600 pounds raised 1 foot with 100 pounds of coal. Average amount pumped daily, 5,472,466 gallons. Average cost of pumping 1,000,000 gallons 100 feet high, \$8.09.

NINETY-EIGHTH STREET, 1886.

Performance of High Service Pumping Engines at Ninety-eighth Street Engine-house,

| NUMBER OF DAYS PUMPING. | NUMBER OF STROKES. | HEIGHT PUMPED, FEET. | NUMBER OF GALLONS PUMPED. | Pounds of Coal Consumed. | GALLONS OF OIL EXPENDED. | POUNDS OF WASTE EXPENDED |
|----------------------------|-----------------------|----------------------------|------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 365 | 27,045,980 | 70 | 2,948,011,820 | 3,448,418 | 412 | 182 |
| Average per month | 2,253,791 | 70 | 245,667,651 | 287,368 | | |

Average duty, 49,915,300 pounds raised 1 foot with 100 pounds of coal. Average amount pumped daily, 8,076,744 gallons. Average cost of pumping 1,000,000 gallons 70 feet high, \$5.04

HIGH SERVICE DISTRICT.

Being that portion of the City furnished water from the Pumping Stations at High Bridge and

385

| | cava | Quarr | Maso | ed. | 1 | anb | ding, | Maso | stone Maso | ck Maso | ing. | Bro | | | Ninety-eig | ghth street. | | | |
|-----------|---------------|-------------|-------------|---------------|---------------|-----------------|----------------------|-------------|---------------|-------------|-------------|-----------------------|---|-------------------------------|------------------------|--------------|--------------------------|-------|------------------------|
| DIVISION. | Earth Exca | Stone | Dryl | Re- pair | Built. | Arching Aque | Filling, Grading, | Stone | Cut-s | Brick | Pavir | Stone Bro for Conc | YEAR. | AMOUNT PUMPED DURING YEAR. | Average per Day. | YEAR. | Amount Pum during yea | | DAY. |
| | Cu. yds. | Cu. yds. | Cu. yds. | Lin. feet. | Lin. feet. | Lin. feet. | Cu. yds. | Cu. yds. | Cu. feet. | Cu. yds. | Sq. yds. | Cu. feet. | 1831 | Gallons. 4,236,054,274 | Gallons. 11,600,000 | 1884 | Gallons. 4,467,054,77 | + | Gallons. 12,300,000 |
| First | | | | | 380 | | | | | | | | 1882 | 4,340,846,520 | 11,000,000 | 1885 | 4,525,694,52 | 7 | 12,400,000 |
| Second | | 50 | 300 | | 2,900 | | | | | | | | 1883 | 4,445,526,368 | 12,200,000 | 1886 | 4,944,961,85 | 5 | 13,500,000 |
| Third | | 300 | 248 | | 3,439 | | | | | | | | | | | | | - | |
| Fourth | 22 | | 339 | 650 | 230 | | 775 | | | | | | | | SUPPLYING. | | | 1881. | 1886. |
| Fifth | 570 | | 254 | 1,400 | 1,000 | | 50 | 200 | | | 120 | | | | | | 0.720 | - | |
| Sixth | 345 | 625 | 600 | 1,500 | 2,400 | 490 | 245 | 372 | | 109 | | | Dwellings, flats and tenements Factories, breweries, depots, etc | | | | 7,492 | 9,104 | |
| Seventh | 75 | | | | | | 72 | | 1,103 | | | 1,931 | | ····· | | | | 83 | 2,823 |
| Eighth | | | | т,486 | | | | | | | | | Schools, churches, | asylums, etc | •••••• | | | 588 | 177 |
| | - | | | | 1 | | | | | | | | Total | | | | | 8,607 | 12,249 |
| Total | 1,012 | 975 | 1,741 | 5,030 | 10,349 | 490 | 1,142 | 472 | 1,103 | 109 | 120 | 1,931 | The largest | t flats and stables | are in this distri | ct. | | | |

THE CITY RECORD.

FEBRUARY II, 1887.

There are in the city 96,581 taps from three-eighths to one inch in size, and 266 four-inch con-nections with the water-mains, equal to an area of 219 square feet. Area of the Aqueduct, 53.34 square feet; area of Bronx River conduit, 12.57 square feet.

Laving Croton Pipes.

seventh streets.

Lexington avenue, between Ninety-fifth and Ninety-seventh streets. Sixth avenue, west side, between One Hundred and Thirty-third and One Hundred and Thirty-

sixth streets.

Sixth avenue, between One Hundred and Fortieth and One Hundred and Forty-first streets. Tenth avenue, between Eightieth and Eighty-first streets. Tenth avenue, between Eighty-seventh and Eighty-eighth streets.

Eleventh avenue and Boulevard, between One Hundred and Thirty-eighth and One Hundred and Seventy-third streets.

One Hundred and Seventy-fifth street, between Vanderbilt and Webster avenues. One Hundred and Eighty-third street, between Morris and Creston avenues. Brown Place, between One Hundred and Thirty-fourth and One Hundred and Thirty-fifth stree

Highbridge road, between Jerome and Creston avenues. Southern Boulevard, between One Hundred and Forty-fifth and One Hundred and Forty-ninth streets

Brook avenue, between One Hundred and Thirty-third street and Harlem river. Creston avenue, between One Hundred and Eighty-third and One Hundred and Eighty-fourth

streets. Morris avenue, between High Bridge road and One Hundred and Eighty-third street. Sedgwick avenue, between Morris Dock and Kingsbridge road. Vanderbilt avenue (west side), between One Hundred and Seventy-seventh street and four hun-dred and fifty feet south of One Hundred and Seventy-fifth street. One contract for furnishing pipe and one contract for laying pipe has been entered into. One contract for furnishing pipe, one contract for furnishing stop-cocks, hydrants, etc., and two contracts for laying pipe have been completed.

| Amount of Fipe Laid. | | |
|---------------------------------|---|---|
| 12-inch 14,500 lineal feet. 51, | During Year. 098 líneal feet. 400 " | |
| Totals | 498 lineal feet= | =24 ⁵² / ₁₀₀ miles. |
| Stop-cocks Set. | | |
| 12-inch | During Quarter. 17 38 | During Year. 41 144 |
| Total | 55 | 185 |
| Hydrants Placed. | | |
| | | During Year 181 47 24 |
| Total | | 252 |

Summary, 1886.

| | PIPE | zs. | | S | rop-coc | KS. | HVDRANTS. | | | | |
|-----------------------|---------------------------------------|--|---|------------------------------------|----------------------------|---|-----------------|---|-----------------------------|---|--|
| Diameter of Pipes. | Pipes Laid to Dec. 31, 1885, feet. | Pipes Laid Dec. 31, 1885, to Dec. 31, 1886, feet. | Total Pipe Laid to Dec. 31, 1886, feet. | Stop-cock Set to Dec. 31, 1885. | Stop-cocks Set in 1886. | Total Stop-cocks Set Dec. 31, 1886. | Pattern. | Hydrants Placed to Dec. 31, 1885. | Hydrants Placed in 1886. | Total Hydrants Placed to Dec. 31, 1886. | |
| 48-inch | 65,654 | | 65,654 | 16 | | 16 | Nos. 1, 2 and 3 | 3,443 | 24 | 3.457 | |
| 36-inch | 94.573 | | 94.573 | 40 | | 40 | Victor | 139 | | 139 | |
| 30-inch | 41,773 | | 41,773 | 29 | | 29 | "A" hydrants | 2,336 | 181 | 2,517 | |
| 24-inch | 11,542 | | 11,542 | 13 | | 13 | "B" hydrants | 1,663 | 47 | 1,710 | |
| 20-inch | 193,047 | | 193,047 | 180 | | 180 | | | | | |
| 16-inch | 17,130 | | 17,130 | 22 | | 22 | Totals | 7,581 | 252 | 7,833 | |
| 12-inch | 728,621 | 51,098 | 779,719 | 1,440 | 41 | 1,481 | | | | | |
| 10-inch | 6,629 | | 6,629 | 15 | | 15 | | | | | |
| 6-inch | 1,870,231 | 78,400 | 1,948,631 | 4,225 | 144 | 4,369 | | | | | |
| 4-inch | 32,867 | | 32,867 | 119 | | 119 | | | | | |
| Total feet. | 3,062,067 | 129,498 | 3.191,565 | 6,099 | 185 | 6,284 | | | | | |
| Miles | 579.93 | | 604.46 | | | | | | | | |

Sixth avenue, west side, from One Hundred and Thirty-third to One Hundred Thirty-sixth street. Tremont avenue, between Third and Boston avenues. Lexington avenue, between One Hundred and Nineteenth and One Hundred and Twentieth stree Eighth avenue, between Sixty-sixth and Eighty-first streets. Worth street, between Broadway and Baxter street. Madison avenue, between One Hundred and Fifteenth and One Hundred and Sixteenth streets. Madison avenue, between One Hundred and Fitteentn and One Hundred and Sixteenth streets. Madison avenue, between Ninety-first and Ninety-second streets. Eleventh avenue, between Seventieth and Seventy-second streets. Eleventh avenue, between Kingsbridge road and One Hundred and Seventy-third street. Bowery, west side, between Bleecker street and Chatham square. Mulberry street, from Bleecker street to Park row. Southern Boulevard, between One Hundred and Forty-fifth and One Hundred and Forty-ninth ate streets. Six-unch Pipe. One Hundred and Sixth street, between Eighth and Ninth avenues. Eagle avenue, between One Hundred and Forty-ninth street and Westchester avenue. Tenth avenue, between One Hundred and Fourth and One Hundred and Fifth streets. Tenth avenue, between Niether (such and Fourth and One Hundred and Fifth streets. Eagle avenue, between One Hundred and Forty-ninth street and Westchester avenue. Tenth avenue, between One Hundred and Fourth and One Hundred and Fifth streets. Tenth avenue, between Ninety-fourth and Ninety-fifth streets. Tenth avenue, between Eighty-third and Ninetieth streets. Tenth avenue, between Eighty-third and Ninetieth streets. Tenth avenue, between Eighty-third and Ninetieth streets. Tenth avenue, between Seventy-ninth and Eightieth streets. One Hundred and Twenty-first street, between Sixth and Seventh avenues. One Hundred and Twenty-first street, between Seventh and Eighth avenues. One Hundred and Twenty-first street, between Seventh and Eighth avenues. One Hundred and Twenty-ninth street, between Eighth and St. Nicholas avenues. Troy street, form Sidney street, south. Ninetieth street, between Eighth and Ninth avenues. One Hundred and Third street, between Fourth and Fifth avenues. One Hundred and Third street, between Fourth and Tenth avenues. Thirty-first street, between First and Second avenues. Eighty-first street, between First and Second avenues. Eighty-first street, between Avenues A and B. One Hundred and Forty-sixth street, between Third and College avenues. Ninety-fourth street, between Fourth and Fifth avenues. One Hundred and First street, between Second and Third avenues. Ninety-fourth street, between Fourth and Fifth avenues. One Hundred and First street, between Second and Third avenues. Avenue A, between Fifty-fourth and Fifty-fifth streets. Avenue A, between Fifty-fourth and Fifty-fifth streets. Monroe avenue, between One Hundred and Seventy-seventh street and Washington place. Monroe avenue, between One Hundred and Seventy-sixth and Gray streets. Gray street, between Monroe avenue and Clinton street. Monroe avenue, between One Hundred and Seventy-sixth and Gray streets. Gray street, between Gray and Spring streets. Clinton street, between Gray and Spring streets. Kingsbridge road, between Riverdale avenue and Johnson's foundry. Columbia avenue, between Riverdale avenue and Monroe avenue. One Hundred and Forty-fifth street, both sides, between Eighth and St. Nicholas avenues. Seventy-second street, both sides, between Eighth and Ninth avenues. Seventy-second street, north side, between Boulevard and Eleventh avenue. Anthony avenue, between One Hundred and Seventy-seventh and Ash streets. Ash street, from Anthony avenue, 400 feet west. One Hundred and Fifteenth street, from Avenue A, 250 feet east. One Hundred and Fifteenth street, between Seventh and Cighth avenues. New avenue, between One Hundred and Sixteenth and One Hundred and Twenty-fifth streets. Ninety-seventh street, between Ninth and Tenth avenues. Ninety-seventh street, between Ninth and Tenth avenues. Eighty-seventh street, between Eighth and Ninth avenues Fairmount avenue, between Third avenue and Vineyard place. Prospect avenue, between Fairmount and Tremont avenues. One Hundred and Nineteenth street, between Fifth and Madison avenues. One Hundred and Nineteenth street, between Sixth and Seventh avenues. Broadway, between Manhattan and One Hundred and Twenty-ninth streets. One Hundred and Fifty-sixth street, between Courtland and Elton avenues Eightieth street, between Ninth and Tenth avenues. Eightieth street, between Ninth and Tenth avenues. Eleventh avenue, between One Hundred and First and One Hundred and Second streets. Eleventh avenue, between Seventy-seventh and Seventy-righth streets. Eleventh avenue, between Seventy-seventh and Seventy-righth streets. Eleventh avenue, between Seventy-second and Seventy-third streets. Eleventh avenue, between Seventy-second and Seventy-third streets. Eleventh avenue, between Seventy-second and Seventy-third streets. One Hundred and Fifty-third street, between Tenth avenue and Boulevard. Ninety-eighth street, between Ninth and Tenth avenues. One Hundred and Thirty-sixth street, between Eighth and St. Nicholas avenues. Creston avenue, between One Hundred and Eighty-third and One Hundred and Eighty-fourth ets. streets One Hundred and Eighty-third street, between Creston and Morris avenues. Morris avenue, between One Hundred and Eighty-third street and High Bridge road. Sixty-fifth street, between Boulevard and Tenth avenue. Sixty-fifth street, between Boulevard and Tenth avenue. Highbridge road, between Creston and Jerome avenues. One Hundred and Twentieth street, between Fifth and Sixth avenues. One Hundred and Twentieth street, between Fifth and Seventh avenues. One Hundred and Sixteenth street, between Sixth and Seventh avenues. One Hundred and Sixty-fifth street, between Morris and Sheridan avenues. One Hundred and Sixty-fifth street, between Morris and Sheridan avenues. One Hundred and Sixty-fifth street, between Sheridan and Geard avenues. Sedgwick avenue, between Morr's Dock and Kingsbridge road. One Hundred and Thirty-seventh street, between Eighth and Edgecombe avenue. Fifth-fifth street, from avenue A to 250 feet east. Bailey and Albany avenues, between Riverdale avenue and Montgomery place. Lexington avenue, between One Hundred and Seventy-fifth and One Hundred and Seventy-enth streets. seventh streets Sixty-eighth street, between Ninth avenue and Boulevard. One Hundred and Thirty-fifth street, between Seventh and Eighth avenues. Edgecombe avenue, between One Hundred and Thirty sixth and One Hundred and Thirty-

Sixth avenue, west side, from One Hundred and Nineteenth to One Hundred and Twenty-first

eath streets. Ninety-fifth street, between Eighth and Ninth avenues.

One Hundredth street, between Second and Third avenues. Seventy-third street, between Avenue A and First avenue.

Sixty-seventh street, between Second and Third avenues. Ninety-ninth street, between First avenue and East river.

Brook avenue, between One Hundred and Thirty-third street and Harlem river. Seventy-eighth street, between Eleventh avenue and Riverside Drive. Ninety-sixth street, between Third and Lexington avenues.

STREETS AND AVENUES IN WHICH WATER-MAINS HAVE BEEN LAID IN 1886.

Twelve-inch Pipe.

| Boulevard, east side, from One Hundred and Thirty-seventh street to Kingsbridge road. | South side Worth street, between Floadway and Castro streets |
|--|--|
| Eleventh avenue, between Sixty-fourth and Sixty-seventh streets. | South side Worth street, between Elm and Centre streets |
| | Northwest corner Worth and Centre streets |
| Sixth avenue, west side, between One Hundred and Fifteenth and One Hundred and Sixteenth | |
| streets. | North side Worth street, between Mission place and Baxter street |
| Kingsbridge road, between McComb's Dim road and Builey avenue. | West side Bowery, between Pell and Doyer streets. |
| Bauey avenue, between Kingsbridge road and Riverdale avenue. | West side Bowery, between Pell and Bayard streets |
| Riverdale avenue, between Bailey avenue and Broadway. | West side Bowery, between Bayard and Canal streets |
| Riverdale avenue, between Church street and Kingsbridge road. | West side Bowery, between Canal and Hester streets |
| Broadway, from Riverdale avenue to Church street. | West side Bowery, between Hester and Grand streets |
| Fourth avenue, west side, from One Hundred and Twentieth to One Hundred and Twenty- | West slide bowery, between riester and Orania succession |
| | West side Bowery, between Grand and Broome streets |
| first street. | West side Bowery, between Broome and Spring streets |
| Seventieth street, between Tenth and Eleventh avenues. | West side Bowery, between Spring and Prince streets |
| Ninth avenue, between Sixty fifth and Sixty-eighth streets. | West side Bowery, between Prince and Houston streets |
| Ninth avenue, between Seventy-third and Seventy-seventh streets. | West side Bowery, between Houston and Bleecker streets |
| Ninth avenue, between Eighty-seventh and One Hundredth streets. | Northeast corner Mulberry street and Park Row |
| Ch Nicholas avenue east side from One Hundred and Twenty eighth to One Hundred and | East side Mulberry street, between Park Row and Worth street |
| | Last side Mulberry succes, between Fair Row and worth succession and the succession and t |
| Forty-fifth street. | Northwest corner Mulberry and Worth streets |

One Hundred and Seventy fifth street, between Vanderbilt and Webster avenues. Eighty-eighth street, between Tenth avenue and Boulevard.

Sixth avenue, east side, between One Hundred and Fortieth and One Hundred and Forty-first

Brown place, between One Hundred and Thirty-fourth and One Hundred and Thirty-fifth street

Sheridan avenue, between One Hundred and Sixty-fourth and One Hundred and Sixty-fifth streets.

"B" Hydrants Set in 1886.

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| | South side Worth street, between Broadway and Elm street |
|----------|--|
| 1. | South side Worth street, between Elm and Centre streets |
| | Northwest corner Worth and Centre streets |
| ixteenth | South side Worth street, between Centre street and Mission place |
| | North side Worth street, between Mission place and Baxter street |
| | West side Bowery, between Pell and Doyer streets. |
| | West side Bowery, between Pell and Bayard streets |
| | West side Bowery, between Bayard and Canal streets |
| | West side Bowery, between Canal and Hester streets |
| | West side Bowery, between Hester and Grand streets |
| Twenty- | West side Bowery, between Grand and Broome streets |
| | West side Bowery, between Broome and Spring streets |
| | West side Bowery, between Spring and Prince streets |
| | West side Bowery, between Prince and Houston streets |
| | West side Bowery, between Houston and Bleecker streets |

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| East side Mulberry street, between Park and Bayard streets | 2 Northeast corner Courtland avenue and One Hundred and Fifty-sixth street |
|---|--|
| East side Mulberry street, between Park and Bayard streets | 2 Northwest corner Elton avenue and One Hundred and Fifty-sixth street |
| East side Mulberry street, between Bayard and Canal streets | 2 Southwest corner Fairmount avenue and Broad street. |
| Northern north Multiparty and Haster streats | I Southwest corner Fairmount avenue and Grove avenue |
| Northeast corner Mulberry and Hester streets | South west corner Fairmount avenue and Grove avenue |
| West side Mulberry street, between Hester and Grand streets | I South side Fairmount avenue, between Grove and Prospect avenues. |
| West side Mulberry street, between Grand and Broome streets | I South side Fairmount avenue, between Prospect avenue and Vineyard place |
| East side Mulberry street, between Grand and Broome streets | I Northwest corner Melrose avenue and One Hundred and Fifty-sixth street |
| East side Mulberry street, between Broome and Spring streets | 2 West side Monroe avenue, between One Hundred and Seventy-sixth and Gray streets |
| East side Mulberry street, between Spring and Prince streets | Northeast corner Monroe avenue and Gray street. Northwest corner Morris avenue and One Hundred and Eighty-third street. |
| East side Mulberry street, opposite Jersey street | I Northwest corner Morris avenue and One Hundred and Eighty-third street |
| West side Mulberry street, between Prince and Houston streets | 2 West side Morris avenue, between One Hundred and Eighty-third and One Hundred and |
| East side Mulberry street, between Houston and Bleecker streets | 2 Eighty-fourth streets |
| | Northwest corner Morris avenue and One Hundred and Eighty-fourth street |
| "A" Hydrants Set in 1886. | West side Morris avenue, between One Hundred and Eighty-fourth street and High Bridge road. |
| | J Southwest corner Morris avenue and High Bridge road |
| North side Fifty-fifth street, 200 feet east of Avenue A. | East side Prospect avenue, between One Hundred and Seventy-fifth street and Woodruff avenue |
| North side Sixty-fifth street, between Boulevard and Tenth avenue | I Northeast corner Prospect and Woodruff avenues |
| North side Sixty-eighth street, between Boulevard and Ninth avenue | I Southeast comer Prospect and Woodfull avenues. |
| North side Seventy-second street, between Eighth and Ninth avenues | I Southeast corner Prospect avenue and Waverly place |
| South side Seventy-second street, between Eighth and Ninth avenues | 2 East side Prospect avenue, south of Tremont avenue |
| North side Seventy-second street, between Boulevard and Eleventh avenue | West side Sedgwick avenue, between Morris Dock and Fordham Landing road |
| North side Eightieth street, between Ninth and Tenth avenues | West side Sedgwick avenue, between Fordham Landing road and Kingsbridge road |
| North side Eighty-first street, between Eighth and Ninth avenues | Northwest corner Sheridan avenue and One Hundred and Sixty-fifth street |
| South side Eighty-fifth street, between Eighth and Ninth avenues | Northeast corner Tremont and Central avenues |
| North side Eighty-seventh street, between Eighth and Ninth avenues. | 2 South side Tremont avenue, east of Jefferson avenue |
| North side Lighty-section sheet, between Eighth and Ninth avenues. | South side Tremont avenue, east of Grove avenue |
| North side Ninetieth street, between Eighth and Ninth avenues | South side Tremont avenue, west of Prospect avenue |
| South side Ninety-fourth street, between Madison and Fourth avenues | Southeast corper Tremont and Johnson avenues |
| North side Ninety-fifth street, between Eighth and Ninth avenues | 1 Southeast corner Tremont and Johnson avenues. 2 Southwest corner Tremont avenue and Southern Boulevard |
| North side Ninety-fifth street, between Lexington and Fourth avenues North side Ninety-seventh street, between Ninth and Tenth avenues | Southwest corner Tremont avenue and Orchard street. |
| North side Ninety-seventh street, between Ninth and Tenth avenues | 2 North side Transit evenue and Orcharing street |
| North side Ninety-eighth street, between Ninth and Tenth avenues | I North side Tremont avenue, east of Catharine street. |
| North side One Hundred and First street, between Second and Third avenues | 2 Southwest corner Tremont avenue and Chestnut street |
| North side One Hundred and Third street, between Ninth and Tenth avenues | Southwest corner Tremont and Boston avenues West side Vanderbilt avenue, between One Hundred and Seventy-fourth and One Hundred and |
| North side One Hundred and Fifteenth street, 160 feet east of Avenue A | 2 West side Vanderbilt avenue, between One Hundred and Seventy-fourth and One Hundred and |
| North side One Hundred and Sixteenth street, between Fourth and Madison avenues | Seventy-fifth streets |
| North side One Hundred and Nineteeth street, between Sixth and Seventh avenues. | ² Seventy-fifth streets West side Vanderbilt avenue, between One Hundred and Seventy-fifth and One Hundred and |
| | Seventy-sixth streets |
| North side One Hundred and Twentieth street, between Sixth and Seventh avenues | West side Vanderbilt avenue, between One Hundred Seventy-sixth and One Hundred and |
| North side One Hundred and Twentieth street, between Sixth and Mount Morris avenues | 1 Seventy-seventh streets 2 Northeast corner Walton avenue and One Hundred and Sixty-fifth street |
| North side One Hundred and Twenty-first street, between Sixth and Seventh avenues | ² Northeast corner Walton avenue and One Hundred and Sixty fifth street |
| North side One Hundred and Thirty-fifth street, between Seventh and Eighth avenues | ² West side Farle avenue between One Hundrad and Early mith street and Westchester avenue |
| North side One Hundred and Thirty-sixth street, between Eighth and St. Nicholas avenues | 2 West side Eagle avenue, between One Hundred and Forty-ninth street and Westchester avenue. West side Brown place, between One Hundred and Thirty-fourth and One Hundred and Thirty- |
| North side One Hundred and Thirty seventh street, between Eighth and Edgecombe avenues. | 2 West side Brown place, between One Hundred and Thirty-Journ and One Hundred and Thirty- |
| North side One Hundred and Fifty-third street, between Boulevard and Tenth avenue | ² fifth streets. |
| North side One Hundredth street, between Second and Third avenues, | ² Southwest corner Southern Boulevard and One Hundred and Forty-fifth street |
| Northeast corner Riverside Drive and Seventy-eighth street | Southwest corner Southern Boulevard and One Hundred and Forty-seventh street |
| Northeast corner St. Nicholas avenue and One Hundred and Twenty-first street | Northwest corner Southern Boulevard and One Hundred and Forty-ninth street |
| Northeast corner St. Nicholas avenue and One Hundred and Twenty-ninth street | |
| Northeast corner St. Nicholas avenue and One Hundred and Thirtieth street | "No. 1" Hydrants Set in 1886. |
| | I West side Troy street, 300 feet south of Sidney street |
| Southeast corner St. Nicholas avenue and One Hundred and Thirty-seventh street | Continued any and the south of standy street. |
| Northeast corner St. Nicholas avenue and One Hundred and Forty-first street | I Southwest corner Riverdale avenue and Kingsbridge road |
| Northeast corner St. Nicholas avenue and One Hundred and Forty-fifth street | I North side Riverdale avenue, between Bailey avenue and Broadway |
| Southeast corner St. Nicholas avenue and One Hundred and Forty-fifth street | I Northwest corner Riverdale avenue and Ackerman street |
| West side New avenue, between One Hundred and Sixteenth and One Hundred and Seven- | Kingsbridge road, between Riverdale avenue and Johnson's foundry |
| teenth streets | I South side Kingsbridge road, east of Sedgwick avenue |
| Northwest corner New avenue and One Hundred and Twentieth street | I South side Kingsbridge road, between Sedgwick and Bailey avenues |
| Northwest corner Coogan avenue and One Hundred and Forty-fifth street | I Northwest corner Kingsbridge road and Bailey avenue |
| Southwest corner Edgecombe avenue and One Hundred and Forty-fifth street | North side of Kingsbridge |
| Southeast corner Boulevard and One Hundred and Forty-first street | V South side of Kingsbridge. |
| Northeast corner Boulevard and One Hundred and Forty-fifth street | I West side Albany avenue, between Bailey avenue and Montgomery place |
| Northeast corner Boulevard and One Hundred and Forty-eighth street | I West side Bailey avenue, between Kingsbridge road and Riverdale avenue |
| Northeast corner Boulevard and One Hundred and Fiftieth street. | North side Broadway, between Riverdale avenue and Church street. |
| Northeast corner Boulevard and One Hundred and Fifty-fifth street | I Church street, between Broadway and Riverdale avenue |
| Northeast corner boulevard and One Flughted and Flity-inth street. | I North side Ninety-ninth street, between First avenue and East river |
| Northeast corner Boulevard and One Hundred and Fifty-sixth street | I Department Yard, One Hundred and Nineteenth street and East fiver |
| Northeast corner Boulevard and One Hundred and Fitty-seventh street | I Department Yard, One Hundred and Nineteenth street and St. Nicholas avenue |
| Northeast corner Boulevard and One Hundred and Sixtieth street | I |
| Northeast corner Boulevard and One Hundred and Sixty-fifth street | I PERMITS TO OPEN STREETS ISSUED IN 1886. |
| Southwest corner Madison avenue and Ninety-first street | Equitable Gas-light Company. |
| Northwest corner Madison avenue and Ninety-fifth street | I Equilable Gas-light Company. |
| Northeast corner Madison avenue and One Hundred and Third street | I Broadway, between Forty-ninth and Fifty-eighth streets. |
| Southeast corner Madison avenue and One Hundred and Sixteenth street | I Fifty-eighth street, between Broadway and Eleventh avenue. |
| East side Lexington avenue, between Ninety-fifth and Ninety-sixth streets | I Eighth avenue, between Greenwich avenue and Bank street. |
| Northeast corner Lexington avenue and Ninety-sixth street | I Hudson street, between Bank and Canal streets. |
| West side Lexington avenue, between One Hundred Nineteenth and One Hundred and | Third street, between Second avenue and Avenue C. |
| Twentieth streets | I Canal street, between Hudson street and Bowery. |
| Twentieth streets | I Pitt street, between Grand and Houston streets. |
| West side Dioadway, between maintaina and Dawrence steets | Automa C. between Gland and Houston streets. |
| Northwest corner Avenue A and Seventy third street | I Avenue C, between Houston and Seventeenth streets. |
| Northeast corner First avenue and Seventy-third street | I Seventeenth street, between Avenues A and C. |
| Northwest corner Second avenue and Sixty-seventh street | I Tenth avenue, between Fifty-eighth and Thirty-first streets. |
| Northeast corner Second avenue and One Hundredth street. | I Thirty-first street, between Seventh and Tenth avenues. |
| Northeast corner Third avenue and Sixty-seventh street. | I Ninth avenue, between Fourteenth and Thirty-first streets. |
| Northwest corner Fourth avenue and Ninety-fifth street | I Hudson street, between Fourteenth and Bank streets. |
| Southwest corner Fourth avenue and One Hundred and Sixteenth street | I Seventeenth street, between Eighth and Ninth avenues. |
| Northeast corner Fifth avenue and Ninety fifth street | I Forty-second street, between Eighth and Tenth avenues. |
| Northeast corner Fifth avenue and One Hundred and Third street | I Fourth avenue, between Eighth and Fourteenth streets. |
| Southwest corner Fifth avenue and One Hundred and Twentieth street | I Eighteenth street, between Broadway and Sixth avenue. |
| Northwest corner Sixth avenue and One Hundred and Fifteenth street | I Bleecker street, between Carmine and Hudson streets. |
| Northwest corner Sixth avenue and One Hundred and Thirty-fourth street | Bank street, between West street and Greenwich avenue. |
| Northwest corner Sixth avenue and One Hundred and Forty-forst street | I Bank street, between West street and Greenwich avenue. I Eleventh street, between West street and Greenwich avenue. |
| Northeast corner Eighth avenue and Seventieth street | Derve treat between west street and Greenwich avenue. |
| Northwest corner Eighth avenue and Seventieth street, | I Perry street, between West street and Greenwich avenue. |
| Northwest corner Eighth avenue and Seventy-fourth street. | I Charles street, between West street and Greenwich avenue. |
| Northwest corner Eighth avenue and Seventy-fifth street. | I Tenth street, between West street and Greenwich avenue. |
| Northwest corner Eighth avenue and Seventy-sixth street. | I Christopher street, between West street and Greenwich avenue. |
| West side Fighth avenue, between Eightieth and Eighty-first streets | I South Fifth avenue, between Third and Canal streets. |
| Southwest corner Eighth avenue and One Hundred and Sixth street | 1 Mercer street, between Third and Canal streets. |
| Northeast corner Eighth avenue and One Hundred and Fifteenth street | I Wooster street, between Third and Canal streets. |
| West side Ninth avenue, between Eighty-ninth and Ninetieth streets. | I Seventh street, between Third avenue and Avenue C. |
| West side Ninth avenue, between Ninety-first and Ninety-second streets | I Crosby street, between Grand and Bleecker streets. |
| Northwest corner Ninth avenue and Ninety-sixth street | I Tenth street, between Third avenue and Avenue C. |
| West side Ninth avenue, between Ninety-ninth and One Hundredth streets. | I Thirty-third street, between Second and Third avenues. |
| Southwest corner Tenth avenue and Seventieth street | I Grand street, between Pitt street and Bowery. |
| West side Tenth avenue, between Seventy-ninth and Eightieth streets | I Houston street, between Hudson street and Bowery. |
| Northeast corner Tenth avenue and Eighty-eighth street | Fifty-fifth street, between Sixth and Eighth avenues. |
| Normeast corner Tenth avenue and Eighty-eighth street | |
| Northwest corner Tenth avenue and Eighty-eighth street. | I Fifty-eighth street, between Eighth and Tenth avenues. |
| Northeast corner Tenth avenue and Eighty-ninth street | Eighth avenue, between Fifty-seventh and Fifty-eighth streets. Twentieth street, between First and Second avenues. |
| New Strate Contraction of the strate of the | I wennern street, between eitst and second avenues. |

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Southeast corner Tenth avenue and Ninety-eighth street. West side Tenth avenue, between One Hundred and Fourth and One Hundred and Fifth Months

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| Northeast corner Eleventh avenue and Sixty-sixth street | |
| Southwest corner Eleventh avenue and Seventy-second street | |
| Northwest corner Eleventh avenue and Seventy-sixth street | |
| Southwest corner Eleventh avenue and One Hundred and Second street | |
| Southwest control Eleventh avenue between One Hundred and Southieth and One Hundred and | |
| West side Eleventh avenue, between One Hundred and Seventieth and One Hundred and | |
| Seventy-third streets | |
| Northwest corner Eleventh avenue and One Hundred and Seventy-third street | |
| North side One Hundred and Thirty-seventh street, between Willis avenue and Brown place. | 8 |
| North side One Hundred and Forty-sixth street, between Third and College avenues | j |
| North side One Hundred and Sixty-fourth street, between Morris and Sheridan avenues | ĺ |
| North side One Hundred and Sixty-Journ street, between Morris and Sheridan avenues | ľ |
| North side One Hundred and Seventy-fifth street, between Vanderbilt and Webster avenues | ł |
| North side One Hundred and Eighty-third street, between Morris and Creston avenues | |
| South side Ash street, four hundred feet west of Anthony avenue | |
| West side Clinton street, between Gray and Spring streets | ł |
| West side Anthony avenue, between One Hundred and Seventy-seventh and Ludlow streets | ľ |
| West side Anthony avenue, between the line and the storety seventh and Dathow sheets | ŝ |
| West side Anthony avenue, between Ludlow and Ash streets | l |
| West side Brook avenue, between One Hundred and Thirty-third street and Harlem river | ŝ |
| Northwast corner Columbia and Jefferson avenues | į, |
| Northwest corner Columbia and Madison avenues | ŝ |
| Northwest corner Columbia and Monroe avenues. | ŝ |
| Northwest corner Creston avenue and One Hundred and Eighty-third street | į, |
| Northwest corner Creston avenue and One Hundred and Egity-third steet | l |
| West side Creston avenue, between One Hundred and Eighty-third and One Hundred and | |
| Eighty-fourth streets | i |
| | |

Eighth avenue, between Thist and Second avenues. Eighth avenue, between Thist and Fourteenth streets. Twenty-third street, between First and Third avenues. Second avenue, between Twenty-third and Thirty-first streets. First avenue, between Fifty-sixth and Fifty-seventh streets. Avenue B, between Houston and Seventeenth streets. Houston street, between Pitt street and Avenue A. Thirty-eighth street, between First and Third avenues. Seventh street, between Second avenue and Avenue C. Eighth street, between Second avenue and Avenue C. Fighth street, between Second avenue and Avenue C. Sixteenth street, between Irving and Rutherford places. Forty-seventh street, between First and Third avenues. Fifteenth street, between Broadway and Sixth avenue. Thirteenth street, between Second avenue and Avenue C. Thirteenth street, between Second avenue and Avenue C. Thirty-fourth street, between First and Lexington avenues. Fourth street, between Bowery and Sixth avenue. Sixteenth street, between First avenue and Avenue C. First avenue, between Seventeenth and Twenty-third streets. Sixth street, between Bowery and Avenue C. Fiftheenth street, between Bowery and Avenue C. Fiftheenth street, between Bowery and Avenue C. Fiftheenth street, between Sixth and Eighth avenues. Allen street, between Canal and Houston streets. Fortieth street, between First avenue and East river. Fortjeth street, between First avenue and East river. Fortjeth street, between First avenue and East river. Forty-second street, between First avenue and East river. Forty-third street, between First and Lexington avenues.

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Second avenue, between Fifty-seventh and Seventy-fourth streets. Eighth avenue, between Fifty-seventh and Seventy-fourth streets. Bowery, between Canal and Division streets. Fifth avenue, between Twenty-fifth and Twenty-seventh streets. Twenty-sixth street, between Broadway and Fifth avenue. Fourth street, between Second avenue and Avenue C. Eleventh street, between Second avenue and Avenue C. Eleventh street, between Second avenue and Avenue C. First avenue, between Fourteenth and Sixty-fifth streets. First avenue, between Sixty-fifth and Seventy-fourth streets. Division street, between Bowery and Essex street. Forty-seventh street, between Ninth and Tenth avenues. Tanth avenue, between Vietth addeth and Four adduct Forty-seventh street, between Thirty-eighth and Fifty-eighth streets. Chrystie street, between Canal and Division streets. Elizabeth street, between Canal and Canal streets. Bayard street, between Elizabeth street and Bowery. Twenty-fourth street, between Sixth and Tenth avenues. Twenty-fifth street, between Sixth and Tenth avenues. Twenty-sixth street, between Sixth and Tenth avenues. Twenty-seventh street, between Sixth and Tenth avenues. Twenty-eighth street, between Sixth and Tenth avenues. Twenty-minth street, between Sixth and Tenth avenues. Thirtieth street, between Sixth and Tenth avenues. Thirty-second street, between Sixth and Tenth avenues. Thirty-third street, between Sixth and Tenth avenues. Forty-ninth street, between Sixth and Tenth avenues. Forty-ninth street, between Sixth and Tenth avenues. Sixtieth street, between First and Third avenues. Eighteenth street, between Ninth and Tenth avenues. Forty-eighth street, between First and Third avenues. Bowery, between Great Jones and Sixth streets. Forty-first street, between Broadway and Tenth avenue. Fourth avenue, between Sixth and Eighth streets. Turactic fifth street between Second and Leighth streets. Fourth avenue, between Sixth and Eighth streets. Twenty-fifth street, between Second and Lexington avenues Forty-eighth street, between Broadway and Eighth avenue. Sixteenth street, between Broadway and Ninth avenue. Thirty-eighth street, between Broadway and Tenth avenues. Fifty-second street, between Broadway and Tenth avenues. Sixty-third street, between First and Third avenues. Eleventh street, between First and Third avenues. Eleventh street, between First and Third avenues. Fifty-fifth street, between First and Third avenues. First street, between First avenue and Avenue B. First street, between First avenue and Avenue B. Twentieth street, between Broadway and Fourth avenue. Forty-fourth street, between First avenue and East river. Forty-fourth street, between First avenue and East river. Forty-fourth street, between First avenue and East river. Forty-sixth street, between First avenue and East river. Eleventh avenue, between Fifty-seventh and Fifty-eighth streets. Fifty-eighth street, between Tenth and Eleventh avenues.

Manhattan Railway Company.

Sixth avenue, between Fifty-seventh and Fifty-eighth streets. Second avenue, between One Hundred and Twenty-seventh and One Hundred and Twentyninth streets.

h streets. Eighth avenue, between One Hundred and Forty-fourth and One Hundred and Forty-fifth streets. Chatham street, in front of bridge. Third avenue, between One Hundred and Twenty-ninth street and Harlem river. Sixth avenue, between Seventeenth and Nineteenth streets. Sixth avenue, between Twenty-seventh and Twenty-ninth streets. Eighth avenue, between One Hundred and Fifty-fourth and One Hundred and Fifty-sixth streets.

Consolidated Gas-light Company.

Sixty-fifth street, between Tenth and Twelfth avenues. One Hundred and Twenty-third street, between St. Nicholas and Ninth avenues. Eleventh avenue, between Forty-third and Forty-fifth streets. Fourth avenue, between One Hundred and Twentieth and One Hundred and Twenty-first

streets

Ninety-ninth street, between Boulevard and Riverside Drive. St. Nicholas Avenue, between One Hundred and Twenty-seventh and One Hundred and Thirtysecond streets.

One Hundred and Twenty-ninth street, between Eighth and St. Nicholas avenues. Houston street, between Mulberry and Clinton streets. Goerck street, between Houston and Grand streets.

Tenth avenue, between Flouston and Grand streets. Twentieth street, between Flourty-fourth and Forty-second streets. Avenue A, between Avenues A and B. Avenue B, between Twentieth and Twenty-first streets. Avenue B, between Seventeenth and Twenty-first streets. One Hundred and Twenty-second street, between Madison and Fourth avenues. Tenth avenue, between One Hundred and Sixty-second and One Hundred and Sixty fifth

street

ets. Manhattan street, between Ninth and Eleventh avenues. Seventeenth street, between Avenues B and C. One Hundred and Forty-fifth street, between Seventh and Eleventh avenues. One Hundred and Twenty-first street, between Seventh and Mount Morris avenues. First avenue, between Eighty-ninth and Ninety-eighth streets. First avenue, between Filty-sixth and Fifty-seventh streets. Avenue B, between Eighty-fourth and Eighty-fifth streets. St. Nicholas avenue, between One Hundred and Forty-fifth and One Hundred and Fifty-fifth ets. streets

ets. Tenth avenue, between Ninety-second and Ninety-ninth streets. Ninth avenue, between Ninety-ninth and One Hundred and Tenth streets. Manhattan avenue, between One Hundred and Sixteenth and Manhattan streets. Eighty-fifth street, between Eighth avenue and Boulevard. Ninety-fifth street, between Ninth avenue and Boulevard. Ninety-fifth street, between Eighth and Ninth avenues. Ninety-seventh street, between Ninth and Tenth avenues.

Kingsbridge road, between One Hundred and Sixty-second and One Hundred and Seventy-

eighth streets.

Avenue A, between Fifty-fourth and Fifty-fifth streets. Fifty-fifth street, between Avenue A and East river. One Hundred and Fiftieth street, between Tenth and St. Nicholas avenues.

One Hundred and Forty-first street, between Tenth avenue and Hamilton place.

Second avenue, between Sixty-fifth and Sixty-sixth streets Second avenue, between Sixty-intri and Sixty-sixth streets. Second avenue, between Seventy-first and Seventy-third streets. One Hundred and Fifty-first street, between Tenth and St. Nicholas avenues. West End avenue, between Seventy-second and Seventy-ninth streets.

Third Avenue Railroad Company.

One Hundred and Twenty-fifth street, between Ninth avenue and Harlem river.

Standard Gas-light Company.

One Hundred and Sixteenth street, between Eighth avenue and East river. Eighth avenue, between One Hundred and Sixteenth street and St. Nicholas avenue. St. Nicholas avenue, between Eighth avenue and Manhattan street. Manhattan street, between St. Nicholas avenue and North river. Fifty-seventh street, between Second and Madison avenues. Fifty-eighth street, between Second and Madison avenues. Sixty-seventh street, between Second and Madison avenues. Sixty-seventh street, between Second and Madison avenues. Sixty-seventh street, between Second and Madison avenues. Second avenue, between Fifty-seventh and One Hundred and Sixteenth streets.

New York Steam Company.

New York Steam Company. Water street, between Pine and Wall streets. Nassau street, between Fulton and John streets. Fifth avenue, between Fortieth and Forty-second streets. Fifty-eighth street, between Madison and Fifth avenues. Madison avenue, between Fifty-second and Sixty-second streets. Fifty-seventh street, between Fifth and Sixth avenues. Fifty-seventh street, between Fifth and Sixth avenues. Fifty-seventh street, between Fifth and Sixth avenues. Fifty-fourth street, between Fifth and Sixth avenues. Fifty-eighth street, between Fifth and Sixth avenues. Fifty-eighth street, between Fifth and Sixth avenues. Dutch street, between John and Fulton streets. Fifty-eighth street, between Fifth and Madison avenues. Sixty-first street, between Fifth and Madison avenues. Sixty-first street, between Fifth and Madison avenues. Sixty-third street, between Fifth and Madison avenues. Sixty-third street, between Fifth and Madison avenues. Sixty-third street, between Fifth and Madison avenues. Sixty-seventh street, between Madison and Fifth avenues. Fifth avenues and Fifth avenues. Sixty-seventh street, between Madison and Sixth streets. Fifther avenues and Pearl streets. Fifther avenues and Sevenues. Fulton street, between Nassau and Pearl streets. Fifty-sixth street, between Madison and Sixth avenues. Maiden lane, between Liberty and Pearl streets. Gold street, between Maiden lane and Fulton street. Fifty-third street, between east side of Fifth avenue and Sixth avenue.

Frederick Opperman, Fr.

Forty-fourth street, between Second avenue and East river.

Aqueduct Commissioners.

Tenth avenue, between One Hundred and Thirty-fifth and One Hundred and Seventy-sixth streets

Fire Department.

Sixty-eighth street, between Fifth avenue and East river. Fourth avenue, between Fifty-eighth and Sixty-eighth streets. Eighth avenue, between Fifty-eighth and Fifty-ninth streets. Sixty-fifth street, between Fifth and Lexington avenues. Lexington avenue, between Sixty-fifth and Sixty-eighth streets.

Commissioners of Electrical Subways.

Sixth avenue, between Carmine and Fifty-ninth streets. West street, between Cortlandt and Liberty streets. One Hundred and Twenty-eighth street, between Third and Fourth avenues. Fourth avenue, between One Hundred and Twenty-eighth street and Harlem river. Fifty-eighth street, between Sixth avenue and East river. Spring street, between Broadway and West street.

Edison Electric Illuminating Company.

Fiftieth street, between Madison and Fifth avenues.

NNN

METERS.

| Meters placed during the quarter ending December 31, 1886, | 252 |
|--|--------|
| Number of meters now in use | 14,582 |

Water-meters in Use December 31, 1886

| WHERE PLACED. | 5⁄8'' | 3⁄4" | 1″ | 1½" | 2" | 3″ | 4" | 6″ | TOTAL. |
|------------------------------|-------|------|-----|-----|-----|----|----|----|--------|
| Hotels | 12 | 63 | 134 | 70 | 49 | 20 | 5 | | 353 |
| Breweries, bottlers, etc | 11 | 85 | 103 | 50 | 69 | 16 | 2 | | 336 |
| Charitable institutions | | 5 | 20 | 35 | 37 | 4 | 2 | | 103 |
| Offices | 27 | 741 | 701 | 278 | 78 | 24 | 11 | | 1,860 |
| Manufacturing establishments | 58 | 189 | 253 | 223 | 123 | 9 | 4 | | 859 |
| Gas.works | | | 10 | 3 | 3 | 12 | 15 | | 43 |

| Del server de la contra de la c | Gas-works | | |
|--|--|-------|------|
| Park avenue, between Thirty-ninth and Forty-second streets. Fortieth street, between Park and Madison avenues. | Railroads | 8 | 8 |
| Madison avenue, between One Hundred and Sixtieth and One Hundred and Twentieth streets. | Stables | 237 | 95 |
| One Hundred and Nineteenth street, between Sixth and Seventh avenues. | | | 1 |
| Sixty-seventh street, between First and Second avenues. | Apartment houses | 1 | I |
| Ninety-sixth street, between Third and Fifth avenues. | Docks | F | 1 3 |
| Eighth avenue, between One Hundred and Tenth and One Hundred and Sixteenth streets. | DOCKS | 3 | |
| One Hundred and Thirty-sixth street, between Eighth and St. Nicholas avenues. | Riverdale | 26 | 3 |
| One Hundred and Eleventh street, between Madison and Fifth avenues. | Miscellaneous | a 666 | 2,80 |
| One Hundred and Fifteenth street, between Fourth and Fifth avenues. | Miscenaneous | 2,000 | 2,00 |
| Washington street, between Twelfth and Fourteenth streets. | | | |
| Jersey street, between Crosby and Mulberry streets. | Total | 3,051 | 4,98 |
| One Hundred and Forty-fifth street, between Eighth and St. Nicholas avenues. | | | |
| First avenue, between Sixty first and Sixty-second streets. | | | - |
| Thirty-sixth street, between Eleventh and Twelfth avenues. Seventieth street, between Avenue A and East river. | | | 1 |
| One Hundred and Third street, between Tenth and Riverside avenues. | | | 1 |
| One Hundred and Thirty-fifth street, between Sixth and Eighth avenues. | STYLE OF METER. | 5/8" | 3/4 |
| One Hundred and Sixth street, between Fourth and Madison avenues. | | | 1 |
| Ninety-seventh street, between Fourth and Lexington avenues. | | | |
| Eighty-third street, between Boulevard and Riverside avenue. | Gem | | 1 |
| Madison avenue, between Ninetieth and One Hundred and Ninth street. | | - | 1 |
| Tenth avenue, between One Hundred and Seventy-fifth and One Hundred and Ninetieth | Crown | 2,717 | 2,55 |
| treets. | Worthington | 334 | 2,42 |
| Ninth avenue, between Eighty-first and Eighty-fourth streets. | Contraction and the second second second | | |
| Tenth avenue, between One Hundred and Twenty ninth and One Hundred and Thir jeth | | | 1 |
| | | | |

streets. Lexington avenue, between Six --fifth and Sixty-sixth streets.

| Railroads | 8 | 88 | 52 | 6 | 10 | 18 | 23 | I | 206 |
|------------------|---------|-------|-------|-------|-----|-----|---------|----|--------|
| itables | 237 | 954 | 436 | 64 | 25 | 7 | I | | 1.724 |
| apartment houses | 1 | 10 | 36 | 47 | 51 | 5 | 4 | | 154 |
| Docks | 5 | 7 | 14 | 5 | 26 | 42 | 32 | | 131 |
| Riverdale | 26 | 33 | 11 | I | | I | 2 | | 74 |
| Miscellaneous | 2,666 | 2,807 | 2,252 | ó35 | 302 | 69 | 6 | 2 | 8.739 |
| Total | 3,051 | 4,982 | 4,022 | 1,417 | 773 | 227 | 107 | 3 | 14,582 |
| | | | | | | | | | |
| | | 1 | 1 | 1 | | | | | 1 |
| STYLE OF METER. | 5%" | 34" | 1" | 1½" | 2" | 3″ | 4" | 6" | TOTAL. |
| Style of Meter. | 5%" | 34" | 1" | 1½" | 2" | 3" | 4" 6 | 6" | TOTAL. |
| | | | | | | | | | |
| Gem | | | 2 | | 4 | 16 | 6 | | 28 |

WHERE USED.

Hotels.....

Breweries, bottlers, etc.....

Charitable institutions

Offices.....

Manufacturing establishments....

Gas-works.....

Railroads.....

NUMBER

OF METERS.

353

336

103

1,860

840

43 206

THE CITY RECORD.

GALLONS

1,141,000

323,000

1,444,800

10,082,000

64,300

EXPENDITURES.

389

| 123 vouchers were transmitted during the quarter and charged to the following ac | counts, viz | . : |
|--|-------------|-----|
| Public Drinking-hydrants | \$772 | 91 |
| Public Drinking-hydrants—Salaries | 249 | 99 |
| Repaying Streets and Avenues, 1885 | 539 | 80 |
| Repaying Streets and Avenues, 1886 | 77,797 | |
| Repaying Streets and Avenues-Salaries | 801 | 00 |
| Repaying Fifth Avenue | 116,737 | 18 |
| Repairs and Renewal of Pavements and Regrading | 106,046 | |
| Repairs and Renewal of Pavements and Regrading-Salaries | 2,362 | |
| Repairing and Renewal of Pipes, Stop-cocks, etc. | 16,787 | |
| Contingencies-Department of Public Works | | 00 |
| Restoring and RepavingSpecial Fund, Department of Public Works | 8.461 | |
| Street Improvement Fund | \$25,046 | |
| Total | \$355,622 | 17 |

SUMMARY OF WORK DONE DURING THE YEAR.

Repairs and Renewal of Pavements and Regrading.

The amount of work done by the repair gangs during the year is as follows :

234,249 square yards of pavement repaired. 714 old crosswalks repaired. 28 new crosswalks laid.

1,633 bad holes repaired.

The following is a list of streets in which repairs were made, viz. :

Blocks Repaired from Curb to Curb.

Duane street, from Hudson to Staple street. Forty-ninth street, from Fourth to Madison avenue. Forty-ninth street, from Fifth to Sixth avenue. Sixtieth street, from Ninth avenue to Boulevard. Sixty-first street, from Fourth to Madison avenue. Sixty-fifth street, from Fourth to Madison avenue. Eighty-first street, from Fifth to Madison avenue.

Half Blocks Repaired from Curb to Curb.

Gouverneur Slip, between Water and Front street. Second avenue, between Seventy-third and Seventy-fourth streets. Madison avenue, between Fifty-eighth and Fifty-ninth streets. Fifty-ninth street, between Fifth and Sixth avenues. Fifty-ninth street, between Fourth and Madison avenues. Seventy-fifth street, between Fourth and Madison avenues. One Hundred and Twenty-first street, between Fourth and Lexington avenues.

Avenues Repaired.

First avenue, from Sixteenth to Seventeenth, Nineteenth to Twenty-third, Fifty-first to Sixty-first, Eighty-seventh to Eighty-ninth, and Ninety-first to Ninety-second street.
Second avenue, from Houston to Second, Thirteenth to Fourteenth, Sixtieth to Sixty-first, Seventy-second to Seventy-fourth, Seventy-fifth to Seventy-sixth, Ninety-fifth to Ninety-sixth, One Hundred and Sixth to One Hundred and Seventh, and One Hundred and Twenty-fourth to One Hundred and Twenty-third, Sixty-third, Sixty-seventh to Sixty-eighth, Seventy-to One Hundred and Twenty-sixth to Seventy-fifth to Seventy-sixth to Sixty-eighth, Seventieth to Seventy-fifth, Seventy-sixth to Seventy-seventh to Sixty-eighth, Seventieth to Seventy-first, Seventy-sixth to Seventy-seventh, Eighty-ninth to Ninetieth, Ninety-eighth to One Hundred and First, One Hundred and Twelfth to One Hundred and Thirteenth, and One Hundred and Twenty-fourth to One Hundred and Thirteenth, Street. Thirtieth street.

- Hundred and Thirteenth, and One Hundred and Twenty-fourth to One Hundred and Thirtieth street.
 Fourth avenue, from Fourteenth to Thirty-second street.
 Fifth avenue, from Fifth-first to Fifty-second street.
 Sixth avenue, from Greenwich avenue to Ninth street, Thirtieth to Forty-second, Fifty-third to Fifty-fifth, and Fifty-sixth to Fifty-ninth streets.
 Seventh avenue, from Fourteenth to Seventeenth, Forty-fifth to Fifty-fourth, Fifty-fifth to Fifty-sixth, and Fifty-seventh to Fifty-ninth street.
 Eighth avenue, from Bleecker to Twenty-seventh, Forty-second to Forty-third, Fifty-sixth to Fifty-ninth, and One Hundred and Tenth to One Hundred and Twenty-fourth street.
 Ninth avenue, from Gansevoort to Twenty-third, Thirty-seventh to Thirty-eighth, Forty-sixth to Forty-seventh, and Seventy-fourth to Seventy-seventh street.
 Tenth avenue, from Bloomfield to Twenty-third, Forty-fourth to Forty-ninth, Sixty-fifth to Sixty-ninth, and Seventy-second to Seventy-fourth street.
 Eleventh avenue, from Blank to Bethune, and Fourteenth to Sixteenth street.
 Avenue A, from Ninetieth to Ninety-second street.
 Avenue B, from Sixth to Seventh street.
 South Fifth avenue, from Third to Fourth street.
 Vanderbilt avenue, from Third to Fourth street.
 Vanderbilt avenue, from Third to Fourth street.
 Lexington avenue, from Third to Fourth street.
 Lexington avenue, from Third to Fourth street.
 Vanderbilt avenue, from Third to Fourth street.
 Lexington avenue, from Third to Seventy-seventh to Seventy-second, One Hundred and Sixth to One Hundred and Seventh, and One Hundred and Eighth to One Hundred and Ninth streets.
 Madison avenue, from Fifty-seventh to Fifty-first to Ninety-second, One Hundred and Sixth to One Hundred and Seventh, Sixty-second to Sixty-third, Sixty-fifth to Ninth streets.
- Madison avenue, from Fifty-seventh to Fifty-eighth, Sixty-second to Sixty-third, Sixty-fifth to Sixty-sixth, Sixty-eighth to Sixty-ninth, Sixty-ninth to Seventieth, Seventy-third to Seventy-fourth, Seventy-fifth to Seventy-sixth, Eighty-first to Eighty-second, and Eighty-third to Eighty-fourth streets.

Park avenue, from Thirty-fourth to Thirty-fifth, Thirty-sixth to Thirty-eighth, and Fifty-sixth to Sixty-fourth street.

Streets Repaired.

Albany street, from Washington to West street. Attorney street, from Rivington to Stanton street. Astor place, from Broadway to Fourth avenue. Beaver street, from Broadway to Pearl street. Broadway, from Leonard to Worth street. Broadway, from Twenty-fourth to Twenty-fifth, Thirty-sixth to Thirty-seventh, and Forty-fifth to Forty-eighth street. Broadway to Pearl to Wall street orty-eighth street. Broad street, from Pearl to Wall street. Battery place, from Greenwich to West street. Burling Slip, from South to Pearl street. Bank street, from Hudson street to Thirteenth avenue. Bowery, from Grand to Houston street. Bleecker street, from Greene to Downing street Bedford street, from Downing to Morton street. Beekman street from Park row to South street.

together during the day.

During the month of December, the reservoirs in the city have lost twenty-two inches of water, showing the large waste in houses to keep service pipes from freezing. This extra use, in connec-tion with the limited supply, brings forth at each recurring cold spell a large number of complaints from differents parts of the city. On January 3 and 4, 1887, the reservoirs in Central Park were lowered six inches and the Forty-second Street Reservoir four feet, showing an increase of water used of 8,000,000 gallons per day.

large number and area of service pipes in use destroying the head or pressure of water when all used

Average Number of Gallons used Per Day through Meters.

GALLONS.

1,692,600

1,694,700

408,000

1,810,000

2,303,000

800,700

1,342,000

IMPROVEMENT OF FOURTH AVENUE AT NINETY-EIGHTH STREET.

This work is completed except the bridge and railings, which are now being put in place.

WATER SUPPLY OF THE TWENTY-FOURTH WARD.

A new agreement for the two years ending December 31, 1888, at the rate of 13 cents per hundred cubic feet, has been entered into for the supply of the water to this district from Yonkers.

WASTE AND USE OF WATER.

In a large number of new buildings and the increased use of water in factories and other business places has reduced the pressures of water throughout the city. It has especially affected the High-Service District, which district has, until the past two years, enjoyed a fair head of water at the expense, to a great extent, of the lower portions of the city. The number of buildings in the High-Service District have so increased that the capacity of the pumps have been exceeded by the draft of water during the day, every one wanting the water at the same time, aided by pumps in many houses. As the supply of water is limited and cannot be increased until the completion of the New Aqueduct and of the necessary storage reservoirs, some means will have to be adopted to induce consumers to do the pumping at night and equalize the use of water as between night and day, the large number and area of service pines in use destroving the head or pressure of water when all used

The large number of new buildings and the increased use of water in factories and other business

NUMBER

METERS

1,706

154

131

74

8,294

14,100

WHERE USED.

Stables.....

Apartment houses.....

Docks

Riverdale

Miscellaneous.....

Total 23,106,100

day. day. With an increasing demand for water and no possibility of increase in supply, it is necessary for all to be economical in the use of water, for a supply of 107,000,000 gallons per day should be

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

Document "E."

DEPARTMENT OF PUBLIC WORKS, WATER PURVEYOR'S OFFICE, NO. 31 CHAMBERS STREET, ROOM 1, New York, January 7, 1887.

Gen. JOHN NEWTON, Commissioner of Public Works :

SIR—In compliance with your instructions, I beg leave to submit the following report of the transactions of this Bureau for the quarter ending December 31, 1886, together with a summary of the work done during the year 1886.

REPAIRS AND RENEWAL OF PAVEMENTS AND REGRADING.

The average force employed on repairs to pavements during the quarter was as follows :

The average force employed on repairs to pavements during the quarter was as follows : In October, 595 men, 114 carts and 2 teams. In November, 649 men, 129 carts and 2 teams. In December, 649 men, 129 carts and 2 teams. It8,604 square yards of pavement were repaired. In consequence of the cold weather, the repair gangs were disbanded on the 4th day of December, 59 men and 8 carts being retained to attend to dangerous places in the pavements. In addition to the above, 2,902 square yards were repaired, including 49 square yards of asphalt pavement, on "orders," the expense in each case being less than \$1,000. I8 permits were issued to citizens to repair pavements at their own expense.

REPAVING STREETS AND AVENUES (CHAPTER 476, LAWS OF 1875).

Contracts for repaying the following-named streets were completed during the quarter, viz. : Eighteenth street, from First avenue to East river. Eighteenth street, from Eighth to Tenth avenue. Fifteenth street, from First to Second avenue. Fifteenth street, from First to Second avenue. Nineteenth street, from First to Second avenue. Twenty-fifth street, from First avenue to East river. Pine street, from William to Pearl street. Ninth street, from Third to Fourth avenue. Eighth street, from Fourth avenue to Broadway. Eighteenth street, from Fourth avenue to Broadway. Chambers street, from Broadway to Centre street. 24,896 square yards were repaved during the quarter.

Repaving Fifth Avenue, between Ninth and Ninetieth Streets.

This contract is in progress. 18,571 square yards were repaved during the quarter.

New Pavements Under Assessment.

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

Sixty-fourth street, from First to Second avenue. Ninety-third street, from Eighth to Ninth avenue. One Hundred and Third street, from First to Second avenue. One Hundred and Ninth street, from Madison to Fourth avenue.

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

The average force employed in repairing pipes, stop-cocks, fire-hydrants, etc., under the direc-tion of this Bureau, during the quarter, was as follows: In October, 71 men and 10 carts.

In November, 81 men and 11 carts. In December, 84 men and 11 carts. 397 defects in pipes and stop-cocks were repaired. 186 taps were shut off on account of leaks in service-pipes. 1,054 repairs were made to fire-hydrants.
96 new fire-hydrants were substituted for old ones.
5 new fire-hydrants were erected. 272 defects in pavements were repaired.

PUBLIC DRINKING-HYDRANTS.

42 drinking-hydrants were repaired. 1 new drinking-hydrant was erected.

WELLS AND PUMPS.

2 pumps were repaired.

VAULTS.

48 permits were issued to construct vaults. The amount received for the same is \$13,138.68. 33 permits were issued to repair vaults.

Beekman street, from Park row to South street. Bethune street, from West to Washington street. Canal street, from West street to Broadway. Columbia street, from Broome to Houston street. Columbia street, from Broome to Houston street. Carlisle street, from West to Washington street. Church street, from Vesey to Fulton street. Coenties Slip, from Front to South street. Crosby street, from Bleecker to Spring street. Cortlandt street, from Broadway to Church street. Clinton place, from Macdougal street to Sixth avenue Cherry street, from Catharine to Pike street. Cherry street, from Jefferson to Clinton street. Cherry street, from Broadwayton to Street. Chrystie street, from Rivington to Stanton street. Charlton street, from Varick to Sullivan street. Desbrosses street, from West to Hudson street. Desbrosses street, from West to Hudson street. Division street, from Bowery to Canal street. Dover street, from Cherry to Water street. Dry Dock street, from Tenth to Twelfth street. Dutch street, from John to Fulton street. Exchange place, from William to Hanover street. Front street, from Whitehall to Roosevelt street. Fulton street, from Broadway to William street.

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Frankfort street, from Park Row to Franklin Square. Ferry street, from Gold to Jacob street. Franklin street, from West Broadway to Church street. Greenwich street, from Battery place to Canal street. Greenwich street, from Houston to Clarkson street. Great Jones street, from South to Water street. Grove street, from Mowery to Lafayette place. Gorek street, from Hudson to Bedford street. Gold street, from Frankfort street to Maiden lane. Grand street, from Broadway to Mott street. Hester street, from Mercer street to Broadway. Hamilton street, from Catharine to Market street. Hague street, from Pearl to Frankfort street. Hadson street, from Duane to Thomas street. Frankfort street, from Park Row to Franklin Square. Hague street, from Prear to Frankfort street. Hudson street, from Duane to Thomas street. Hudson street, from Canal to Spring street. Jay street, from Washington to Greenwich street. Jackson street, from Broadway to Pearl street. Jacob street, from Broadway to Pearl street. Lispenard street, from Broadway to West Broadway. Lawis creat, from Broadway to West Broadway. Lewis street, from Broome to Grand street. Little West Twelfth street, from Ninth to Tenth avenue. Ludlow street, from Rivington to Stanton street. Liberty street, from Broadway to Maiden Lane. Lawrence street, from One Hundred and Twenty-sixth street to Tenth avenue. Mott street, from Prince to Bleecker street. Mercer street, from Canal to Fourth street. Maiden Lane, from Broadway to South street. Montgomery street, from Grand to South street. Maiden Lane, from Broadway to South street. Monroe street, from Grand to South street. Nassau street, from Gouverneur to Scammel street. Nassau street, from Wall street to Park Row. North Moore street, from West to Washington street. New Chambers street, from Park Row to South street. Old Slip, from South to Water street. Orchard street, from Hester to Houston street. Park street, from West to Washington street. Perry street, from West to Washington street. Pitt street, from Grand to Stanton street. Pine street, from Massau to William street. Roosevelt street, from Batavia to Cherry street. Roosevelt street, from South to Front street. Ridge street, from Stanton to Houston street. South street, from Water to Cherry street. Stanton street, from Bowery to Eldridge street. Stanton street, from Essex to Clinton street. Stanton street, from Chark to Varick street. Stanton street, from Chark to Varick street. Stanton street, from Stanton to Delancey street. Stanton street, from Stanton to Delancey street. Stanton street, from Clark to Varick street. Spring street, from Clark to Varick street.
Suffolk street, from Grand to Front street.
Staple street, from Grand to Front street.
Staple street, from Jay to Harrison street.
Theatre Alley, from Beekman to Ann street.
Tompkins street, from Stanton and Rivington street.
Varick street, from Franklin to North Moore street.
Vandam street, from Macdougal to Varick street.
West street, from Battery place to Canal street.
West Washington Market, Country Row, Broad, Fulton and Devoe avenues.
West Broadway, from Duane to Franklin street.
William street, from Hanover Square to Park Row.
Wooster street, from Canal to Houston street.
Worth street, from Canal to Houston street.
Worth street, from Christopher to West Tenth street.
Worth street, from Little West Twelfth to Bethune street.
Warten street, from Luttle West Twelfth to Bethune street.
Warten street, from Standaway to St. John's lane.
First street, from Bowery to Avenue A.
Second street, from Bowery to Avenue B.
Third street, from Broadway to St. John's lane.
Third street, from Bowery to Avenue B.
Third street, from Broadway to St. John's lane.
Third street, from Broadway to St. John's lane. Third street, from Bowery to Avenue B. Third street, from Broadway to Sixth avenue. Fourth street, from Bowery to Lafayette place. Sixth street, from Second to Third avenue. Sixth street, from Second to Third avenue. Sixth street, from Avenue A to Avenue B. Ninth street, from Broadway to University place. Ninth street, from Hudson to University place. Tenth street, from Hudson to West street. Tenth street, from Broadway to Fourth avenue. Eleventh street, from Fifth to Sixth avenue. Eleventh street, from Fifth to Sixth avenue. Eleventh street, from Initieenth avenue to West Thirteenth street, from First to Second avenue. Fourteenth street, from Second to Third avenue. Fifteenth street, from Second to Avenue C. Seventeenth street, from Second to Third avenue. Seventeenth street, from Avenue A to Avenue C. Eighteenth street, from Avenue A to Avenue C. Fighteenth street, from Fifth to Sixth avenue. Nineteenth street, from Avenue A to Avenue B. Twentieth street, from Sixth to Seventh avenue. I wenty-third street, from Fourth to Madison avenue. I wenty-third street, from Sixth to Seventh avenue. Twenty-fourth street, from Fourth to Lexington avenue Twenty-fourth street, from Broadway to Sixth avenue. Twenty-sixth street, from Fifth to Sixth avenue. Twenty-sixth street, from Tenth to Eleventh avenue. Twenty-seventh street, from Ninth to Eleventh avenue. Twenty-seventh street, from Ninth to Tenth avenue. Twenty-eighth street, from Second to Third avenue. Twenty-eighth street, from First avenue to East river. Twenty-ninth street, from Ninth to Tenth avenue. Twenty-ninth street, from Eleventh avenue to North river. to Third av Thirtieth street, from Eleventh avenue to North river. Thirty-second street, from Fifth to Seventh avenue. Thirty-second street, from Lexington to Third avenue. Thirty-second street, from First to Second avenue. Thirty-fourth street, from Fifth to Sixth avenue. Thirty-sixth street, from Fifth to Sixth avenue. Thirty-sixth street, from Park to Madison avenue. Thirty-seventh street, from Tenth to Eleventh avenue. Thirty-seventh street, from First to Third avenue. Thirty-eighth street, from Madison to Fifth avenue. Thirty-eighth street, from Broadway to Sixth avenue. Thirty-eighth street, from Ninth to Tenth avenue. Thirty-eighth street, from Second to Third avenue. Thirty-ninth street, from Second to Third avenue. Thirty-ninth street, from Fifth to Sixth avenue. Thirty-ninth street, from Eleventh avenue to North river. Fortieth street, from First to Second avenue. Fortieth street, from Tenth avenue to North river. Forty-first street, from Fifth to Madison avenue. Forty-first street, from Broadway to Sixth avenue. Forty-first street, from Seventh to Eighth avenue. Forty-third street, from Fifth to Sixth avenue. Forty-fourth street, from Fifth to Madison avenue. Forty-fourth street, from Eighth to Ninth avenue. Forty-fourth street, from Fifth to Madison avenue. Forty-sixth street, from Fifth to Sixth avenue.

Forty-sixth street, from Ninth to Tenth avenue. Forty-seventh street, from Broadway to Sixth avenue. Forty-eighth street, from First to Second avenue. Forty-ninth street, from Fourth to Madison avenue. Forty-ninth street from Fifth to Sixth avenue. Forty-ninth street, from Ninth to Tenth avenue. Fiftieth street, from Fifth to Seventh avenue. Fiftieth street, from Ninth to Tenth avenue. Fifty-first street, from Seventh to Tenth avenue. Fifty-first street, from Seventh to Tenth avenue. Fifty-first street, from Seventh to Tenth avenue. Fifty-second street, from Sixth avenue to Broadway. Fifty-second street, from Eleventh avenue to North river. Fifty-third street, from Eighth to Tenth avenue. Fifty-fourth street, from Eighth to Tenth avenue. Fifty-fourth street, from Sixth to Seventh avenue. Fifty-fourth street, from Sixth to Seventh avenue. Fifty-fourth street, from Bighth to Tenth avenue. Fifty-fourth street, from Broadway to Seventh avenue. Fifty-fifth street, from Tenth to Eleventh avenue. Fifty-seventh street, from First avenue to Avenue A. Fifty-seventh street, from Ninth to Tenth avenue. Fifty-seventh street, from Ninth to Tenth avenue. Fifty-seventh street, from Madison to Seventh avenue. Fifty-seventh street, from Ninth to Tenth avenue. Fifty-seventh street, from Ninth to Tenth avenue. Fifty-seventh street, from Madison to Seventh avenue. Fifty-seventh street, from Minth to Tenth avenue. Fifty-seventh street, from Madison to Seventh avenue. Fifty-seventh street, from Minth to Tenth avenue. Fifty-seventh street, from Madison to Seventh avenue. Fifty-seventh street, from Madison to Seventh avenue. Fifty-ninth street, from First avenue to Avenue A. Swriteth street, from First avenue to Avenue A. Fifty-seventh street, from Ninth to Tenth avenue. Fifty-eighth street, from Madison to Seventh avenue. Fifty-ninth street, from First avenue to Avenue A. Sixtieth street, from Fourth to Lexington avenue. Sixty-second street, from Avenue A to Second avenue. Sixty-second street, from Avenue A to Second avenue. Sixty-second street, from Lexington to Madison avenue. Sixty-fourth street, from Second to Third avenue. Sixty-fourth street, from Second to Third avenue. Sixty-sixth street, from Lexington to Park avenue. Sixty-seventh street, from Lexington to Third avenue. Sixty-seventh street, from Lexington to Third avenue. Sixty-seventh street, from Fifth to Madison avenue. Sixty-sighth street, from Fifth to Madison avenue. Sixty-ninth street, from Tenth to Eleventh avenue. Seventieth street, from Lexington to Third avenue. Seventieth street, from Lexington to Third avenue. Seventieth street, from Madison to Fourth avenue. Seventy-fifth street, from First to Second avenue. Seventy-sighth street, from First to Second avenue. Seventy-sighth street, from First to Second avenue. Seventy-eighth street, from Third to Lexington avenue. Seventy-eighth street, from Third to Lexington avenue. Seventy-eighth street, from First to Second avenue. Seventy-inth street, from First to Second avenue. Seventy-eighth street, from First to S Eightieth street, from Fifth to Madison avenue. Eighty-first street, from Second to Lexington avenue. Eighty-first street, from Fifth to Madison avenue. Eighty-second street, from Ninth to Tenth avenue. Eighty-third street, from Second to Third avenue. Eighty-third street, from Fourth to Fifth avenue. Eighty-third street, from Eighth to Ninth avenue. Eighty-fourth street, from Bulevard to Eleventh avenue. Eighty-seventh street, from First avenue to Avenue A. Eighty-seventh street, from First avenue to Avenue A. Eighty-seventh street, from First avenue to Avenue A. Ninetieth street, from First to Second avenue. Ninety-third street, from First to Second avenue. Ninety-third street, from First to Second avenue. Ninety-third street, from First to Second avenue. Ninety-sixth street, from Birst to Eleventh avenue. Ninety-fifth street, from First to Second avenue. Ninety-sixth street, from Boulevard to Eleventh avenue. One Hundredth street, from Eighth to Ninth avenue. One Hundred and Sixth street, from Lexington to Third avenue. One Hundred and Twelfth street, from Second to Fourth avenue. One Hundred and Fourteenth street, from Third to Fourth avenue. One Hundred and Fifteenth street, from Lexington to Third avenue. One Hundred and Fifteenth street, from Lexington to Third avenue. One Hundred and Eighteenth street, from Avenue A to Harlem river. One Hundred and Nineteenth street, from First to Pleasant avenue. One Hundred and Nineteenth street, from Third to Fourth avenue. One Hundred and Twenty-first street, from Madison to Fourth avenue. One Hundred and Twenty-second street, from Sixth to Seventh avenue. One Hundred and Twenty-fourth street, from Sixth to Seventh avenue. In addition to the above the following work was done on "orders," the expense in each case ng less than \$1,000. being less than \$1,000. 3,589 square yards of pavement were repaired, including 736 square yards of asphalt pavement. The following is a list of the streets in which the repairs were made, viz. : Twenty-fourth street, between Lexington and Fourth avenues. Seventy-sixth street, between Lexington and Fourth avenues. Eighty-second street, between Lexington and Third avenues.

Asphalt Pavements Repaired.

Asphalt Pavements Repaired. Fifth avenue, between Waverly place and Ninth street. Fifth avenue, between Twenty-fourth and Twenty-fifth streets. Fifth avenue, between Twenty-sixth and Twenty-seventh streets. Fifteenth street, between Fifth and Sixth avenues. Twenty-eighth street, between Fifth avenue and Broadway. Thirty-eighth street, between Fifth and Madison avenues. Pine street, between Broadway and Nassau street. Pine street, between Nassau and William streets. Eighty-nine permits were issued during the year to citizens to repair pavements at their own ense. expense

Street Openings.

year, viz. :

Street Openings. The following is a summary of the work done during the year under the supervision of the General Inspector of Street Openings, viz.: 16,701 openings to repair mains and for gas, water and sewer service connections. 4,105 notices sent to corporations and others to repair bad pavement over their openings. 3,832 bad places repaired by the various parties who had opened the streets, in compliance with notices sent from this office. 34,165 miles of gas, steam and salt water-mains laid. 1,160 miles of double track cable railway constructed. 1,160 miles of double track cable railway constructed. 9,780 feet of underground electrical subway constructed. 24,833 feet of trench opened for underground cable laid by the Commercial Cable Company and the Fire Department. and the Fire Department. 37,800 feet of electric-light wires suspended in place of old wires taken down.

Repairing Streets and Avenues-Chapter 476, Laws of 1875. Contracts for repaving the following named streets and avenues were completed during the

SQUARE YARDS. LENGTH IN FEET. STREET OR AVENUE. FROM.

 Granite-blocks.
 William to Pearl street.

 Pine street.
 Third to Fourth avenue

 Eighth street.
 Fourth avenue to Broadway.

 Eighth street.
 Fourth avenue to Broadway.

 Eighth street.
 Broadway to Varick street.

 Washington place
 Macdougal street to Sixth avenue.

 Monroe street.
 Clinton to Gouverneur street.

 Greene street.
 First to Second avenue.

 Fifteenth street.
 First to Second avenue.

 Ninteenth street.
 First to Second avenue.

 Stighteenth street.
 First to Second avenue.

 Eighteenth street.
 First avenue to East river.

 Eighteenth street.
 Eighth to Tenth avenue.

 Granite-blocks. 258 456 417 1,528 397 1,234 811 2,718 674 672 620 4.410 5,675 4,088 2,551 7,380 6,420 6,583 5,402 2,049 42,507 13.972

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| STREET OR AVENUE. FROM. | | SQUARE YARDS. | LENGTH IN FEET. |
|---|--|---|---|
| Trap-blocks. Twenty-sixth street. Cannon street. Jackson street. Sheriff street. Centre Market place. Ridge street. Suffolk street. Jones street. Leroy street. Cornelia street. Downing street. | Eighth to Tenth avenue. Houston to Grand street. Water to Grand street. Delancey to Stanton street Grand to Broome street Stanton to Division street. Rivington to Division street. Fourth to Bleecker street. Fourth to Bleecker street. Bleecker to Varick street. | 5,398 7,811 3,254 4,571 4,579 3,290 3,085 | 1,632 1,983 885 814 408 1,654 1,675 468 564 509 900 |
| Total | | 31,988 | 11,492 |
| Asphalt Pavement. Chambers street | Broadway to Centre street | 2,261 | 675 |
| Granite-blocks | APITULATION. | 42,507 31,988 2,261 | 13,972 11,492 675 |
| Total | | 76,756 | 26,139 |

Total length repaved as above 4 100 miles.

Repaving Fifth Avenue-Chapter 371, Laws of 1885.

The contract is in progress. The portion of the avenue completed during the year is as follows :

| STREET OR AVENUE. FROM. | | SQUARE YARDS. | LENGTH IN FEET. |
|--|--------------------------------------|------------------|---------------------------|
| Fifth avenue Fifth avenue Fifth avenue | Twenty-fifth to Thirty-second street | 54,069 | { 1,803 6,283 4,033 |
| To:a) | | 54,069 | 12,119 |

Total length of Fifth avenue repaved 2,29 miles.

year, viz. :

New Pavements under Assessment.

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

| STREET. | From. | SQUARE YARDS. | LENGTH IN FEET. |
|---|--|--|--|
| Granite-blocks. Eighty-second street One Hundred and Thirty-third street One Hundred and Third street | Avenue A to B Seventh to Eighth avenue First to Second avenue | 2,216 2,681 2,220 | 678 817 666 |
| Total | | 7,117 | 2,161 |
| Trap-blocks. Sixty-fourth street. Ninety-first street. One Hundred and Seventh street. One Hundred and Ninth street. One Hundred and Thirty-second street. | First to Second avenue Second to Fourth avenue E ghth to Ninth avenue Third to Lexington avenue Madison to Fourth avenue Seventh to Eighth avenue | 2,213 4,956 2,713 1,449 1,369 2,669 | 669 1,489 827 436 411 816 |
| Total | ••••• | 15,369 | 4,648 |
| REC | APITULATION. | | |
| Granite-blocks Trap-blocks | | 7,117 15,369 | 2,161 4,648 |
| Total | | 22,486 | 6,80 |

Total length of new pavements laid 1 29 miles.

The following is a list of streets and avenues under contract to be paved, which, on account of the cold weather could not be completed this year. These works will be progressed as early in the spring as practicable.

Repaving

Fifth avenue, from Ninth to Ninetieth street. Sixth street, from Bowery to Avenue B. William street, from Duane to North William street.

New Pavements.

New Pavements. Ninth avenue, from Seventy-seventh to One Hundred and Tenth street. Tenth avenue, from Seventy-fourth to One Hundred and Tenth street. Fifty-fifth street, from present pavement to North river. Sixty-sixth street, from Boulevard to Tenth avenue. Seventieth street, from Second to Third avenue. Seventy-first street, from Eastern Boulevard to East river. Seventy-first street, from Boulevard to Eleventh avenue. Seventy-fifth street, from Tenth avenue to Boulevard. Eighty-third street, from Tenth avenue to Boulevard. Eighty-fifth street, from Fighth to Ninth avenue. Ninety-first street, from Fighth to Ninth avenue. Ninety-first street, from Tighth to Tenth avenue. Ninety-sixth street, from Third to Lexington avenue. Ninety-seventh street, from Ninth to Tenth avenue. One Hundred and Second Street, from Lexington to Fifth avenue. One Hundred and Fifth street, from First avenue to Harlem river. One Hundred and Fifth street, from Second to Third avenue. One Hundred and Fifth street, from Second to Third avenue. One Hundred and Fifth street, from Second to Third avenue. One Hundred and Fifth street, from Sixth to Seventh avenue.

Wells and Pumps.

Public Drinking-hydrants.

209 drinking-hydrants were repaired. 16 new drinking-hydrants were erected at the following-named locations, viz. :

No. 225 Centre street

Northwest corner of One Hundred and Third street and Third avenue. Northeast corner of Courtland avenue and One Hundred and Fifty-fourth street. No. 6 Coenties Slip.

No. 785 First avenue.

2 pumps were repaired.

No. 293 Avenue C. Northwest corner of One Hundred and Sixty-seventh street and Third avenue. Southwest corner of One Hundred and Thirty-eighth street and Third avenue.

Aqueduct avenue, near High Bridge. Aqueduct avenue, 200 feet uorth of High Bridge. Northeast corner of One Hundred and Sixty-fifth street and Kingsbridge road. Southeast corner of One Hundred and Seventh street and First avenue. Northwest corner of One Hundred and Eighty-fifth street and Tenth avenue.

No. 375 Cherry street. South side of Gansevoort street, corner of West street.

South side of Ninety-ninth street, 350 feet west of Eighth avenue.

Vaults.

215 permits were issued to construct vaults. The amount received for the same is \$70,350.17.

114 permits were issued to repair vaults.

Statement showing the amounts on vouchers drawn, together with the estimated liabilities and balances on the appropriations for the year, which are under the charge of this Bureau :

| ON WHAT ACCOUNT | Appropri- ations and Transfers. | Vouchers Drawn. | ESTIMATED LIABILITIES. | ESTIMATED BALANCES. |
|--|---------------------------------------|--------------------|---------------------------|------------------------|
| Public Drinking-hydrants | \$5,000 co | \$2,726 93 | \$2,164 21 | \$108 86 |
| Public Drinking-hydrants-Salaries | 1,000 00 | 965 or | | 34 99 |
| Repaying Streets and Avenues | 204,500 00 | 168,562 30 | 30,031 78 | 5,905 92 |
| Repaying Streets and Avenues-Salaries | 6,600 00 | 2,424 00 | | 4.176 00 |
| Repaving Fifth avenue | 444,000 00 | 188,890 71 | 255,109 29 | |
| Repairs and Renewal of Pavements, etc | 219,500 00 | 196,987 54 | 12,374 99 | 10,137 47 |
| Repairs and Renewal of Pavements, etcSalaries | 11,300 00 | 9,150 50 | | 2,149 50 |
| Wells and Pumps-Repairing and Cleaning | 250 00 | | 22 90 | 227 10 |
| Repairing and Renewal of Pipes, Stop-cocks, etc | | 66,597 50 | 3,123 09 | |
| Contingencies-Department of Public Works | | 20 00 | | |
| Restoring and Repaying-Special Fund-Department of Public Works | | 31,622 97 | | |
| Fund for Local Improvements and Street Improve- ment Fund | | 55,701 50 | | |

The number of miles of paved streets in the City is as follows :



Respectfully submitted,

A. CULVER, Water Purveyor.

Document "F."

DEPARTMENT OF PUBLIC WORKS, OFFICE OF ENGINEER IN CHARGE OF SEWERS, No. 31 CHAMBERS STREET, ROOM 9, New York, January 4, 1887.

GRN. JOHN NEWTON, Commissioner of Public Works:

Se

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SIR—Herewith I hand you my report of the transactions of this office, for the quarter ending December 31, 1886, showing the present total length of sewerage in the city to be 2,186,980 lineal feet $(414\frac{20}{100})$ miles, with 5,063 receiving basins. During the past quarter 9 contracts for sewers and 9 contracts for basins have been completed, and there are now in progress of construction 29 contracts for sewers and 2 contracts for basins. Contracts have been executed for 5 other sewers and 6 other basins, but no work has been com-menced on them

menced on them.

menced on them.
In a few days I will hand you my annual report, when I will refer in detail to these matters.
This report shows a balance to the credit of "Sewers, Repairing and Cleaning," of \$16,069.75,
against which there are outstanding liabilities estimated at \$10,848.
If we could have obtained from the Corporation Counsel his approval of the specifications of the contract for repairing and cleaning sewer in First avenue, between Ninety-fifth and One Hundred and Sixth streets, so that it could have been made in December, 1886, this balance would have been very small. Respectfully,

HORACE LOOMIS, Engineer in Charge of Sewers.

REPORT OF THE TRANSACTIONS OF THE OFFICE OF THE ENGINEER IN CHARGE OF SEWERS FOR THE QUARTER ENDING DECEMBER 31, 1886.

| Credits to General Fund— | 12.000 |
|---|------------|
| Amount received for 337 permits for sewer connections | \$8,200 44 |

Engineers' Fees-Amount of Engineers' and Suveyors' fees assessed on property benefited and credited to— Fund for Local Improvements..... \$1,008 18 2,241 55 Street Improvement Fund

\$3,249 73

One Hundred and Twenty-first street, from Sixth to Seventh avenue. One Hundred and Thirty-first street, from Sixth to Seventh avenue. One Hundred and Thirty-first street, from Eighth to St. Nicholas avenue. One Hundred and Fifty-fifth street, from Avenue St. Nicholas to St. Nicholas place. Washington street, from Little West Twelfth to Fourteenth street.

Crosswalks.

Both sides of Sixth avenue, between One Hundred and Twenty-fifth and One Hundred and

Forty-fifth streets. Tenth avenue, between One Hundred and Fifty-fifth and One Hundred and Sixty-fifth streets. Across One Hundred and Twenty-sixth street, on west side of Avenue St. Nicholas. Across Pleasant avenue, at One Hundred and Fifteenth street.

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

The amount of work done by the repair force, under the direction of this Bureau, during the year, is as follows :

r, is as follows: 1,500 defects in pipes and stop-cocks were repaired. 693 taps were shut off on account of leaks in service pipes. 3,584 repairs were made to fire-hydrants. 462 new fire-hydrants were substituted for old ones. 14 new fire hydrants were erected.

1,625 defects in pavements were repaired.

| | - | | - |
|--|-------------------------|------------|-----------|
| Vers—Repairing and Cleaning— Balance on hand September 30, 1886 Vouchers transmitted to the Commissioner of Public Works— | - •••••• | \$36,599 4 | 12 |
| Pay-tolk of Laborers, etc. | \$12,472 62 6,740 91 | | |
| Materials and sundries. | 1,316 14 | | |
| Balance on hand December 31, 1886 | 16,069 75 | 36,599 | 12 |
| aries—Sewers—Repairing and Cleaning— Balance on hand September 30, 1886, Vouchers transmitted to the Commissioner of Public Works— | | \$2,849 C | >> |
| Pay-rolls of Inspectors, etc Balance on hand December 31, 1886 | \$2,038 35 810 65 | 2,849 0 | 00 |
| aries-Sewerage System- | - | | - |
| Balance on hand September 30, 1886 Vouchers transmitted to the Commissioner of Public Works- | ••••• | \$5,585 | 21 |
| Pay-rolls of Engineers, etc | \$2,661 86 | | |
| Balance on hand December 31, 1886 | 2,923 35 | | |
| | | 5,585 2 | 11 |

FEBRUARY 11 1887.

DIAMETER OF CIRCULAR Sewers, capable of Draining same Area, other things being Equal, as Calculated by Accepted Formulas.

4' 8"

following table will illustrate :

| Surveys, Maps, etc., for Street Openings and New Streets— Balance on hand September 30, 1886 Vouchers transmitted to the Commissioner of Public Works— | | \$9,653 94 | The following table will illu |
|---|--|--|---|
| Pay-rolls of Draughtsmen, etc Balance on hand December 31, 1886 | | 9,653 94 | Location of Outlet Sewers. |
| Restoring and Repaying—Special Fund— Amount received for 408 permits for street openings | | \$5,088 50 | |
| Local Improvement Fund- | 7 | | Forty-ninth street |
| Vouchers transmitted to the Commissioner of Public Works | | \$11,407 25 | Clarkson street |
| On contracts for sewers | . \$11,407 25 | 11,407 25 | Broome street |
| Fund for Local Improvements – Vouchers transmitted to the Commissioner of Public Works Pay-rolls of Engineers, etc | . \$1,603 53 | \$11,604 17 | Some of the old sewers in th intercepting sewers, however, co |
| On contracts for sewers | . 10,000 64 | 11,604 17 | be collected and discharged at a currents have sufficient power to |
| Street Improvement Fund— Vouchers transmitted to the Commissioner of Public Works Pay-rolls of Engineers, etc | = \$8.680 01 | \$31,986 39 | works will cost a large amount o water of the harbor, the convenie of the sanitary condition of the in |
| On contract for sewers | | 31,986 39 | I might mention in this c street, between Pike and Ferry st |
| Contingencies—Department of Public Works— | = | | and on Twelfth avenue, between That portion of the city, bet |
| Vouchers transmitted to the Commissioner of Public Works Transportation of Engineers and Inspectors for July, August and September, 1886 | 1 | \$229 02 | covering nearly 1,400 acres, ha improve. New streets are being this section into notice. Its lo |
| 1 | | 229 02 | renders it attractive to investors, must necessarily bring a large p |
| Boring Examinations for Grading and Sewer Contracts – Vouchers transmitted to the Commissioner of Public Works Pay-rolls of Engineers, etc. | \$1.313.00 | \$1,356 74 | The proper drainage and set consideration. Land-owners des urgent in their requests for sewer During the coming season m |
| Materials. | 43 74 | 1,356 74 | of work for their relief. |
| | = | | The work of maintaining t |
| 579 receiving-basins cleaned. 13,788 lineal feet of sewer cleaned. 250 lineal feet of sewer repaired. 107 lineal feet of supr pipe laid. 12 lineal feet of supr pipe laid. 12 lineal feet of curb reset. 2 new receiving-basins built. 2 receiving-basins rebuilt. 12 new basin-heads reset. 51 basins repaired. 12 new basin covers put on. 2 basin-heads reset. 34 new manhole-heads and covers put on 70 manhole-neads reset. 2 new manhole-heads and covers put on 70 manhole-heads and covers put on 71 anahole-heads and covers put on 72 new manhole covers put on. 34 new manhole-heads and covers put on 76 manhole covers put on. 318 square feet of flagging relaid. 318 square feet of flagging relaid. 318 square feet of flagging relaid. 319,17 cart bads of dirt removed. Work done by contract— 5,609 lineal feet of sewer built. 411 lineal feet of culvert built. 9 receiving-basins built. Making the present total length of sewerage in the city 2,186,980 with 5,063 receiving-basins. | JBLIC WORKS, | wers, } | per month. In addition to whin parties. The total expense charg \$104,944.34, leaving a balance of case, to be used, first, for all nec and second, for such extraordina cases of permanent repairs, or, n was too small to attempt, if the so far advanced that we could be required during the rest of the se During the past autumn I pi fifth and One Hundred and Ter There have been so many delay that it has not been possible to p being the outlet sewer for a la repair, being that bounded by T north, Harlem river on the east, been 76,919 lineal feet of sewer of pipe, or a total of 14½ miles, or cost for cleaning brick sewer per While pipe sewers cost much less are mostly small branch sewers, whereas the cleaning of a brick s carried by hand long distances un buckets and carted thence to a du yards is very large, amounting sc introduced it has cost on an avera for cleaning sewers by other able to devise something which vi- during the past year does not, of all those where there was grou- citizens on the books. Some of cleaning arises, but the basin clead drainage from the street may rea- and prevent their operations is as The most important works o |
| GEN. JOHN NEWTON, Commissioner of Public Works: DEAR SIR—Agreeable to your instructions, I hand you herewith m this office during the year ending December 31, 1886. During this peri- the sewerage system about 334 miles of sewer, 789 linear feet of culvert basins, costing \$135,276.11. Schedule "A" shows the location, size, etc., of the sewers complete There have also been put under contract a large number of other si- plete, amounting to $4, \eta_0^*$ miles, and estimated to cost \$306,785.19. Schedule "B" shows their location, etc. Most of the work done branch-sewers—a filling in, so to speak, of the general system. The most important works are the outlet sewers in Eighth avenue, 1 Fifty-third street and Harlem river, draining about 25 acres; sewer in E Hundred and Fifth and One Hundred and Fourteenth streets, connect and Tenth street sewer; sewers in Tenth avenue, between One Hundred Hundred and Seventy-third streets. This sewer in Tenth avenue, betwee second and One Hundred and Seventy-third streets, forms an important p draining as it does about 80 acres of a region recently thrown open to building of the Cable Road. Unfortunately legal difficulties have appe for it through One Hundred and Sixty-seventh street and across the so- Harlem river. In an opinion dated October 4, 1886, the Corporation O legislation was needed to enable the City to acquire the right of way should therefore recommend that he be requested to draft a proper bill to lature, thereby securing this much needed relief. | y report of the od there have b , together with ed during the ye ewers which are thus far consist between One 1 Eighth avenue, ing with the O t and Sixty-sec en One Hundre part of the sewe public improve ared in the way called High Bi Counsel stated I across private | operations of een added to 42 receiving- ear. e still incom- s of building Hundred and between One ne Hundred ond and One d and Sixty- rage system, ment by the of an outlet idge Park to is belief that property. I | Second avenue, between Six Eighth avenue, from One H and in One Hundred and Forty- One Hundred and Twenty-s Eleventh avenue, between S One Hundred and Eleventh Eighth avenue, between One streets. Eighty-first street, between I Ninety-third street, between I hird and Ninety-fifth streets. Second avenue, between One Fourth avenue, between One Fourth avenue, between One Ninety-fifth streets. Second avenue, between I and Ninety-sixth streets. Second avenue, between I one Hundred and Eighteenth to The most important work of Thirty-seventh street, from Six Ninth street, trom Fifth to S Thirteenth street, from Fifth to Eleventh street, from Fifth to |

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6' x 8' 5 458 street..... 326 7' 10" x 15' 9" 4' 3" et 48.5 4' x 2' 8" 2' 3" reet..... me of the old sewers in the near future could be rebuilt with advantage to the region drained ; thing sewers, however, covering the river front, ought to be built in order that sewage may cted and discharged at a less number of points, and at the pier head line where the tidal shave sufficient power to remove to deep water the large volume of such discharge. These vill cost a large amount of money, but will amply repay all outlay by the cleanliness of the f the harbor, the convenience of business being done along the docks, and the improvement anitary condition of the immediate vicinity. might mention in this connection as those to be first built : intercepting sewer on South between Pike and Ferry streets ; on West street, between Battery place and Liberty street, Twelfth avenue, between Fifty-third and Sixty-second streets. at portion of the city, between One Hundred and Fifty-eighth street and Harlem river, now g nearly 1,400 acres, has no sewerage system. This region, however, is beginning to e. New streets are being opened and various schemes are on foot which will tend to bring tion into notice. Its location on the high ridge which forms the backbone of the island it attractive to investors, and means of rapid communication now in operation and proposed iccessarily bring a large population. e proper drainage and sewerage of this region is a subject which will require thoughtful ration. Land-owners desirous of improving their property in various parts of this region are n their requests for sewerage.

DIMENSIONS.

9' x 8' 6"

ACRES DRAINED

530

their requests for sewerage. ing the coming season much attention must be bestowed upon the designs and constructions for their relief.

REPAIRS AND CLEANING.

work of maintaining the sewer system has been performed by a force of 10 Foremen e work of maintaining the sewer system has been performed by a force of 10 Foremen nekeepers, 4 Mechanics, 32 Laborers, and 16 horses and carts, at a cost of about \$4,100 th. In addition to which a large amount of work has been done under orders to private The total expense chargeable to this fund, including all labor, materials and supplies, was 4.34, leaving a balance of \$5,055.66. The appropriation of \$110,000 was, in my view of the be used, first, for all necessary cleaning of sewers and street-basins, and for ordinary repairs, ond, for such extraordinary repairs as might be called for on short notice. There are many permanent repairs, or, more properly speaking, rebuilding, which in my judgment the fund small to attempt, if the ordinary calls upon it were responded to, and until the season was lvanced that we could be assured that our regular laboring force could accomplish what was during the rest of the season. during the rest of the season.

dvanced that we could be assured that our regular laboring force could accomplish what was I during the rest of the season. tring the past autumn I proposed the rebuilding of the sewer in First avenue, between Ninety-d One Hundred and Tenth street, with the fund which I then found would be available. have been so many delays, however, in getting the form of contract printed and approved, has not been possible to put this work under contract. This is a work of much importance, he outlet sewer for a large district, and the worst district in the city to keep clean and in being that bounded by Third avenue on the west, One Hundred and Tenth street on the Harlem river on the east, and Ninety-fifth street on the south. During the year there have A_{010} lineal feet of sewer cleaned, of which 55,819 lineal feet were brick and 21,100 were a total of $14\frac{1}{2}$ miles, or about $\frac{31}{90\pi}$ of the total mileage, and 2,441 receiving-basins. The cleaning brick sever per foot was thirty-nine cents, for pipe sewer was seven cents per foot. So the cleaning of a brick sever is a very slow and tedious process. All the material must be by hand long distances under ground, and hoisted through a manhole to the street in small and carted thence to a dump on the river front. The cost of this work when figured in cubic very large, amounting sometimes to over 53 per yard ; under the competitive plan recently the hast year does not, of course, include all the dirty severs in the system, but it did include se where there was ground for complaint, and on January 1 there was no complaint from on the books. Some of the large severs will operate for years before the necessity for g arises, but the basin cleaning must be done continually and repeatedly in order that the e from the street may reach the sever ; the variety of articles which find their way into them went their operations is astonishing.

The their operations is astonishing. most important works of cleaning were : and avenue, between Sixty-ninth and Seventy-second streets. both avenue, from One Hundred and Forty third to One Hundred and Forty-seventh street, One Hundred and Forty-seventh street, from Eighth avenue to East river. Hundred and Twenty-seventh street, between Second and Third avenues. There is a street in the sevent is the sevent is street in the sevent is street.

renth avenue, between Seventy-fourth and Seventy-sixth streets. Hundred and Eleventh street, between First avenue and East river. hth avenue, between One Hundred and Twenty-seventh and One Hundred and Thirty-third

hty-first street, between First avenue and Avenue A. ety-third street, between First avenue and Second avenue, and First avenue, between Ninety-Ninety-fifth streets.

and avenue, between One Hundred and First and One Hundred and Sixth streets. rth avenue, between One Hundred and Second and One Hundred and Sixth streets. ety-fifth street, between First and Second avenues, and Second avenue, between Ninety-fifth

y-sixth streets. and avenue, between Eighteenth and Twenty-third streets. Hundred and Twenty-fourth street from First to Pleasant avenue, and Third avenue, from adred and Eighteenth to One Hundred and Twentieth street.

The most important work of repairing was: Thirty-seventh street, from Madison to Fifth avenue. Twenty fifth street, from Sixth avenue to Broadway. Ninth street, from Fifth to Sixth avenue.

Thirteenth street, from Fifth to Sixth avenue. Twelfth street, from Fifth to Sixth avenue.

Eleventh street, from Fifth to Sixth avenue. Twenty-fourth street, from Madison to Fourth avenue. First avenue, from Fourteenth to Fifteenth street.

a great advantage to the region drained by them, by carrying the sewerage out to deep water at the end of the piers. They will also form a part of the system of marginal sewers long contemplated, of which I shall speak more fully becafter. which I shall speak more fully hereafter.

which I shall speak more fully hereafter. At the beginning of the present year the extension of the sewerage system was brought almost to a standstill from the lack of funds. The prospect of being able to keep up with the demand for new sewers was so unfavorable that many owners petitioned to be allowed to build, at their own expense, such sewers as were needed to drain their property ; all told, 4,889½ lineal feet of such sewers were built. For their location and other data you are referred to Schedule "C." South of One Hundred and Fifty-eighth street the sewerage system, in its main features, is fixed. It has been the growth of years, and while it has many imperfections, as stated in the last annual report of my predecessor, still it accomplishes the purpose quite satisfactorily. In this portion of the city the main business will be the building of branch sewers, covering at most a few blocks, and the improvement of the old sewers. The area of Manhattan Island, taken to the new bulkhead lines, is now 12,500 acres, leaving 3,000 acres yet to be cared for. At present the sewage of the whole river front from One Hundred and Fifty-eighth street, North river, to One Hundred and Forty-seventh street, Harlem river, and measuring about 50 miles. There are also 364 ¹⁰/₁₀ miles of branch or lateral sewers, making the total length of the sewers of the city, exclusive of the Twenty-third and Twenty-fourth Wards, 414 ¹⁰/₁₀ miles of all sizes, together with 5,077 receiving-basins, the smallest being of sewers, making the total length of the severs of the try, extensive of the Twenty-fund at Twenty fourth Wards, 414_{10} miles of all sizes, together with 5,077 receiving-basins, the smallest being of 12 inch pipe, and the largest being the Canal street outlet, which is 8 by 16 feet, between Washington street and North river, and 7 by 10 feet between Washington street and Broadway, the next largest being the One Hundred and Tenth street outlet, which is 8 by 12 feet, extending from Fifth avenue to Bort and John Street and North river, the discharge at low water mark here the provide are therefore. being the One Hundred and Tenth street outlet, which is 8 by 12 feet, extending from Fifth avenue to East river. Most of them discharge at low water mark, near the shore line; the solids are therefore left at 154 different places, causing an impediment to the use of the bulkheads, a nuisance to the neighborhood and a menace to public health. A table is now in process of preparation and will be submitted later, showing the number and location of these and various other data in reference thereto. It appears that the views which prevailed at different times as to the proper dimensions for such work caused the building of many sewers much out of proportion to the requirements of the case.

One Hundred and First street, from Second to Third avenue. Sixth avenue between Eighteenth and Twentieth streets. Fourty-fourth street, from Eleventh and Twendeton North river. Ninth avenue, between Eighty-third and Eighty-fourth streets. First avenue, between One Hundred and First and One Hundred and Second streets. Lexington avenue, between Sixty-fourth and Sixty-fifth streets. Thirteenth street, between Second and Third avenues. Thirteenth street, between Second and Third avenues. Avenue A, between Fifty-fourth and Fifty-fifth streets. Beekman street, between Gold and William streets. Schedule "D" shows all the work done under this appropriation. I propose during the coming year to make some extensive and much needed repairs, among which I might mention the laying of tile inverts in certain of the larger sewers, a plan adopted by my predecessor to increase the efficiency of the same, and the rebuilding of sewers in : Sixth avenue, between Fourteenth and Sixteenth streets. Sixth avenue, between Clinton place and West Washington Square. First avenue, between One Hundred and Fourth and Ninety-fifth streets. Eleventh street, between Second and Third avenues. Tile work in Ninth Eleventh Tweffth Thirteenth and Twenty-fifth streets west side of city. Tile work in Ninth, Eleventh, Twelfth, Thirteenth and Twenty-fifth streets, west side of city, and Ninth street, between Avenues B and C. Pipe sewer in Ninth avenue, between Ninety-second and Ninety-sixth streets. Box sewer in Fulton street, at North and East rivers. Thirteenth street, between Third and Fourth avenues.

STREET OPENINGS.

The duty of preparing maps and plans for the use of the Board of Street Openings has by law been imposed upon this Department. The necessity of investigating all matters of proposed open-ing of new streets in order to lay such information before the Board as will guide them in deciding as to the advisibility of accepting or rejecting such propositions is a work of considerable magnitude

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| nd takes much of my time. The following list shows the streets for which certain maps have been unished during the year. Widening of Gansevoort street and West Thirteenth street, between Washington street and | | | | | | | | |
|--|--|--|------------------------------|--|---------|------------------------|--|--|
| A public place in the Twenty-second Ward of the City of New York. Extension of Manhattan street, between Twelfth avenue and Hudson river. One Hundred and Sixty-seventh street, between Tenth avenue and Edgecombe road. Dyckman street, between Kingsbridge road and Harlem river. | LOCATION OF WORK. | Size of Sewer. | Estimated Linear Feet. | Culvert, Estimated Linear Feet. | BASINS. | Estimated Cost. | | |
| Lexington avenue, between Ninety-seventh and One Hundred and Second streets. One Hundred and Fiftieth street, between Tenth avenue and Avenue St. Nicholas. Edgecombe road, between One Hundred and Fifty-fifth and One Hundred and Seventy-fifth sts. One Hundred and Seventy-third street, between Tenth avenue and Kingsbridge road. | Setuers. One Hundred and Seventeeth street, between Fifth and Sixth avenues, etc Eighth avenue, between One Hundred and Fifth and [| 3' 6'' x 2' 3' 6'' x 2' 4'' | 1,755 | 20 | 1 | \$10,489 87 | | |
| One Hundred and Thirty-eighth street and Hamlin avenue, between Avenue St. Nicholas and enth avenue. | One Hundred and Fourteenth streets, etc | 3' 6" x 2' 4' x 2' 8" | } 2,410 | 1,235 | 8 | 53,047 88 | | |
| New or Convent avenue, between One Hundred and Thirty-fifth and One Hundred and Forty- th streets. | teenth avenue, between Fourteenth and Seven- | 4 x 2 d 4' x 2' 8'' 3' 6'' x 2' | 1,605 | 42 130 | 2 1 | 16,365 80 28,067 00 | | |
| One Hundred and Twelfth street, between Tenth avenue and Boulevard. One Hundred and Twenty-first street, between Eighth and Ninth avenues. | West End avenue, between Sixty-fourth and Sixty- fifth streets, etc | 3' 6" x 2' | 1,015 | 30 | 2 | 24,299 82 | | |
| One Hundred and Nineteeth street, between Eighth and Ninth avenues. One Hundred and Fifty-fourth street, between Eighth avenue and Harlem river. | Sixty-second street, between Tenth and Eleventh ave- nues | 3' 6'' x 2' | 717 | 35 | 2 | 9,513 02 | | |
| One Hundred and Fiftieth street, between St. Nicholas place and Hudson river. | Seventy-sixth street, between Avenue A and East river | 3' 6'' x 2' | 690 | | | 11,320 10 | | |
| One Hundred and Fortieth street, between Avenue St. Nicholas and New or Convent avenue. Land to be taken for drainage purposes, One Hundred and Sixty-seventh street to Harlem river. | Ninety-second street, between Ninth avenue and Boulevard, etc | 3' 6" x 2' | 1,380 | 20 | I | 16,380 10 | | |
| One Hundred and Seventeenth street, between Eighth and Ninth avenues. One Hundred and Eighteenth street, between Eighth and Ninth avenues. | Tenth avenues | 3' 6'' x 2' | 670 | 25 | 2 | 7,130 20 | | |
| One Hundred and Thirtieth street, between Eighth avenue and Avenue St. Nicholas. | vard and Ninth avenue, etc | 3' 6" x 2' | 1,180 | 60 | 2 | 11,378 40 | | |
| Ninety-ninth street, between Third and Fourth avenues. One Hundred and Eighty-second street, between Kingsbridge road and Tenth avenue. | Sixty-fourth street, between Avenue A and First ave- nue | 3' 6" x 2' | 670 | | | 8,761 50 | | |
| One Hundred and Fortieth street, between Eighth avenue and Edgecombe road. | Seventy-fourth street, between Ninth and Tenth ave- | 3' 6" x 2' | 756 | | | 10,346 82 | | |
| Land to be taken for approval to Central Park at One Hundred and Tenth street and Fifth ave. The following is a list of streets upon which certain maps and plans have been ordered and are w under way : | One Hundred and Thirteenth street, between Boule- vard and Riverside avenue St. Nicholas avenue, east side, between One Hundred and Forty-first and One Hundred and Forty-fifth | 3' 6'' x 2' | 420 | | | 5,734 30 | | |
| One Hundred and Twenty-seventh street, between Second avenue and Harlem river. | Streets One Hundred and Eighteenth street, between Fifth | 3' 6" x 2' | 945 | | | 10,164 00 | | |
| Fifty-fourth street, between Tenth avenue and Hudson river. Fifty-second street, between Tenth avenue and Hudson river. | and Sixth avenues. One Hundred and Thirty-first street, between Broad- | 3' 6'' x 2' | 904 | | | 5,295 95 | | |
| Fifty-third street, between Eleventh avenue and Hudson river. | way and Tenth avenue. | 3' 6'' x 2' | 420 | | | 2,478 30 | | |
| One Hundred and Eighty-first street, between Tenth and Eleventh avenues. Streets and avenues between Avenue St. Nicholas and New avenue, west of same, and between | avenue and Avenue St. Nicholas | 3' 6" x 2' | 366 | | | 1,748 45 | | |
| e Hundred and Fortieth and One Hundred and Forty-fifth streets. | Outlet sewer through Pier 20, East river, etc One Hundred and Forty-third street, between Seventh | 3' Cir. 4'''' | 680 550 | | | 8,053 54 7,006 45 | | |
| Hamilton Grange. | and Eighth avenues | 3' 6'' x 2' | 715 | | | 4,743 75 | | |
| One Hundred and Thirty-fourth street, between Boulevard and Twelfth avenue. One Hundred and Eighty-first street, between Eleventh avenue and Western Boulevard. | Madison avenue, between One Hundred and Seven- teenth and One Hundred and Nineteenth streets Ninety-seventh street, between Ninth avenue and | 3' 6'' x 2' | 465 | | | 10,406 55 | | |
| One Hundred and Twenty-fifth street, Clarmount avenue and One Hundred and Twenty-third et, between Boulevard and Riverside avenue. One Hundred and Seventieth street, between Tenth avenue and Kingsbridge road. | summit west. Ninety-first street, between Eighth and Ninth avenues Lexington avenue, between Eighty-ninth and Ninety- first streets, and between Ninety-third and Ninety- | 3' 6'' x 2' 3' 6'' x 2' | 370 845 | :::: | :: | 5,599 00 9,171 85 | | |
| One Hundred and Forty-eighth street, between Eighth avenue and Hudson river. | Sixty-seventh, Sixty-eighth and Sixty-ninth streets,) | 3' 6" x 2' 15" iron) | 500 | 25 | I | 7,062 00 | | |
| One Hundred and Forty-ninth street, between Eighth avenue and Hudson river. Ninety-fourth street, between First and Second avenues Aububon avenue, between One Hundred and Sixty-fifth and One Hundred and Seventy-fifth sts. | between West End avenue, etc., etc., | pipe. § | 1,005 | 12 | 6 | 9,520 22 | | |
| One Hundred and Sixty-sixth street, between Tenth and Eleventh avenues. One Hundred and Seventieth street, between Kingsbridge and Fort Washington Ridge roads. One Hundred and Thirty-second street, between Eighth avenue and Avenue St. Nicholas. One Hundred and Thirty-ninth street, between Tenth avenue and Boulevard. | Basins. Alteration and improvement to basins southeast and southwest corners of Ninety-second, Ninety-fourth and Ninety-sixth streets, etc., etc., and West | | | | | | | |
| Closing Bogart street, between West street and Thirteenth avenue. One Hundred and Sixty-third street, between Tenth avenue and Kingsbridge road. | End avenue | | | 90 | | 1,225 12 | | |
| PERMITS. | | | 24,473 | 1,724 | 28 | \$306,786 19 | | |
| There were issued 2,647 permits to plumbers to connect and repair house connections with plic sewers for which was received \$34,428.41. For restoration of paving over above \$22,313, king a total of \$56,741.41. | The following 5 contracts for sewers have been executed but not commenced : | | | | | | | |
| BORING FOR ROCK. | One Hundred and Forty-second street, between Sev- enth and Eighth avenues. | 3' 6'' x 2' | 700 | | | \$4,485 2 | | |
| In making estimates for new work the amount of rock to be removed is an important item. To | Fifth and One Hundred and Sixth streets | 15" pipe. | 205 | | | 1,759 7 | | |
| in beforehand this information a party has been engaged under the direction of an assistant ineer in boring streets and avenues to the depth of proposed sewers. In case o finding rock, | One Hundred and Fortieth street, between Seventh and Eighth avenues | | 710 | | | 2,873 20 | | |
| ng every ten feet is required. Thirty streets or avenues with a length of 20,642 linear feet have a thus examined. | One Hundred and Forty-eighth street, between Sev- enth and Eighth avenues | 3' 6" x 2' | 720 | | | 3,223 2 | | |
| There have also been received during the year and are now on file in this office twenty-five lications for sewers in streets, all of which have been opened according to law, with the exception our, amounting to about 10,890 linear feet or 2.06 miles, which can constructed in the coming year. | Seventy-second street, between Hudson river and Eleventh avenue, etc | 4 Cir. 3' 6'' x 2' 8'' 3' 6'' x 2' o'' | 1,905 | 70 | 5 | 31,685 5 | | |
| ere have also been executed five sewer contracts and six contracts for basins, upon which no work been done on account of the inclemency of the season. The locations, etc., appears in the latter t of Schedule "B." | | | 4,240 | 70 | 5 | \$44,026 9 | | |
| Very respectfully submitted, HORACE LOOMIS, Engineer in Charge of Sewers. | And 6 contracts for 9 receiving-basins | | | 209 | 9 | 2,392 5 | | |

| SCHE | DULE | ** | A. |
|------|------|----|----|

Sewers Completed during the Year 1886.

| LOCATION OF WORK. | Size of Sewer. | Linear Feet. | Cul- vert, Linear Feet. | Basins. | TOTAL COST, INCLUDING ENGINEBRING AND INSPECT- ORS' FEES. |
|---|--|-----------------|----------------------------------|---------|---|
| Sewers. | | | | | |
| Attorney street, between Stanton and Rivington streets Fourth avenue, east side, between Fifty-fourth and Fifty-fifth | 3' 9" x 2' | 355 | | | \$2,374 07 |
| streets Lexington avenue, between Ninety-fifth and Ninety-seventh | 3' x 2' | 166 | | | 1,399 09 |
| streets, etc One Hundred and Sixth street, between Boulevard and summit | 3' 6'' x 2' | 1,414 | 81 | 3 | 14,132 23 |
| east Ninety-seventh street, between Boulevard and Riverside | 3' x 2' | 358 | | | 3,685 56 |
| avenue Forsyth street, between Stanton and Houston streets, etc | 3' 6" x 2' 3' 6" x 2' | 553 233 | | | 5,899 08 1,732 86 |
| One Hundred and Fourteenth street, between Fourth and | | | | | 1,732 00 |
| Sixth avenues One Hundred and Sixth street, between summits east and | 3' 6" x 2' | 1,565 | | | 6,313 17 |
| west of Tenth avenue | 3' X 2' 3' 6'' X 2' | 568 | 33 | 4 | 6,176 14 |
| Tenth avenue, east side, between One Hundred and Sixty- | | 105 | | | 985 76 |
| second and One Hundred and Seventieth streets, etc Ninety-fourth street, between Eighth and Ninth avenues | 3' 6" x 2' 3' 6" x 2' | 4,743 722 | 163 | 17 | 47,392 83 |
| Lexington avenue, between Eighty-third and Eighty-fifth | | 122 | | | 5,536 84 |
| streets | 3' 6" x 2' 3' 6'' x 2' | 420 | | | 5,005 22 |
| Ninety-fifth street, between Ninth and Tenth avenues One Hundred and Fifth street, between First avenue and | 3 6" x 2' | 756 | | | 7,610 28 |
| Harlem river One Hundred and Fifteenth street, between Seventh and | | 721 | | | 3,584 69 |
| Eighth avenues Ninety-sixth street, extension of sewer (wooden-box) | 3' 6'' x 2' 5' x 6' | 676 162 | | | 3,381 30 2,843 35 |
| One Hundred and Fifty-first street, completing unfinished sewer between Avenue St. Nicholas and Tenth avenue, etc. | 3' 6" x 2' | 838 | | | 9,062 59 |
| One Hundred and Thirty-third street, between Eighth avenue and Avenue St. Nicholas | 3' 6" x 2' | 255 | | | 1,175 75 |
| | | | | 1015 | |
| Basins. Alteration and improvement to basins, northeast and north- west corners of Seventy-second, Seventy-third and Seventy- | | | | | • |
| fourth streets, and West End avenue | | | 25 | | 357 38 |
| Seventy-ninth and Eightieth streets and West End avenue. | | | 140 | | 1,710 30 |
| Basin, southeast corner of Eighty-first street and Avenue A Basin, northwest corner of One Hundred and Seventh street | | | 29 | I | 368 00 |
| and First avenue | | | 16 | 1 | 269 42 |
| Basins, One Hundred and Twenty-ninth street, at junction of Manhattan street | | | 57 | 3 | 855 93 |
| Basins, northwest corner of One Hundred and Twenty-first street and Fourth avenue | | | 20 | I | 48x 65 |
| Basins, southeast corner of One Hundred and Ninth street and Fourth avenue | | | 20 | I | 352 44 |
| Basins, northeast corner of One Hundred and Seventh street and First avenue | | | 20 | 1 | 208 07 |
| Basins, northeast and southwest corners of One Hundred and First street and Third avenue, etc | | | 83 | 6 | 1,201 21 |
| First Street and Third avenue, contraction the | a desta de la compañía de | | | | |
| Total | | 14,670 | 704 | 39 | \$135,276 11 |
| | | | | | |

| SCH | EDI | ULE | " | C.' |
|-----|-----|-----|---|-----|
| | | | | |

Sewers Built by Permits during the Year 1886.

| | LOCATION OF WORK. | Size of Sewer, | Linear Feet. | Culvert Linear Feet. | BASINS. |
|--------|--|---|---------------------------|----------------------------|---------|
| - 7 9 | One Hundred and Fiftieth street, between Tenth avenue and Avenue St. Nicholas Eighty-eighth street, between Boulevard and Tenth avenue Ninety-seventh street, between Eighth and Ninth avenues St. Nicholas avenue, between One Hundred and Forty-seventh and One Hundred and Forty-eighth streets. One Hundred and Twenty-third streets, between Eighth and St. | 3' 6'' x 2' 3' 6'' x 2' 3' 6'' x 2' | 640 290½ 719 170 | | |
| 3 | Nicholas avenues Ninety-seventh street, between Ninth and Tenth avenues | 12" pipe 3' 6" x 2' | 174 485 | | |
| 6 8 | One Hundred and Thirty-sixth street, between Eighth and New avenues Edgecombe road, between One Hundred and Thirty-sixth and One | 3' 6" x 2' | 352 | | |
| 6 | Hundred and Thirty-seventh streets One Hundred and Fifth street, between Tenth avenue and two hundred | 12" pipe | 198 | | |
| 7 | and fifty feet east Kingsbridge road, between One Hundred and Fifty-sixth and One | 3' 6" x 2' | 280 | 45 | I |
| 46 | Hundred and Fifty-seventh streets Kingsbridge road, between One Hundred and Fifty-seventh and One | 3' 6'' x 2' | 250 | | |
| 3 | Hundred and Fifty-eighth streets One Hundred and Forty-seventh street, between Tenth avenue and | 3' 6'' x 2' 4'' | 290 | | |
| 4 | Avenue St. Nicholas Seventy-ninth street, between Ninth avenue and summit west | 3' 6'' x 2' 3' 6'' x 2' | 734 307 | 40 | 2 |
| 8 | | | | | |
| 9 | | | 4,8891/2 | 85 | 3 |

SCHEDULE "D."

Report of the Transactions of the Office of the Engineer in Charge of Sewers for the year ending December 31, 1886.

ending Dece Work done by Mechanics and Laborers— 2,441 receiving-basins and culverts cleaned. 76,919 lineal feet of sewer cleaned. 422 lineal feet of sewer repaired. 429 lineal feet of sewer repaired. 429 lineal feet of culvert rebuilt. 406 lineal feet of spur pipe laid. 65 lineal feet of sour best. 27 lineal feet of curb reset. 190 lineal feet of box sewer built. 5 receiving-basins built. 5 receiving-basins rebuilt. 206 receiving-basins repaired. 63 new basin-heads and covers put on. 16 basin-heads reset. 76 new manholes built. 463 manholes repaired.

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|--|--|----------------------|
| Vork done by Mechanics and Laborers – | A board fence has been built in Rivington street in front of Corporation Yard. | |
| 262 manhole heads reset. | Picket fences have been erected on Fifty-eighth and Fifty-ninth streets and I prevent accidents. | East river, t |
| 202 new manhole heads and covers put on. 318 new manhole covers put on. | Also a picket fence has been built in front of City property, corner Lexington aven | ue and Sixty |
| 21 house connections repaired. | seventh street. | |
| I new bulkhead built. | Since the transfer to this Bureau of the care of sidewalks from the Bureau of Incur April 1,997 notices have been served on property-owners to make the necessary repairs | nbrances las |
| 12 square feet of crosswalk laid. 1,684 square feet of flagging relaid. | Respectfully submitted, | • |
| 1,976 square yards of pavement relaid. | W. M. DEAN, Superintendent of Street Impro | vements. |
| 6,488 cubic yards of earth excavated and refilled. | in an a surry supermember of street impro | venients. |
| 142 loads of earth filled in. 8,153 cart loads of dirt removed. | STATEMENT OF THE AMOUNT OF WORK DONE DURING THE QUARTER ENDING DECEM | BER 31, 1886 |
| ork done by Contract and by Property-owners | Earth excavated, cubic yards. | . 33,168 |
| By Contract | Rock excavated, cubic vards | 24.625 |
| 14,793 lineal feet of sewer built.658 lineal feet of culvert built. | Filling furnished, cubic yards. | |
| 39 receiving-basins. | Curb-stones set, linear feet | . 7,128- |
| By Property-owners- | Curb-stones reset, linear feet | . 347 |
| 3891/2 lineal feet of sewer built. | Flagging laid square feet | |
| 3 receiving-basins. | Flagging laid, square feet | . 03,303- |
| | Flagging relaid, square feet Dry stone box culvert, linear feet | · 577 |
| Document "G." | Picket fence built | |
| Document of | ricket lence built | . 1,163 ⁵ |
| DEPARTMENT OF PUBLIC WORKS, | WORK DONE IN FRONT OF CITY PROPERTY. | |
| BUREAU OF STREET IMPROVEMENTS, ROOM 5, NO. 31 CHAMBERS STREET, New York, January 7, 1887. | Curb-stones set, linear feet | . 232 |
| | Curb-stones reset, linear leet | . 125 |
| T. JOHN NEWTON, Commissioner of Public Works : SIR—In compliance with your instructions I have the honor to submit herewith my report of | Flagging laid, square feet | . 1,441 . 600 |
| operations of the Bureau of Street Improvements for the quarter ending December 31, 1886. | | |
| During the year twenty-nine contracts have been completed at a cost of \$835,524.98, and for | Board fence with gates built, linear feet | . 79- |
| ch assessment lists have been transmitted to the Chief Clerk's office. | WORK DONE ON ACCOUNT OF THE CITY. | |
| The most important of these completed contracts are as follows : Morningside avenue, from One Hundred and Tenth street to Tenth avenue. | | |
| Kingsbridge road, from One Hundred and Fifth-tifth to One Hundred and Ninetieth street. | 40 Monument-stones set and reset on Kingsbridge road and Eleventh avenue. 2 Monument-stones set and reset on One Hundred and Eighty-fifth street. | |
| West End avenue, from Seventy-second street to Boulevard. | | |
| Eleventh avenue, from Kingsbridge road to Dyckman street. Ninety-third street, from West End avenue to Riverside Drive. | 42 Monument-stones set and reset. | |
| One Hundred and Eighteenth street, from Fourth to Eighth avenue. | AMOUNT OF VOUCHERS DRAWN. | |
| One Hundred and Fifty-third street, from sixty feet east of Seventh avenue to New avenue. | On account of - | A 0.0 |
| One Hundred and Fifty-fifth street, from Eighth avenue to McComb's Dam lane. One Hundred and Eighty-fifth street, from Tenth avenue to Kingsbridge road. | Fund for Local Improvements. | \$23,898 |
| One fruitated and Engity-inth street, from Tenth avenue to Kingsonage toad. | Street Improvement Fund | 40,744 |
| WORKS UNDER CONTRACT. | Street Improvements-For Surveying, Monumenting and Numbering of Streets, | -00 |
| Hundred and Fourteenth street, from Fourth to Eighth avenue- | 1886 Street Improvements—For Surveying, Monumenting and Numbering of Streets, | 388 |
| This contract has been prosecuted with energy by the contractor, and will in all probability be | 1884 | 800 |
| completed during June next. t Washington Ridge road— | Flagging Sidewalks and Fencing Vacant Lots in front of City Property | 668 |
| This is a large contract, and over 100,000 cubic yards of rock excavation has been done during | Contingencies of Department of Public Works Boring Examinations for Grading and Sewer Contracts | |
| the last year. It is expected to be finished during the fall of this year. | | 764 7 |
| hety-fourth street, from Boulevard to Riverside Drive— Most of the rock excavation has been performed on this work and the completion is looked for | Total | \$129,102 0 |
| in the spring of this year. | | |
| e Hundred and Thirty-second street, from Tenth avenue to Broadway- | APPROPRIATIONS. | |
| The work on this contract has been suspended on account of the weather. It will in all proba- bility be completed in May or June next. | Street Improvements-For Surveying, Monumenting and Numbering of Streets, 1884 . | \$3,000 0 |
| recombe avenue, from One Hundred and Thirty-seventh to One Hundred and Fortieth street— | Amount of vouchers drawn during 1884 | |
| This work is actively progressed with and will be completed in the fall of the year. | Balance | |
| ecombe avenue, from One Hundred and Forty-first to One Hundred and Forty-fifth street. | | 3,000 |
| The work on this avenue is progressing well and will be finished during the year. ecombe avenue, from One Hundred and Forty fifth street to St. Nicholas place— | Charact Jamman and Far Companies Manufacture and Numbrains of Character 2006 | |
| This is a very large contract, including earth and rock excavation and masonry, and will | Street Improvements – For Surveying, Monumenting and Numbering of Streets, 1886. Amount of vouchers drawn during first quarter | \$3,000 |
| require a year to complete it. t New avenue, west of Eighth avenue, from One Hundred and Forty-fifth to One Hundred and | Amount of vouchers drawn during second quarter | |
| Fifty-fifth street— | Amount of vouchers drawn during third quarter | |
| The work on this contract consists mainly of filling (about 100,000 yards), is now in active | Amount of vouchers drawn during fourth quarter | |
| progress, and will require about eighteen months to complete it. | Balance, estimated | |
| emont avenue, from One Hundred and Sixteenth to One Hundred and Twenty-second street- Work on this avenue is proceeding satisfactory, and the completion of it may be expected in | | 3,000 |
| the fall of this year. | | |
| George avenue, from Tenth to Eleventh avenue- | Flagging sidewalks and Fencing Vacant Lots in front of City Property, 1886 | \$1,000 |
| This is a heavy rock cutting, and will require about one year to complete. | Amount of vouchers drawn— During first quarter | |
| fifth street, from First avenue to Avenue A— This contract has just been signed and work is about commencing. It will be completed in the | | |
| fall of this year. | During fourth quarter | |
| r-ninth street, from Eighth to Ninth avenue- | Balance | 1 000 |
| Work is progressing on this street, and the same will be finished during this summer. ty-ninth street, from Boulevard to Riverside Drive— | | 1,000 |
| Work on this street has been active, and may be expected to be completed during the | Contingencies of Department of Public Works- | |
| summer. | Amount of vouchers drawn— During the first quarter | |
| ty-first street, from Tenth avenue to Riverside Drive— This contract has made such progress that it can be finished during the summer. | During the second quarter 194 50 | |
| Hundred and First street, from Eighth to Manhattan avenue | During the third quarter 225 00 | |
| This work, being altogether of an embankment, has made such active progress that it can readily | During the fourth quarter 225 00 | - |
| be finished during the coming summer. | | \$750 |
| Hundred and Second street, from Ninth avenue to Riverside Drive— This is mainly a work of excavation and will be probably completed during the year. | Boring Examinations for Grading and Sewer Contracts- | 4.0 |
| Hundred and Eighth street, from Eighth to Manhattan avenue - | Amount of voucher drawn | \$764 |
| This contract has been signed last month, and work is about commencing. It will take about | WORKS COMPLETED DURING THE QUARTER. | |
| one year to complete it. | Regulating, grading, etc.— | |
| Hundred and Eighth street, from Tenth avenue to Boulevard— | West End avenue, from Seventy-second street to Boulevard \$107,315 23 | |
| This work will be completed during this month. Hundred and Twelfth street, from Eighth to New avenue— | William street, from Duane to North William street | |
| This work is in active progress and will be completed during the summer. | Ninety-third street, from West End avenue to Riverside Drive 40,956 23 | |
| Hundred and Fourteenth street, from Tenth avenue to Riverside Drive— | One Hundred and Thirtieth street, from Old Broadway to Boulevard 1,564 73 One Hundred and Fifty fifth street, from Eighth avenue to New | |
| This work is now in a fair state of forwardness, and its completion may be looked for in May next. | avenue 8,385 39 | |
| Hundred and Thirty-seventh street, from Tenth to Convent avenue- | One Hundred and Fifty-fifth street, from Eighth avenue to | |
| The contract for this work has just been signed. Work will commence soon. | McComb's Dam lane 14,513 27 | A |
| rk on the following streets has been suspended during the frosty season; their completion may be | | \$176,600 |
| expected during the year : | Flagging- | |
| First New Avenue, west of Eighth avenue, from One Hundred and Forty second to One | Tragging Wast side Crand Boulanned from Circle Cost to Circle di Line | |
| First New Avenue, west of Eighth avenue, from One Hundred and Forty-second to One Hundred and Forty-fifth street. | Southeast corner Lexington avenue and One Hundred and Twenty | |

| First New Avenue, west of Lighth avenue, from One fundred and Forty-sed |
|--|
| Hundred and Forty-fifth street. |
| Sixty-fifth street, from Tenth to Eleventh avenue. |
| Eighty-first street, from Avenue A to Avenue B. |
| Eighty-second street, from Boulevard to Riverside Drive. |
| Ninetieth street, from Boulevard to Riverside Drive. |
| One Hundred and Seventh street, from Boulevard to Tenth avenue. |
| One Hundred and Seventh street, from Eighth to Ninth avenue. |
| One Hundred and Thirteenth street, from Eighth to Ninth avenue. |
| One Hundred and Thirty-seventh street, from Eighth to St. Nicholas avenue. |
| One Hundred and Thirty-seventh street, from Seventh to Eighth avenue. |
| One Hundred and Forty-third street, from Seventh to Eighth avenue. |
| One Hundred and Forty-eighth street, from Seventh to Eighth avenue. |
| One Hundred and Sixty-fifth street, from Tenth to Edgecombe avenue. |
| |

APPROPRIATIONS.

| Flagging— West side Grand Boulevard, from Sixty-first to Sixty-third street Southeast corner Lexington avenue and One Hundred and Twenty third street. Seventh avenue, from One Hundred and Twenty-eighth to One Hundred and Forty-fifth street. South side Leroy street, from Greenwich to West street | \$579 07 128 96 6,258 16 932 24 | \$7,898 43 |
|---|--|--|
| Fencing Vacant Lots— Block bounded by First and Second avenues and Eighty-second and Eighty-third streets. East side Madison avenue, from One Hundred and Tenth to One Hundred and Eleventh street Northeast corner Fourth avenue and One Hundred and Twenty- seventh street Northwest corner Seventh avenue and One Hundred and Twenty- | \$253 25 58 71 51 42 | |
| sixth street | 124 81 | |
| of Broadway, etc South side Seventy-seventh street, from Madison to Fourth | 66 56 | |
| avenue, etc | 75 15 | \$629 90 |
| | - | |
| Permits issued for regulating, grading, etc | = | |
| | West side Grand Boulevard, from Sixty-first to Sixty-third street Southeast corner Lexington avenue and One Hundred and Twenty third street Seventh avenue, from One Hundred and Twenty-eighth to One Hundred and Forty-fifth street South side Leroy street, from Greenwich to West street Fencing Vacant Lots— Fencing Vacant Lots— Fast side Madison avenue, from One Hundred and Teighty-second and Eighty-third streets. East side Madison avenue, from One Hundred and Tenth to One Hundred and Eleventh street Northeast corner Fourth avenue and One Hundred and Twenty-seventh street. Northwest corner Seventh avenue and One Hundred and Twenty-sixth street. North side Fifty-seventh street, commencing one hundred feet east of Broadway, etc. South side Seventy-seventh street, from Madison to Fourth avenue, etc. Total. | West side Grand Boulevard, from Sixty-first to Sixty-third street \$579 07 Southeast corner Lexington avenue and One Hundred and Twenty 128 96 Seventh avenue, from One Hundred and Twenty-eighth to One 6,258 16 Hundred and Forty-fifth street 932 24 Fencing Vacant Lots— 8253 25 East side Madison avenue, from One Hundred and Teighty-second and 128 96 Lighty-third streets 932 24 Fencing Vacant Lots— 932 24 Sat side Madison avenue, from One Hundred and Eighty-second and 128 96 Lighty-third streets 932 24 Northeast corner Fourth avenue and One Hundred and Tenth to One 128 97 Hundred and Eleventh street 58 71 Northwest corner Fourth avenue and One Hundred and Twenty- 51 42 Northwest corner Seventh avenue and One Hundred and Twenty- 51 42 North side Fifty-seventh street, commencing one hundred feet east 66 56 South side Seventy-seventh street, from Madison to Fourth avenue, etc 75 15 Total 75 15 |

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| AMOUNT OF | F WORK DON | E DURING | THE YEAR 18 | 86. | | Wor | k Done in fr | ont of City | Property. | | |
|--|------------------------------|---------------------------|-------------------------------|---------------------------------|------------|---|------------------------------|---------------------------|-------------------------------|---------------------------------|---|
| NATURE OF WORK. | January 1 to March 31. | APRIL 1 TO JUNE 30. | JULY 1 TO SEPTEMBER 30. | October 1 TO December 31. | TOTAL. | NATURE OF WORK. | JANUARY 1 TO MARCH 31. | APRIL 1 TO JUNE 30. | July 1 TO September 30. | OCTOBER 1 TO DECEMBER 31. | |
| Earth excavated, cubic yards | 15,502 | 15,935 | 3,783 | 33,163 | 67,388 | Curb-stones set, linear feet | 41/2 | | | 232 | |
| Rock excavated, cubic yards | 50,996 | 35.743 | 20,181 | 34,635 | 141,455 | Curb-stones reset, linear feet | | | | 125 | |
| Filling furnished, cubic yards | | 47,751 | 22,311 | 84,023 | 154,085 | Flagging laid, square feet | 57 | | | · 1,441 | |
| Curb-stones set, linear feet | 4.700 | 4,6191 | 14,948328 | 7,128,2 | 31,395 100 | Flagging relaid, square feet | 8 | | | 600 | |
| Curb-stones reset, linear feet | | | | 34719 | 34718 | Picket fence built, linear feet | 12312 | 74 | | | |
| Flagging laid, square feet | 29,671 | 18,65013 | 48,c95013 | 63,38312 | 159,799611 | Board fence built, linear feet | | | | 7912 | |
| Flagging relaid, square feet | | | | 377 | 577 | | | | | | - |
| Dry stone box culvert built, linear feet | 2,050 | 827 | | | 2,877 | A | MOUNT OF VO | UCHERS DR | AWN. | | |
| Picket fence built, linear feet | | | | 1,613513 | 1,153113 | | | | | | 1 |
| Stone masonry bulit, cubic yards | 1,222 | 1,153 | | | 2,375 | ON ACCOUNT OF- | JANUARY 1 | APRIL 1 | JULY 1 | OCTOBER I | I |
| Cast-iron inlet frames | 10 | | | | 10 | ON ACCOUNT OF- | MARCH 31. | JUNE 30. | TO SEPTEMBER 30 | DECEMBER 31. | |
| М | onument Sto | mes Set and | t Reset. | | | Fund for Local Improvements | \$59,506 33 | \$150,388 50 | \$9,499 20 | \$23,898 06 | - |
| On Tenth avenue, north of One Hun-) | | | 1 | 1 | | Local Improvement Fund | | | 65,325 67 | 61,611 92 | 1 |
| dred and Fifty-fifth street | | | 22 | | | Street Improvement Fund Street Improvements-For Surveying, | | | 1,988 81 | 40,744 90 | |
| On Seventh avenue, north of One Hundred and Twenty-eighth street | | | I | | 23 | Monumenting and Numbering of Streets, 1886 | 259 60 | 286 00 | 694 00 | 388 50 | |
| On One Hundred and Eighty-fifth | | | | 2 | | Street Improvements-For Surveying, Monumenting and Numbering of | | | | 800 00 | 1 |
| On Kingsbridge road and Tenth | | | | 40 | 42 | Streets, 1884 | | | | 000 00 | 1 |
| avenue) | | | 1 | | | Flagging Sidewalks and Fencing Vacant Lots in front of City Property | 112 22 | 7 40 | | 668 97 | |
| | Permits and | t Notices Is | sued. | | | Contingencies-Department of Public Works | 100 00 | 194 50 | 225 00 | 225 00 | |
| Permits for regulating, grading, etc | | 12 | 4 | 3 | 19 | Boring Examinations for Grading and Sewer Contracts | | | | 764 70 | |
| Notices to repair sidewalks | | 1,080 | 446 | 462 | 1,997 | Total | . \$59,984 15 | \$150,876 40 | \$77,732 68 | \$129,102 05 | 1 |

Statement showing Works under Contract in Bureau of Street Improvements on the 31st day of December, 1886.

| LOCATION OF WORK. | CONTRACTOR. | SURVEYOR. | INSPECTOR. | Contract Time. | ESTIMATED COST. | Amount Earned. | Amount Retained. | Amount Paid. | Remarks. |
|--|--|--|--|-------------------|-----------------------|-----------------------|----------------------|-----------------------|---|
| Regulating, Grading, Curbing and Flagging. | | | | | | | | | |
| Fund for Local Improvements— One Hundred and Fourteenth street, Fourth to Eighth avenue | James Slattery | J. McIntyre Smith | Mark Neary | 350 days. | \$23,443 44 | \$8,025 00 | \$2,407 50 | \$5,617 50 | |
| Local Improvement Fund— Fort Washington Ridge road | Allen & O'Maley | J. McIntyre Smith | James R. Mount | 400 " | 130,161 70 | 122,004 00 | 36,628 20 | 85,465 80 | |
| Fourth avenue, Ninety-seventh to One Hundred and Second street | Michael Egan | J. McIntyre Smith | | 30 " | 3,354 50 | | | | Work completed, but no |
| Ninety-fourth street, Boulevard to Riverside Drive | Thomas O'Maley F. Thilemann, Jr | R. L. Waters R. L. Waters | Edward C. Brady | | 33,311 60 9,468 56 | 28,551 00 3,220 00 | 8,565 30 966 oo | 19,985 70 2,254 00 | Work suspended. |
| Edgecombe avenue, One Hundred and Thirty-seventh to One Hundred and Fortieth street. Edgecombe avenue, One Hundred and Forty-first to One Hundred and | William Guilfoyle | J. McIntyre Smith | Sylvester Bennett | 75 " | 11,534 40 | 3,990 00 | 1,197 00 | 2,793 00 | |
| Forty-fifth street. Edgecombe avenue, One Hundred and Forty-fifth street to St. Nicholas | Bernard Mahon | J. McIntyre Smith | John McCue | 275 " | 18,196 60 | | | | |
| place | John F. Dawson | J. McIntyre Smith | Leander Buck | 300 " | 86,826 06 | | | | |
| and Forty-fifth street | Bernard Mahon | R. L. Waters | | 275 " | 17,414 96 | | | | Work not yet commenced. |
| Fifty-fifth street | William J. Kelly | J. McIntyre Smith | J. Brady & C. Myres | 500 " | 55,120 00 | 1,880 00 | 564 00 | 1,316 00 | |
| Twenty-second street. Manhattan avenue, One Hundred and Sixteenth to One Hundred and | John Cox & Co | J. McIntyre Smith | Benjamin V. Fraser | 200 " | 17,128 95 | 1,825 00 | 547 50 | 1,277 50 | |
| Twentieth street Fort George avenue, Tenth to Eleventh avenue | D. W. Moran James H. Sullivan | J. McIntyre Smith | John W. Keogh | | 2,363 10 23,119 40 | 1,553 00 | 465 90 | 1,087 10 | Work not yet commenced. |
| Sixty-fifth street, First avenue to Avenue A Sixty-fifth street, Tenth to Eleventh avenue | Terence A. Smith D. W. Moran | R. L. Waters | Isaac Smith | 35 " | 12,212 91 2,866 26 | | | | Work suspended. |
| Sixty-ninth street, Eighth to Ninth avenue Eighty-first street, Avenue A to Avenue B | Thomas E. Crimmins. Patrick McInerney | J. McIntyre Smith J. McIntyre Smith | | 75 " | 8,994 92 2,736 48 | 3,000 00 | 900 00 | 2,100 00 | Work suspended. |
| Eighty-second street, Boulevard to Riverside Drive | F. C. Hopkins | J. McIntyre Smith | | 80 " | 8,034 36 | 5,280 00 | 1,584 00 | 3,696 00 | Work suspended. |
| Eighty-ninth street, Boulevard to Riverside Drive Ninetieth street, Boulevard to Riverside Drive | F. C. Hopkins Thomas O'Maley | | | 100 " | 10,379 20 8,096 44 | 3,320 00 | 996 00 | 2,324 00 | Work not yet commenced. |
| Ninety-first street, Tenth avenue to Riverside Drive Ninety-ninth street, Eleventh avenue to Riverside Drive | J. W. Phelan V. Del Genovese | J. McIntyre Smith Herman K. Viele. | David Simmons | 200 " 100 " | 14,363 75 8,964 90 | 6,319 00 8,967 00 | 1,895 70 2,690 10 | 4,423 30 6,276 90 | Work completed, but not |
| One Hundred and First street, Eighth to Manhattan avenue | Thomas E. Crimmins. | | John Lawrence | 175 " | 2,186 80 | | 2,090 10 | | } yet accepted. |
| One Hundred and Second street, Ninth avenue to Riverside Drive | James H. Sullivan | J. McIntyre Smith | Nathan Frank | 365 " | 28,127 55 | 1,500 00 | 450 00 | 1,050 00 | West summer ded |
| One Hundred and Seventh street, Boulevard to Tenth avenue One Hundred and Seventh street, Eighth to Ninth avenue | John Slattery Thomas E. Crimmins. | J. McIntyre Smith R. J. Dodge | ••••• | 30 | 2,843 51 | | | | Work suspended. Work not yet commenced. |
| One Hundred and Eighth street, Eighth to Manhattan avenue | John Cox & Co | M. A. Lacy | B. F. Crane | 300 " | 6,155 60 | | | | |
| One Hundred and Eighth street, Tenth avenue to Boulevard One Hundred and Twelfth street, Eighth to New avenue | James H. Sullivan Thomas E. Crimmins. | | Alexander Kyle Henry Marshall | | 1,080 90 5,130 22 | | | | |
| One Hundred and Thirteenth street, Eighth to New avenue | Thomas E. Crimmins. | R. L. Waters | fielity Marshall | 200 " | 4,790 45 | | | | Work not yet commenced. |
| One Hundred and Fourteenth street, Tenth avenue to Riverside Drive. | George E. Clark | J. McIntyre Smith | | | 16,202 60 | 6,920 00 | 2,077 00 | 4,844 00 | |
| One Hundred and Thirty-seventh street, Tenth to Convent avenue One Hundred and Thirty-seventh street, Eighth to St. Nicholas avenue | John Slattery | J. McIntyre Smith R. L. Waters | | 150 " | 2,991 81 2,261 51 | | | | Work not yet commenced. Work suspended commenced |
| One Hundred and Thirty-seventh street, Seventh to Eighth avenue | John J. Farley | J. McIntyre Smith | | 35 " 65 " | 4,888 18 | | | | Work not yet commenced. |
| One Hundred and Forty-third street, Seventh to Eighth avenue | John J. Farley | J. McIntyre Smith | | 60 " | 5,509 81 | | | | {Work suspended on ac- count of sewer. |
| One Hundred and Forty-eighth street, Seventh to Eighth avenue | William Kelly | | | 125 " | 9,874 68 | | | | Work suspended on ac- |
| One Hundred and Forty-ninth street, Seventh to Eighth avenue One Hundred and Sixty-fifth street, Tenth to Edgecombe avenue | Michael Fay James H. Sullivan | J. McIntyre Smith J. McIntyre Smith | Theophilus Pratt Edward T. Bennett. | 200 " 90 " | 8,732 64 3,851 80 | 3,645 00 | 1,093 50 | 2,551 50 | |
| Special Contracts (under \$1,000) Fencing Vacant Lots. | | | | | | | | | |
| Southwest corner Seventh avenue and One Hundred and Twenty-) | Bernard A. Roth | F. E. Towle | | | 90 41 | | | | Work completed, but not |
| second street | Bernard A. Roth | M. A. Lacy | | | 79 19 | | | | } yet accepted. |
| South side Ninety-sixth street, Second to Third avenue Block bounded by One Hundred and Ninth and One Hundred and } Tenth streets to Madison and Fifth avenues | Bernard A. Roth Bernard A. Roth | J. R. Wardlaw M. A. Lacy | ••••• | | 229 84 390 83 | | | | {Work completed, but not yet accepted. |
| Tenni su etta to madison and Filth articlostriction of the second | | | | | | | | | |
| | | | | Total | \$624,263 82 | \$210,089 00 | \$63,026 70 | \$147,062 30 | |

395

TOTAL.

TOTAL.

\$243,292 09

126,937 59 42,733 71

> 1,628 10 800 00

> > 788 59

750 50

764 70

\$417,695 28

WORKS COMPLETED DURING THE YEAR 1886.

1,564 73

1,342 84

28,216 94

14,513 27

\$323,906 60

Regulating, grading, etc.— Morringside avenue, from One Hundred and Tenth street to Tenth avenue. Kingsbridge road, from One Hundred and Fifty-fifth to One Hun-dred and Ninetieth street. West End avenue, from Seventy-second street to Boulevard. Eleventh avenue, from Kingsbridge road to Dyckman street William street, from Duane to North William street. Washington street, from Twelfth to Fourteenth street Ninety-third street, from West End avenue to Riverside Drive... One Hundred and Eighteenth street, from Fourth to Eighth avenue One Hundred and Thirtieth street, from Old Broadway to Boule-vard...... 106,093 40 107,315 23 126,607 28 3,865 19 3,861 09 40,956 23 31,896 70

vard One Hundred and Thirty-third street, from Eighth to St. Nicholas

one Hundred and Fifty-third street, from sixty feet east of Seventh to New avenue.... One Hundred and Fifty-fifth street, from Eighth avenue to McComb's Dam lane

Regulating, grading, etc.— One Hundred and Fifty-fifth street, from Eighth to New avenue... One Hundred and Eighty-fifth street, from Tenth avenue to Kings-bridge road..... \$8,385 39 26,819 66 \$825,344 55 Flagging— West side Grand Boulevard, from Sixty-first to Sixty-third street... Southeast corner Lexington avenue and One Hundred and Twenty-third street Seventh avenue, from One Hundred and Twenty-eighth to One Hundred and Forty-fifth street South side Leroy street, from Greenwich to West street..... South side Fifty-ninth street, commencing at Fourth avenue and running east South side Sixty-second street, from First to Second avenue North side Seventy-ninth street, from First to Second avenue North side Eighty-third street, from First to Second avenue South side One Hundred and Twenty-first street, from Lexington to Fourth avenue..... \$579 07 128 96 6,258 16 932 24 110 02 288 44 842 89 292 09

to Fourth avenue.....

9,550 53

118 66

RD.

FEBRUARY 11, 1887.

| 396 | | THE | CITY | RECOR |
|--|--|-----------------|---------------|---|
| Fencing vacant lots | | | | Morningside avenue |
| Eighty-thi | by First and Second avenue and Eighty-second and rd streets | \$253 25 | | Block pavemen Flagging relaid |
| East side Madie Hundred s | son avenue, from One Hundred and Tenth to One and Eleventh street | 58 71 | | One Hundred and |
| Northeast corn | er Fourth avenue and One Hundred and Twenty- | | | Block pavemen The following |
| Northwest corn | reet er Seventh avenue and One Hundred and Twenty- | 51 42 | | 190 truck-los |
| North side Fift | y-seventh street, commencing one hundred feet east | 124 81 | | 131 truck-los 180 truck-los |
| of Broadw | enty-seventh street, from Madison to Fourth avenue, | 66 56 | | 130 truck-los 163 truck-los |
| etc | | 75 15 | \$629 90 | 107 truck-los 97 truck-los |
| Total | | - | \$835,524 98 | 22 truck-los 3 truck-los |
| rotur | RECAPITULATION. | = | | 2 truck-los The following |
| 14 contracts for reg | ulating, grading, etc | \$825,344 55 | | 2,714 truck-los 570 truck-los |
| 6 contracts for fend | ging cing vacant lots | 629 90 | | 27 truck-los 15 truck-los |
| 29 contracts. | Total | | \$835,524 98 | 6 truck-los 188 truck-los |
| | | _ | | |
| | Document "H." | | | Sixth, Seventh and Roadways scra |
| | | DIFE | | New bridge sto avenues. |
| | DEPARTMENT OF PUBLIC WO BUREAU OF STREETS AND ROADS, NO. 31 C New York, Ja | HAMBERS ST | REET, | Weeds cut from The following |
| EN. JOHN NEWTO | New York, Ja | inuary 7, 1007 | . , | Sewer connecti |
| SIR-In compl | iance with your instructions. I have the honor to subr | nit the follow | ing report of | avenue ; two openin Sewer connection |
| he charge of this I | erial used; also the amounts expended from the van Bureau for the quarter ending December 31, 1886. | lso statement | showing the | avenue. Sewer connecti |
| work done on boul December 31, 1886 | evards, roads and avenues and unpaved streets and | roads for the | year ending | Sewer connection |
| | Respectfully, GEO. E. BABCOCK, Sup | erintendent of | Streets | Sewer connection avenue. |
| | | | | Sewer connecti Sewer connecti |
| The following December 31, 1886 | macadamized streets and avenues have been repaired : | during the qu | arter ending | Sewer connecti |
| Western Boulevard. | between the Circle at Fifty-ninth and One Hundred : | and Fifty-fifth | streets- | street ; Beyon sewe Sewer connecti |
| Gutters cleaned | gutters cleaned, between Fifty-ninth and Eighty-sixth , between One Hundred and Ninth and One Hundred | and Fifty-hit | h streets. | Sewer connecti Sewer connecti |
| Sand spread, be Hundred a | etween One Hundred and Thirty-seventh, One Hun and Fiftieth and One Hundred and Fifty-fifth streets. | dred and For | ty-fifth, One | Water-tap repa street. |
| Limestone scre | enings spread, between One Hundred and Eighteen ird streets, east side. | ath and One I | Hundred and | Water-tap repa Water-tap repa |
| | , between One Hundred and Twenty-fifth and One | Hundred ar | d Fifty-fifth | Water-tap repa Water-tap, nor |
| streets | , between One Hundred and Twenty-fifth and One | | | Water-tap, sou |
| streets. | | | | Water-tap, No. Water-tap, No. |
| Roadway and | et, between Ninth avenue and Riverside Drive- gutters cleaned, between Ninth avenue and Riverside 1 | Drive. | | Water-tap, No. Water-tap, wes |
| Macadam pave | ment repaired, intersection of Ninth and Tenth avenue | 25. | A Figur Col | The following |
| streets. | between One Hundred and Forty-ninth and One | fundred an | a Fifty-fith | 31 truck-loa 2 truck-loa |
| Gutters cleaned | | | | 3 truck-loa 60 truck-loa |
| Roadway and | et, between Avenue A and Fifth avenue— gutters cleaned entire length. | | | 2 truck-loa |
| Macadam repai | red. | d | | The following Western Boule |
| Gutters cleaned | Forty-fifth street, between Eighth avenue and Boulevar l entire length. | | | Hundred and Forty One Hundred |
| Fifth avenue, betwe Gutters cleaned | en One Hundred and Tenth and One Hundred and T | wentieth stree | ts— | One Hundred Boulevard. |
| Macadam repai | red. | | | One Hundred a St. Nicholas av |
| First avenue, betwee Roadway and | en One Hundred and Ninth and One Hundred and Siz gutters cleaned entire length. | xteenth streets | 5— | streets. |
| Macadam repai | ired. | | | Sixth avenue, h Seventh avenu |
| | Fifty-seventh and Eighty-sixth streets— gutters cleaned entire length. | | | One Hundred avenues. |
| Macadam repai | red. | | | One Hundred : Fifth avenue, b |
| | Fenth street, between First and Fifth avenues— gutters cleaned entire length. | | | One Hundred and One Hundred : |
| Macadam repai | ired. | Tion Court | | Mt. Morris aver |
| Gutters cleaned | tween One Hundred and Tenth and One Hundred and I between One Hundred and Tenth and One Hundred | and Thirty-ei | ghth streets. | Streets. One Hundred a |
| | from roadway between One Hundred and Twenty | -eighth and C | ne Hundred | Pleasant avenue streets. |
| Macadam repai | red. | | | One Hundred a Avenue A, bety |
| | en One Hundred and Tenth and One Hundred and F. d between One Hundred and Tenth and One Hundre | | | Seventy-second There has been |
| Macadam repai | red. | | | 5,926,367 gallons of |
| One Hundred and T Gutters cleaned | Fenth street, between Fifth and Eighth avenues- | | | The following i sharpened and repair |
| One Hundred and S | Sixteenth street, between Pleasant and Seventh avenue | s— | | Monitor No. 1 Monitor No. 3 |
| Gutters cleaned | gutters cleaned between Third and Pleasant avenues. between Seventh and Lexington avenues. | | | Monitor No. 4 |
| | red between Lexington and Pleasant avenues. | | | Monitor No. 5 Monitor No. 9 |

Pleasant avenue, between One Hundred and Nineteenth and One Hundred and Twenty-fourth streets Roadway and gutters cleaned entire length.

ne, between One Hundred and Tenth and Manhattan streets — ent repaired at One Hundred and Fourteenth street. id at One Hundred and Fourteenth street. Thirty-eighth street, Boulevard to Twelfth avenue-ent, special; covered with sand. amount of material was used in repairing the above streets :

oads Roa Hook gravel. oads gravel bank screenings. oads sand.

oads trap-rock. oads limestone screenings.

oads traprock. oads broken stone of gneiss rock.

oads dirt. oads paving blocks (300). oads Telford stone.

amount of material was removed from the macadamized roadways :

bads dirt.

oads dirt from basins.

bads building stone.

oads sand.

oads Telford stone. oads clay.

MISCELLANEOUS WORK.

1 St. Nicholas avenues-

tones laid, south side One Hundred and Thirtieth street, at Sixth and Seventh

m sidewalks of Sixth and Seventh avenues.

g sewer and water connections have been repaired during the quarter : tions, south side One Hundred and Twenty-third street, 113 feet west of Seventh

ings

tions, south side One Hundred and Twenty-fourth street, 100 feet east of First

tions, south side One Hundred and Tenth street, 145 feet east of Third avenue. tions, south side One Hundred and Twenty-third street, 80 feet west of Seventh

ions, south side One Hundred and Twenty-third street, 425 feet east of Eighth

tions, southeast corner Avenue A and One Hundred and Twenty-first street. tions, Avenue A, northwest corner One Hundred and Nineteenth street. tions, southwest corner Lexington avenue and One Hundred and Twenty-fourth

pairs, west side Avenue A, 35 feet south of Seventy-second street. pairs, One Hundred and Twenty-fourth street, 140 feet east of Second avenue. pairs, No. 58 East One Hundred and Tenth street.

ortheast corner Tenth avenue and One Hundred and Fifty-fourth street. uthwest corner Sixth avenue and One Hundred and Twenty-third street.

o. 227 West One Hundred and Twenty-third street.

o. 2063 Fifth avenue. o. 425 Pleasant avenue. est side Tenth avenue, 200 feet north of One Hundred and Sixty-second street.

amount of material was used in paving the above openings -

ads broken stone.

bads sand. bads dirt removed.

oads Tilford stone. bads gravel.

streets have been sprinkled— evard, between Fifty-ninth and Eighty-sixth streets, and Manhattan and One

y-fifth streets. and Twenty-second street, between Boulevard and Riverside Drive. d and Fifty-second street, between St. Nicholas Avenue and summit west of

and Forty-fifth street, between Eighth and Tenth avenues. avenue, between One Hundred and Tenth and One Hundred and Fifty-fifth

between One Hundred and Tenth and One Hundred and Thirty-seventh streets. ue, between One Hundred and Tenth and One Hundred and Fifty-fourth streets. d and Twenty-fourth street, between Sixth and Seventh and Fifth and Pleasant

I and Twenty-third street, between Eighth and Mt. Morris avenues. between One Hundred and Tenth and One Hundred and Twentieth streets and Twenty-fourth and One Hundred and Thirtieth streets. I and Twentieth street, between Fifth and Mt. Morris avenues.

enue, between One Hundred and Twentieth and One Hundred and Twenty-fourth

and Sixteenth street, between Seventh and Pleasant avenues. ue, between One Hundred and Nineteenth and One Hundred and Twentieth

and Tenth street, between Sixth and First avenues. tween Fifty-seventh and Eighty-sixth streets. In street, between Fifth avenue and Avenue A. en used in sprinkling the above streets and avenues, 9,751 barrels, equivalent to of water.

g is an account of repairs made to monitors, sprinklers, hand-carts; also tools aired, with the amount of material used: I.—Painted, new seat spring, 4 new bolts. 3.—Painted inside and outside.

-Painted inside and outside, new pole made and painted.

Monitor No. 4. — Painted inside and outside, new pole inade and painted.
 Monitor No. 5. — Generally overhauled.
 Monitor No. 9. — Repaired sprinkler frame.
 Monitor No. 13. — Renewed hose connecting barrel with sprinkler, generally overhauled.
 Monitor No. 13. — Repaired sprinkler frame.
 Painted inside and outside.
 Monitor No. 14. — Painted inside and outside, lashed sprinkler to frame, new crossbars, new

crossbars, new

itions, north side Seventy-second street, 77 feet east of First avenue. tions, north side Seventy-second street, 238 feet east of First avenue. tions, No. 205 East Seventy-second street. pairs, east side Tenth avenue, 50 feet north of One Hundred and Fifty-seventh

| Mt. Morn's avenue, between One Fluidred and Twentern and One Fluidred and Twenty-fourth streets— Roadway and gutters cleaned entire length. Gravel-bank screenings spread entire length. Macadam repaired. | plates, 15 new bolts, new toot board, new wrench box, new side box. Monitor No. 17.—Generally overhauled, wood and iron work, painted inside and outside. Sprinkler No. 19.—Painted inside and outside. Sprinkler No. 18.—New leather on valves. |
|--|---|
| One Hundred and Twentieth street, between Fifth and Mt. Morris avenues— | Sprinkler No. 21.—Tires reset, new bolts, new kingbolt, painted inside and outside. |
| Roadway and gutters cleaned entire length. | Sprinkler No. 22.—2 new tires made and set, boxed 4 wheels, 4 new rims on wheels, 3 new spokes, repaired body, 2 new crossbars. |
| One Hundred and Twenty-fourth street, between Pleasant and Fifth and Sixth and Seventh avenues— Roadway and gutters cleaned entire length. Macadam repaired between Pleasant and Second avenues. | Sprinkler No. 23.—Painted inside and outside, new back, new sprinkler frame, 8 new bolts. Sprinkler No. 24.—8 new bolts, painted inside and outside and caulked. Sprinkler No. 25.—New reach, 2 new back futchels, 39 new bolts, new sprinkler frame, painted inside and outside. Sprinkler No. 26.—Repaired sprinkler frame, lashed sprinkler to frame. |
| One Hundred and Twenty-third street, between Mt. Morris and Eighth avenues- | Sprinkler No. 27.—New sprinkler frame, 2 new bolts, repaired springs, repaired carriage part. |
| Gutters cleaned entire length. | Sprinkler No. 29.—Painted inside and outside, 2 new pump handles, ½ new top, ½ new |
| Macadam repaired. | sprinkler-frame, new reach, 2 new futchels, 1 new axle-bed, 1 new bolster, 2 new bars. |
| Fifth avenue, between One Hundred and Twenty-fourth and One Hundred and Thirtieth streets— Roadway and gutters cleaned entire length. Gravel bank screenings spread between One Hundred and Twenty-ninth and One Hundred and Thirtieth streets. | Sprinkler No. 33—Painted inside and outside, 2 fifth-wheel blocks, 2 new bolts, new sprinkling frame, whole new carriage part, new foot board. Hand carts—I new bottom, I new bar, 2 new tires, 4 new wheels, I new handle, repaired tail board, boxed 4 wheels, painted same, cut and fitted new axle, new plate on bottom, new strap bolt on side, new shaft. |
| St. Nicholas avenue, between One Hundred and Tenth and One Hundred and Twenty-fifth streets- | The following material was used in making the repairs: |
| Roadway and gutters cleaned entire length. | Iron, 935 lbs.; steel, 262 lbs.; joice, 100 feet; old boards, 815 feet; nails, 48 lbs.; oak, 305 |
| Roadway repaired with gravel. | feet; white wood, 30 feet; spokes, 87; rims, 25 pieces; hubs, 6; pine, 120 feet; Japan, 34 |
| One Hundred and Forty-fifth street, between Sixth and Eighth avenues— | gallons; varnish, 1½ gallons; sand-paper, oo sheets; turpentine, 6 gallons; raw oil, 10 gallons; |
| Roadway and gutters cleaned entire length. | boiled oil, 2 gallons; putty, 25 lbs.; black paint, 13 lbs.; red lead, 69 lbs.; white lead, 180 lhs.; |
| Flagging relaid. | bolts used, 284; rope, 60 feet; new couplings, 2; screws, 2½ gross; hose, 18 feet. |
| | |

THE CITY RECORD.

Miscellaneous Shop Work.

Miscellaneous Shop Work. Picks sharpened, 1304; bars sharpened, 4; hooks made, 8; picks steeled and laid, 43; hydrant wrenches made, 2; crooks and hose repaired, 8; frost wedges made, 2; made and placed new racks in iron house; repaired wagon used by Superintendent; 4 new rims; 2 new spring-bars, painted same complete; fitted new body; new crossbars reset, tires made and ironed; 2 sets of sway bars; and whiftle trees made; 2 new wheels for sprinkler; repaired wheel jack; painted 2 sets of whiftle trees; painted lumber-shed; made and fitted 1 dozen stone breaking hammer handles; made and fitted 2 new handles to paving rammers; branded 72 picks and shovel handles; sharpened grubs; repaired gully trap frame; made 1 coal-box; made 1 wheel box for blacksmith; made 2 new road scrapers; 18 bolts used; repaired 5 basin buckets, new bottoms; made 2 new clevises for pully blocks; made a fitted 2 new handles to old snowplow; fitted new wheels to shop door; made neck yoke for road scraper; repaired snowplow; made 2 bleeding-poles for basins; made 1 wheel stand for painter; built store-room for tools; repaired basin brackets for Bureau of Sewers; 10 new hooks; repaired windlass for Bureau of Sewers; repaired chairs for Bureau of Sewers; sharpened sounding bars.

The following unpaved streets were repaired with sweepings, from the macadam streets, etc : The following unpaved streets were repaired with sweepings, from the macadam streets, e One Hundred and Fifty-fifth street, between St. Nicholas avenue and St. Nicholas place. One Hundred and Fifty-first street, west of the Boulevard. One Hundred and Thirty-first street, west of the Boulevard. One Hundred and Twenty-eighth street, west of Eighth avenue. Eleventh avenue, between Sixty-fifth and Sixty-seventh streets. One Hundred and Thirty-fifth street, between Eighth and St. Nicholas avenues. One Hundred and Forty-first street, between Eighth and Convent avenues. One Hundred and Fifty-first street, between Eighth and Convent avenues. One Hundred and Fifty-first street, between Tenth and Eleventh avenues. One Hundred and Fifty-first street, east of Tenth avenue. One Hundred and Fifty-fourth street, between Boulevard and Tenth avenue. Seventy-third street and Boulevard. Seventy-fifth steet, between Ninth and Tenth avenues. Seventy-third street and Boulevard. Seventy-fifth steet, between Ninth and Tenth avenues. New avenue, between One Hundredth and One Hundred and Tenth streets. Sixty-sixth street, between Boulevard and Tenth avenue. One Hundredth street, between Boulevard and Eleventh avenue. Sixty-eighth street, between Tenth and Eleventh avenue. Tenth avenue, between Seventieth and Seventy-first streets. Seventy-eighth street, between Boulevard and Eleventh avenue. Eighty-fourth street, between Boulevard and Eleventh avenue. Eightieth street, between Tenth avenue and Riverside drive. Eighty-fourth street, between Boulevard and Tenth avenue. One Hundred and Twenty-sixth street, between St. Nicholas and Ninth avenues. One Hundred and Twentieth street, between Boulevard and Tenth avenue. One Hundred and Fifteenth street, between Boulevard. Ninety-sixth street, between Boulevard and Tenth avenue. Ninety-fourth street, between Boulevard and Tenth avenue. One Hundred and Twenty-second street, between Eighth and St. Nicholas avenues. One Hundred and Fourteenth street, between Eighth and St. Nicholas avenues. One Hundred and Fourteenth street, between Eighth and St. Nicholas avenues. Ninetieth street, between Boulevard and Tenth avenue. Avenue B, between Seventy-eighth and Eighty-sixth streets. One Hundred and Thirty-fifth street, between St. Nicholas and Eighth avenues, cleaned. There was used in the abaye work for repairs L450 truck-loads of sweepings and fifty There was used in the above work for repairs 1,450 truck-loads of sweepings and fifty loads dirt removed. The following are the macadamized streets and avenues that have been cleaned or repaired during the quarter, with the cost of each also on account of other work done : Western Boulevard, between the Circle at Fifty-ninth and One Hundred and Fifty-fifth streets-

 Notating and generation of the second sec 66

| Block-pavement relaid Lime-stone screenings spread Basins cleaned, 128. | | " |
|---|------------|----------|
| Avenue St. Nicholas, between One Hundred and Twenty-fifth and One Hun- dred and Fifty-fifth streets- | | |
| Gutters cleaned | 65,200 sq | uare fe |
| Roadway repaired with gravel | 54,078 | ** |
| Sidewalk cleaned of earth | 2,316 | ** |
| Open drains cleaned | | neal fee |
| Sidewalk drain dug Basins cleaned, 41. | 437 | |
| Seventy-second street, between Ninth avenue and Riverside Drive- | | |
| Roadway and gutters cleaned | 124,620 sq | uare fee |
| Repairs to macadam pavement | 9,970 | 66 |
| Block pavement repaired | 79 | 66 |
| St. Nicholas place, One Hundred and Forty-ninth to One Hundred and Fifty- | | |
| fifth street— | | ** |
| Gutters cleaned | 17,754 | |
| One Hundred and Forty-fifth street, Eighth avenue to Boulevard- | | |
| Gutters cleaned Basins cleaned, 5. | 13,544 | ** |
| Morningside avenue, east, between One Hundred and Tenth and Manhattan | | |
| streets- | | ** |
| Block pavement repaired | 45 | |
| Sidewalks repaired Basins cleaned, 21. | 216 | |
| Seventy-second street, Avenue A to Fifth avenue- | | |
| Roadway and gutters cleaned | 153,160 | ** |
| Repairs to macadam pavement Basins cleaned, 8. | 5,350 | ** |
| Fifth avenue, between One Hundred and Tenth and One Hundred and Twentieth streets- | | |
| Gutters cleaned | 21,266 | ** |
| Repairs to macadam pavement Basins cleaned, 11. | 1,856 | |
| One Hundred and Fifty-fifth street, between St. Nicholas avenue and Boulevan Basins cleaned (2). | rd— | |
| First avenue, between One Hundred and Ninth and One Hundred and Six- | | |
| teenth streets— Roadway and gutters cleaned | 92,412 | 46 |
| Repairs to macadam pavement Basins cleaned (16). | 1,040 | " |
| Dasins cleaned (10). | | |

| One Hundred and Sixteenth street, between Pleasant and Seventh avenues— Roadway and gutters cleaned | 96,000 26,248 21,054 | |
|---|----------------------------|--------------|
| Pleasant avenue, between One Hundred and Nineteenth and One Hundred | | |
| and Twenty-fourth streets— Roadway and gutters cleaned Basins cleaned (9). | | |
| Mt. Morris avenue, between One Hundred and Twentieth and One Hundred and Twenty-fourth streets | - | |
| Roadway and gutters cleanedGravel bank screenings spread | 62,900 54,514 | |
| Repairs to macadam pavement Basins cleaned (1). | . 60 | |
| One Hundred and Twentieth street, between Fifth and Mt. Morris avenues— Roadway and gutters cleaned | 12,900 | ** |
| One Hundred and Twenty-fourth street, Pleasant to Fifth and Sixth to Seventh avenues - | | |
| Roadway and gutters cleaned Repairs to macadam pavement Basins cleaned (5). | 141,870 14,690½ | 45 45 |
| One Hundred and Twenty-third street, between Mt. Morris and Eighth | | |
| avenues— Roadway and gutters cleaned Repairs to macadam pavement | 65, 100 1,750 | |
| Basins cleaned (o). | | |
| Fifth avenue, between One Hundred and Twenty-fourth and One Hundred and Thirtieth streets — Roadway and gutters cleaned | 62,640 | |
| Gravel bank screenings spread Basins cleaned (9). St. Nicholas avenue, between One Hundred and Tenth and One Hundred and | 11,344 | |
| Fifty-fifth street— | | |
| Roadway and gutters cleaned Roadway repaired with gravel | 179,014 36,647 | ** |
| Flagging relaid Basins cleaned (5). | 240 | ** |
| One Hundred and Forty-fifth street, between Sixth and Eighth avenues— Roadway and gutters cleaned | 99,000 | " |
| Flagging relaid | 45 | " |
| One Hundred and Tenth street, between First and Fifth avenues- | | " |
| Roadway and gutters cleaned Macadam pavement repaired Basins cleaned (3). | | " |
| One Hundred and Thirty-eighth street, Boulevard to Eleven avenue— Block pavement | 10,400 | ** |
| RECAPITULATION. | | |
| | ,286,881 | ** |
| Gutters cleaned | 358,326 242,058 | ** |
| Macadam pavement repaired 12 | 3,774.50 | " |
| Lime-stone screenings spread Roadway repaired with gravel | 42,900 9,072 | |
| Gravel-bank screenings spread | 254,295 | ** |
| Clay removed from roadway | 62,360 | ** |
| New bridge-stone laid | 1,268 | ** |
| Block pavement repaired | 250 | ** |
| Sidewalks drain dug | | lineal feet. |
| Open drains cleaned Sidewalks cleaned of earth | 486 | square feet. |
| Sand spread on block pavement | 10,400 | |
| Basins cleaned | 335 | |
| The following unpaved roads, streets and avenues, have been cleaned or quarter : Gutters Cleaned and Roadway regulated— | repaired | during the |
| Ninety-fourth street, between Second and Third avenues. Eighty-seventh street, between Madison and Fifth avenues. Ninety-third street, between Fourth and Fifth avenues. | | |
| Ninety-fifth street, between Madison and Fifth avenues. Ninety-first street, between Fourth and Fifth avenues. | | |
| One Hundred and First street, between Madison and Fifth avenues. | | |
| One Hundred and Second street, between Madison and Fifth avenues. One Hundred and Third street, between Madison and Fifth avenues. | | |
| One Hundred and Seventh street, between Madison and Fifth avenues. | | |
| One Hundred and Ninth street, between Madison and Fifth avenues. Eighty-sixth street, between Western Boulevard and Eighth avenue. | | |
| One Hundred and Eighth street, between Madison and Fourth avenues. | | |
| Seventy-fifth street, between Western Boulevard and Eighth avenues. One Hundred and Twenty-sixth street, between St. Nicholas and Ninth ave Seventy-sixth street, between Eighth and Ninth avenues. | nue. | |
| One Hundred and Eighteenth street, between Fourth and Madison avenues. One Hundred and Thirty-second street, between Fourth and Fifth avenues. | | |
| Seventy-fourth street, between Ninth and Tenth avenues. One Hundred and Thirty-sixth street, between Madison and Eighth avenue | | |
| One Hundred and Thirty second street and Madison avenue. | | |
| Seventy-seventh street, between Eighth and Tenth avenues. One Hundred and Thirty-fifth street, between Madison and Eighth avenues | 5. | |
| One Hundred and Thirty-fourth street, between Seventh and Eighth avenu Madison avenue, between One Hundred and Thirty-fourth and One Hu seventh street. | les. | nd Thirty- |
| Kingsbridge road, at Two Hundred and Ninth, Two Hundred and Thirte and Eighty-sixth and Two Hundredth streets. | enth, Or | ne Hundred |

397

| Roadway and gutters cleaned | 448,204 |
|-----------------------------|---------|
| Repairs to macadam pavement | 280 |
| Basins cleaned (38). | |

Seventh avenue, between One Hundred and Tenth and One Hundred and Fifty-fourth streets

Avenue A, between Fifty-seventh and Eighty-sixth street-

| Gutters cleaned | 59,240 |
|---|---------|
| Gravel bank screenings spread | 100,747 |
| Sand and clay removed from roadway | 62,360 |
| Flagging relaid | 144 |
| New bridge stone laid | 624 |
| Repairs to macadam pavement | 800 |
| Block pavement repaired | 8 |
| Basins cleaned (9). | |
| the anonue between One Hundred and Tenth and One Hundred and Forty- | |

Sixth avenue, betwee sixth streets

| Gutters cleaned | |
|--|--------|
| Gravel bank screenings spread | 87,690 |
| Flagging relaid | 360 |
| New bridge-stone laid | 624 |
| Repairs to macadam pavement | 800 |
| Basins cleaned (20). | |
| Hundred and Tenth street between Fifth and Fighth avenues- | |

On Roadway and gutters cleaned

streets. Repaired Roadway

..

66

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..

.. ..

..

46

66

69,390

eet.

et.

eet.

Ninety-sixth street and Lexington avenue.

Roadway and gutters cleaned-

Kingsbridge road, between Two Hundred and Ninth and Two Hundred and Twenty-second streets.

Lexing to Lexing the second stretch stretch and the stretch stretch stretch and the stretch and Stretch stretc

Scraped with hose scraper and rolled with horse roller, Madison avenue, between One Hundred and Sixteenth and One Hundred and Twenty-second streets. Gutters cleaned and roadway regulated.

Macadamized the hills at One Hundred and Ninetieth street with gueiss-stone and lime-stone screenings. Area, 6,000 square feet.

Covered the broken stone on Kingsbridge road, between One Hundred and Seventy-fifth and One Hundred and Seventy-Eighth streets with dirt. Area, 15,215 square feet. Laid two courses of gutter stone on north side of Eighty-sixth street across Tenth avenue, and two courses on west side of Tenth avenue across Eighty-sixth street, 330 lineal feet.

The following amount of material was used on the above work : 2,434 team-loads of dirt. 149 team-loads of broken stone. 18 team-loads of lime-stone chips. 20 team-loads of Telford stone. 442 team-loads of dirt furnished by contractor.

NOTE .- On Madison avenue, free of cost, not included in the above account

CITY RECORD. THE

FEBRUARY 11, 1887.

Kingsbridge road, between One Hundred and Fifty-fifth street and Kingsbridge, has been sprinkled

Snow has been plowed from sidewalks and gutters on the following streets : Sidewalks

Kingsbridge road, between One Hundred and Seventy-fifth and Two Hundred and Sixteenth streets Sidewalks and Gutter-

Sidewalks and Gutter— Eighth avenue, between One Hundred and Thirty-fifth and One Hundred and Fifty-fifth streets. One Hundred and Thirty-fifth street, between Avenue St. Nicholas and Madison avenue. One Hundred and Thirty-fourth street, between Avenue St. Nicholas and Madison avenue. One Hundred and Thirty-third street, between Avenue St. Nicholas and Madison avenue. Snow has been plowed from the gutters on all macadamized streets, roads and avenues from the sidewalks in front of vacant property. This work is done after each snow-storm.

The following is a summary of the work done for the year, with an account of material used and removed, also the area repaired or covered. The macadam streets, requiring special mention,

are the following : Boulevard, between Fifty-ninth and Seventy-ninth streets, been re-surfaced with Roahook gravel. Seventy-second street, at the intersection of Ninth avenue, old pavement picked up, re-surfaced

with gneiss rock and lime-stone screenings. One Hundred and Twenty-second street, between Boulevard and Riverside Drive, macadam and Telford removed from the gutters, and the same repaired with block pavement; the roadway was covered with gravel bank screenings, between Tenth avenue and Riverside Drive. Pleasant avenue, One Hundred and Fifty-fifth and One Hundred and Fifty-second streets. Mount Morris avenue, Fifth avenue, between One Hundred and Twenty-ninth and One Hun-dred and Thirtieth streets.

dred and Thirtieth streets

dred and Thirtieth streets. One Hundred and Forty-fifth street, between Tenth avenue and Boulevard. Sixth avenue, between One Hundred and Tenth and One Hundred and Forty-fifth streets. Seventh avenue, between One Hundred and Tenth and One Hundred and Twenty-eighth streets, has all been covered with gravel bank screenings. This is the first year that this material has been used on the roads, and has proven to be very satisfactory, keeping the stone well in bond, and in dry weather making a most excellent wheelway. Seventh avenue, between One Hundred and Twenty-eighth and Thirty-fifth streets, was covered with three inches of sand and clay, against which I protested, and has been an utter failure for road covering material, and is now being removed as rapidly as possible. One Hundred and Twenty-fourth street, between Lexington and First avenues. One Hundred and Tenth street, between Lexington and First avenues. One Hundred and Tenth street, between Lexington and First avenues, been entirely resurfaced with new broken stone screening and gravel. These roads are now in as good condition as when originally built. A more detailed statement of the work performed during the year, with the amount of material used and removed, is herewith submitted :

amount of material used and removed, is herewith submitted : Western Boulevard, between One Hundred and Eighteenth and One Hundred and Twenty-third

street (west side), was entirely re-surfaced with trap-rock stone, much of which came from One Hundred and Twenty-second street, and lime-stone screenings.

The following is a summary of work done on macadamized roads, streets and avenues during the year, and paid for from the appropriation for "Boulevards, Roads and Avenues—Maintenance of":

| ,, | Area. | |
|---|-----------|--------------|
| Roadway and gutters cleaned | | |
| Gutters cleaned | 2,017,336 | |
| Roadway repaired with trap rock | 632,119 | |
| Readway repaired with gravel | 759,406 | |
| Gravel bank screenings spread | | |
| Cow Bay sand spread | 335,714 | |
| Coarse sand spread | 49,200 | |
| Trap-rock screenings spread | 20,160 | |
| Sand and clay spread | | |
| Gutter stuff spread | 383,000 | |
| Flagging relaid | 4,761 | |
| Old bridge stone relaid | 176 | |
| New bridge stone laid | 1,721 | |
| Block pavement relaid | 628 | |
| Cobble stone gutter relaid | | |
| Lime stone screenings spread | 64,566 | |
| Gutter paved with block pavement | 4,160 | |
| Sidewalks cleared of earth | 2,316 | |
| Sand and clay removed | 62,360 | |
| Gutter stone relaid | | lineal feet. |
| Stone culverts cleaned and repaired | | |
| Drains cleaned | 370 | |
| Curbs reset. | 66 | |
| Open drain cleaned | 486 | |
| Sidewalk drain constructed | 437 | |
| American elm trees planted | | |
| Catch stone set in front of basin | | |
| Paving blocks used | | |
| Basins cleaned | | |
| The area cleaned as given above is not calculated as the streets having 1 | | |
| during each quarter whereas the fact is many of them have been cleaned | three and | four times |

during each quarter, whereas the fact is, many of them have been cleaned three and four times during each quarter.

The following is an account of the material used and hauled during the year by the teams employed on Boulevards maintenance :

2,807 team-loads of broken stone of trap-rock. 1,267 team-loads of Roahook gravel. 611 team-loads of gravel bank screenings. 756 team-loads of sand.

438 team-loads of dirt. 388 team-loads of trap-rock screenings. 257 team-loads of lime-stone screenings.

237 team-loads of mite-stole stole
237 team-loads of gutter stuff.
142 team-loads of paving blocks.
135 team-loads of gneiss stone.
16 team-loads of Telford stone.
13 team-loads of flagging.
230 lineal feat of flaging.

13 team-loads of flagging. 220 lineal feet of drain pipe.

The following is an account of the material removed during the year from macadamized roads, streets and avenues

9,285 team-loads dirt removed from gutters and roadways. 1,202 team-loads dirt from basins. 188 team-loads sand and clay. 657 team-loads broken stone.

153 team-loads building stone. 40 team-loads building stone. 29 team-loads sand.

20 team-loads gutter stone

them in condition for use ; 20 of these have been thoroughly painted inside and outside, all weak or decayed timbers removed or repaired, and the iron-work generally overhauled, and in fact all the sprinkling carts have been or are now being put in as good condition as their age will admit. In addition to this work 4 tool-boxes have been built, 2 old ones have been repainted, 13 hand-carts have been painted and repaired, 3 new frames have been made for horse rollers, 15 new wheels, 4 pairs of shafts for monitors, 4 new road scrapers, 48 sets of whiffletnees painted, painted 9 wheelbarrows, sharpened 2,477 picks, sharpened and laid 209 picks, made 8 new grubs, 4 sets of whiffletnees, 25 hydrant wrenches, and many pieces of miscellaneous work too numerous to detail. There have been used on this work during the year 1,020 carriage-bolts, 1 small axle, 3,044 pounds of iron, 582 pounds of common steel, 112 lbs. of spring steel, 11½ gross of screws, 48 pieces of rims, 15 hubs, 284 spokes, 579 lbs. of white lead, 263 lbs. of black lead, 165 lbs. of there, no, 35 lbs. of steel iron, 5 new couplings, 17½ gallons of raw oil, 26 gallons of turpentine, 8½ gallons of varnish, 2,095 feet of old boards, 287 feet of white wood, 876 feet of pine, 1,215 feet of oak, 135 lbs. of nails, 150 feet of rubber hose, and quantities of other material necessary in work of this kind. In addition to this, the old buildings occupied for years as repair shops by the Bureau have been torn down, and such material as was of value removed to the new storage yard at One Hundred and Nimeteenth street and St. Nicholas avenue. The new shops have been fitted in proper condition for the work to be performed therein. the work to be performed therein.

The unpaved streets have received general attention, most prominent repairs having been made

on the following roadways : Fort Washington Depot lane, between Kingsbridge road and the Hudson river, resurfaced with lime-stone screenings

One Hundred and Seventy-fifth street, between Tenth avenue and the Kingsbridge road, for a width of 21 feet in the centre, macadamized with gneiss rock, sand, and lime-stone screenings. Kingsbridge road, between One Hundred and Seventy-fifth and One Hundred and Seventy-

eighth streets, for a width of 20 feet in the centre, macadamized with broken stone and sand. Inwood lane, between Kingsbridge road and the Hudson river, macadamized with gneiss rock

and lime-stone screenings. Kingsbridge road, between One Hundred and Eighty-ninth and One Hundred and Ninetieth streets, macadamized with gneiss rock and lime-stone screenings. There was used for macadamizing these streets 1,308 team-loads of gneiss rock furnished free of cost to the Department and broken to the proper size by the employees of the Bureau. Barry's Hill, between Seventh avenue and Central bridge, repaired with trap-rock stone and teap rock screenings.

trap-rock screenings.

F street, between Inwood street and Bolton road, covered with lime-stone screenings. Kingsbridge road, between One Hundred and Ninetieth and Inwood streets, macadam re-paired with gneiss-rock, sand and lime-stone screenings. Boulevard, north of One Hundred and Fifty-eighth street (sometimes called French Boulevard),

resurfaced with clay.

Madison avenue, between Eighty-sixth street and the bridge, roadway generally regulated. Kingsbridge road, between One Hundred and Fifty-fifth street and Tenth avenue, generally regulated

One Hundred and Thirty-fifth street, between St. Nicholas and Madison avenues, gutters opened

and roadway properly shaped. The roadways of the majority of unpaved streets have been generally regulated and gutters opened. A detailed statement of the area macadamized, and the material, is herewith shown :

UNPAVED STREETS.

The following amount of material has been used or removed in the cleaning or repairing of un-paved streets and avenues during the year 1886 :

Used and Buit.

| 5,730 truck-loads of | earth. |
|----------------------|------------------------|
| 1,208 truck-loads of | |
| | lime-stone screenings. |
| 17 truck-loads of | |

573 truck-loads of broken stone.
8 truck-loads of trap-rock screenings.
8 truck-loads of cobble stones.

3,895 truck-loads of Boulevard sweepings. 19 lineal feet curb reset.

495 square feet flagging relaid. 25 lineal feet stone drain built.

Material Removed.

59 truck-loads of dirt. 6 truck-loads of stone.

The above amount does not include any material delivered directly on the work by contractors.

The following is a general account of macadamizing and the work done during the year and paid for from the appropriation made for maintaining unpaved streets.

| paid for nom the appropriation made for maintaining appared streets | Area. | |
|---|---------------|--------------|
| D 1 | | quare feet. |
| Roadway macadamized with gneiss-rock, lime-stone, screenings and sand | | quare leet. |
| Roadway macadamized with gneiss stone and sand | 15,250 | |
| Roadway macadamized with gneiss-stone and lime-stone screenings | 1,681,825 | ** |
| Roadway repaired with trap-rock screenings | 28,000 | |
| Roadway covered with lime-stone screenings | 43,440 | |
| Crosswalk of gutter stone laid | 330 | lineal feet. |
| Flagging relaid | 104 | ** |
| Curb reset | 22 | |
| Stone culverts cleaned and repaired | 50 | ** |
| The following is the amount of money received as rentals for steam road sprinklers, etc., and deposited to the credit of the General Fund : | | |
| First quarter | | \$245 75 |
| Second quarter | | 59 68 |
| Third quarter | | 39 00 |
| Fourth quarter | | 51 00 |
| Total | | \$395 40 |
| The following material was obtained, free of cost, and used or stored for fit of the City : | ature use for | the bene- |
| Sand and clay, 241 cublic yards, at 75 cents | | \$180 00 |
| Material suitable for unpaved streets, 334 cubic yards at 30 cents | | 100 20 |
| Tilford stone for macadamizing, 1308 truck loads at 25 cents | | 327 00 |
| Sand and clay, 135 cubic yards at 30 cents | | 40 50 |
| Sand and clay, 171 team loads at 15 cents | | 25 65 |
| | - | |
| Total | | \$673 35 |
| | | |
| The following is a statement of the various appropriations and expenditu | res on Roa | ds. Streets |
| and the statement of the the uppropriations and expendent | | |

and Avenues Unpaved-Maintenance of-1886 : Amount appropriated for 1886..... \$25,000 00 Amount transmitted during the first quarter, 1886..... 1,724 25

| 5 team-loads dirt from sidewalks. Sewer and water connections repaired during the quarter : 31 sewer connections. | Balance, April 1, 1886. Amount transmitted during the second quarter, ending June 30, 1886. | \$23,275 75 6,017 76 |
|---|--|-------------------------|
| 19 water connections. Material used— 75 truck-loads trap-rock. | Balance, June 30, 1886 Amount transmitted during the third quarter, ending September 30, 1886 | \$17,258 04 9,977 05 |
| 13½ truck-loads sand. 2 truck-loads gravel bank screenings. 17½ truck-loads drtr removed. 4 truck-loads trap-rock screenings. 123 truck-loads Telford stone. 3 truck-loads gravel. | Balance, September 30, 1886 Amount transmitted during the fourth quarter, ending December 31, 1886, is as follows: Pay-roll, Laborers, etc., for Sept. 30, 1886 | \$7,280 99 |
| 600 paving blocks. Statement showing the amount of water used during the quarter in sprinkling the macadamize roads, streets and avenues during the year : Barrels or Loads. Gallons | " " Dec. 15, " | |
| First quarter 500 281,73 Second quarter 17,528 10,787,87 Third quarter 29,633 18,196,85 Fourth quarter 9,751 5,926,36 | 2 4 | \$6,799 50 \$481 49 |
| Total | 1886, for use of sprinklers and road rollers, and deposited to the credit of the General Fund | \$51 00 |

\$4,137 91

The following is a statement of the appropriations and expenditures on Boulevards, Roads and Avenues-Maintenance of, 1886 :

| Amount app Amount trai | propriated for 1 asmitted durin | 886 g the fir | rst qu | arte | er, 1886 | | \$80,000 6,769 | | M |
|---|---|--|--|------|--------------------------------|---|--------------------|----|-------------------|
| Amount trai | Balance, Ap | ril 1, 18 g the see | 886 cond | qui | arter, ending June 30, 1886 | ••••• | \$73,230 24,798 | | |
| Amount tra | Balance, Jur nsmitted durin | g the th | 886 ird qu | uar | ter, ending September 30, 1886 | | \$48,431 23,109 | | C |
| | Balance, Ap | ril I, I | 886 | | | | \$25,321 | 53 | |
| fol Pay-roll, La "" " Road rollin Use of hors Trap-rock s Lime stone Powder and Lumber Repairs to s | lows : borers, etc., fo " " " g tone and scree and bridge sto fuse prinklers | or Sept. Oct. Nov. Dec. mings. ne | 30, 1 15, 30, 15, 30, 15, | | h quarter, ending December 31, | 1886, is as \$3,c90 12 3,146 30 3,245 49 3,137 80 2,906 93 2,901 37 511 22 180 00 1,474 50 303 45 4 10 12 88 38 34 211 12 | 21,183 | | NECNY*1BU lise |
| | | | | | | - | | | to |

Document "I."

DEPARTMENT OF PUBLIC WORKS, BUREAU OF LAMPS AND GAS, ROOM 11, No. 31 CHAMBERS STREET, New York, January 8, 1887.

GEN. JOHN NEWTON, Commissioner of Public Works

SIR—In compliance with your circular letter of 8th ultimo, I have the honor to submit the following report of the transactions of the Bureau of Lamps and Gas, for the quarter ending December 31, 1886 ; with a summary of the same for the whole year : In Exhibit "A" will be found a statement showing the amounts expended for a supply of illuminating gas to the various public markets, offices, armories, etc., and for the fitting-up, lighting, and maintenance of the public lamps for the first, second, third and fourth quarters, and the sums total for the entire year

and maintenance of the public lamps for the first, second, third and fourth quarters, and the sums total for the entire year. In Exhibit "B" is a summary of the appropriation for "Lamps and Gas and Electric, Lighting," and this shows an expenditure during the fourth quarter of two hundred and thirty-seven thousand and fourteen dollars and ninety-two cents (\$237,014.92), and for the year, of seven hundred and twelve thousand, four hundred and eighty-eight dollars and eighteen cents (\$712,488.18), leaving a surplus balance of six thousand three hundred and eleven dollars and eighty-two cents (\$6,311.82). Of this surplus the sum of four thousand five hurdred dollars (\$4,500) has been transferred by the Board of Estimate and Apportionment to the account of "Public Buildings—Construction and Repairs," still leaving a balance of one thousand eight hundred and eleven dollars and eighty-two cents (\$1,811.32). Exhibit "C" is a summary of the appropriation for "Salaries—Lamps and Gas and Electric Lighting," and this shows an expenditure during the quarter of eleven hundred and twelve dollars and ninety cents (\$1,112.90), and for the year of five thousand and thirty-one dollars and seventy-five cents (\$5,031.75), leaving surplus balance of three hundred and sixty-eight dollars and twenty-

five cents (\$5,031.75), leaving surplus balance of three hundred and sixty-eight dollars and twenty-

and ninety cents (\$1,112.90), and for the year of five thousand and thirty-one dollars and seventy-five cents (\$5,031.75), leaving surplus balance of three hundred and sixty-eight dollars and twenty-five cents (\$508.25). Exhibit "D" is a summary of the appropriation for "Street Signs on Buildings and Public Lamps," and this shows an expenditure for the quarter of nine hundred and twenty-nine dollars and fifty cents (\$920.50), and for the year of nineteen hundred and seventy-four dollars and fifty cents (\$1,074.50), leaving a surplus balance of three thousand and twenty-five dollars and fifty cents (\$3,025.50). There are no outstanding bills or claims against this Bureau, and hence the foregoing balances are not needed for the purposes of this office. Exhibit "E" is a summary of the "Lamp Account," showing the number of new lamps lighted, old lamps relighted, and lamps discontinued by each gas and electric light company during the quarter and the year. Two hundred and sixty new gas-lamps have been lighted, ninety-eight old gas-lamps relighted, and seventy-two gas-lamps discontinued during the quarter ; and six hundred and fifty new gas-lamps, seventy new naphtha-lamps, and three new electric-lamps have been lighted, two hundred and forty-two old gas-lamps relighted, and two hundred and fifty-three gas-lamps discontinued during the year. The total number of lamps lighted at the close of the year was twenty-four thousand one hundred and ninety-four gas, one hundred and twenty naphtha, and seven hundred and eleven electric-lamps. The total net increase during the year was six hundred and thrty-nine gas, seventy naphtha, and three electric. Exhibit "F" is a statement showing the lowest, highest and average illuminating power of the gases supplied to the City by the several gas-light companies during the quarter and the year. Exhibit "G" is a copy of the time-table for lighting and extinguishing the public gas-lamps during the contract year. The electric-lamps are lighted about thirty to forty minutes after sunset

| By what Gas Company. | NEW LAMPS FITTED UP. | LAMP-POSTS REMOVED. | LAMP-POSTS RESET. | LAMP-POSTS STRAIGHTENED. | COLUMNS REFITTED. | COLUMNS RELEADED. |
|-----------------------------------|-------------------------|------------------------|----------------------|-----------------------------|----------------------|----------------------|
| Consolidated Gas Co | | | | | 62 | |
| New York Branch | 19 | 42 | 41 | 231 89 | | 271 52 |
| Manhattan Branch | 27 | 27 | 27 8 | 35 | 13 | 10 |
| Municipal Branch. | 11 62 | 7 | | | 16 | |
| Metropolitan Branch | | 29 68 | 47 | 132 | 10 | 54 |
| Harlem Branch | 342 | 08 | 74 | 310 | | 52 46 8 |
| New York Mutual Gas-light Co. | | 3 | I | 10 | | |
| Equitable Gas-light Co | | 5 | IO | 39 | 0 | 74 |
| Central Gas-light Co | | 119 | 115 | 202 | I | 3 |
| Northern Gas-light Co | | 9 | 24 | 74 | | |
| Yonkers Gas-light Co | | | I | 142 | | |
| N. Y. & N. J. Globe Gas-light Co. | 70 | | I | 1 | | |
| Totals | 720 | 309 | 349 | 1,265 | 120 | 516 |

The following table will show the number of new lamps lighted by the several gas companies in each of the years, from 1879 to 1886, both inclusive :

The following statement shows the average number of lamps lighted under the supervision of the Department of Public Works in each of the years from 1879 to 1886, both inclusive:

| De la constanción de | AVERAGE NUMBER OF LAMPS LIGHTED IN- | | | | | | | |
|---|--|--|---|--|--|---|--|---|
| By what Company | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. |
| Consolidated Gas Co.— New York Branch. Manhattan Branch. Municipal Branch. Metropolitan Branch. Harlem Branch. New York Mutual Gas-light Co. Equitable Gas-light Co. Central Gas-light Co. Northern Gas-light Co. Yonkers Gas-light Co. Yonkers Gas-light Co. Northern Gas-light Co. Synak Electric Illuminating Co. | 3,381 6,687 4,068 4,280 800 1,764 1,026 72 510 | 3,560 6,804 4,282 4,682 1,037 1,834 1,0,00 76 23 | 3,565 6,667 4,349 4,774 986 1,874 1,117 91 55 | 3,461 6,495 4,529 4,950 826 1,938 7,181 207 55 | 3,369 6,477 4,658 5,157 768 2,007 1,308 295 55 | 3,046 6,053 4,504 5,422 591 2,072 1,429 325 246 | 3,450 4,456 4,172 5,767 316 1,411 2,205 1,551 331 50 347 | 3,865 3,239 1,122 3,719 5,787 216 1,586 2,256 1,686 337 347 |
| United States Illuminating Co | | | | 73 | 73 | 243 | 338 | 361 |
| Totals | 22,590 | 23,388 | 23,478 | 23,715 | 24,167 | 23,931 | 24,394 | 24,611 |

* These are naphtha-lamps; the 570 were situated in Harlem, and were discontinued in 1879. The 50 lamps ghted in 1855, and added to in 1886, are situated at Woodlawn Heights, in a locality which cannot at present be eached by gas.

In 1886 the New York Branch of Consolidated Company lost 61 lamps by transferring the same to the Equitable Gas-light Co. The Manhattan Branch lost 1,040, of which 440 were transferred to the Municipal Branch, 530 to the Metropolitan Branch, and 74 to the Equitable Gas-light Co. The Municipal Branch took 440 from the Manhattan and 2,232 from the Metropolitan Branch. The Metropolitan Branch took 530 from the Manhattan and 734 from the Harlem Branch, and transferred 2,232 to the Municipal Branch and 87 to the Equitable Gas Co. The Harlem Branch transferred 7,34 to the Metropolitan Branch. The New York Mutual Gas Co. transferred 2,3 lamps to the Equitable Gas-light Co. The Equitable Gas-light Co. took 222 from the Consolidated and 23 from the New York Mutual Co. The averages are made by adding the total number lighted by the several companies at the end of each month and dividing the results by 12.

| Gas-mains have been laid during the year, as follows : | | | |
|--|---------|---|-----|
| By Consolidated Gas Company. | | | |
| By New York Mutual Gas-light Company. By Equitable Gas-light Company. By Standard Gas-light Company. By Central Gas-light Company. By Northern Gas-light Company. By Northern Gas-light Company. | •••••• | 126,498' 10,362' 3,556' 3,750' | 7" |
| by rouncie out inglit company that it is the transmission of transmission of the transmission of transmission of the transmission of transmission of transmission of the transmission of transmiss | | | |
| Total laid m 1886, 36 5 28 6 miles, or | | 192,515' | I', |
| Gas-mains have been taken up during the year, as follows : | | | |
| By Consolidated Gas Company By Equitable Gas-light Company | ••••• | 1,487' 1,235' | |
| Total taken up | | 2,722' | 7" |
| | ~ | | |
| The total miles of gas-mains in the streets of this city on December 31, 188 | 6, was | as follows | s : |
| | Miles. | Feet. | |
| Consolidated Gas Company | 725 | 3,357 | 6" |
| New York Mutual Gas-light Company | 122 | 1,173 | |
| Equitable Gas-light Company | 77 | 3,258 | 10" |
| Standard Gas-light Company | 1 | 5,082 | |
| Central Gas-light Company | 50 | 4,415 | |
| Northern Gas-light Company | 29 | 3,460 | |
| Yonkers Gas-light Company | 10 | 3,610 | |
| Total miles of gas-mains, December 31, 1886 | 1,01888 | 8 <u>6</u> 8 0 | |
| ()f these mains 027 527, miles are on Manhattan Island, and ot 925, miles | are in | the anne | wed |

Of these mains $927\frac{527}{5280}$ miles are on Manhattan Island, and $91\frac{925}{5280}$ miles are in the annexed territory north of Harlem river.

The Equitable Gas-light Company commenced the laying of mains in this city in the month of May, 1883, and it now has of

| Four-inch main Six-inch main | 168,269' | 2" |
|--|-----------------|-----|
| Eight-inch main | 59,955 | 6" |
| Fwelve-inch main | 55,727' 29,684' | 7" |
| Fwenty-inch main. Fwenty-inch main. Twenty-four-inch main. | 26,996' | 9" |
| Twenty-four-inch main | 19,807' | 10" |
| Tətal | 409,914 | 8" |

And it has paid into the City Treasury, as required by the conditions prescribed by the Gas Commission, at the rate of twenty cents per lineal foot, amounting in the aggregate to \$\$1,9\$2.80, this being the only gas company that makes compensation to the Çity Treasury for the privilege of laying mains in the streets of this city. Branch I, of Consolidated Gas Company (the old New York Gas-light Company), lights the public lamps and supplies gas to the public in that part of the city lying south of the centre line of Houston street. Its works are at Twenty-first street, East river, the manufacture is water-gas, and its office is at the corner of Hester and Elizabeth streets. Branch 2 (the old Manhattan Company) lights the lamps and supplies gas to the public in that

its office is at the corner of Hester and Elizabeth streets. Branch 2 (the old Manhattan Company), lights the lamps and supplies gas to the public in that part of the city lying north of the centre line of Houston street and south of the centre line of Twenty-third street. It has two gas-works making coal gas, one of which is at Fourteenth street, East river, and the other at Eighteenth street, North river, and its office is at No. 4 Irving place. The mains of this branch are connected with a main carrying water-gas so that the illuminating power of the gas is increased when it reaches the consumer. Branch 3 (the old Municipal Co.) lights the lamps and supplies gas to the public in that part of the city lying north of the centre line of Twenty-third street, south of the centre line of Seventy-ninth street, and east of Fifth avenue, including both sides of Fifth avenue, from Fifty-ninth to Seventy-ninth street. Its works are at Forty-fourth street, North river; the manufacture is water-gas, and its office is at Fourth avenue and Twenty-stirk street. Branch 4 (the old Metropolitan Co.) lights the lamps and supplies gas to the public in that part of the city lying north of the centre line of Twenty-third street. Branch 4 (the old Metropolitan Co.) lights the lamps and supplies gas to the public in that part of the city lying north of the centre line of Twenty-third street. Branch 4 (the old Metropolitan Co.) lights the lamps and supplies gas to the public in that part of the city lying north of the centre line of Twenty-third street, west of the centre line of Fifth avenue to Fifty-ninth street, and west of the westerly line from Fifty-ninth street to Seventy-ninth street ; south of Transverse Road No. 2 in Central Park to Eighth avenue, and west of Eighth avenue to centre line of One Hundred and Tenth street to North river, including both sides of the Transverse road,

399

NEW LAMPS LIGHTED IN-

By WHAT GAS COMPANY

| 1879. | 1880. | 1881. | 1882. | 1883. | .00 | .00- | .005 |
|-------|--|--|---|---|--|---|---|
| | | 1001. | 1002. | 1003. | 1884. | 1885. | 1886 |
| 78 | 30 | 26 | 31 | 17 | 18 | 23 | 10 |
| | 58 | 41 | 67 | 53 | 22 | 50 | 27 |
| | | | | | | | 11 |
| 110 | 137 | 126 | 146 | 156 | 67 | 159 | 62 |
| 134 | 138 | 99 | 219 | 255 | 308 | 312 | 342 |
| | I | | 3 | | 5 | | |
| | | | | | | 7 | 14 |
| 115 | 43 | | | | | 74 | 103 |
| | | | | | | | 72 |
| | 10 | | | | | 50 | 70 |
| 810 | 422 | 438 | 860 | 716 | 566 | 863 | 720 |
| | | | | | | ==== | |
| | 23 | | 32 | | 202 | | I |
| | | | 73 | | 227 | бі | 2 |
| | 110 134 115 90 810 | 131 58 110 137 134 138 137 134 138 138 115 42 00 16 16 1810 422 200 23 | 131 58 41 110 137 126 134 138 99 1 115 42 65 90 67 16 14 810 422 438 | 131 58 41 67 110 137 126 146 134 138 99 219 1 3 115 42 65 105 90 67 102 90 67 102 90 14 187 16 14 187 810 422 438 860 23 32 | 131 58 41 67 53 110 137 126 146 156 134 138 99 219 255 1 3 115 42 65 105 75 90 67 102 124 16 14 187 36 810 422 438 860 716 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

line of One Hundred and Tenth street to North river, including both sides of the Transverse road,

and both sides of Eighth avenue. Branch 5 (the old Knickerbocker Co.) does not light any public lamps or do any commercial business, its former office having been closed. Its works are at Ninety-ninth street, East river, and it manufactures water-gas, which is supplied to Branch 6. Branch 6 (the old Harlem Gas Co.) lights the public lamps and furnishes gas to the public in that part of the city lying north of the centre line of Seventy-ninth street and Transverse Road No.

that part of the city is a form of the centre line of Seventy-initial street and Transverse Road Ro. 2 to Eighth avenue, thence northerly along Eighth avenue to the centre line of One Hundred and Tenth street; thence westerly along the centre line of One Hundred and Tenth street to North river, excluding both sides of Transverse road and both sides of Eighth avenue south of One Hundred and Tenth street. Its coal-gas works at One Hundred and Eleventh street, East river, have been closed, and it obtains its gas from Branch No. 5. Its office is at Third avenue and One Hundred and Fourteenth street.

and Fourteenth street. The main office of the Consolidated Gas Company is at Irving place and Fifteenth street. Its capital is \$39,070,000, and capacity of works 28,000,000 cubic feet per day. The New York Mutual Gas-light Company has mains on various streets or parts of streets between Battery place and Sixty-fifth street, and lights a few of the public lamps between Thirty-fourth and Sixty-fifth streets. It manufactures water gas at the works on Eleventh street, East river, and its office is at Fourth avenue and Sixteenth street. The capital is \$3,500,000; capacity of works 4 000 oc on bic feet per day.

of works, 4,000,000 cubic feet per day. The Equitable Gas-light Company has mains in various streets or parts of streets between Division street on the south and Seventy fourth street on the north, and lights the lamps on the

lines of its mains which were laid prior to the execution of its present lamp contract. Its works are at Forty first street, East river : the manufacture is water-gas, and its office is at Third avenue and Twenty-fifth street. Capital, \$3,000,000 ; capacity of works, 6,000,000 cubic feet per day. The Central Gas-light Company supplies gas to the Twenty-third Ward (formerly town of Morrisania), and lights all the public lamps therein. It manufactures coal gas at the works at One Hundred and Thirty-eighth street, Port Morris, and its office is at Alexander avenue and One Hun-dred and Forty-second street. Capital, \$450,000 ; capacity of works, 400,000 cubic feet per day. The Northern Gas-light Company supplies gas to that part of the Twenty-fourth Ward formerly town of West Farms, and lights the public lamps therein. It manufactures coal-gas at its works on the Bronx river, West Farms, and its office is at No. 1845 Fourth avenue, Tremont. Capital, \$125,000 ; capacity of works, 150,000 cubic feet per day. The Vonkers Gas-light Company has mains in, supplies gas to, and lights the public lamps in a small section of the Twenty-fourth Ward (formerly town of Kingsbridge). Its gas works and office are in the City of Yonkers, and its manufacture is water-gas. Capital, \$200,000 ; capacity of works, 250,000 cubic feet per day ; business principally confined to the City of Yonkers, Westchester County. The New York and New Jersey Globe Gas-light Company lights its lamps by means of naphtha contained in a reservoir on each lamp.

The New York and New Jersey Globe Gas-light Company lights its lamps by means of naphtha contained in a reservoir on each lamp. The Standard Gas-light Company commenced the laying of mains in November last, and up to December 31 it had laid mains in Fifty-seventh, Fifty-ninth and Sixty-seventh streets, from Madison avenue to Second avenue; and in Second avenue, from Fifty-seventh to Seventy-first street; and it has commenced the erection of gas works at One Hundred and Fifteenth street, East river. The manufacture is to be water-gas, and its office is at No. 2 Cortlandt street. Capital, 51, coo,coco. The right of this company to lay gas-mains in the streets of this City was obtained from the State Legislature, by a special law (chapter 248 of the Laws of 1886), and this is the only case where a gas company has laid pipes in our public thoroughfares without the necessity of securing the consent of the Common Council.

The length of new streets lighted during the year 1886 was $8\frac{3}{5}\frac{8}{5}\frac{1}{5}$ miles. The total length of streets of the city lighted on December 31, 1886, was $464\frac{105}{5250}$ miles. The total length of piers lighted was $1\frac{1}{5}\frac{2}{5}\frac{9}{5}$ miles. The total length of bridges lighted was $1\frac{1}{5}\frac{2}{5}\frac{9}{5}\frac{9}{5}$ miles. The total area of parks lighted was $38\frac{2}{5}$ acres. The total area of Gansevoort market lighted was $3\frac{1}{4}$ acres.

New lamps have been erected and lighted in the following streets during the year :

Thirtie the street, from First avenue to East river. Sixty fifth street, from Tenth avenue, west, one-half the block. Seventieth street, from Tenth to Eleventh avenue. Seventy-ninth street, north side, from Tenth avenue to the Boulevard.

Eightieth street, from Avenue A to Avenue B. Eighty seventh street, from Tenth avenue, east, one-half the block. Ninetieth street, from Second to Third avenue.

Ninetief street, from Second to Third avenue. Ninety-seventh street, from Eighth to Ninth avenue. Ninety-seventh street, from Eighth to Ninth avenue. Ninety-seventh street, from Second to Third avenue. Ninety-eighth street, from Second to Third avenue. Ninety-ninth street, from Boulevard to Eleventh avenue. One Hundred and Sixth street, from Madison to Fourth avenue. One Hundred and Sixteeth street, from Fourth to Fifth avenue. One Hundred and Sixteeth street, Eighth to Ninth avenue. One Hundred and Twenty-first street, from Sixth to Seventh avenue. One Hundred and Twenty-first street, from Ninth to St. Nicholas avenue. One Hundred and Twenty-fifth street, from Tenth avenue to the Boulevard. One Hundred and Twenty-fifth street, from Fourth to Madison avenue. One Hundred and Twenty-fifth street, from Fourth to Madison avenue. One Hundred and Thirty-fifth street, from Tenth avenue to the Boulevard. One Hundred and Thirty-fifth street, from Tenth avenue to Hamilton place. First avenue, from Eighty-eighth to One Hundred and Fifth street. Sinth avenue, from One Hundred and Fifth-fifth to One Hundred and Fifty-ninth street. Ninth avenue, from Ninety-ninth to One Hundred and Fifty-fifth street. Ninth avenue, from Ninety-ninth to One Hundred and Fifty-firth street. Tenth avenue, west side, from One Hundred and Thirty-first to One Hundred and Forty-fourth

Fighth avenue, from Ninety-inith to One Hundred and Ninth street.
Ninth avenue, from Ninety-inith to One Hundred and Ninth street.
Tenth avenue, west side, from One Hundred and Thirty-first to One Hundred and Forty-fourth st.
Depew place, from Forty-fourth to Forty-fifth street.
Madison avenue, east side, from Ninetieth to One Hundred and Ninth street.
Manhattan avenue, from One Hundred and Fifth to One Hundred and Sixth street.
Pleasant avenue, from One Hundred and Fourieenth to One Hundred and Fifteenth street.
Pleasant avenue, from One Hundred and Fourieenth to One Hundred and Fifteenth street.
Washington street, from Little West Twelth to Fourteenth street.
The following streets in Twenty-third Ward :
One Hundred and Forty-ninth street, from Brook avenue to St. Ann's avenue.
One Hundred and Forty-ninth street, from Brook avenue to Prospect avenue.
Arcularius place, from One Hundred and Thirty-fourth to One Hundred and Thirty-fifth street.
Prospect avenue, from One Hundred and Sixty-fifth to One Hundred and Sixty-sixth street.
Tinton avenue, from One Hundred and Sixty-fifth to One Hundred and Sixty-sixth street.
Timton streets in Twenty-fourth Ward :
Adams avenue, from Kingsbridge road to Columbine avenue.
Jerome avenue, from Kingsbridge road to Columbine avenue.
Jerome avenue, from Moris avenue to Broadway.
Popham street, from Morris avenue to Pierty avenue.
Wasolarue, from Morris avenue to Pierty avenue.

Southern Boulevard, from Hull avenue to Perry avenue. Woodlawn Heights, Twenty-fourth Ward. Grand avenue, from Third street to the New York City and Northern Railroad.

The following statement will show the prices now paid the several companies, under the exist-ing contracts, for furnishing the gas to and lighting, extinguishing, cleaning, repairing and maintain-ing the public lamps for the year ending on April 30, next:

| Contractor. | For Gas to and Light- ing, Extinguishing, etc., each Lamp, per annum. | For each Lamp-post Straightened. | For each Column Releaded. | For each Column Refitted. | For each Lamp-post Removed. | For each Lamp-post Reset. | For each New Lamp Fitted-up. |
|--------------------------------|--|-------------------------------------|------------------------------|------------------------------|--------------------------------|------------------------------|---------------------------------|
| Consolidated Gas Co | \$17 50 | \$1 50 | \$z 50 | \$3 50 | \$3 50 | * \$8 co | \$8 00 |
| New York Mutual Gas-light Co | 17 50 | I 50 | r 50 | 3 50 | 3 50 | 8 00 | 8 00 |
| Equitable Gas-light Co | 12 00 | I 50 | 1 50 | 3 50 | 3 50 | 10 00 | 10 00 |
| Central Gas-light Co | 28 00 | I 50 | 1 50 | 1 50 | 3 50 | 8 00 | 8 00 |
| Northern Gas-light Co | 30 00 | I 50 | 1 50 | 3 00 | 3 50 | 8 00 | 8 00 |
| Yonkers Gas-light Co | 30 00 | 1 00 | 1 00 | 1 00 | I 50 | 8 | 8 00 |
| New Vork and New Jersey Globe) | | | | | 1 | 1 | |

Brush Electric Illuminating Company, for the year ending April 30, 1887, at seventy cents each lamp per night (\$255.50), including the fitting-up and every cost of maintenance, for lighting the following-named streets

| 9 | Lamps. |
|--|--------|
| Broadway, from Fourteenth street to Fifty-ninth street | 47 |
| Fifth avenue, from Fourteenth to Fifty-ninth street | 41 |
| Fourth avenue, from Eighteenth to Thirty-fourth street | 16 |
| fark avenue, from Thirty-fourth to Forty-second street | 0 |
| Seventh avenue, from Fourteenth to Filty-ninth street | 42 |
| Fourteenth street, from North river to East river | 40 |
| Twenty-third street, from North river to East river. | 34 |
| Thirty-fourth street, from North river to East river | 36 |
| Forty-second street, from North river to East river | 36 |
| Fifty-ninth street, from Third to Ninth avenue | 22 |
| Madison Park, 6 lamps on mast, equivalent to | 12 |
| Union Park, 6 lamps on mast, equivalent to | 12 |
| | |
| | 348 |

The total aggregate length of streets now lighted by electric-lights is thirty-miles, and the total area of public parks and Gansevoort Market is forty-one and three-fourths acres.

In order that a comparison may be made of the relative cost of lighting the streets by electriclights and by gas, I submit the following :

Statement Showing the Streets and Public Places now Lighted by Electric-lights, with the Number of such Lights and Cost of Same; also the Number of Gas-lamps Displaced by Electric-lights and Annual Cost of Gas-lamps :

| STREETS AND PUBLIC PLACES NOW LIGHTED. | Number of Electric- lamps, at \$255.50 each per Year. | Aggregate cost of same per Year. | Number of Gas-lamps Displaced, at \$17.50 each per Year. | Aggregate cost of same per Year. | Excess of cost for Elec- tric-lamps per Year. |
|---|---|-------------------------------------|--|-------------------------------------|--|
| Bleecker street, from Bowery to Eighth avenue | 34 | \$8,687 00 | 128 | \$2,240 CO | \$6,447 00 |
| Broadway, from Battery place to Fifty-ninth street | 100 | 25,550 00 | 400 | 8.575 00 | 16,075 00 |
| Canal street, from Bowery to North river | 26 | 6,643 00 | 80 | 1,557 50 | 5.085 50 |
| Catharine street, from East Broadway to East river | 7 | 1,788 50 | 28 | 400 00 | 1,208 50 |
| Chambers street, from Broadway to North river, | 8 | 2,044 00 | 22 | 385 00 | 1,659 00 |
| East Broadway, from Chatham Square to Grand street | 20 | 5,110 00 | 90 | 1,575 00 | 3,535 00 |
| Fulton street, from North to East river | 17 | 4.343 50 | 56 | 980 00 | 3,363 50 |
| Fourth avenue, from Eighteenth to Thirty-fourth street | 17 | 4,343 50 | 75 | 1,312 00 | 3,031 00 |
| Fifth avenue, from Fourteenth to Fifty-ninth street | 48 | 12,264 00 | 249 | 4,357 50 | 7,906 50 |
| Park avenue, from Thirty-fourth to Forty-ninth street | 8 | 2,044 00 | 70 | 1,225 00 | 819 00 |
| Seventh avenue, from Fourteenth to Fifty-second street | 43 | 10,986 50 | 167 | 2,922 50 | 8,064 00 |
| Fourteenth street, from North to East river | 40 | 10,220 00 | 153 | 2,677 50 | 7.542 50 |
| Twenty-third street, from North to East river | 34 | 8,687 00 | 118 | 2,065 00 | 6,622 00 |
| Thirty-fourth street, from North to East river | 36 | 9,198 co | 108 | 1,890 00 | 7,308 00 |
| Forty-second street, from North to East river | 36 | 9,198 00 | 145 | 2,537 50 | 6,660 50 |
| Fifty-ninth street, from Third to Ninth avenue | 22 | 5,621 00 | 80 | 1,400 00 | 4,221 00 |
| South street, from Whitehall to Grand street | 64 | 16,352 00 | 198 | 3,465 00 | 12,887 00 |
| West street, from Battery place to West Eleventh street | 50 | 12,775 00 | 217 | 3,797 50 | 8,977 50 |
| Battery Park | 20 | 5,110 00 | 90 | 1,732 50 | 3,377 50 |
| City Hall Park | 13 | 3,321 50 | 98 | 1,715 00 | 1,606 50 |
| Tompkins Park | 16 | 4,088 00 | 157 | 2,747 50 | 1,340 50 |
| Washington Park Madison Park | 15 | 3,832 50 | 129 | 2,257 50 | 1,575 00 |
| Union Dark | 12 | 3,066 00 | 94 | 1,645 00 | 1,421 00 |
| Union Park | 12 | 3,066 00 | 66 | 1,155 60 | 1,911 00 |
| Gansevoure market Squaressons stressons stressons | 13 | 3,321 50 | 85 | 1,487 50 | 1,834 00 |
| Totals | 711 | \$181,660 50 | 3,211 | \$56,192 50 | \$125,468 00 |

Resolutions have been adopted by the Board of Aldermen requesting the Gas Commission to cause a number of additional streets to be lighted by the electric system, and in order to show the additional expense which would be incurred by such lighting, I submit the following :

Statement showing the Several Streets or Parts of Streets and Public Places in which on Extension of Electric-lights is requested by Resolution of the Common Council, with the Estimated Num-ber of Lights required to comply with same, and the cost ; also the Number of Gas-lamps which could be Displaced, and their cost.

| FOR WHAT STREETS. | Estimated number of Electric-lights. | Aggregate Cost of Same per Year. | Number of Gas- lamps Displaced. | Aggregate Cost of Same per Year. | Excess of Cost of Electric Lighting. |
|--|---|-------------------------------------|------------------------------------|-------------------------------------|---|
| Avenue A, Houston to Eighth street Avenue A, Tenth to Fourteenth street | 8 | \$2,044 00 1,022 00 | 22 12 | \$385 00 210 00 | \$1,659 oc 812 oc |
| Avenue B, Houston to Twenty-third street | 20 | 5,110 00 | 50 | 875 00 | 4,235 00 |
| Avenue C, Houston to Fourteenth street Avenue D, Houston to Fourteenth street | 15 | 3,832 50 | 49 | 857 50 | 2,975 0 |
| First avenue, Twenty third to Forty-second street | 13 | 3.321 50 | 35 | 1,207 50 | 2,709 00 |
| First avenue, Houston to Fourteenth street | 14 | 3,577 00 | 61 | 1,067 50 | 2,500 50 |
| First avenue, Fifty-ninth to Eighty-sixth street | 20 | 7,409 50 | 108 | 1,890 00 | 5.519 5 |
| Second avenue, Houston to Eighth street | -8 | 2,044 CO | 31 | 542 50 | 1,501 5 |
| Second avenue, Twenty-third to Forty-second street | 17 | 4.343 50 | 71 | 1,242 50 | 3,101 0 |
| Third avenue, Twenty-third to Forty-second street | 17 | 4,343 50 | 75 | 1,312 50 | 3,031 00 |
| Thirtieth street | 25 | 6,387 50 | 100 | 1,750 00 | 4,637 5 |
| Fourth avenue, Fifth to Fourteenth street Third avenue, Harlem Bridge to One Hundred and Seven- | 10 | 3,555 00 | 46 | 805 00 | 1,750 0 |
| tieth street | 53 | 13,541 50 | 190 | 3,325 00 | 10,216 50 |
| Fifth avenue, Fifty-ninth to One Hundred and Tenth street | 50 | 12,775 00 | 210 | 3,675 CO | 9,100 0 |
| Sixth avenue, Fourteenth to Fifty-ninth street | 41 | 10,475 50 | 180 | 3,150 00 | 7,325 5 |
| Eighth avenue, Fourteenth to One Hundred and Tenth street. | 91 | 23,250 50 | 285 | 4,987 50 | 18,263 0 |
| Ninth avenue, Fourteenth to Forty-second street | 27 | 6,898 50 | 113 | 1,977 50 | 4,921 0 |
| Ninth avenue, west side, between Fifty-ninth and Sixtieth streets | | 255 50 | 4 | 70 00 | 185 5 |
| Tenth avenue, Fourteenth to Forty-second street | 27 | 6,898 50 | 801 | 1,890 00 | 5,008 5 |
| Eleventh avenue, Fourteenth to Forty-second street | 27 | 6,898 50 | 104 | 1,820 00 | 5,078 5 |
| Tenth street, Avenue A to Third avenue | 20 | 5,110 00 | 73 | 1,277 50 | 3,832 5 |
| Tenth street, West street to Sixth avenue | 12 | 2,044 CO 3,066 OO | | 315 00 | 1,729 0 |
| Fifteenth street, Seventh avenue to North river | 12 | 3,321 50 | 32 | 500 00 | 2,506 0 |
| Sixteenth street, Seventh avenue to North river | 14 | 3,321 50 | 30 | 542 50 | |
| Seventeenth street, Seventh avenue to North river | 14 | 3,577 00 | 31 27 | 472 50 | 3,034 5 |
| Eighteenth street, Seventh avenue to North river | 14 | 3,577 00 | 31 | 542 50 | 3,034 5 |
| and the state of t | - 4 | 313/1 00 | 3- | 34- 50 | 3, 34 5 |

| New York and New Jersey Globe | 25 00 | 1 00 | 1 00 | 2 00 | 3 00 | 5 00 | 5 00 | Nineteenth street, Seventh avenue to North river Twentieth street, Seventh avenue to North river | 14 | 3,577 00 | 29 | 507 50 577 50 | 3,069 |
|------------------------------------|---------------|------------|------------|------------|----------|------------|-----------|---|----|----------|----|------------------|-------------|
| ous again contraction traction) | 1.1.1.1.1.1.1 | | | 1 | | 1 | 1 | Twenty-first street, Seventh avenue to North river | 14 | 3,577 00 | 32 | 560 00 | 3,017 |
| | | | | | | | | Twenty-second street, Seventh avenue to North river | 14 | 3.577 00 | 34 | 595 00 | 2,982 |
| | | | | | | | | Twenty-fourth street, Seventh avenue to North street | 14 | 3,577 00 | 35 | 612 50 | 2,964 |
| | Electru | c Lamp (| Contracts. | | | | | Twenty-fifth street, Seventh avenue to North river | 14 | 3,577 00 | 31 | 542 50 | 3,034 |
| United States Illuminating Con | mpany fo | or the yes | r ending | April 20 | 1887 at | seventy ce | ents each | Twenty-sixth street, Seventh avenue to North river | 14 | 3,577 00 | 30 | 525 00 | 3,052 |
| amp per night (\$255.50 per year), | including | the Ettin | aunand | | af maint | sevency of | lighting | Twenty-seventh street, Seventh avenue to North river | 14 | 3,577 00 | 30 | 525 00 | 3,052 |
| imp per night (\$255.50 per year), | menuang | the num | g-up and | every cost | or maint | enance for | ngnting | Twenty-eighth street, Seventh avenue to North river | 15 | 3,832 50 | 29 | 507 50 | 2,325 |
| ne following-named streets : | | | | | | | | Twenty-ninth street, Seventh avenue to North river | 15 | 3,832 50 | 33 | 577 50 | 3,255 |
| | | | | | | | Lamps. | Thirtieth street, Seventh avenue to North river | 15 | 3,832 50 | 40 | 700 00 | 3,132 |
| leecker street, from the Bowery to | o Eighth a | avenue | | | | | 34 | Thirty-first street, Seventh avenue to North river | 15 | 3,832 50 | 30 | 525 00 | 3,307 |
| roadway, from Battery place to | Thirteenth | street | | | | | 53 | Thirty-second street, Seventh avenue to North river | 15 | 3,832 50 | 29 | 507 50 | 3,325 |
| anal street, from the Bowery to M | Vorth rive | | | | | ••••• | | Thirty-third street, Seventh avenue to North river | 15 | 3,832 50 | 31 | 542 50 | 3,290 |
| anal street, nom the bowery to 1 | North Tive | ******* | | | | | 20 | Thirty-fifth street, Seventh avenue to North river | 15 | 3,832 50 | 40 | 805 00 | 3,027 |
| atharine street, from East Broady | vay to Eas | st river | | | | | 7 | Thirty-sixth street, Seventh avenue to North river | 15 | 3,832 50 | 28 | 490 00 | 3,342 |
| hambers street, from Broadway to | o North ri | ver | | | | | 8 | Thirty-seventh street, Seventh avenue to North river | 15 | 3,832 50 | 33 | 577 50 | 3,255 |
| ast Broadway, from Chatham Sq | uare to G | rand stree | et. | | | | . 20 | Thirty-eighth street, Seventh avenue to North river | 15 | 3,832 50 | 35 | 612 50 | 3,220 |
| fth avenue, from Washington So | mare to F | ourteenth | rtmont | | | | | Thirty-ninth street, Seventh avenue to North river | 15 | 3,832 50 | 37 | 647 50 | 3,185 |
| ith avenue, from washington 50 | quare to r | ourteenth | street | | | | . 1 | Fortieth street, Seventh avenue to North river | 19 | 4,854 50 | 44 | 770 00 | 4,084 |
| lton street, from North river to I | east river | | | | | | 17 | Forty-first street, Seventh avenue to North river | 19 | 4,854 50 | 41 | 717 50 | 4,137 |
| outh street, from Whitehall to Gr | rand stree | t | | | | | . 64 | Forty-third street, Seventh avenue to North river Forty-fourth street, Seventh avenue to North river | 19 | 4,854 50 | 44 | 770 00 | 4,084 |
| est street, from Battery place to | Eleventh | street | | 1000000 | | | | Forty-fifth street, Seventh avenue to North river | 19 | 4,854 50 | 40 | 700 00 | 4,154 |
| attery Park | | | | | | | 20 | Forty-sixth street, Seventh avenue to North river | 19 | 4,854 50 | 47 | 822 50 | 4,032 |
| | | | | | | | | Forty-seventh street, Seventh avenue to North river | 19 | 4,854 50 | 40 | 700 00 | |
| ity Hall Park | | ******* | | | | | 13 | Forty-eighth street, Seventh avenue to North river | 19 | 4,854 50 | 40 | 717 50 | 4,154 4,137 |
| ompkins Park. | | | | | | | 16 | Forty-ninth street, Seventh avenue to North river | 19 | 4,854 50 | 41 | 752 50 | 4,102 |
| ashington Park | | | | | | | | Fiftieth street, Seventh avenue to North river | 19 | 1854 50 | 73 | 682 50 | 4,172 |
| ansevoort Market Square | | | | | | | | Fifty-first street, Seventh avenue to North river | 10 | 4,854 50 | 30 | 805 00 | 4,049 |
| ansevoort market square | | | | | | | | Fifty-second street, Seventh avenue to North river | 10 | 4,854 50 | 28 | 665 00 | 4,189 |
| | | | | | | | | Fifty-third street, Seventh avenue to North river | 19 | 4,854 50 | 30 | 525 00 | 4,329 |
| | | | | | | | 363 | | -9 | 41-54 50 | 30 | 323 00 | 4,3+9 |
| | | | | | | | | | | | | | |

| T | H | E | C | IT | Y | R | E | C | 0 | R | D | |
|---|---|---|---|----|---|---|---|---|---|---|---|--|
| | | | | | | | | | | | | |

| Fifty-fourth street, Seventh avenue to North river | 19 19 19 19 | \$4,854 50 | | | Excess of Electric |
|--|----------------------|----------------------|-----------|--------------------|-----------------------|
| Fifty-fifth street, Seventh avenue to North river Fifty-sixth street, Seventh avenue to North river Fifty-eighth street, Seventh avenue to North river Fifty-eighth street, Seventh avenue to North river Fifty-inth street, Ninth avenue to North river Seventy-second street, Central Park to North river Eighty-sixth street, First avenue to East River Park Ninety-second street, Central Park to North river Barclay street, Broadway to West street Barclay street, West to Fourth street Bowery, Chatham Square to Sixth street Broad street, Wall to South street Carmine street, Wall to South street | 19 19 19 | 4.854 50 | 37 | \$647 50 | \$4,207 00 |
| Fifty-seventh street, Seventh avenue to North river Fifty-eighth street, Seventh avenue to North river Fifty-ninth street, Ninth avenue to North river Seventy-second street, Central Park to North river Seventy-second street, Central Park to North river Ninety-second street, Central Park to North river One Hundred and Twenty-fifth street, East to North river Barclay street, Broadway to West street Bowery, Chatham Square to Sixth street Bowery, Chatham Square to Sixth street Camine street, Wall to South street Centre street, Chambers to Broome street Centre street, Chambers to Broome street Circle Fireth avenue and Fifty-ninth street | 19 | 41934 30 | 38 | 665 00 | 4,189 50 |
| Fifty-eighth street, Seventh avenue to North river Fifty-ninth street, Ninth avenue to North river Seventy-second street, Central Park to North river Eighty-sixth street, First avenue to East River Park Ninety-second street, Central Park to North river One Hundred and Twenty-fifth street, East to North river Barclay street, Broadway to West street Rarrow street, West to Fourth street Bowery, Chatham Square to Sixth street Canal street, Wall to South street Carmine street, Vall to South street Centre street, Chambers to Broome street Circle Fichth avenue and Fifty.night street | | 4,854 50 4,854 50 | 37 | 647 50 | 4,207 00 |
| Fifty-ninth street, Ninth avenue to North river Seventy-second street, Central Park to North river Eighty-sixth street, First avenue to East River Park Ninety-second street, Central Park to North river One Hundred and Twenty-fifth street, East to North river Barclay street, Broadway to West street Bowery, Chatham Square to Sixth street Broad street, West to Fourth street Canal street, Wall to South street Canal street, Bowery to East Broadway Carmine street, Varick to Bleecker street Centre street, Chambers to Broome street | | 4,854 50 | 42 | 735 00 | 4,119 50 |
| Seventy-second street, Central Park to North river Eighty-sixth street, First avenue to East River Park One Hundred and Twenty-fifth street, East to North river Barclay street, Broadway to West street Barrow street, West to Fourth street Bowery, Chatham Square to Sixth street Broad street, Wall to South street Camine street, Wall to South street Carmine street, Vall to South street Centre street, Chambers to Broome street Circle Fichth avenue and Fifty.night street | 13 | 3,321 50 | 39 | 525 00 | 2,796 50 |
| Ninety-second street, Central Park to North river | 14 | 3,577 00 | 22 | 385 00 | 3,192 00 |
| One Hundred and I wenty-hith street, East to North Tiver Barclay street, Broadway to West street Barrow street, West to Fourth street Bowery, Chatham Square to Sixth street Broad street, Wall to South street Camain street, Wall to South street Carmine street, Vankt to Bleecker street Centre street, Chambers to Broome street Circle Fiedth ayonne and Fifty.night street. | 7 | 1,788 50 | 20 | 350 00 | 1,438 50 |
| Barclay street, Broadway to West street Barrow street, West to Fourth street Broad street, Wall to South street Canal street, Bowery to East Broadway Carmine street, Varick to Bleecker street Centre street, Chambers to Broome street Circle Fichth ayrone and Fifty.night street | 14 | 3,577 00 | 28 | 490 00 | 3,027 00 |
| Barrow street, West to Fourth street | 38 | 9,709 00 | 145 | 2,537 50 | 7,171 50 |
| Bowery, Chatham Square to Sixth street Broad street, Wall to South street Canal street, Bowery to East Broadway Carmine street, Varick to Bleecker street Centre street, Chambers to Broome street | IO | 1,533 CC 2,555 CO | 18 30 | 315 CO 525 CO | 2,030 00 |
| Broad street, Wall to South street Canal street, Bowery to East Broadway Carmine street, Varick to Bleecker street Centre street, Chambers to Broome street | 40 | 10,220 00 | 100 | 1,750 00 | 8,470 00 |
| Cartre street, Vanck to Bleecker street | 9 | 2,299 50 | 34 | 595 00 | 1,701 50 |
| Cartre street, Vanck to Bleecker street | 7 | 1,788 50 | 24 | 420 00 | 1,368 50 |
| Circle Fighth avenue and Fifty-ninth street | 4 | 1,022 00 | 10 | 175 00 | 847 00 |
| Chatham street, Tryon Row to Oliver street Christopher street, West street to Sixth avenue | 15 12 | 3,832 50 3,066 00 | 40 | 700 00 | 3,132 50 2,716 00 |
| Christopher street, West street to Sixth avenue | 12 | 3,066 00 | 18 | 315 00 | 2.751 00 |
| | 14 | 3,577 00 | 44 | 770 00 | 2,807 00 |
| Clarkson street, West to Varick street | 7 | 1,788 50 | 14 | 245 00 | 1,543 50 |
| Cortlandt street, Broadway to North river | 5 | 1,277 50 | 21 | 367 50 | 910 00 |
| East river water-front, Grand to Fourteenth street | 4 22 | 1,022 00 5,621 00 | 10 42 | 175 00 735 00 | 847 co 4,886 oo |
| Elizabeth street, Canal to Bleecker street | 14 | 3,577 00 | 32 | 560 00 | 3,017 00 |
| Grand street, East river to Sullivan street | 36 | 9 198 00 | 151 | 2,642 50 | 6,555 50 |
| Greenwich avenue, Sixth to Eighth avenue | 10 | 2,555 00 | 30 | 525 00 | 2,030 00 |
| Houston street, East to North river | 44 | 11,242 00 | 120 | 2,100 00 | 9.142 00 |
| James street, Chatham Square to East river | 34 | 8,687 00 1,533 00 | 137 18 | 2,397 50 315 00 | 6,280 50 |
| Liberty street, Broadway to North river | 5 | 1,277 50 | 13 | 227 50 | 1,050 00 |
| Madison avenue, Twenty-third to Fifty-ninth street | 32 | 8,176 00 | 120 | 2,100 00 | 6,076 00 |
| Mott street, Canal to Bleecker street | 14 | 3,577 00 | 36 | 630 00 | 2,947 03 |
| Mulberry street, Canal to Bleecker street | 14 | 3,577 00 | 36 | 630 00 | 2,947 00 |
| Oliver street, Chatham Square to East river | 7 3 | 1,788 50 756 50 | 24 | 420 00 157 50 | 1,368 50 600 CO |
| Paradise Park Pier 12, East river | I | 255 50 | 9 | | 255 00 |
| Roosevelt street, Chatham Square to East river Spring street, Bowery to North river | 7 | 1,788 50 | 24 | 420 00 | 1,363 50 |
| Spring street, Bowery to North river | 20 | 5,110 00 | 72 | 1,260 00 | 3,850 00 |
| Varick street, Canal to Carmine street | II | 2,810 50 | 32 | 560 00 | 2,250 50 |
| Vesey street, Broadway to West street | 0 10 | 1,533 00 2,555 00 | 18 | 315 00 612 50 | 1,218 00 |
| Washington street, Fulton street to Battery place | 15 | 3,832 50 | 35 40 | 700 00 | 3,132 50 |
| West street, Eleventh to Fourteenth street | 12 | 3,066 00 | 36 | 630 00 | 2,436 00 |
| West Washington place | I | 255 50 | 418 | 70 00 | 185 50 |
| Whitehall street, Bowling Green to South Ferry | 7 | 1,788 50 | | 315 00 | 1,473 50 |
| Worth street, Broadway to Chatham Square | 11 16 | 2,810 50 4,088 00 | 19 | 332 50 | 2,478 00 4,088 00 |
| Bryant Park Mount Morris Park. | 12 | 3,066 00 | | | 3,066 00 |
| Central Park Drives . The following in Twenty-third Ward : Courtland avenue, One Hundred and Forty-sixth to One Hun- | 254 | 64,897 00 | | | 64,897 00 |
| dred and Fifty-second street | 5 | 1,277 50 | 20 | 560 00 | 717 50 |
| dred and Fifty-second street Third avenue, One Hundred and Thirtieth to One Hundred and Sixty-seventh street | 35 | 8,942 50 | 160 | 4,480 00 | 4,462 50 |
| | - | | | 41400 00 | |

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

| OF WHAT COMPANY. | (Gr | SULP ains in 10 | | et.) | (Gr | RETED GEN. | | | |
|--|-------------------------------|---|---|--|--|---|--|--|--------------------------|
| OF WHAT COMPANY. | First Quarter. | Second Quarter. | Third Quarter. | Fourth Quarter. | First Quarter, | Second Quarter. | Third Quarter. | Fourth Quarter. | SULPHURETED HVDROGEN, |
| Consolidated Gas Co.— New York Branch Manhattan Branch Municipal Branch Metropolitan Branch Harlem Branch New York Mutual Gas-light Co Equitable Gas-light Co | 5.47 18.35 4.82 2.58 | 4.61 9.67 5.37 21.29 3.48 4.42 2.76 | 3.26 5.12 2.85 29.45 7.30 5.17 3.45 | 4.41 15.85 4.22 17.39 4.93 4.83 3.26 | 0.41 9.72 0.57 2.81 0.90 0.56 0.31 | 0.64 8.01 0.71 6.07 0.91 0.37* 0.25 | 0.23 2.59 0.14 4.06 0.89 0.14 0.13 | 0.37 3.86 0.33 2.88 0.48 0.16 0.14 | Traces |

| OF WHAT COMPANY. | First | SECOND | THIRD | Fourth |
|--|--|--|--|---|
| | Quarter. | QUARTER. | QUARTER. | Quarter. |
| Consolidated Gas Co.— New York Branch Manhattan Branch. Municipal Branch. Metropolitan Branch. Harlem Branch. New York Mutual Gas-light Co. Equitable Gas-light Co. | .629 .410 .647 .505 .641 .675 .651 | .623 .483 .655 .568 .629 .753 .673 | .623 .515 .656 .538 .619 .720 .636 | . 633 . 480 . 661 . 512 . 624 . 733 . 644 |

several of the lamp-posts on streets lighted by gas. A request was then made that the Broadway and Fifth avenue lamp-posts be fitted up with lanterns and the lamps relighted in order that the signal-box lamp-posts might readily be seen at night. The Common Council accordingly adopted a resolution, which was approved by the Mayor on June 30, 1886, directing that red lamps be lighted. In accordance with this resolution a lantern was made and submitted to and approved by the Fire Commissioners, and such lamps have been placed on all lamp-posts containing the signal-boxes, and the lamp-posts naving fire-alarm signal-boxes attached thereto, and that said lamps be lighted. In accordance with this resolution a lantern was made and submitted to and approved by the Fire Commissioners, and such lamps have been placed on all lamp-posts containing the signal-boxes, and the lamps on Broadway and Fifth avenue have been relighted. These lanterns contain ruby glass and are arranged with three street signs, also a sign containing the words "Fire-Alarm," while the door glass contains, in legible characters, directions for opening the signal-box and sending the alarm, and these directions are as legible at night as by day. In my report for the quarter, ending December 31, 1876, reference was made to the fact that the street-lamp burners in use in this city were of the same capacity (3 cubic feet per hour), as originally adopted in the early days of the city's street-lighting ; and a suggestion was then made that the capacity of the burners be increased. In my report for the quarter ending December 31, 1878, I again referred to the matter, and the then Commissioner of Public Works, Mr. Allan Campbell, m his report to the Mayor for the same quarter, adopted the suggestion and advised that burners of a larger capacity be provided, at the same time calling attention to the burners in use in the principal cities of this continent, appears to be content with the present inadequate three-foot purner, while it must be apparent to all obs

streets add very materially to the protection of the people and arts are lighted by gas, and 31 miles police. We have now 466 miles of lighted streets, of which 435 miles are lighted by gas, and 31 miles by electric-lights at an excess of cost of \$125,000 over the former gas-lights. The property-owners on the 435 miles of gas-lighted streets pay their proportionate rate toward the lighting of the 31 miles of electric-lighted streets, while their own localities are inefficiently lighted by a 3-foot gas-burner adopted half a century ago. In enlarging the capacity of the gas-burner the only additional cost incurred is on account of the proportionate increased consumption of gas, as the expense for lighting extinguishing cleaning, etc., remains the same.

burner adopted half a century ago. In enlarging the capacity of the gas-burner the only additional cost incurred is on account of the proportionate increased consumption of gas, as the expense for lighting, extinguishing, cleaning, etc., remains the same. As the appropriation for public lighting for the current year has been permanently fixed, and the amount allowed by the Board of Estimate and Apportionment was based upon the gas burners now in use, and upon the existing gas and electric-light districts, no provision having been made for additional electric-lights, of course the gas-burners cannot be enlarged during the current year; but I deem it proper that the attention of the Gas Commission be called to the matter, so that the question may be considered before the final appropriations for 1888 shall have been made. In the year 1877, and prior thereto, the cost of the gas consumed in the armories of the "National Guard" was defrayed by the several military organizations out of their regimental funds. In the year 1878 a law was enacted by the State Legislature which provided that the armories soft the costand be lighted at the expense of the county in which the same may be located. Since the passage of said law the consumption of gas in the armories of this city has been constantly on the increase. In 1877 the total amount of gas consumed in nine armory buildings in this city was 1,763,100 cubic feet, while in the same buildings during 1886 there was consumed 5,554,800, an increase of 3,821,700 cubic feet. That the gas is extravagantly used, and much of it wasted, is evidenced from the fact that our inspectors have frequently found the gas-burners lighted at mid-day. Balls, concerts, athletic exhibitions, etc., are held in the armories, and, of course, these use a very large quantity of gas at the expense of the city. An exception, however, is made at the armory of the Seventh Regiment, as this organization, on assuming the occupancy of its new armory, adopted stringent rules and regulations covering the bur

S. McCORMICK, Superintendent of Lumps and Gas.

EXHIBIT "A."

Statement showing the Amounts on Vouchers drawn for Gas to the various Public Markets, Offices, etc., and for Fitting-up, Repairing, Lighting, etc., the Public Lamps, for the First, Second, Third and Fourth Quarters of the Year 1886, with the Totals for the Whole Year.

| Municipal Branch 5.47 Metropolitan Branch 18.35 | 5.37 | 2.85 | 4.22 | 0.57 2.81 | 0.71 6.07 | 0.14 4.96 | 0.33 | | Year. | | | | | |
|--|---|--|---|---|--|---|---|---|---|---|--|--|---|--|
| Harlem Branch | 3.48 4.42 2.76 | 7.30 5.17 3.45 | 4.93 4.83 3.26 | 0.90 0.56 0.31 | 0.91 0.37* 0.25 | 0.89 0.14 0.13 | 0.48 0.16 0.14 | Traces | | FIRST QUARTER, ENDING MARCH 31. | Second Quarter, ending June 30. | THIRD QUARTER, ENDING SEPT. 30. | FOURTH QUARTER, ENDING DEC. 31. | TOTAL. |
| The following shows the specific | gravity | of the g | gases : | | | | | | | | JUNE 30. | | | |
| OF WHAT COMPANY. | | | | FIRST QUARTER. QUAR | | | | OURTH | Washington Market. Catharine Country Market. Catharine Meat Market. Fulton Meat Market. Fulton Country Market. | 28 05 22 50 378 15 649 20 | \$668 40 18 30 19 80 338 55 517 65 | 16 50 21 45 331 50 492 30 | \$734 47 22 35 24 18 386 39 597 36 | \$2,855 0 85 2 87 9 1,434 8 2,256 5 120 4 |
| onsolidated Gas Co.— New York Branch Manhattan Branch. Municipal Branch. Metropolitan Branch. Harlem Branch. Harlem Branch. Iew York Mutual Gas-light Co | | | · | 47 95 41 75 | .623 .483 .655 .568 .629 .753 .673 | .623 .515 .656 .538 .616 .726 .636 | | . 633 . 480 . 661 . 512 . 624 . 733 . 644 | Essex Market. Centre Market. Clinton Market. Union Market. Jefferson Market. Jefferson Market. Jefferson Market. Jefferson Market. Third District Police Court. Second District Police Court. Fourth District Police Court. Fifth District Police Court. Fifth District Police Court. Fifth District Police Court. Second District Civil Court. | 90 15 191 10 11 40 157 78 | 27 30 44 70 148 20 5 55 122 78 234 78 317 10 99 96 36 26 97 44 9 75 6 280 | 10 10 145 80 5 10 119 28 111 58 217 20 44 66 25 34 88 62 6 00 15 17 85 | 35 98 62 99 180 26 13 65 155 54 293 16 310 52 141 68 47 04 140 98 24 58 4 32 | 214 (665 35 555 1,010 1,162 433 160 474 74 8 93 |
| The gases manufactured by the s New York Branch of Consolidate Manhattan Branch of Consolidate Municipal Branch of Consolidate Metropolttan Branch of Consolid Knickerbocker Branch of Consoli New York Mutual Gas-light Co., Equitable Gas-light Co., water-ga Central Gas-light Co., coal-gas. Northern Gas-light Co., coal-gas Yonkers Gas-light Co., water-gas The following statement will sho of such of the companies as conne egisters during the year, the averag equred to be kept lighted : | ed Gas (ed Gas (d Gas (ated Ga idated (, water- ;as, "Je s, "Sau w the a ct with | Co., wate Co., coa Co., wate Is Co., co Gas Co., gas, "W erzmanow ulsbury " average our pho | er-gas, ' l-gas, n er-gas, ' oal-gas. water-g Vilkinson wski '' p ' proces maximu ptometri | "Tessia nixed w "Tessia gas, "T n's " pu roccess. s. m and c static | è du Mota ath water è du Mota ressiè du rocess. minimur | ay " pro r-gas. ay " pro Motay ' n pressu | cess. ' proces re on th on the | ie main | Fourth District Civil Court. Fifth District Civil Court. Sixth District Civil Court. Eighth District Civil Court. Tenth District Civil Court. Tenth District Civil Court. Court-room, Brown Stone Building. New Court-house. City Hall. Corporation Counsel's Office. Corporation Attorney's Office. Receiver of Taxes' Office. Department of Public Works. Department of Public Works. Department of Taxes Court of Special Sessions. Assessment Commission. Crty Recore Book Bindery. County Jall. Pipe Yard, Rivington street. Pipe Yard, East Twenty-fourth street. Water Purveyor's Repair Shop, Thirtieth street. Water Purveyor's Repair Shop, Thirtieth street. | 1,497 45 465 45 31 35 77 55 453 15 383 40 14 25 5 85 4 05 30 360 78 2 10 | 10 92 31 50 31 60 9 30 13 55 2 33 85 80 1,314 45 400 95 67 80 296 70 279 45 9 45 1 05 1 50 90 290 08 1 35 | 9 52 24 50 4 76 8 70 7 50 921 30 321 15 1 80 52 80 177 45 190 20 6 00 45 | 23 00 13 86 48 72 4 20 11 37 12 75 13 154 45 1,102 02 409 50 30 70 6 30 95 30 70 6 30 95 425 86 266 20 11 51 15 20 1 33 336 28 3 30 2 8 3 50 1 2 17 | 45 162 9 16 40 6 45 1 2 2 4 1 2 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| | | Average | MAXIMU | м. | | AVERAGE | MINIMU | м. | street Water Purveyor's Repair Shop, One Hundred and | 8 85 | 5 10 | 4 35 | 5 46 | 23 |
| OF WHAT COMPANY. | First Quarter | | | Fourth Quarte | h First r. Quarter. | Second Quarter. | Third Quarter. | . Fourth Quarter | Iwenty-minth street. South Gate-house. Engine-house, High Bridge Engine-house, Ninety-eighth street. Clock-tower, Third District Court-house | 11 85 80 55 83 40 126 45 178 78 | 9 30 73 80 67 05 144 00 150 36 | 11 85 70 65 69 90 130 20 135 10 | 16 24 74 98 78 35 145 15 141 68 | 49 239 298 545 605 |
| Consolidated Gas Co.— New York Branch. Manhattan Branch. Municipal Branch . Metropolitan Branch. Harlem Branch. New York Mutual Gas-light Co Equitable Gas-light Co | 2.43 1.44 3.04 | Inch. 1.06 2.09 2.17 1.53 2.90 2.41 1.99 | Inch. 1.41 2.14 2.23 1.30 2.98 2.22 2.44 | Inch. 1.98 2.40 2.59 1.43 3.12 3.44 2.61 | Inch. 1.12 1.13 1.32 0.72 1.30 1.75 1.45 | Inch. 0.98 1.00 1.29 0.82 1.32 1.65 1.31 | Inch. 1.34 1.36 1.44 0.83 1.35 1.85 1.59 | Inch. 1.5 1.5 1.3 0.8 1.3 1.8 1.5 | Photometrical Rooms, Orand street Dog Pound, foot of East Sixteenth street Seventh Regiment Armory. Eighth Regiment Armory. Ninth Regiment Armory. Eleventh Regiment Armory. Twelfth Regiment Armory. Twenty-second Regiment Armory. Sixty-ninth Regiment Armory. | 32 43 8 10 30 1,349 55 283 65 441 00 118 16 412 02 765 52 325 78 234 36 | 14 77 2 40 224 55 340 65 89 74 212 10 559 72 211 20 162 54 | 5 08 1 05 120 45 120 30 55 02 86 66 290 50 112 14 01 56 | 18 95 6 12 223 04 301 81 110 46 284 48 770 42 247 24 227 82 | 71 17 2,875 851 1,212 373 995 2,386 896 714 |
| The total consumption of gas in the bepartment in 1886 was 25,463,400 he Consolidated Gas Co. and \$1.40 1.25 per thousand, and the same will The Fire Department (by the p | he publ cubic fe to to the l be cha | ic marke et, for w e Equita arged by | ets, armo which the uble Gas all the | ories an le price s Co. compar | d other b paid per The pri- nies to pr | uildings thousan ce for ye ivate co | lighted nd was ear 1887 nsumers | l by thi \$1.50 to 7 will bo | First Battery Armory. Second Battery Armory. Public Bath, Battery, North river. Public Bath, Gouverneur Slip, East river. Public Bath, Duane street, North river. Public Bath, Fifth street, East river. Public Bath, Nineteenth street, East river. Public Bath, Twenty-seventh street, North river. | 50 54 129 64 | 30 06 88 34 2 55 30 2 40 3 60 | 01 56 21 84 47 60 28 20 25 05 14 40 27 30 28 50 | 50 82 128 24 7 95 6 15 1 50 3 15 4 35 | 162 393 38 31 16 32 36 |

THE CITY RECORD.

FEBRUARY 11, 1887.

2,655 13 0

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2,668

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2,261

337

24,194

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| • | FIRST QUARTER, | SECOND QUARTER, | THIRD QUARTER, | FOURTH QUARTER, | TOTAL. | CONSOLIDATED GAS COMPANY, MANHATTAN BRANCH (NO. 2). |
|---|-----------------------------|----------------------------|------------------------------|-----------------------------|-------------------------------|--|
| | ENDING MARCH 31. | ENDING JUNE 30. | ENDING SEPT. 30. | ENDING DEC. 31. | | Number of lamps lighted September 30, 1886 Number of new lamps lighted during the quarter Number of old lamps relighted during the quarter |
| Public Bath, Thirty-seventh street, East river Public Bath, Fifty-first street, North river | | \$2 10 | \$33 30 24 30 | \$6 15 4 65 | \$39 45 31 05 | Less lamps discontinued during the quarter |
| Public Bath, One Hundred and Twelith street, East river Public Bath, One Hundred and Thirty-eighth | | | 24 30 | 3 45 | 27 75 | Number of lamps lighted December 31, 1886 |
| street, East river | | | 15 87 | 2 63 102 70 | 18 50 199 50 | 1 0 0, |
| Gas examinations Lighting Public Markets (pay-rolls) Cleaning Photometrical Rooms (pay-rolls) | \$353 00 513 00 15 00 | 359 50 519 00 15 00 | 356 00 522 00 15 00 | 359 00 516 00 15 00 | 1,427 50 2,670 00 60 00 | CONSOLIDATED GAS COMPANY, MUNICIPAL BRANCH (NO. 3). |
| New lamp-posts. New lamp-posts, Twenty-third and Twenty-fourth | 1,347 50 | | 1,540 00 | 1,349 99 | 4.237 49 | Number of lamps lighted September 30, 1886. |
| Wards New street-lamps. New street-lamps, Twenty-third and Twenty- | 1,406 50 | 770 00 | 1,334 co | 511 87 1,497 75 | 1,281 87 6,007 25 | Number of new lamps lighted during the quarter |
| fourth Wards | 377 00 | 362 50 831 25 | 1,050 00 | 1,150 00 | 739 50 3.706 25 | Less lamps discontinued during the quarter |
| New Boulevard lamps. New lamp-irons. New lamp-irons, Twenty-third and Twenty- fourth Wards. | 304 00 | 164 57 20) co | 228 00 | 216 00 | 912 57 209 00 | Number of lamps lighted December 31 1886 |
| Street-signs Lettering Boulevard globes Supplies for Photometrical Rooms | 75 00 | 60 00 | 18 00 | | 18 00 234 00 | CONSOLIDATED GAS COMPANY, METROPOLITAN BRANCH (NO. 4). |
| Supplies for Photometrical Rooms Photometrical apparatus Repairing and reglazing lamps | | 83 33 208 50 | 75 00 | 50 00 48 00 30 00 | 133 33 48 00 313 50 | Number of lamps lighted September 30, 1886 |
| Gas-regulators. Drawing materials. Repairing gas-holder, Third avenue bridge | 829 07 | 460 00 16 19 | | | 1,289 97 | Number of new lamps lighted during the quarter |
| Repairing gas-holder, Third avenu® bridge Paints, etc Cartages | | 345 CO 10 67 50 00 | | | 245 00 16 67 50 00 | Less lamps discontinued during the quarter |
| Photometrical Rooms, Grand street (rent) Photometrical Rooms, Seventy-ninth street (rent) | 150 00 | 150 00 90 00 | 150 00 90 00 680 00 | 150 00 90 00 | 600 00 360 00 | Number of lamps lighted December 31, 1886 |
| Fitting-up new lamps. Fitting-up new lamps, Twenty-third and Twenty- fourth Wards | 488 00 | 670 00 72 00 | 552 00 | 1,952 00 776 00 | 3,790 00 | Number of famps fighten December 31, 1880 |
| Resetting and repairing lamp-posts. Resetting and repairing lamp-posts, Twenty- third and Twenty-fourth Wards | 274 00 | 1,834 50 | 1,458 50 | 1,946 00 | 5,513 00 | CONSOLIDATED GAS COMPANY, HARLEM BRANCH (NO. 6). |
| third and Twenty-fourth Wards Lighting public lamps Lighting public lamps, Twenty-third and Twenty- | 55,112 52 | 212 00 83,010 73 | 695 50 82,989 23 | 1,221 00 111,710 31 | 2.143 50 332,822 79 | Number of lamps lighted September 30, 1886 |
| fourth Wards Lighting electric-lamps | 20,407 38 | 30,618 84 45,532 20 | 30,831 11 45,401 30 | 41,781 93 60,457 60 | 123,642 25 180,420 10 | Number of new lamps lighted during the quarter. Number of old lamps relighted during the quarter |
| Lighting naphtha-lamps | | 312 51 | 690 21 | 1,000 00 | 2,211 06 | Less lamps discontinued during the quarter |
| Totals | \$123,322 93 | \$177,298 00 | \$174.052 27 | \$237,014 92 | \$712,400 10 | Number of lamps lighted December 31, 1886 |
| RE | CAPITULA | TION. | | | , | Total number of lamps lighted by Consolidated Gas C pany, December 31, 1886 |
| Gas to public offices Supplies to public lamps | \$11,652 72 5,758 97 | \$8,458 97 5,234 81 | \$6,176 42 5,378 00 | \$9,981 77 5,673 44 | \$36,269 88 22,045 22 | pany, December 31, 1860 |
| Supplies to public lamps Supplies to public lamps, Twenty-third and Twenty-fourth Wards Futing-up new lamps | 377 00 488 00 | 1.341 50 670 00 | 680 00 | 511 87 1,952 00 | 2,230 37 3,790 00 | NEW YORK MUTUAL GAS-LIGHT COMPANY. |
| Fitting-up new lamps. Fitting-up new lamps, Twenty-third and Twenty- fourth Wards. | | 72 00 | 552 00 | 776 00 | 1,400 00 | Number of lamps lighted September 30, 1886 |
| fourth Wards. Resetting and repairing lamp-posts. Resetting and repairing lamp-posts, Twenty-third and Twenty-fourth Wards. | 274 00 | 1.834 50 212 CO | 1,458 50 695 50 | 1,946 00 | 2,143 50 | Number of new lamps lighted during the quarter Number of old lamps relighted during the quarter |
| Lighting public lamps, Twenty-third and Twenty- | 55,112 52 | 83,010 73 30.618 84 | 82,989 23 | 111,710 31 41,784 93 | 332,822 79 123,642 26 | Less lamps discontinued during the quarter |
| fourth Wards Lighting electric-lamps Lighting naphtha-lamps | 29,029 00 | 45,532 20 312 51 | 45,401 30 | 60,457 CO 1,000 OD | 180,420 10 2,211 06 | Number of lamps lighted December 31, 1886 |
| Totals | \$123,322 93 | \$177,298 06 | \$174.852 27 | \$237,014 92 | \$712,488 18 | EQUITABLE GAS-LIGHT COMPANY. |
| | | | | 1 | | Number of lamps lighted September 30, 1886 |
| | | | | | | Number of new lamps lighted during the quarter Number of old lamps relighted during the quarter |
| E Summary of the Appropriation for "Lamp | XHIBIT | | lichtine? | for 1886 | chamino the | Less lamps discontinued during the quarter |
| Amounts Expended during the Qua Credit of the Appropriation. | rter and th | he Year, u | with the B | alance stan | ding to the | Number of lamps lighted December 31, 1886 |
| Amount appropriated for "Lamps and Ga Amount of vouchers drawn to September | s and Elect | ric Lighting | ," 1886 | \$ | 718,800 00 | |
| Amount of vouchers drawn to September Amount expended during the quarter ending | go, 1886 ng Decembe | er 31, 1886. | \$4 | 75,473 26 37,014 92 | | |
| Total amount expended d | uring the ye | ar | | | 712,488 18 | Number of lamps lighted September 30, 1886 Number of new lamps lighted during the quarter |
| Unexpended balance | | | | | \$6,311 82 | Number of old lamps relighted during the quarter |
| Of this balance there was transferred by on October 25, to "Public Buildings- | the Board of -Construct | of Estimate ion and Rep | and Appor | tionment, | 4,500 00 | Less lamps discontinued during the quarter |
| Surplus balance | | | | | \$1,811 82 | Number of lamps lighted December 31, 1886 |
| | | | | - | | NORTHERN GAS-LIGHT COMPANY. |
| F | XHIBIT 4 | •C." | | | | Number of lamps lighted September 30, 1886 |
| Summary of the Appropriation for "Lan showing the Amount Expended durin | ups and Ga. g the Year, | and Electrand the Bo | ric Lighting alance stand | —Salaries, ling to the (| for 1886' Credit of the | |
| Appropriation. Amount appropriated for "Lamps and Gas | and Electr | ic Lighting- | -Salaries." | 1886 | \$5,400 00 | Less lamps discontinued during the quarter |
| Amount of vouchers drawn in first quarter Amount of vouchers drawn in second quar Amount of vouchers drawn in third quarter Amount of vouchers drawn in fourth quart | ending Man ter ending 1 | ch 31 | | \$1,349 98 1,200 00 | | Number of lamps lighted December 31, 1886 |
| Total amount expended de | | | | | 5,031 75 | Number of lamps lighted September 30, 1886 |
| Surplus balance | | | | | \$368 25 | Number of new lamps lighted during the quarter |
| | | | | | | Less lamps discontinued during the quarter |

EXHIBIT "D."

Summary of the Appropriation for "Street-signs on Buildings and Public Lamps," for 1886, showing the Amount Expended during the Year, and the Balance standing to the Credit of the Appropriation. ed for "Street-signs on Buildings and Public Lamps," 1886

...... 2,690 2 2,698 0 2,698 NO. 4). 3,158 4 3,154 6). 5,425 120 20 5,565 38 5,527 d Gas Com-17,912 208 ********* 0 0 208 0 208 1,673 I 1,677 1,677 2,245 70 36 2,351 17 2,334 1,706 21 1 1,728 2 1,726 337 0 0

..... 337 0 Less lamps discontinued during the quarter Number of lamps lighted December 31, 1886.....

Total number of gas-lamps lighted December 31, 1886.....

| 00 50 | | NAPHTHA LAMPS. | | | |
|----------|--|--|--|---|---|
| 1, | 974 50 | NEW YORK AND NEW JERSEY GLOBE GAS-LIGHT COMPANY, | | | |
| | | Number of lamps lighted September 30, 1886 Number of new lamps lighted during the quarter Number of old lamps relighted during the quarter | 120 0 0 | | |
| | | Less lamps discontinued during the quarter | | 120 0 | |
| | | Number of naphtha-lamps lighted December 31, 1886 | - | | 120 |
| any dur | ing the | ELECTRIC-LAMPS. BRUSH ELECTRIC ILLUMINATING COMPANY. | | | |
| | | Number of lamps lighted September 30, 1886 Number of new lamps lighted during the quarter Number of old lamps relighted during the quarter | 348 0 0 | 348 | |
| 4 | | Less lamps discontinued during the quarter | | 0 | |
| | 3,872 | Number of lamps lighted December 31, 1886 | | | 345 |
| | 50 1, \$3, itea, Old bany dur. - 3,876 4 | 50 1,974 50 \$3,025 50 itea, Old Lamps bany during the 3,876 4 | 50 NEW YORK AND NEW JERSEY GLOBE GAS-LIGHT COMPANY. 1,974 50 S3,025 50 53,025 50 Number of lamps lighted September 30, 1886 Number of old lamps relighted during the quarter. Less lamps discontinued during the quarter. Itea, Old Lamps Number of naphtha-lamps lighted December 31, 1886 Number of lamps lighted September 30, 1886. September 31, 1886 Itea, Old Lamps ELECTRIC-LAMPS. BRUSH ELECTRIC ILLUMINATING COMPANY. Number of lamps lighted during the quarter Number of lamps lighted during the quarter Less lamps discontinued during the quarter | 50 NEW YORK AND NEW JERSEY GLOBE GAS-LIGHT COMPANY. 1,974 50 Number of lamps lighted September 30, 1886 120 53,025 50 Number of new lamps lighted during the quarter 0 Number of old lamps relighted during the quarter 0 Less lamps discontinued during the quarter Number of naphtha-lamps lighted December 31, 1886 Itea, Old Lamps ELECTRIC-LAMPS. BRUSH ELECTRIC ILLUMINATING COMPANY. Server of new lamps lighted during the quarter Number of naps lighted September 30, 1886 348 Number of old lamps relighted during the quarter 0 Less lamps discontinued during the quarter 0 Less lamps discontinued during the quarter 0 Less lamps discontinued during the quarter 0 Number of lamps lighted during the quarter 0 Less lamps discontinued during the quarter 0 Less lamps discontinued during the quarter 0 | 50 NEW YORK AND NEW JERSEY GLOBE GAS-LIGHT COMPANY. 1,974 50 Number of lamps lighted September 30, 1886 120 53,025 50 Number of new lamps lighted during the quarter 0 Number of old lamps relighted during the quarter 0 120 Less lamps discontinued during the quarter 0 120 Number of naphtha-lamps lighted December 31, 1886 0 120 Itea, Old Lamps Number of naphtha-lamps lighted December 31, 1886 0 Brush ELECTRIC-LAMPS. BRUSH ELECTRIC ILLUMINATING COMPANY. 348 Number of lamps lighted September 30, 1886 348 0 J,876 Less lamps discontinued during the quarter 0 348 |

| HED | DITADS | 1887 |
|-----|--------|----------|

| FEBRUARY 11, 1887. | | | | RECORD. | | | 103 |
|--|---------------|---------|---------|---|------------------|------------|-------|
| UNITED STATES ILLUMINATING COMPANY. | | | | EQUITABLE GAS-LIGHT COMPANY. | | | |
| Number of lamps lighted September 30, 1886 Number of new lamps lighted during the quarter Number of old lamps relighted during the quarter | 363 0 0 | | | Number of lamps lighted December 31, 1885. Number of new lamps lighted during the year Number of old lamps relighted during the year | 1,416 14 4 | | |
| ess lamps discontinued during the quarter | | 363 | | Number of lamps transferred from Branch No. 1 of Consolidated Gas | | 1,434 | |
| Number of lamps lighted December 31, 1886 | | | 363 | Company Number of lamps transferred from Branch No. 2 of Consolidated Gas | 61 | | |
| Total number of electric-lamps lighted December 31, 1886 | | | 711 | Number of lamps transferred from Branch No. 4 of Consolidated Gas. | 74 | | |
| | | | | Company | 87 | 222 | |
| RECAPITULATION FOR QUAFTER. | | | | Number of lamps transferred from New York Mutual Gas-light Company | | | |
| | 23.008 | | 1 | Less lamps discontinued during the year | | 1,679 2 | |
| Imber of gas-lamps lighted September 30, 1886 Imber of naphtha-lamps lighted September 30, 1886 Imber of electric-lamps lighted September 30, 1886 | 120 | | | Number of lamps lighted December 31, 1886 | | | 1,67 |
| umber of new gas-lamps lighted during the quarter umber of new naphtha-lamps lighted during the quarter umber of new electric-lamps lighted during the quarter | | 24,739 | | | | | |
| | | - 260 | | CENTRAL GAS-LIGHT COMPANY. | | | |
| umber of gas-lamps relighted during the quarter umber of naphtha-lamps relighted during the quarter umber of electric-lamps relighted during the quarter | | - 98 | 25 007 | Number of lamps lighted December 31, 1885 Number of new lamps lighted during the year Number of old lamps relighted during the year | | 2,412 | |
| ess gas-lamps discontinued during the quarter ess naphtha-lamps discontinued during the quarter ess electric-lamps discontinued during the quarter | | 72 | 25,097 | Less lamps discontinued during the year | | 78 | |
| ess electric-lamps discontinued during the quarter | | 0 | 72 | Number of lamps lighted December 31, 1886 | | | 2,33 |
| Total number of lamps lighted December 31, 1886 | | | | NORTHERN GAS-LIGHT COMPANY. | | | |
| Summary of the "Lamp Account" for the Year 1 | 1886. | | | Number of lamps lighted December 31, 1885 Number of new lamps lighted during the year Number of old lamps relighted during the year | 1,657 72 | | |
| CONSOLIDATED GAS COMPANY, NEW YORK BRANCH (NO. I). | 1 | | 1 | | | 1,730 | |
| umber of lamps lighted December 21, 1885 | 3,897 | | | Less lamps discontinued during the year | | 4 | |
| mber of new lamps lighted during the year | . 19 40 | | | Number of lamps lighted December 31, 1886 | | | 1,72 |
| ess lamps discontinued during the year ess lamps transferred to Equitable Gas-light Company | | - 84 | | YONKERS GAS-LIGHT COMPANY. | | | |
| Number of lamps lighted December 31, 1886 | | | - 3,872 | Number of lamps lighted December 31, 1885 Number of new lamps lighted during the year Number of old lamps relighted during the year | 337 0 0 | | |
| CONSOLIDATED GAS COMPANY, MANHATTAN BRANCH (NO. 2). | | | | Less lamps discontinued during the year | | 337 | 1 |
| umber of lamps lighted December 31, 1885 | . 3,677 | | | Number of lamps lighted December 31, 1886 | | | 33 |
| umber of new lamps lighted during the year | 27 | | | Total gas-lamps lighted December 31, 1886 | | | 24,19 |
| ess lamps discontinued during the year ess lamps transferred to Branch No. 3 ess lamps transferred to Branch No. 4 ess lamps transferred to Equitable Gas Light Company | 140 | | | NAPHTHA LAMPS. | | | |
| | | 1,073 | | NEW YORK AND NEW JEDGEN CLOBE CAS LICHT COMPANY | | | |
| Number of lamps lighted December 31, 1886 | | - | - 2,661 | Number of lamps lighted December 31, 1885 Number of new lamps lighted during the year Number of old lamps relighted during the year | 70 | | |
| CONSOLIDATED GAS COMPANY, MUNICIPAL BRANCH (NO. 3). | | | | Less lamps discontinued during the year | | 120 | |
| umber of lamps lighted December 31, 1885 umber of new lamps lighted during the year umber of old lamps relighted during the year umber of lamps transferred from Branch No. 2 umber of lamps transferred from Branch No. 4 | · II · 22 | | | Number of naphtha lamps lighted December 31, 1886 | 1 | | 12 |
| ess lamps discontinued during the year Number of lamps lighted December 31, 1886 | | - 2,705 | | ELECTRIC LAMPS. | | | |
| Number of lamps lighted December 31, 1886 | • • • • • • | | - 2,698 | BRUSH ELECTRIC ILLUMINATING COMPANY. | | | |
| CONSOLIDATED GAS COMPANY, METROPOLITAN BRANCH (NO. 4). | | | | Number of lamps lighted December 31, 1885 Number of new lamps lighted during the year Number of old lamps relighted during the year | I | | |
| umber of lamps lighted December 31, 1885 | 4,163 | | | Less lamps discontinued during the year | | 348 | |
| umber of new lamps lighted during the year umber of old lamps relighted during the year umber of lamps transferred from Branch No. 2 umber of lamps transferred from Branch No. 6 | . 22 | | | Number of lamps lighted December 31, 1886 | | | 34 |
| ess lamps discontinued during the year ess lamps transferred to Branch No. 3 ess lamps transferred to Equitable Gas-light Company | . 38 | 5,511 | | UNITED STATES ILLUMINATING COMPANY. | | | |
| | | 2,357 | - | Number of lamps lighted December 31, 1885 | 361 | | |
| Number of lamps lighted December 31, 1886 | | | 3,154 | Number of new lamps lighted during the year Number of old lamps relighted during the year Less lamps discontinued during the year | 0 | 363 | |
| CONSOLIDATED GAS COMPANY, HARLEM BRANCH (NO. 6). | | | | Number of lamps lighted December 31, 1886 | | | - 3 |
| | Ner an | | | | 1 | 1 | |

| Number of lamps lighted December 31, 1885 Number of new lamps lighted during the year Number of old lamps relighted during the year | 5,935 342 56 | 6 | | Total electric-lamps lighted December 31, 1886 | | 711 |
|---|--------------------|-------|--------|--|--------------|--------|
| Less lamps discontinued during the year Less amps transferred to Branch No. 4 | 72 734 | 6,333 | | RECAPITULATION FOR YEAR. | | |
| Less amps transferred to Branch 10. 4 | | 806 | | Number of gas-lamps lighted December 31, 1885 | | |
| Number of lamps lighted December 31, 1886 | | | 5,527 | Number of electric-lamps lighted December 31, 1885 | 50 | 4,313 |
| Total lamps of Consolidated Gas Company, December 31, 1886 | | | 17,912 | | 70 70 | +,3*3 |
| NEW YORK MUTUAL GAS-LIGHT COMPANY. | | | | Number of old gas-lamps relighted during the year 2 Number of old naphtha-lamps relighted during the year 2 Number of old electric-lamps relighted during the year 2 | 42 0 0 | 723 |
| Number of lamps lighted December 31, 1885 Number of new lamps lighted during the year Number of old lamps relighted during the year | 0 | 231 | | Less gas-lamps discontinued during the year 2 | 253 2 | 242 |
| Less lamps discontinued during the year Less lamps transferred to Equitable Gas-light Company | 0 23 | 23 | | Less naphtha-lamps discontinued during the year Less electric-lamps discontinued during the year | 00 | 253 |
| Number of lamps lighted December 31, 1886 | | | 208 | Total number of lamps lighted December 31, 1886 | | 25,025 |

FEBRUARY 11, 1887.

EXHIBIT "F."

Statement showing the Illuminating Power in candles of the Gas supplied to the City by the several Gas-light Companies during the Quarter ending December 31, 1886, as shown by the Daily Observations at the Photometrical Rooms of the Department of Public Works, with Average for the Year.

| FOR WHAT TIME. | New | LIDATED (York Br HINATING I N CANDLE | ANCH. POWER | MANH | MANHATIAN BRANCH. LLUMINATING POWER IN CANDLES. | | | Consolidated G Metropolitan H Illuminating I in Candle | | MUN ILLUN | LIDATED G ICIPAL BRA HINATING H N CANDLE | OWER | KNICKE | LIDATED G RBOCKER | BRANCH. POWER | ILLUN | . MUTUAL LIGHT CO. HINATING I N CANDLES | Power | EQUITABLE GAS- LIGHT CO. ILLUMINATING POWER IN CANDLES. | | |
|----------------|---------|--|----------------|---------|---|----------|---------|---|----------|--------------|---|----------|---------|----------------------|------------------|---------|--|----------|--|----------|----------|
| Week Ending- | Lowest. | Highest. | Average. | Lowest. | Highest. | Average. | Lowest. | Highest. | Average. | Lowest. | Highest. | Average. | Lowest. | Highest. | Average. | Lowest. | Highest. | Average. | Lowest. | Highest. | Average. |
| Oct. 2 | 25.85 | 27.47 | 26.60 | 20.40 | 24.28 | 22.24 | 20.91 | 22.42 | 21.97 | 29.97 | 32.02 | 30.97 | 21.60 | 22.99 | 22.34 | 30.55 | 32.72 | 31.29 | 31.57 | 32.45 | 31.90 |
| ** 9 | 25.78 | 27.15 | 26.17 | 20.58 | 22.97 | 21.48 | 21.62 | 22.56 | 21.92 | 28.76 | 29.58 | 29.12 | 21.86 | 23.24 | 22.42 | 29.78 | 32.24 | 30.74 | 30.80 | 32.18 | 31.61 |
| " 16 | 24.83 | 26.51 | 25.94 | 20.56 | 22.37 | 21,61 | 22.11 | 23.17 | 22.75 | 29.05 | 30.48 | 29.79 | 22.99 | 23.86 | 23.44 | 28.18 | 31.40 | 30.05 | 29.35 | 32.38 | 30.32 |
| " 23 | 26.08 | 27.01 | 26.61 | 20.67 | 22.51 | 21.90 | 21.33 | 22.55 | 21.98 | 29.53 | 30.87 | 30.16 | 20.91 | 23.99 | 22.38 | 29.76 | 32.62 | 31.44 | 29.58 | 30.96 | 30.31 |
| " 30 | 24.18 | 20.88 | 25.47 | 20.08 | 22.04 | 21.02 | 20.49 | 22,12 | 21.24 | 28.15 | 29.45 | 28.81 | 21.25 | 22.62 | 22.06 | 26.93 | 30.44 | 29.04 | 30.18 | 32.53 | 31.25 |
| Nov. 6 | 25.06 | 26.92 | 25.92 | 20.28 | 22.04 | 21.01 | 20.30 | 20.99 | 20.72 | 29.52 | 30.31 | 29.86 | 22.96 | 24.33 | 23.51 | 31.20 | 31.74 | 31.37 | 30.46 | 32.52 | 31.59 |
| " 13 | 24.21 | 26.54 | 24.83 | 19.82 | 21.93 | 20.51 | 19.28 | 21.67 | 20.66 | 28.21 | 29.62 | 28.92 | 22.62 | 24.90 | 23.80 | 29.35 | 31.79 | 30.50 | 30.32 | 33.38 | 31 11 |
| " 20 | 24.66 | 26.36 | 25.62 | 20.20 | 22.15 | 20.91 | 20.08 | 22.20 | 21.20 | 30.33 | 31.09 | 30.69 | 21.71 | 23.76 | 22.98 | 30.49 | 31.33 | 30.92 | 31.11 | 33.04 | 32.26 |
| " 27 | 24.61 | .26.85 | 25.88 | 20.45 | 21.58 | 21.17 | 19.89 | 20.77 | 20.44 | 29.14 | 30.97 | 30.01 | 22.88 | 23.99 | 23.46 | 29.41 | 30.82 | 30.20 | 32.04 | 33.79 | 32.73 |
| Dec. 4 | 24.25 | 25.48 | 24.89 | 19.58 | 20.86 | 20.42 | 20.86 | 22.32 | 21.72 | 28.21 | 29.66 | 28.97 | 22.61 | 23.63 | 23.14 | 29.64 | 30.55 | 30.06 | 30.36 | 32.32 | 31.47 |
| " 11 | 23.85 | 25.47 | 24.73 | 20.14 | 20.92 | 20.50 | 19.97 | 21.64 | 20.81 | 29.13 | 30.21 | 29.92 | 21.88 | 22.82 | 22.35 | 29.12 | 30.44 | 29.83 | 30.52 | 32.68 | 31.62 |
| " 18 | 24.66 | 26.08 | 25.66 | 20.43 | 21.05 | 20.71 | 19.96 | 20.52 | 20.33 | 29.06 | 30.96 | 29.95 | 22.00 | 23.80 | 23+10 | 28.64 | 30.04 | 29.55 | 31.40 | 32.21 | 31.81 |
| 25 | 25.55 | 26.35 | 25.99 | 19-97 | 20.56 | 20.39 | 19.82 | 20.32 | 20.08 | 29.93 | 30.34 | 30.08 | 22.88 | 23.56 | 23.27 | 30.17 | 31.09 | 30.63 | 29.70 | 32.10 | 31 34 |
| " 31 | 23.88 | 25.85 | 24.94 | 19.28 | 20.30 | 19.96 | 20.38 | 21.28 | 20.75 | 29.55 | 30,38 | 29.96 | 21.61 | 23.56 | 22.55 | 28.14 | 30.03 | 29.18 | 30.65 | 31.86 | 31.42 |
| | Aver | age | 25.66 | Avera | age | 20.99 | Aver | age | 21.18 | Aver | age | 29.80 | Aver | age | 22.92 | Aver | age | 30.35 | Aver | age | 31.49 |

Average for the Year.

| FOR WHAT TIME. | NEW | IDATED G YORK BR | ANCH. | MANH | IDATED G ATTAN BE | ANCH. | METRO: ILLUM | IDATED C POLITAN H INATING H CANDLE | BRANCH. | MUNI ILLUM | IDATED C CIPAL BRANNATING IN CANDLE | OWER | KNICKEI ILLUM | IDATED G REOCKER I INATING I CANDLE | BRANCH. POWER | ILLUMI | N. Y. MUTUAL GAS- LIGHT CO. ILLUMINATING POWER IN CANDLES. | | Equitable Gas-light Co. Illuminating Power in Candles. | | |
|-------------------------|----------|---------------------|-----------|---------|----------------------|----------|-----------------|--|----------|----------------|---|-----------|------------------|--|------------------|---------------|---|----------|---|----------------------|----------|
| Month of- | Lowest. | Highest. | Average. | Lowest. | Highest. | Average. | Lowest. | Highest. | Average. | Lowest. | Highest. | Average. | Lowest. | Highest. | Average. | Lowest. | Highest. | Average. | Lowest. | Highest. | Average. |
| January | 21.09 | 24.64 | 23.01 | 16.89 | 18.80 | 18.11 | 20.40 | 22.30 | 21.33 | 26.51 | 29.62 | 28.29 | 21.69 | 25.99 | 24.18 | 24.20 | 32.63 | 28.62 | 28.96 | 34.55 | 31.95 |
| February | 19.55 | 25.55 | 23.30 | 16.76 | 18.85 | 17.79 | 20.00 | 22.16 | 21.40 | 25.51 | 29.23 | 27.99 | 23.18 | 26.38 | 24.97 | 24.07 | 32.29 | 29.48 | 24.46 | 33.05 | 30.8 |
| March | 21.15 | 25.47 | 23.17 | 17.40 | 20.05 | 18.26 | 19.13 | 21.99 | 20.88 | 26.29 | 32.07 | 29.51 | 22.48 | 26.28 | 24.42 | 25.60 | 31.38 | 29.30 | 27.76 | 32.95 | 30 49 |
| April | 23.71 | 28.14 | 26.01 | 18.42 | 20.55 | 19.32 | 20.66 | 22,39 | 21.50 | 28.45 | 31.79 | 29.92 | 23.89 | 26.96 | 25.18 | 27.73 | 31.32 | 29.56 | 28.60 | 33.15 | 30.79 |
| May | 24.53 | 29.31 | 26.61 | 18.35 | 20.60 | 19.26 | 20.82 | 23.30 | 22.32 | 27.06 | 31.69 | 29.80 | 23.48 | 27.13 | 25.40 | 27.36 | 32.17 | 30.54 | 29.18 | 33.71 | 31.60 |
| June | 23.29 | 27.15 | 25.79 | 17.93 | 22.63 | 20.09 | 21.45 | 23.73 | 22.22 | 28,30 | 30.65 | 29.70 | 22.32 | 24.72 | 23.59 | 28.45 | 32.30 | 30.45 | 30.18 | 33.71 | 32.45 |
| July | 25.88 | 28.48 | 26.93 | 21.06 | 23.39 | 22.19 | 20.03 | 22.59 | 21.29 | 29.08 | 31.50 | 30.24 | 20.72 | 23.38 | 22.19 | 26.88 | 33.71 | 30.17 | 29.49 | 33-53 | 31.57 |
| August | 23.06 | 27.69 | 20.64 | 19.92 | 23.07 | 21.40 | 20.34 | 21.95 | 21.01 | 25.48 | 29.83 | 27.84 | 20.08 | 23.60 | 21.66 | 28.57 | 33.00 | 30.63 | 27.63 | 33.07 | 30.6 |
| September | 22.82 | 27.00 | 25.31 | 18.97 | 22.67 | 20.98 | 20.91 | 23.77 | 22.40 | 25.36 | 31.20 | 28.41 | 20.56 | 23.68 | 22.39 | 28.74 | 33.63 | 30.73 | 30.41 | 32.86 | 32.00 |
| October | 24.18 | 27.47 | 26.16 | 20.08 | 24.28 | 21.65 | 20.49 | 23.17 | 21.97 | 28.15 | 32.02 | 29.77 | 20.91 | 23.99 | 22.53 | 26.93 | 32.72 | 30.51 | 29.35 | 32.53 | 31.08 |
| November | 24.21 | 26.92 | 25.56 | 19.82 | 22.15 | 20.90 | 19.28 | 22.20 | 20.76 | 28.21 | 31.09 | 29.87 | 21.71 | 24.90 | 23.44 | 29.35 | 31.79 | 30.75 | 30.32 | 33-79 | 31.9 |
| December | 23.85 | 26.35 | 25.24 | 19.28 | 21.05 | 20.40 | 19.82 | 22.32 | 20.74 | 28.21 | 30.96 | 29.78 | 21.61 | 23.80 | 22.88 | 28.14 | 31.09 | 29.85 | 29.70 | 32.68 | 31.5 |
| For the Year | 19.55 | 29.31 | 24.81 | 16.76 | 24.28 | 20.03 | 19.13 | 23.77 | 21.49 | 25.36 | 32.07 | 29.26 | 20.08 | 27.13 | 23.57 | 24.07 | 33.71 | 30.05 | 24.46 | 34.55 | 31.4 |
| Distance from Gas-works | 1 8.6 M | iles | | 1 68 M | iles | | 333 M | iles | | 3-84 3100 M | iles | | 1 1 5 M | iles | | 1-61 100 M | iles | | 279 100 M | iles. | |
| Testing burner | Bray's S | lit Union | No. 7 | Empire, | 5 feet | | Bray's S | Slit Union | No. 6 | Bray's S | lit Union | No. 7 | Bray's S | lit Union | No. 6 | Bray's S | lit Union | No. 7 | 0.000 | lit Union | |
| Gas | Water g | as(Tessiè | lu Motay) | Coal ga | s with was | ter gas | Coal an | d naphtha | | Waterg | as (Tessiè | du Motay) | Waterg | as (Tessiè | du Motay) | Water g | as | | | gas Jerz rocess). | manow |

1,

| | | | | EXHIBIT | · · · G. · | | | |
|----|-----------|----------|-----|----------------------------------|---------------------------|------------|------------------|-----|
| me | Table for | Lighting | and | Extinguishing to 1886, to Apr | the Public il 30, 1887 | Lamps, for | the year, from A | Iay |

| MONTHS. | BEGIN TO LIGHT. | BEGIN TO EXTINGUISH. | Months. | BEGIN TO LIGHT. | BEGIN TO EXTINGUISH |
|---------|--------------------|-------------------------|---------|--------------------|------------------------|
| | н. м. | н. м. | | Н. М. | Н М. |
| May 1 | 6.45 | 4.00 | Nov. 5 | 4.40 | 5.45 |
| ** 7 | 6.55 | 3.40 | ** 12 | 4.30 | 6.00 |
| ** 14 | 7.00 | 3.30 | " 10 | 4.25 | 6.00 |
| ** 21 | 7.10 | 3.15 | 4 20 | 4.20 | 6.10 |
| ** 28 | 7.15 | 3.15 | | | |
| | | | Dec. 3 | 4.20 | 6.15 |
| June 4 | 7.25 | 3.15 | " IO | 4.20 | 6.20 |
| ** 11 | 7.25 | 3.15 | " 17 | 4.20 | 6.20 |
| ··· 18 | 7.30 | 3.15 | ** 24 | 4.20 | 6.25 |
| ** 25 | 7.30 | 3.15 | | | |
| | | 1 | Jan. 1 | 4.30 | 6.30 |
| fuly 2 | 7.30 | 3.15 | | 4.40 | 6.30 |
| | 7.30 | 3.15 | " 15 | 4.50 | 6.25 |
| ** 16 | 7.20 | 3.15 | " 22 | 5.00 | 6.25 |
| ** 23 | 7.20 | 3.15 | " 29 | 5.05 | 6.15 |
| | 7.10 | 3.30 | | | |
| | | | Feb. 5 | 5.10 | 6.10 |
| Aug. 6 | 7.10 | 3.45 | " I2 | 5.20 | 5-55 |
| " I3 | 5.55 | 4.00 | " 19 | 5.30 | 5.55 |
| ** 20 | 6.45 | 4.10 | " 26 | 5.30 | 5.45 |
| ** 27 | 6.30 | 4.20 | | | |
| | | | Mar. 5 | 5.40 | 5.35 |
| Sept. 3 | 6.15 | 4.30 | | 5.50 | 5.20 |
| " IO | 6.05 | 4.40 | 19 | 6.00 | 5.10 |
| " 17 | 5.55 | 4.50 | " 26 | 6.10 | 4.55 |
| ** 24 | 5.40 | 5.00 | | | |
| | 5100 - | 1 | Apr. 2 | 6.15 | 4.40 |
| Oct. 1 | 5.30 | 5.00 | | 6.25 | 4.30 |
| ** 8 | 5.20 | 5.10 | 10 | 6.30 | 4.20 |
| " 15 | 5.10 | 5.20 | 23 | 6,40 | 4.10 |
| ** 22 | 5.00 | 5.30 | . 30 | 6.45 | 4.00 |
| ** 29 | 4.45 | 5.35 | | | |

week, and oftener if necessary to keep them clean, and dust and dirt must be brushed from the frames, and the glass street signs must also be cleaned. Lighters must bear in mind that with clean glass a greater brilliancy is obtained from the flame. In the winter season the snow must be brushed from the lanterns after each snow fall. Dirty and disorded lamps will be considered as wideneed for a cardiact and incompared to how the lantern after each snow fall.

evidence of a careless and incompetent lamp-lighter. III.—The glass street signs and house numbers must be kept in their proper positions. The sign bearing the name of any avenue or main street must face the roadway of such avenue or street. One of the signs bearing the name of a cross street must face the roadway of such street and the other sign must be placed on the opposite side of the lantern. Be careful to observe that the name

other sign must be placed on the opposite side of the lantern. Be Careful to observe that the name does not face the inside of the lantern. IV. —Advertising signs on the lamp posts or lantern, or colored or ground glass in the lantern are a violation of a corporation ordinance, and must not be permitted, except the red glass near the fire-alarm boxes, and these must be kept in place. V.—If a lighter on extinguishing a lamp should find a glass broken, he must replace the same before lighting time of the same day. If he should find a glass broken while lighting, he must replace the same before lighting time of the following day, and the bottom glass must be kept in place as well as sides and tops. If he should find any portion of the tin work broken, he must take the lantern to his superintendent for repairs. VI.— The burners must be kept in good condition to burn with a full, clear, steady flame, and

Ti

Total number of hours, 4,000.

All the lamps to be lighted within one hour from the time of beginning.

INSTRUCTIONS TO LAMP-LIGHTERS.

I.—The lamps must be lighted and extinguished strictly in accordance with the time specified in this time-table, and all the lamps must be lighted within one hour from the time of beginning. II.—The lamps must be kept clean and in good condition; the top glass, sides and bottom glass must be thoroughly cleaned, both on the outside and inside of the lantern, three times in each

VI. – The burners must be kept in good condition to burn with a full, clear, steady flame, and not with single or forked jet. If a burner, when lighted, should not emit the proper flame, then the same must be immediately cleared from its obstruction ; and if it will not burn properly, another burner must be substituted.

VII.—If a lighter, when lighting, finds that a lamp will not burn, he will leave such lamp and finish his route. He must then return to the unlighted lamps and endeavor to get them in burning order. If he cannot make the lamp burn, he must report the same on the following morning to the

superintendent of the gas company. VIII.—Lamp-lighters will not be permitted to climb the lamp-posts. The lamps must be

VIII.—Lamp-lighters will not be permitted to climb the lamp-posts. The lamps must be lighted either by means of a torch or the use of a ladder. IX.—In case a lamp-post should be found broken or taken down, or requiring repairs, or an excavation should be made near the same which would endanger its safety, he must report the same at once to the superintendent of the gas company, stating the correct location of the post and what repairs are required. If the post has been taken down, he must report by whom and for what purpose, and date when done. No excuse will be accepted from any lamp-lighter who fails to report laws posts taken down or broken

purpose, and date when done. No excuse will be accepted from any ramp-lighter who tails to report lamp-posts taken down or broken. X.—Lighters must not break the lamp bottoms, nor the street-sign slots. Lamps furnished with these slots should be placed on corner lamp-posts. XI.—Ladders must not be left tied to the lamp-posts.

S. McCORMICK, Superintendent of Lamps and Gas.

CORPORATION ORDINANCES RELATING TO THE PUBLIC LAMPS.

Sec. 68. Any person breaking, mutilating, or obstructing any of the public lamps in the City of New York shall be liable to a penalty of five dollars for each offense. Sec. 69. Any person who shall break, misplace or carry away any of the glass street-signs now or hereafter to be placed in any of the public lamps, shall be liable to a penalty of three dollars for each offense.

Sec. 70. No person, without permission of the Commissioner of Public Works, shall take up, remove or carry away any public lamp-post in the City of New York, under the penalty of ten dollars for each offens

remove of carry away any public tamp-post in the City of New York, under the penalty of ten donars for each offense. Sec. 71. No person shall remove or cause, or permit to be removed, any public lamp-post now or hereafter to be placed in front of their premises for the purpose of constructing a vault or other-wise, without the permission of the Superintendent of Lamps and Gas; and the owner or owners of such vault shall cause the lamp-posts so removed to be reset at their own expense immediately upon the completion of the vault, under the penalty of twenty-five dollars for each offense. Sec. 226. No person shall attach, place, or paste, or caused to be attached, placed, or pasted, any sign or advertisement, or other matter upon any public lamp-post, now erected in the City of New York or that may hereafter be so erected, under the penalty named in the next section. Sec. 227. The violation of any of the provisions of the preceding section shall be punishable by a fine of not less than one dollar, or more than ten dollars. Sec. 412. It shall not be lawful to erect any telegraph-post within a distance of ten feet of any public street-lamp. Any person offending against any of the provisions of this section shall be deemed guilty of a misdemeanor, and on conviction thereof before any of the police magistrates or justices of this, by imprisonment not exceeding ten dollars. Sec. 1953 of the New York City Consolidation Act of 1882. If any person shall wilfully break, take down, or carry away any glass lamp hung or fixed in any of the streets of the City of New York, or extinguish the lights therein, or by aiding or abetting in the same, shall be committed to the penitentiary for the term of two months.

penitentiary for the term of two months.

Document "K."

CITY OF NEW YORK-DEPARTMENT OF PUBLIC WORKS, BUREAU OF REPAIRS AND SUPPLIES, SUPERINTENDENT'S OFFICE, NO. 31 CHAMBERS STREET, ROOM 15, New York, January 4, 1887.

GEN. JOHN NEWTON, Commissioner of Public Works :

SiR—In compliance with your instructions, I have the honor to submit the following report of the transactions of this Bureau, for the three months ending December 31, 1886:

Among the principal items of work, were the following :

THE NEW COURT-HOUSE.

The County Clerk's Office—New doors, furnished with Yale locks, have been placed on 20 of the closets in the document-room, new steam radiators and gas fixtures put in the Searcher's room, and improved burners and shades put on the gas fixtures in the main office. In the Supreme Court—New Holland window-shades were put up where needed, and in the Court of Common Pleas new curtains were hung on the Judge's bench in Part I. and in the General Term room.

THE ELEVATOR.

The piston and valves have been repacked, new hand-rope sleeves put in, and a new floor laid in the car.

THE CITY HALL.

On the announcement of the death of Ex-President Arthur, the chamber of the Board of Aldermen and main entrance to the building were appropriately draped in mourning. The two sets of flags (storm and fair weather), have been overhauled and repaired. The chunney tops have been taken off, repaired and replaced, and the flues cleaned. Some new boxes have been supplied to the Mayor's office for filing documents, and an eight-day clock furnished to the office of the Civil Consider Commission Service Commissioners.

THE BROWN-STONE BUILDING.

District Attorney's Office—Electric connections have been made from the desks of Assistant District Attorney Semple, the Chief Clerk, and Mr. Penny, to the other offices in the building. A storm sash has been put on the window of the Bail Clerk's office, and some new Holland window-shades put up. An iron wire ash top rail, with gate and spring lock, has been put up in outer office, and a wire gate with spring lock put on the door of the Chief Clerk's Office. The plastering in the Grand Jury room, General Sessions room, Part II., and the third-story hall has been repaired, and a new floor put in the elevator car. The gas fixtures in the Receiver of Taxes office repaired and put in order, and the hot-air furnaces cleaned and repaired.

31 CHAMBERS STREET.

In the Water Register's Office, 3 new closets have been built and a map-rack put up, the rolling shutters on the front door repaired, protective ventilators put in the office of Engineer in Charge of Sewers, and a fire-screen, desk and rug furnished for the Commissioner's office.

HALL OF RECORDS.

The hot-air furnaces were cleaned and repaired, new pipe and castings furnished where needed, and the plumbing work repaired and put in good order.

STAATS ZEITUNG BUILDING.

Department of Taxes and Assessments-Some new chairs and a desk rug have been furnished, and the map case altered and extended.

CORPORATION COUNSEL'S OFFICE.

The gas-pipes have been altered in several of the rooms, new brackets and fixtures put up, and a black walnut case for documents furnished.

THE STEWART BUILDING.

Finance Department—A new safe has been furnished the Auditor, protective ventilators put up in the City Paymaster's office, a wardrobe furnished for Room No. 7, some cane settees put in the Bureau of Arrears, and new gas-fixtures put up in some of the rooms.

THE COURTS (POLICE AND CIVIL).

Third District Police-The furnaces have been cleaned and repaired, and some new smoke-pipe

put up. Fifth District Police-The smoke-pipe of steam boiler has been cleaned and repaired and some

new pipe furnished. Sixth District Police—The window sash and frames have been repaired and glazed where

needed, and the plumbing put in order. First District Civil Court—The gutter on the west side of the building was repaired and relined, the flashings pointed up and the entire roof repaired and painted with metallic paint. Fifth District Civil Court—A new self-feeder stove with bottom-board and necessary pipe and

fixtures has been furnished, and a new galvanized iron chimney-top put up.

THE ARMORIES.

Seventh Regiment Armory—The wash-basins were repaired, the plumbing put in order, some repairs made to the carpenter work, two fire extinguishers were supplied, and two galvanized iron tanks for the magazine furnished.

Eleventh Regiment Armory—New sash-cord has been put in several of the windows and the glazing repared. The gutters have been relined with Ix-tin and rosin-sized felt paper; the entire roof repaired and painted with metallic paint, the walls and flashings pointed with Portland cement, the ventilators repaired and 6 new galvanized iron chimney tops put on. Sixty-ninth Regiment Armory—The steam pipes in the basement have been overhauled and repaired, and the radiators in main drill-room and some of the company rooms have been put in

good order.

The Office of Bureau of Streets and Roads, St. Nicholas avenue and One Hundred and Nineteenth street - Two new Scorcher stoves, with pipe and fittings, have been put up. New chairs have been furnished and new Holland window shades hung.

THE FREE FLOATING BATHS.

The baths have been towed from their summer stations, and are now safely moored in their

winter quarters in Gowanus basin. In addition to the foregoing, the keeping in repair of the furniture, plumbing, steam and gas-fitting, and the glazing of the various buildings and offices in care of the Department, the furnishing of law books, fuel and office supplies, form a very considerable portion of the work of the Bureau.

Very respectfully,

THOMAS H. MCAVOY, Superintendent.

Document "L."

DEPARTMENT OF PUBLIC WORKS-BUREAU OF INCUMBRANCES, ROOM 16, NO. 31 CHAMBERS STREET, New York, January 3, 1887.

Hon. JOHN NEWTON, Commissioner of Public Works : SIR-I herewith submit the following report of the operations of this Bureau, for the quarter ending December 31, 1886, together with a condensed statement of the entire business transacted during the same year :

| | Number of complaints received and notices issued therefor against obstructions and incumbrances on the various sidewalks, streets and avenues | 205 |
|------|---|--|
| 2000 | Number of removals of merchandise, wagons, carts, trucks, stands, booths, etc., etc., to the Corporation Yard foot of Gansevoort street, North river | 446 |
| | Expense of such removals, including 1,353 loads of dirt, stone, refuse, etc., and 88 dead and dangerous trees, from the various parts of the city | \$2,443 85 |
| | Total expenses for the quarter | \$3,542 23 |
| | Received from owners for the redemption of seized goods, articles, etc Received from public sale held at the Corporation Yard foot of Gansevoort street, North river, November 4, 1886 | \$503 44 109 94 |
| | Total | \$613 38 |
| | Which amount was duly paid over to the City Chamberlain. | |
| | Number of permits issued to builders to place building material on the streets Number of permits issued for special purposes Number of notices issued to repair dangerous and defective vault covers Number of permits issued to cut down shade trees During the year 1886, the total number of complaints received and notices issued | 1,340 173 2 17 |
| | Removals to the Corporation Vard. Removal of loads of dirt, stone, refuse, etc. Removal of dead and dangerous trees. Number of builders' permits issued. Number of special permits issued down trees. Number of permits issued to cut down trees. Number of notices issued to repair dangerous and defective vault covers. Number of notices issued to reflag sidewalks. | 947 1,459 1,683 267 7,014 858 46 11 68 |
| | Total expenditure for the year | \$8,411 92 |
| | Receipts for articles redeemed by owners Receipts from public sales at Corporation Yard | \$1,642 56 580 20 |
| | Total | \$2,222 76 |
| | | |

All of which was duly paid over to the City Chamberlain.

All of which was duly paid over to the City Chamberlan. It is to be regretted that the Board of Estimate and Apportionment did not increase the appro-priation for the present year, especially in view of the pressing demands upon the Bureau for the removal of old obstructions as well as the regulation of upwards of 7,000 buildings and alterations, which, in many cases, require the removal of large quantities of dirt and building material left upon the streets and sidewalks after the completion of the buildings. There is no branch of the City Government with the same field of labor before it that has not received a larger appropriation with which to perform its work and must necessarily be somewhat hampered thereby. Not only have you strenuously urged the increase asked for, but prominent taxpayers and mer-chants have come to your assistance and argued for the granting of the same before the Board, but all to no purpose. The amount allowed is \$10,000, the same as in the past few years, of which \$3,116 is for inspectors' salaries, etc., and the balance, \$6,884, for the removal of all classes of obstructions throughout the city. In other words, this Bureau is allowed about eighty-six cents per day for each of the Wards, with which to perform the task of removing all obstructions. Unless this amount be increased it will be difficult to remove more than new obstructions, while the old ones will have to exist until a more liberal allowance is made. From the foregoing report of the workings of this Bureau during the year 1886, it will be

From the foregoing report of the workings of this Bureau during the year 1886, it will be observed that there have been more obstructions removed to the Corporation Yard than in any previous year since the existence of the Bureau, and at the same time with less cost to the City.

THE DOG POUND.

The rain-water leaders have been put in repair, and new pipe furnished where needed.

THE MARKETS

Washington Market—The stairways in the new extension on Washington street side of the market have been changed, and the flooring and framing altered to correspond with the new plan. A contract to make the necessary alterations to the skylights and louvres was entered into, and the

A contract to make the necessary alterations to the skylights and louvres was entered into, and the work is now nearly completed. West Washington Market—Repairs were made to that portion of Vesey street pier belonging to the City, commencing at a point 150 feet west of West street, and running westerly about 175 feet. A new guard-rail was put up on the dock. Catharine Market—Extensive repairs have been made to the glazing of the windows. Tompkins Market—The gutters have been repaired and painted. Two new galvanized iron smoke-stacks put on, the slate roof repaired, about 45 feet of new zinc flashings put on the hips, and the old flashings repaired. Repairs have been made to the drain and soil pipes and the plumbing work put in good order. Clinton Market—About 165 lineal feet of galvanized iron cornice moulding, with dental blocks, have been put up on the Canal street side of the market; the gutters lined with new tin, flashings placed around the curbs of twenty skylights, the new tin work painted, about 55 feet of galvanized iron leaders put up, and the gravel roof repaired. A new white pine front, with doors and sashes, has been put up on part of the Canal street side of the market. The skylight curbs have been repaired and 28 new skylight sashes hung, with the necessary fastenings. The flooring in several places was taken up, and where it was found defective the decayed timbers were removed and replaced with new beams and girders, and new 1½-inch matched flooring laid.

Respectfully,

GEO. A. McDERMOTT, Superintendent of Incumbrances.

Document "M."

BUREAU OF WATER REGISTER, No. 31 CHAMBERS STREET, NEW YORK, December 31, 1886.

Hon. JOHN NEWTON, Commissioner of Public Works :

SIR-I herewith transmit statement of moneys received for water rents, penalties and taps, for the quarter ending December 31, 1886 :

| October November December | \$87,533 51 76,337 83 151,523 05 | \$1,387 90 3,175 40 3,144 30 | 1aps. \$1,636 50 1,339 00 1,124 50 |
|---------------------------------|--|------------------------------------|---|
| | \$315,394 39 | \$7,707 60 | \$4,100 00 |
| Total | | 327,201 99 | |

Deposit to the credit of "Water-meter Fund, No. 2"-

| October November December | \$363 69 83 94 93 65 |
|--|------------------------------|
| Total | \$541 28 |
| Special Fund—" Repairing Streets "— October November December | \$887 00 888 00 976 00 |
| Total | \$2,751 00 |
| · · · · · · · · · · · · · · · · · · · | |

I have the honor to also submit a statement of moneys received for the year ending December 31, 1886, and placed to the credit of their respective accounts with the City Chamberlain : Total Receipts

| Regular water rates and penalties. | \$1,563,981 26 | | |
|---|--------------------------|-------------------|----|
| Water by meter-measurement Permits for water for building purposes. | 738,879 88 40,931 47 | \$2,343 792 | 61 |
| Water rates returned in arrears | \$70,394 95 46,646 12 | | |
| Pipe-tapping receipts | | 117,041 14,328 | |
| | | \$2,475,162 | 18 |
| Restoring pavements | | \$10,705 | 00 |
| Collections for Meter and Meter Settings— Special Meter Stock No. 1 | | \$68 | 84 |
| Water Meter Fund No. No. 2 Amount returned to Bureau of Arrears for meters and meter settings. | ····· | \$14,389 2,938 | |
| | | \$17,327 | 25 |

The amount received during the year for restoring pavements of \$10,705 is reserved for repair-ing openings in streets, made for the purpose of connecting water pipes with buildings, etc., etc. The special account of \$17,327.25 is reserved and set apart to reimburse the City for advances made for meters and meter settings. The receipts for water rates and penalties, including water by meter-measurement and building purposes, and for tapping water pipes, show an increase over the last year (1885), amounting to \$223.44.28.

\$223,445.28.

I respectfully beg leave to renew the recommendation made in my yearly report of 1885, of having all buildings with steam-engines and others using extra water by estimated quantity, metered

with as little delay as possible. Waste of water continues, notwithstanding the citizens are daily admonished to be careful. Inspectors appointed to check this evil often find consumers allowing water to run through the faucets to avoid freezing in the service pipes. This waste causes low pressures upon the water-mains,

and complaints of great scarcity of supply by many citizens throughout the city. The receipts have been large and show an increased revenue over last year, notwithstanding the complaints from every part of the city that the water does not rise in different localities sufficiently high to supply consumers who have paid for its use for the current year. All of which is respect-fully submitted.

J. H. CHAMBERS, Water Register.

HEALTH DEPARTMENT.

HEALTH DEPARTMENT OF THE CITY OF NEW YORK, NEW YORK, February 1, 1887.

The Board met this day.

Reports.

Reports. From the Sanitary Superintendent—Weekly report of operations of the First Division ; weekly report of operations of the Second Division ; weekly report of operations of the Third Division ; weekly report of operations of the Fourth Division ; weekly report of operations of the Fifth Divis-ion ; weekly report of operations of the Sixth Division ; weekly report of operations of the Seventh Division ; weekly letter ; weekly mortuary statement ; weekly abstract of births ; weekly abstract of still-births ; weekly abstract of marriages; weekly abstract of deaths from contagious diseases ; weekly report of attendance of clerks ; weekly reports of sanitary condition of slaughter-houses ; weekly report of manure-dumping ; weekly report on removal of privy-vaults ; weekly report on house-to-house inspections ; weekly report on condition of offal dock ; on applications for leave of absence ; on application for permits ; on applications for relief from certain orders ; on condition of street pavements, etc. ; monthly medical reports from charity institutions ; on delayed birth and marriage certificates ; on changes in the hospital service ; on violation of section 9 of the Revised Statutes by Rev. T. W. Chambers ; on application to file supplemental papers relating to death of Ellen Fraser ; in respect to baling of manure ; on application for additional help in the Fourth Division. Division.

From the Attorney and Counsel-Weekly report ; monthly report ; reports on violations of the Sanitary Code referred to the Attorney for prosecution.

Communications from other Departments.

From the Department of Finance-Comptroller's weekly statement.

Miscellaneous Communication.

From the County Medical Society-In respect to the removal of manure.

| Bil | ls A | udited. | | |
|---------|------|---------|----|------|
| 000 | 00 | Cilbert | 8. | Daul |

| Thomas F. White J. B. Purroy Whitehall, Tatum & Co Charles S. Young Percy Rockwell Charles Lederer | 166 66 2 66 530 55 23 79 | Park & Tilford C. W. Klappert's Sons Francis H. Loss, Jr Baker, Voorhis & Co | \$30 44 883 23 16 06 33 89 3 00 |
|---|-----------------------------------|---|---|
| | Permits | Granted. | |

To keep a lodging-house at No. 33 Washington street. To keep a lodging-house at No. 72 Greenwich street. To keep a lodging-house at No. 90 South street. To keep one cow at No. 527 West Fifty-second street. To keep and care for four infants at No. 358 West Thirty-sixth street. To keep four hens at No. 341 Ninth avenue. of Jennings street. To keep four hens at No. 341 Ninth avenue. To keep four chickens at No. 78 Ninth avenue Second avenue To provide beds for one hundred and sixty-four children at corner Eighty-seventh street and Avenue A. Permit Denied. third street To keep a lodging-house at No. 49 Oliver street. Resolutions. Resolved, That the Register of Records be and is hereby authorized and directed to record the following birth returns : Leslie Ella Wallace, October 19, 1886. Annie Duncan, October 23, 1886. dale avenue Kate O. Beary, October 24, 1886. Catharine Miller, October 28, 1886. Viola Guild, March 11, 1886. Resolved, That permission be and is hereby granted to file supplemental papers relating to the death of Ellen Fraser, who died April 23, 1886. Resolved, That leaves of absence be and are hereby granted as follows : street. Inspector Samuel W. Smith, from February 1 to February 10, on account of sickness. Inspector Martin, extended to February 3. Fiftieth street.

Resolved, That the following persons be and are hereby employed as follows : Michael Lestrange, Driver, from January 27, at \$2 per day. Christopher Farrell, Stableman, from January 28, at \$2 per day. Frederick O. Swain, Fireman, from January 31, at \$2.50 per day.

Resolved that the following persons be and are hereby employed as follows : Louisa Carey, Helper, from January 24, at \$12 per month. Mary Daley, Helper, from January 26, at \$12 per month.

Resolved, That the following orders be and are hereby suspended or modified, as follows :

Resolved, That the following orders be and are hereby suspended or modified, as follows: No. 597, at No. 57 East Ninety-first street, to February 14. No. 11278, at No. 418 West Eighteenth street to April 1. No. 13483, at No. 643 Hudson street, to March 15. No. 460, at No. 349 West Houston street, to April 10. No. 11620 at No. 2076 Second avenue, to February 15. No. 549, at 1295 Broadway, to March 10. No. 13491, at Nos. 51516 and 517 Pearl street, to February 15. No. 639, at No. 244 East Ninetieth street, to March 1. No. 14294, at No. 436 West Forty-ninth street, to March 1. No. 14269, at No. 441 West Thirty-numb street, to February 22. No. 406, at No. 642 Second avenue, to April 10. No. 13562, at No. 194 East Seventy-sixth street, to April 1. No. 13553, at No. 607 West Forty-fifth street, to April 1. No. 0, at No. 226 West Forty-second street, to May 15, provided the sink be kept clean and finsive.

No. 607, at No. 220 treat 1 or y attention of the part relating to vault only, to April 15.
No. 448, at Nos. 1032 and 1034 First avenue, the part referring to privy only, to April 15.
No. 572, at No. 767 Second avenue, the part referring to privy only, to April 1.
No. 13091, at No. 14 Duane street, modified as follows: That the eaves, gutter and leader on rear of house be replaced by a new one, and the same be connected with the privy vault; that the yard be so graded that surface water shall be discharged into the privy vault; that the privy vault be cleaned and disinfected.

No. 11913, at Nos. 453 and 455 West Sixteenth street, modified so as to read as follows : That a sufficient supply of water be provided, reasonably convenient, for the use of the tenants on the top floor of each house.

floor of each house.
No. 537, at No. 209 Hester street, granted, provided the leader be not allowed to discharge upon the sidewalk.
No. 13299, at No. 436 West Twentieth street, during the pleasure of the Board.
No. 13299, at No. 436 West Fifty-second street, so modified as not to require a cast-iron house drain, running trap and fresh-air inlet, the remainder to be enforced.
No. 14437, at No. 327 Madison avenue, to May I, provided defects in all pipes are properly repaired and tank overflow pipe disconnected from the soil pipe.
Resolved, That the application for relief from Order No. 296, on premises No. 11 Broadway, be and is hereby denied.
A schedule of articles accounted for on Property Returns for six months ending December 31, as expended, condemned, or lost or destroyed, was received from the Property Clerk, and ordered on file. on file

In answer to a request from the Board, a number of persons engaged in the livery stable and manure business appeared before the Board and made statements in respect to the practicability of baling, and handling when baled, of manure in this city; and, after due consideration, the subject was laid on the table for further consideration.

Action of the Board on Plans for Light and Ventilation of New Tenement-houses.

Resolved, That the following plans for the light and ventilation of new tenement-houses be and are hereby approved upon the conditions described in the permits issued in each case, and the said plans and specifications are hereby modified in accordance therewith :

Plan No. 4707, for one tenement-house, northwest corner Elizabeth and Bayard streets, as amended

Plan No. 4709-2, for two tenement-houses, Nos. 14 and 16 Orchard street, as amended. Plan No. 4722, for one tenement-house, No. 14 Market street, as amended. Plan No. 4727, for one tenement-house, southwest corner Temple and Cedar streets. Plan No. 4729, for one tenement-house, Nos. 1396 and 1398 Avenue A. Plan No. 4693, for four tenement-houses, northwest corner Ninth avenue and Ninety-first street, mended as amended.

Tabled for Amendment.

Resolved, That the following plans for the light and ventilation of new tenement-houses be and are hereby tabled for amendment :

Plan No. 4712, for two tenement-houses, Nos. 112 and 114 Monroe street. Plan No. 4736, for one tenement-house, southeast corner Washington place and Sixth avenue.

Action of the Board on Plans for the Plumbing and Drainage of New Houses.

Resolved, That plans for the plumbing and drainage of the following new houses be and are hereby approved upon the conditions contained in the statement of the action of the Board attached to the specifications submitted with the plans, and the said plans are hereby modified in accordance therewith :

Plan No. 5735, for one tenement, southeast corner St. Nicholas avenue and One Hundred and Twenty-first street, as amended.

Plan No. 5649, for six tenements (supplemental), west side Seventh avenue, from One Hundred and Twenty-third to One Hundred and Twenty-fourth street. Plan No. 5974 (amendment), for one factory, west side University place, from Ninth to Tenth

street

Plan No. 5975, for one dwelling, No. 42 West One Hundred and Twenty-fifth street, as amended.

Plan No. 5988, for one factory, No. 405 Greenwich street, as amended. Plan No. 6004, for one factory, north side Fifty-third street, one hundred feet east of Second avenue

avenue. Plan No. 6006, for one tenement, No. 1610 Second avenue. Plan No. 6007, for one synagogue, Nos. 12, 14 and 16 Eldridge street. Plan No. 6008, for one church, south side One Hundred and Thirteenth street, two hundred and seventy-five feet east of Third avenue. Plan No. 6009, for one tenement, No. 124 East Eighty-fifth street. Plan No. 6010, for one tenement, southwest corner Cedar and Temple streets. Plan No. 6011, for three dwellings, west side Edgecomb avenue, ninety feet south of One Hun-dred and Forty-fifth street.

dred and Forty-fifth street. Plan No. 6012, for eight tenements, southwest corner Eighty-third street and First avenue, con-

ditionally. Plan No. 6013, for one tenement, north side Eighty-first street, one hundred and seventy-five

feet west of First avenue, conditionally. Plan No. 6014, for one office, north side One Hundred and Thirty-sixth street, one hundred and

two feet east of Edgecomb avenue. Plan No. 6015, for one dwelling, south side One Hundred and Fifty-seventh street, between Tenth and St. Nicholas avenues.

Plan No. 6016, for one tenement, west side Third avenue, two hundred and ninety feet south of One Hundred and Sixty-seventh street. Plan No. 6017, for one dwelling, east side Chisholm street, two hundred and fifty-five feet south Plan No. 6018, for three tenements, two on east side of Second avenue, twenty-eight feet south of Eighty-third street, and one on south side Eighty-third street, seventy-five feet east of Plan No. 6019, for one tenement, southeast corner of Eighty-third street and Second avenue. Plan No. 6020, for two tenements east side Second avenue, seventy-eight feet south of Eighty-Plan No. 6021, for two tenements, south side Sixty-sixth street, two hundred and fifty feet east of First avenue. Plan No. 6022, for one tenement, Nos. 1396 and 1398 Avenue A. Plan No. 6023, for one dwelling, east side Ackerman street, near Two Hundred and Thirty-Plan No. 6024, for one dwelling, east side Ackerman street, one thousand feet north of River-Plan No. 6025, for one dwelling, west side Sixth avenue, one hundred and fifty feet north of Plan No. 6025, for one dwelling, west side Sixth avenue, one hundred and htty feet north of Plan No. 6026, for one tenement, No. 45 Mott street.
Plan No. 6027, for one tenement, No. 313 West Sixtieth street.
Plan No. 6028, for one theatre, Nos. 728 and 730 Broadway.
Plan No. 6031, for one dwelling south side Cole street, seventy-five leet west of Decatur avenue.
Plan No. 6032, for one dwelling, east side Decatur avenue, three hundred feet north of John street. Plan No. 6033, for one dwelling, west side Church street, opposite to Two Hundred and

THE CITY RECORD.

Resolved, That the following violations of law in the plumbing and drainage of new houses be and are hereby referred to the Attorney : 3466, 3652, 3840, 3948, 3982, 4190, 4179, 4047, 4083, 4071, 4181, 4197, 4208, 3578, 3862, 3963, 3987, 3962, 4026, 4042, 4160, 4173, 4183, 4206, 4215.

Sanitary Bureau.

The following is a record of the work performed in the Sanitary Bureau for the week ending January 29, 1887 :

January 29, 1887 : The total number of inspections made by the Sanitary Inspectors was 5,347. The number of complaints returned by the Sanitary Inspectors was 429. During the past week 287 complaints were received from citizens, and referred to the Sanitary Inspectors for investigation and report. There were issued to the consignees of vessels, to discharge cargoes on vouchers from the Health Officer of the Port, 36 permits. There were issued to consignees, to discharge rags (in bulk, under bonds), 5 permits. There were issued to scavengers to empty, clean and disinfect privy sinks, 35 permits. At premises where contagious diseases were reported, 209 visits were made, and 67 disinfections and 58 funigations were performed. The number of cases of contagious diseases removed to Riverside Hospital was 28.

The number of cases of contagious diseases removed to Riverside Hospital was 28. The number of vaccinations performed was 3,480 of which 556 were primary, and 2,924

revaccinations.

There were seized and condemned, 9,015 pounds of meat, and 200 pounds of fish. The number of specimens of milk examined was 44, the number of analyses of same made was 3, and the amount of fines imposed was \$50.

The certificates of 584 births, 62 still-births, 263 marriages, and 735 deaths, reported to have taken place in this city, were received by this Bureau during the week ending Saturday, January 29, 1887. This shows an increase of 24 births, I still-birth, and 36 marriages, and a decrease of 54 deaths, when compared with the number received during the preceding week, but when com-pared with the corresponding week of the year 1886, there was a decrease of 20 births, and an increase of I still-birth, 43 marriages and 83 deaths. Compared with the mortality reported during the preceding week, the deaths from measles decreased 16; diphtheria, 16; whooping-cough, 3; cerebro-spinal fever, 2; malarial fevers, 4; puerperal diseases, 2; alcoholism, 2; rheumatism and gout, 6; cancer, 9; phthisis pulmonalis, I0; bronchitis, 4; heart diseases, 4; aneurism, I; marasmus, tabes mesenterica and scrofula, 2; hydrocephalus and tubercular meningitis, 3; meningitis and encephalitis, 5; convulsions, 4; apoplexy, 8; all diseases of the brain and nervous system, 26; cirthosis and hepatitis, 2; cyanosis and atelectasis, I; premature and preternatural births, 2; surgical operations, 4; while the deaths from small-pox increased I; scarlatina, 5; croup, 6; typhoid fever, 1; diarrhoeal diseases, 4; manition, 2; pneumonia, 24; gastritis, enteritis and peritonitis, 7; Bright's disease and nephritis, 8; suicide, 3; drowning, 2. The number of deaths from erysipelas was the same in the two successive weeks.

Deaths from the principal Zymotic Diseases, Phthisis Pulmonalis, Pneumonia, Bronchitis, and Children under five vears of age, reported during the week and compared with the three preceding weeks.

| | | | | | | | .p. | | | | ver. | mittent, al, Con- Simple ers. | is. | ls. | | | ystem. | System. | Di C | BATH | S OF REN. |
|------|-------|---------|------------|------------|-------------|-------------|-------------------|-----------------|---------------|----------------|----------------------|--|--------------------|---------------------|------------|-------------|------------------------------------|------------------------------|-------------------------|--------------------------|--------------------------|
| We | EEK I | ENDING— | Small-pox. | Measles. | Scarlatina. | Diphtheria. | Membranous Croup. | Whooping Cough. | Typhus Fever. | Typhoid Fever. | Cerebro-Spinal Fever | Remittent, Intermit Typho-Malarial, gestive, and Sii Continued Fevers | Diarrhœal Diseases | Phthisis Pulmonalis | Pneumonia. | Bronchitis. | Diseases of the Nervous System. | Diseases of the Urinary S | Under I year of age. | Under 2 years of age. | Under 5 years of age. |
| Jan. | 8, | 1887 | | 6 x | 12 | 53 | 30 | 9 | | 7 | 4 | 7 | 8 | 121 | 94 | 50 | 64 | 49 | 161 | 261 | 350 |
| | 15, | | | 73 | 6 | 40 | 34 | 7 | | 9 | 5 | 5 | 13 | 122 | 112 | 54 | 53 | 52 | 180 | 273 | 365 |
| | 22, | | 2 | 68 | 11 | 54 | 18 | 6 | | 4 | 6 | 8 | 8 | 114 | IOI | 49 | 74 | 47 | 173 | 243 | 335 |
| | 29. | | 3 | 52 | 16 | 38 | 24 | 3 | | 5 | 4 | 4 | 12 | 104 | 125 | 45 | 48 | 52 | 154 | 223 | 305 |
| | Tota | d | 5 | 254 | 45 | 185 | 106 | 25 | | 25 | 19 | 24 | 41 | 461 | 432 | 198 | 239 | 200 | 668 | 1000 | 1356 |

The ages of 173 of the persons who died during the week were reported to be under one year, 243 under two years, 335 under five years, and 53 seventy years and over, which shows that the number of deaths of children under five years of age was 29 more than the number reported during the preceding week, and represent 42.46 per cent. of the total weekly mortality.

Deaths reported from Small-pox, Measles, Scarlatina, Diphtheria, Membranous Croup, Whooping Cough, Typhus, Typhoid, Cerebro-Spinal, and Malarial Fevers, in Institutions, Tenement and other Dwellings, with Average Age, Floor, and Ward where the Death occurred, and the Hour of Death, for the week ending January 29, 1887.

| | aining 2 | under. | | containing iilies. | | | -houses. | | _ | | | | | F | LOO | R. | | | | | _ | Ave | RAC | EA | GE. |
|----------------------|--------------------------------|---------|--|-----------------------|-------------|---------------|--------------------------------|---------------|----------|------------|-----------|----------|-------------|-------------|------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|---------------|----------------|---------------|
| Disease. | In Houses cont Families and | | In Houses containing Families and under. In Houses containin | | Canal Roate | Callal Dudis. | Hotels and Boarding-houses. | Institutions. | Bacamant | Dascincii, | First. | Second. | | Third. | Fourth. | | Fifth. | Sixth. | Top. | Not Control | Troi Diateu. | Years. | Monthe | -cmmotor | Days. |
| Small-pox | | 1 | | r | | | | I | | | I | | | | | | I | | | | | 28 | | 4 | |
| Measles | | 8 | | 34 | | | •• | 10 | | | 7 | 12 | | 13 | 4 | | 6 | | | | • | 2 | | r | 1 |
| Scarlatina | | 4 | 1 | 12 | 1. | | | | 1. | • | 4 | 5 | | 3 | 3 | | 1 | | | 1. | • | 6 | | 3 | 3 |
| Diphtheria | | 5 | Î | 26 | | . | I | 5 | | | то | 9 | | 7 | 3 | | 3 | ••• | | | • | 4 | | 7 | 8 |
| Membranous Croup. | | 4 | | 20 | 1. | | | | 1. | | 4 | 7 | | 7 | 3 | | 3 | •• | | 1. | | 2 | 1 3 | 5 | 24 |
| Whooping Cough | | 1 | | r | | | ••• | 1 | | | 1 | | | | | | x | | | | | r | | 5 | 7 |
| Typhus Fever | 1 | | 1 | | 1. | . | | | | • | | | 1 | | | 1 | | | | 1. | | •• | | • | |
| Typhoid Fever | 1 | ••• | | 3 | | • | | 2 | | | | | | I | | | 2 | | | | | 17 | | 8 | 11 |
| Cerebro-Spinal Fever | | I | | 3 | | | •• | | | • | | | | 4 | | | | •• | | 1. | | 3 | I | 0 | 16 |
| Malarial Fevers | | 2 | | 1 | | | I | | 1. | | 2 | 2 | | | | | | | | 1. | | 42 | | 4 | 27 |
| | | | | | | | | | | _ | | w | ARD | 5. | | | | | _ | | | | | | |
| Disease. | First. | Second. | Third. | Fourth. | Fifth. | Sixth. | Seventh. | Eighth. | Ninth. | Tenth. | Eleventh. | Twelfth. | Thirteenth. | Fourteenth. | Fifteenth. | Sixteenth. | Seventeenth. | Eighteenth. | Nineteenth. | Twentieth. | Twenty-first. | Twenty-second | Twenty-third. | Twenty-fourth. | TOTAL DEATHS. |
| Small-pox | | | | | | | | | | | | | | | ••• | | | | | | | ı | I | I | 3 |
| Measles | 2 | | | 2 | | I | 2 | •• | 1 | •• | | 10 | •• | 5 | 1 | 1 | 2 | 2 | 11 | 3 | 1 | 6 | 2 | | 52 |
| Scarlatina | •• | | ••• | | | ••• | I | I | I | •• | I | I | 3 | I | •• | •• | 3 | ••• | 3 | 1 | •• | •• | •• | •• | 16 |
| Diphtheria | •• | | | | | 1 | 1 | I | •• | 3 | | 6 | 2 | I | •• | •• | 1 | •• | 9 | 3 | I | 7 | 1 | ••• | 37 |
| Membranous Croup | 1 | | | | ••• | •• | 3 | I | ••• | I | | 4 | •• | I | •• | ••• | I | •• | 3 | 2 | I | 5 | 1 | •• | 24 |
| Whooping Cough | | | | ••• | | | •• | 1 | •• | •• | | | ••• | | •• | •• | I | | I | ••• | •• | •• | | | 3 |
| Typhus Fever | •• | | | | •• | ••• | | •• | ••• | •• | | •• | ••• | ••• | •• | •• | •• | ••• | •• | •• | | •• | •• | •• | |
| Typhoid Fever | | | | | | | •• | ••• | | | | I | ••• | | | I | I | | 2 | | | •• | | ••• | 5 |
| C C-t-I Farra | | | I | | | | | I | | | | I | | | | 2 | | | | | | | | | 4 |
| Cerebro-Spinal Fever | •• | 1 | 100 | 100 | | 1.00 | | | | | 1000 | | | | | | | | | | | | | | |

| | | | - | - | | | | | - | - | - | - | | - | - | | - | - | | - | - | - | - | - | - | - |
|----------------------|-------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------|
| | A. M. | | | | | | | | | | P. M. | | | | | | | | | | _ | | | | | |
| Disease. | | 2 o'clock. | 3 o'clock. | 4 o'clock. | 5 o'clock. | 6 o'clock. | 7 o'clock. | 8 o'clock. | g o'clock. | IO O'Clock. | II o'clock. | 12 0'clock. | I o'clock. | 2 o'clock. | 3 o'clock. | 4 o'clock. | 5 o'clock. | 6 o'clock. | 7 o'clock. | 8 o'clock. | 9 o'clock. | ID O'CLOCK. | II 0°clock. | 12 o'clock. | Not stated. | TOTAT |
| | - | - | - | - | - | | - | - | - | - | - | - | | - | - | - | - | - | | - | - | - | | - | - | - |
| Small-pox | •• | | | •• | | •• | | I | | | •• | I | | | 1 | | | •• | | | •• | •• | ••• | •• | •• | |
| Measles | 2 | 2 | | 2 | 4 | 3 | 4 | 3 | 2 | 4 | r | r | z | 3 | 2 | 4 | 2 | 2 | | I | r | 4 | 3 | r | | 52 |
| Scarlatina | I | r | 2 | 2 | | | r | | 1 | | 1 | | I | I | •• | I | 1 | | I | | I | | | 1 | | re |
| Diphtheria | 2 | 1 | | 3 | I | | 2 | 4 | | 2 | 2 | 4 | 2 | 1 | | I | T | 1 | 2 | I | 2 | 5 | | | | 37 |
| Membranous Croup | I | I | 3 | 2 | I | t | I | | I | | 4 | | 3 | | r | I | 2 | 2 | | | | | | | | 24 |
| Whooping Cough | | | | | | | I | | | | | | | 2 | | 1 | | | | | | | | | | - |
| Typhus Fever | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Typhoid Fever | | | | 2 | | | | | | | | | | 1 | | | | 2 | 1 | | | | | | | |
| Cerebro-Spinal Fever | | | | | 1 | I | I | | | I | | | | | | II | | | | I | | 1 |] | | | |
| Malarial Fevers | 1 | | | | | | | | | | | | | | | | | II | | | | | | | | |

Of the total number of deaths reported for the week, 130 were in institutions, 430 in tenement houses, 162 in houses containing three families or less, 6 in hotels and boarding-houses, 7 in rivers, streets, boats, etc.; 12 were on the basement floor, 136 on the first, 150 on the second, 143 on the third, 2 on the fourth, 1 on the fifth, 0 on the sixth; 723 were stated to be residents of New York City, and 12 non-residents; 97 were stated to be single, 196 marriade, 88 widowed, and the condition of 354 was not stated; these were children who had not attained a marriageable age. The total number of burial permits issued during the week were as follows, viz.: City deaths, 735; still-births, 63; bodies in transitu, 12; of the total burial permits issued for city and still-births, 59 were upon certificates received from the Coroners; 584 births, 263 marriages, 63 still-births, 735 deaths; 12 applications for transit permits were recorded, indexed and tabulated; 119 searches of the registers of births, marriages, and deaths were made, and 3 transcripts of the birth record, 4 of marriage, and 66 of death were issued during the week. The mean temperature for the week ending January 29, 1887, was 37.8 degrees Fahr.; the mean reading of the barometer was 29.909; the mean humidity was 86, saturation being 100; the number of miles traveled by the wind was 1,543, and the total amount of rain-fall was 1.24 inches depth of water, as reported by D. Draper, Ph. D., Director of the New York Meteorological Observatory, Central Park. The disposition of 707 deaths and still-births, or 88.60 per cent, of the total number reported

 water, as reported by D. Draper, Ph. D., Director of the New York Meteorological Observatory, Central Park.
 The disposition of 707 deaths and still-births, or 88.60 per cent. of the total number reported, was in the following 14 cemeteries : Bayside (Jewish), 27 ; Calvary (Roman Catholic), 283 ; City, pauper burial-ground (undenominational), 104 ; Greenwood (undenominational), 46 ; Lutheran (undenominational), 117; Cypress Hills (undenominational), 11 ; Evergreen (undenominational), 37 ; Woodlawn (undenominational), 18; St. Michael's (Protestant Episcopal), 15 ; Union (Methodist Protes-tant), 4 ; Holy Cross (Roman Catholic), 12 ; Machpelah, L. I. (Jewish), 6 ; St. Raymond's (Roman Catholic), 11 ; Washington (undenominational), 16.
 The distribution of deaths (actual mortality) for the week ending January 22, 1887, was in the following Wards, viz. : First, 7; Second, 1 ; Third, 7 ; Fourth, 12; Fifth, 9 ; Sixth, 16 ; Seventh, 25 ; Eighth, 22 ; Ninth, 34 ; Tenth, 30 ; Eleventh, 12 ; Twelfth, 119; Thirteenth, 22; Fourteenth, 31 ; Fifteenth, 14 ; Sixteenth, 25 ; Seventeenth, 40 ; Eighteenth, 28 ; Nineteenth, 156 ; Twentieth, 40 ; Twenty-first, 48 ; Twenty-second, 60 ; Twenty-third, 17 ; Twenty-fourth, 13.
 The actual mortality for the week ending January 22, 1887, was 788 ; this is 127 more than the number that occurred during the corresponding week of the year 1886, and 120 more than the average of the corresponding weeks of the past five years, and represents an annual death-rate of 28.01 per 1,000 persons living, the population estimated at 1,465, 110.
 The annual death-rate per 1,000 persons living, of the estimated or enumerated population, according to the most recent weekly returns of Philadelphia was 22.97 ; Brooklyn, 21.70; Baltimore, 17.58 ; Boston, 23.31 ; New Orleans, 18.85; Cleveland, 19.02 ; Charleston, 22.06 ; Worcester, 21.28 ; Cambridge, 16.91 ; Fall River, 24.68 ; Lynn, 15.82 ; Springfield, 13.80 ; Pitts-burgh, 20.28. Monthly returns—P By order of the Board.

EMMONS CLARK, Secretary.

DEPARTMENT OF PUBLIC WORKS.

DEPARTMENT OF PUBLIC WORKS.

COMMISSIONER'S OFFICE, NO. 31 CHAMBERS STREET, New YORK, February 4, 1887.

In accordance with the provisions of section 51 of chapter 410 of the Laws of 1882, the Depart-ment of Public Works makes the following report of its transactions for the week ending January 29, 1887 :

Public Moneys Received during the Week.

| For Croton water rents | \$28,860 | 84 |
|---|----------|----|
| For penalties on water rents | 920 | 25 |
| For tapping Croton pipes | 102 | 00 |
| For sewer permits | 234 | 72 |
| For restoring and repaying—Special Fund | 214 | |
| For sale at public auction | 169 | |
| For vault permits | 618 | 75 |
| | | - |

Permits Issued.

23 permits to tap Croton pipes. 18 permits to open store pipes.

18 permits to open streets.
12 permits to make sewer connections.

- 14 permits to repair sewer connections.
 102 permits to place building material on streets.
 17 permits—special.

I permit to construct street vault.

Obstructions Removed.

407

4 obstructions removed from the various streets and avenues. Repairing and Cleaning Sewers. 18 receiving-basins and culverts cleaned. 3,502 lineal feet of sewer cleaned. 12 lineal feet of sewer rebuilt. 20 lineal feet of sewer repaired lineal feet of culvert rebuilt. 15 lineal feet of spar-pipe laid. I manhole rebuilt. I manhole repaired. basins repaired. 2 new basin covers put on. 1 new manhole head and cover put on. 58 cubic yards of earth excavated and refilled. 19 square yards of paving relaid. 190 cart-loads of dirt removed. Fublic Lamps.

new lamps lighted. old lamps relighted. lamps discontinued. lamp-posts reset. lamp-post straightened. column refitted. I column releaded.

THE CITY RECORD.

FEBRUARY 11, 1887.

Bureau of Water Purveyor.

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

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

Bureau of Incumbrances. No. 31 Chambers street, 9 A. M. to 4 P. M. JOHN RICHARDSON, Superintendent. Keeper of Buildings in City Hall Park.

FINANCE DEPARTMENT.

Comptroller's Office. No. 15 Stewart Building, Chambers street and Broad-way, 9 A. M. to 4 P. M. EDWARD V. LOEW, Comptroller; RICHARD A. STORRS, Deputy Comptroller.

Auditing Bureau Nos. 19, 21, 23 Stewart Building, Chambers street and Broadway, 9 A. M. to 4 F. M. WM. J. LYON, Auditor of Accounts ; DAVID E. AUSTEN, Deputy Auditor.

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

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

Bureau for the Collection of City Revenue and of Markets.

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

Bureau for the Collection of Taxes.

First floor, Brown-stone Building, City Hall Park. GEORGE W. MCLEAN, Receiver of Taxes ; ALFRED VREDENBURG, 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.

Office of the Public Administrator.

POLICE DEPARTMENT.

Central Office.

No. 49 Beekman street, 9 A. M. to 4 P. M. RICHARD J. MORRISSON, Public Administrator Office of the Corporation Attorney.

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

MARTIN J. KEESE, City Hall.

No. 31 Chambers street, 9 A. M. to 4 P. M. Alston Culver, Water Purveyor.

| Resol flagging (Nicholas J | | ILLUMIN | ns. per | of Gas hour. | as Deliv- Burner. | | 1 | | | | sr. | | | |
|---|------------|-------------------|--------------------------------------|------------------------------------|--------------------------|-------------|-----|---------|----------|----------------|--------------|------------------------|----------|------|
| rescinded Adop Appr Resol | Corrected. | Observed. | Consumption Candle, Grs. hour. | Consumption of G Rate per hour. | Fressure as ered to B | JRNER. | | MPANV. | GAS CO | Barometer. | Thermometer. | TIME. | TE. | DA |
| tation of the | 19.58 | 19.10 | | CU. FT. | IN. | | | | Marker | | | | | |
| hundred d | 19.84 | 19.08 | 123.0 | 5.00 | - 59 | 5 ft | | | Mannat | 29.48 | 74. | 6 P.M. | | Jan. |
| done unde | 18.58 | 18.40 | 121.2 | 5.00 | · 59 | | | | | 29.93 | 73. | 2 P.M. | 25 | |
| Adop | 18.95 | 19.14 | 118.8 | 5.00 | .60 | | | | | 1.00 | 74· 62. | 5 P.M. | 26 | |
| Appr | 19.28 | 19.28 | 120.0 | 5 00 | 60 | | | | | 30.57 | | I P.M. | 27 | |
| Resol | 20.14 | 19.94 | 121.2 | 5.00 | .60 | | | | | 29.86 | 74 · 73 | 5 P.M. 4 P.M. | 28 | |
| keep a wa water supp permission | 19.39 | Average. | | 5.02 | | | | | | -9.07 | 13 | 4 | 29 | |
| Adop | 24.92 | 24.92 | 120.0 | 5.00 | .75 | lit Union 7 | . B | ork | New Yo | 29.48 | 74. | 5.30 P.M. | 24 | Jan. |
| Recei | 25.05 | 25.30 | 118.8 | 5.00 | .75 | •• | | | " | 29.93 | 73. | 2.30 P.M. | 25 | |
| a | 24.06 | 24.06 | 120.0 | 5.00 | .75 | | | | | 29.89 | 74. | 4.30 P.M. | 26 | |
| EVEC | 25.41 | 25.41 | 120.0 | 5.00 | .77 | | | | | 30.57 | 62. | 1.30 P.M. | 27 | |
| EXEC | 25.34 | 24.72 | 123.0 | 5.00 | .75 | | | | " | 30.28 | 74. | 4.30 P.M. | 28 | " |
| | 25.40 | 25.92 Average. | 117 0 | 5.00 | -74 | | • | | | 29.86 | 73. | I P.M. | 29 | |
| Pursuan 1883, I he | 29.21 | 28.92 | 121.2 | 5.00 | .81 | | | futual | N. Y. M | | | | | |
| " New Y | 31.09 | 30.78 | 121.2 | 5.00 | .81 | | 1 | | N. Y. M | 29.48 | 74. | 4 P.M. | 24 | Jan. |
| of New Y | 30.16 | 29.14 | 124.2 | 5.00 | .83 | | | | | 29.89 | | 4 P.M | 25 | |
| unredeeme in said city | 30.61 | 29.58 | 124.2 | 5.00 | .85 | | 1 | | | 30.57 | 74 · 62. | 3 P.M. | 26 | |
| for at least | 30.82 | 30.82 | 120.0 | 5.00 | .85 | | | | | 30.28 | 74. | 3 P.M. 3 P.M. | 27 | |
| wise order | 31.24 | 31.24 | 120.0 | 5.00 | .85 | | 1 | | ** | 29 86 | 73. | 3.30 P.M. | 20 | |
| | 30.52 | Average. | | 5 | | | | | | | 13. | 3.30 1 | -9 | |
| | 30.34 | 30.04 | 121.2 | 5.00 | .76 | | | al | Municip | 29.48 | 74. | 5 P.M. | 24 | Jan. |
| In pursu | 30.59 | 29.42 | 124.8 | 5.00 | .76 | | | | | 29.93 | 73. | 3 P.M. | 25 | |
| 30, 1877, "An ordir | 30.16 | 30.16 | 120.0 | 5.00 | •77 | •• | | | - " | 29.89 | 74. | 4 P.M. | 26 | |
| phobia to a New Yorl | 28.84 | 28.84 | 120.0 | 5.00 | .79 | ** | | | " | 30.57 | 62. | 2 P.M. | 27 | |
| Dogs foun | 29.68 | 30.28 | 117.6 | 5.00 | •77 | | | | | 30.28 | 74. | 4 P.M. | 28 | ** |
| and after J will be a therein. | 30.11 | 31.36 Average. | 115.2 | 5.00 | .77 | | | | | 29.86 | 73. | 1.30 P.M. | 29 | |
| The Dop East river | 31.18 | 31.18 | 120.0 | | .76 | | | | Equitabl | | | | | |
| where dog Keeper the | 33.02 | 34.76 | 114.0 | 5.00 | | | | | Equitabl | 29.48 | 74. | 4.30 P.M. | | Jan. |
| eight o'clo | 33.35 | 33.52 | 119.4 | 5.00 | ·75 | | 1 | | | 29.93 29.89 | 73. | 3.30 P.M. | 25 26 | |
| Sundays ex January, I | 32.99 | 34.36 | 115.2 | 5.00 | . 78 | | | | | 30.57 | 74 · 62. | 3.30 P.M. 2.30 P.M. | | |
| , | 32.64 | 32.64 | 120 0 | 5.00 | .77 | | | | | 30.28 | 74. | 3.30 P.M. | 27 | |
| | 33.74 | 35.52 | 114.0 | 5.00 | .78 | | 1 | | | 20.86 | 73. | 2 P.M. | 29 | |
| 01 | 32.82 | Average. | | | | | | | | | , | | - , | |
| STATEM all the I | 21.15 | 20.64 | 123.0 | 5.00 | .64 | " No. 6 | 1 | litan | Metropo | 29.51 | 78. | 11.30 A.M. | 24 | Jan. |
| and at which well as of th | 20.04 | 20.04 | 120.0 | 5.00 | .65 | | 1 | | " | 30.15 | 75. | II A.M. | 35 | " |
| Courts are h and Courts. | 20.30 | 19.62 | 124.2 | 5.00 | .66 | | 1 | | " | 29.89 | 78. | II A.M. | 26 | |
| I | 20.90 | 21.00 | 119.4 | 5.00 | .65 | | 1 | | | 30.66 | 68. | 11 A.M. | 27 | |
| N | 20.84 | 20.84 | 120.0 | 5.00 | .67 | | 1 | | " | 30.47 | 70. | 11.30 A.M. | 28 | " |
| ABRAM Secretary an | 20.48 | 20.38 Average. | 117.0 | 4.85 | .64 | | | | | 29.93 | 78. | 11.30 A.M. | 29 | " |
| THOMAS V GEORGE V | 20.32 | 20.12 | 121.2 | 5.00 | .61 | | | oocker. | Knickerl | 29.51 | 77. | II A.M. | 24 | an. |
| GEORGE V | 20.64 | 19.66 | 126.0 | 5.00 | .63 | | | | | 30.15 | 76. | 11.30 A.M. | | |
| COM | 20.18 | 19.88 | 121.8 | 5.00 | .62 | " | | | | 29.89 | 77. | 10.30 A.M. | 151 | " |
| Rooms II. WM. PITT | 19.76 | 19.76 | 120.0 | 5.00 | .63 | | | | ** | 30.66 | 69. | 11.30 A.M. | | |
| | 20.04 | 20.66 | 116.4 | 5.00 | .66 | | | | " | 30.47 | 69. | II A.M | 28 | |
| AC Room 200, JAMES C. Secretary; | 22.56 | 22.90 Average. | 118.2 | 5.00 | .60 | | | | " | 29.93 | 78. | 12 M. | 29 | " |

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

Statement of Laboring Force Employed in the Department of Public Works during the Week ending January 29, 1887.

| NATURE OF WORK. | MECHANICS. | LABORERS. | TEAMS. | CARTS |
|---|------------|-----------|--------|-------|
| Aqueduct—Repairs, maintenance and strengthening | 33 | 112 | 10 | 6 |
| Supplying water to shipping | | | | |
| Laying Croton pipes | 3 | 11 | 2 | |
| Repairing and renewal of pipes, stop-cocks, etc | 49 | 97 | | 11 |
| Bronx River Works—Maintenance and repairs | 2 | 18 | I | |
| Repairing and cleaning sewers | 4 | 37 | | 17 |
| Repairs and renewals of pavement | 21 | 37 | | 8 |
| Boulevards, roads and avenuesMaintenance of | 13 | 32 | 7 | I |
| Roads, streets and avenues | I | 10 | 2 | |
| Totals | 126 | 354 | 22 | 43 |
| Increase over previous week | | | | |
| Decrease from previous week | 7 | 13 | | |

APPROVED PAPERS

d, That the resolution and ordinance for regulating, grading, setting curb-stones and Hundred and Fifty-fifth street, from the first new avenue west of Eighth avenue to St. ce, which was approved by the Mayor, October 27, 1886, be and is hereby annulled, d repealed.

by the Board of Aldermen, January 25, 1887. ed by the Mayor, January 31, 1887.

d, That the resolutions passed by the Board of Aldermen, on the occasion of the presen-Freedom of the City to M. Bartholdi, be engrossed, mounted on a scroll, enclosed in a and transmitted to M. Bartholdi; the expense thereof not to exceed the sum of two lars, and to be charged to the appropriation made for that purpose; the work to be he direction of a special committee of three, to be appointed by the President.

by the Board of Aldermen, January 25, 1887, and the President appointed Aldermen rell, Quinn, and Conkling as such committee. ed by the Mayor, January 31, 1887.

d, That permission be and the same is hereby given to Francis L. Weiss to erect and ring trough in front of his premises, No. 340 Stanton street, the work to be done and ed at his own expense, under the direction of the Commissioner of Public Works; such to continue only during the pleasure of the Common Council.

by the Board of Aldermen, January 18, 1887. I from his Honor the Mayor, February 2, 1887, without his approval or objections eto; therefore, as provided in section 75, chapter 410, Laws of 1882, the same became pted.

TIVE DEPARTMENT.

MAYOR'S OFFICE, NEW YORK, January 7, 1886. o section 9 of chapter 339, Laws of

by designate k Times " and the " Daily News" k times and the charge newspapers printed in the City k, in which notice of each sale of pawns or pledges by public auction by pawnbrokers, shall be published x days previous thereto, until other-

W. R. GRACE, Mayor.

MAYOR'S OFFICE,

EW YORK, December 31, 1885. the ordinance, approved April ad amended June 1, 1877, entitled, the to prevent the danger of hydro-y of the inhabitants of the City of notice is hereby given that all t large in the City of New York on

....

uary I, contrary to such ordinance, zed and disposed of as provided ound at the foot of Sixteenth street, is hereby designated as the place o captured must be delivered to the of. The Pound will be open from A. M. until five o'clock P. M. daily, pted, on and after the first day of

> WM. R. GRACE, Mayor.

ICIAL DIRECTORY.

T OF THE HOURS DURING WHICH slic Offices in the City are open for business, tch Court regularly opens and adjourns, as laces where such offices are kept and such ; together with the heads of Departments ECUTIVE DEPARTMENT Mayor's Office. 5 City Hall, 10 A. M. to 3 P. M. HEWITT, Mayor; ARTHUR BERRY, Chief Clerk. Mayor's Marshal's Office.

EDUCT COMMISSIONERS. wart Building, 5th floor, 9 A. M. to 5 P. M. ENCER, President ; JOHN C. SHEEHAN, IJAMIN S. CHURCH, Chief Engineer ; J. C.

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. 300 Mulberry street, 9 A. M. to 4 P. M. Stephen B. French, President; William H. KIPP Chief Clerk, John J. O'Brien, Chief Bureau of Elections. DEPARTMENT OF CHARITIES AND CORREC-TION.

Central Office. No. 66 Third avenue, corner Eleventh street, 8.30 A. M!

ISSIONERS OF ACCOUNTS. nd 115, Stewart Building, 9 A. M. to 4 P. M. HEARMAN, J. B. ADAMSON.

1 City Hall, 9 A. M. to 4 P. M. BYRNES, First Marshal. BROWN, Jr., Second Marshal. Staats Zeitung Building, third floor, 9 A. M. to 5 P. M. Saturdays, 9 A. M. to 4 P. M. E. HENRY LACOMBE, Counsel to the Corporation ; ANDREW T. CAMPBELL, Chief Clerk.

Requisitions on the Comptroller.

The total amount of requisitions drawn by the Department on the Comptroller during the week is \$16,610 17. D. LOWBER SMITH, Deputy Commissioner of Public Works.

No. 8 City Hall, 10 A. M. to 4 P. M. HENRY R. BEEKMAN, President Board of Alder FRANCIS J. TWOMEY, Clerk Common Council.

City Library. No. 12 City Hall, 10 A. M. 10 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. THOMAS H. MCAVOY, Superintendent. HENRY H PORTER, President GEORGE F. BRITTON, Secretary.

FIRE DEPARTMENT.

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

Headquarters.

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

Bureau of Chief of Department.

CHARLES O. SHAV, Chief of Department.

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

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

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

Attorney to Department.

WM. L. FINDLEY.

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

FEBRUARY II, 1887.

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. Alexander Shaler, 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, Circuit, Part IV., Room No. 15, J. LEWIS LVON, Clerk. Judges' Private Chambers, Rooms Nos. 19 and 20, EDWARD J. KNIGHT, Librarian. 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. o 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; B. W. ELLISON, Secretary. Office hours from 9 A. M. to 4 P. M. daily, except Satur-days; on Saturdays as follows: from October 1 to June 1, from 9 A. M. to 3 P. M.; from June 1 to September 30, from 9 A. M. to 12 M.

DEPARTMENT OF TAXES AND ASSESSMENTS. Staats Zeitung Building, Tryon Row, 9 A. M. to 4 P. M. Saturdays. 3 P. M. MICHAEL COLEMAN, President; FLOYD T. SMITH, Secretary.

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

DEPARTMENT OF STREET CLEANING. Nos. 31 and 32 Park Row, "World" Building, Rooms JAMES S. COLEMAN, Commissioner ; JACOB SEABOLD, JAMES S. COLEMAN, Commissioner ; M. HORNER, Chief Clerk,

CIVIL SERVICE SUPERVISORY AND EXAMIN-ING 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 : CHARLFS V. ADEE, Clerk.

BOARD OF ASSESSORS.

Office, City Hall, Room No. 111/2, 9 A. M. to 4 P. M. WARD GILON, Chairman ; WM. H. JASPER, Secretary. ED

BOARD OF EXCISE.

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

SHERIFF'S OFFICE.

Nos. 3 and 4 New County Court-house, 9 A. M. to 4 P. M. Hugh J. Grant, Sheriff; John B. Sexton, Under Sheriff: Bernard F. Martin, Order Arrest Clerk.

REGISTER'S OFFICE.

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

COMMISSIONER OF JURORS.

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

COUNTY CLERK'S OFFICE.

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

DISTRICT ATTORNEY'S OFFICE.

Second floor, Brown-stone Building, City Hall Park, 9 A. M. to 4 P. M. RANDOLPH B. MARTINE, District Attorney; ANDREW D. PARKER, Chief Clerk.

THE CITY RECORD OFFICE.

And Bureau of Printing, Stationery, and Blank Books

THE CITY RECORD.

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 ad-

journment. Special Term, Room No. 21, 11 o'clock A. M. to adjourn-

ment. Chambers, Room No. 21, 10.30 o'clock A M. to adjourn-

Channers, Koom Aron, 10' 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. Naturalization Bureau, Room No. 23, 9 A. M. to 4 F. M. Richard L. LAREMORE, Chief Justice; NATHANIEL JARVIS, Jr., Chief Clerk. Circuit, Part III., Room No. 13, GEORGE F. LYON, Clerk.

SUPERIOR COURT. Third floor, New County Court-house, II A. M.

Third floor, New County Court-house, 11 A. M. General Term, Room No 35. Special Term, Room No. 33. Chambers, Room No. 33. 10 A. M. Part II., Room No. 34. Part II., 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 F. M. John Septowick, Chief Judge; Thomas Boese, 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

CITY COURT. City Hall.

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

OYER AND TERMINER COURT.

New County Court-house, second floor, southeast cor-ner, 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

COURT OF SPECIAL SESSIONS.

At Tombs, corner Franklin and Centre streets, daily t 10.30 A. M., excepting Saturday. Clerk's Office. Tombs

DISTRICT CIVIL COURTS.

First District—First, Second, Third and Fifth Wards, outhwest 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. 6 GEORGE W. PARKER, Justice.

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

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

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

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

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

Ninth District—Twelfth Ward, No. 225 East One Hun-dred and Twenty-fifth street. HENRY P. McGown, Justice. Clerk's office open daily from 9 A. M to 4 P. M. Trial days Tuesdays and Fridays. Court opens at 9½ 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

4 P. M.

DEPARTMENT OF PUBLIC PARKS

TO CONTRACTORS.

PROPOSALS OR ESTIMATES FOR FUR-NISHING PARKKEEPERS UNIFORMS.

SEALED ESTIMATES FOR THE ABOVE WORK, indorsed with the above title, also with the name of the person or persons making the same, and the date of presentation, will be received at the Office of the De-partment of Public Parks, Nos. 49 and 51 Chambers street, until eleven of clock A. M., on Wednesday, the 23d day of february, 1887, at which place and hour the bids will be publicly opened by the head of said Department and read, and the award of the contract will be made as soon thereafter as practicale... The number and kind of uniforms [required is as fol-ows:

geants. Nine (9) single-breasted Uniform body coats for Roundsmen.

epers. One hundred and forty-four (144) pairs Uniform pants

said Uniforms will be forty (40) days after the date of the contract. The person or persons to whom the contract may be awarded will be required to attend at the office of the said Department, with the sureties offered by him or them, and execute the contract within five days after written notice that the same has been awarded to his or their bid or estimate, and that the sureties offered by him or them have been approved by the Comptroller; and in case of failure or neglect so to do, he or they will be con-sidered as having abandoned it, and as in default to the Corporation, and thereupon the contract will be readver-tised and relet, and so on until the contract be accepted and executed.

The process of the contract with the contract be accepted and executed. N. B.—The prices must be written in the estimate, and also stated in figures, and all estimates will be considered as informal which do not contain bids for all items called for in these proposals, or which contain bids for items not called for therein. Permission will not be given for the withdrawal of any bid or estimate, and the right is expressly reserved by the Department of Public Parks to reject any or all estimates which it may deem prejudicial to the public interests. No estimate will be accepted from, or contract awarded to any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation. No bid or estimate will be received or considered unless

The estimate must be verified by the oath, in writing, of the party making such estimate that the several mat-ters therein stated are in all respects true. When more than one person is interested in the estimate the verifi-cation must be made by all the parties interested.

than one person is interested in the estimate the verin-cation must be made by all the parties interested. Each estimate shall be accompanied by the con-sent, in writing, of two householders or freeholders in the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as his sureties for its faith-ul performance; and that if he shall omitor refuse to execute the same, they shall pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person to whom the contract may be awarded at any subsequent letting; the amount in each case to be calculated upon the estimated amount of the work by which the bids are tested. The context may be awarded shall be accompanied by the context may he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of the contract, and City of New York, and is worth the amount of the security required for the completion of the contract, and stated in the proposals, over and above all his debts of every nature, and over and above his liabilities, as bal, surety, or otherwise; that he has offered himself as surety in good faith and with an is tontion to execute the bond required by law. The adequacy and sufficiency of the security offered will be determined by the Comptroller of the City of New York after the award is made and prior to the signing of the contract. contract. Bidders will be required to complete the entire work to the satisfaction of the Commissioners of the Depart-ment of Public Parks, and in substantial accordance with the specificat ons. No extra compensation beyond the amount payable for the work before enumerated which shall be actually performed, at the price therefor to be specified by the lowest bidder, shall be due or payable for the entire work. shall be acmany performed, as hall be due or payable for the entire work. The amount of security required is one thousand seven hundred and fifty dollars (\$1.750). Bidders are informed that no deviation from the specifications will be allowed unless a written permis-sion shall previously have been obtained from the Com-missioners of the Department of Public Parks. Blank forms of proposals and form of agreement, in-cluding the specifications, and showing the mode of pay-ment for the work can be obtained on application to the Secretary at this office. M. C. D. BORDEN,

DEPARTMENT OF TAXES AND ASSESSMENTS.

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DEPARTMENT OF TAXES AND ASSESSMENTS, STAATS ZEITUNG BUILDING, New York.

IN COMPLIANCE WITH SECTION 817 OF THE City Consolidation Act of 1882, it is hereby adver-tised 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 1887, will be open for examination and correction from the second Monday of January, 1887, until the first day of May, 1887. 1887

All persons believing themselves aggrieved must make application to the Commissioners of Taxes and Assess-ments, 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.

AQUEDUCT COMMISSION.

Aqueduct Commissioner's Office, Room 209, Stewart Building, No. 280 Broadway, New York, January 31, 1887.

TO CONTRACTORS.

BIDS OR PROPOSALS FOR DOING THE work and furnishing the materials called for in the approved form of contract now on file in the office of the Aqueduct Commissioners, for the construction of addi-tional Shaft No. 13 A, situated on Section 7 of the New Croton Aqueduct, at about Station 112-400, will be re-restried at this office, until the 16th day of FEBRUARY, 1889, at 3 o'clock P. M., at which place and hour they will be publicly opened by the Aqueduct Commissioners, and the award of the contract for doing said work and fur-sioners as soon thereafter as practicable. Blank forms of said approved contract and the specifi-cations thereof, and the bids or proposals, and proper valoe plans for said work, and all other information also the plans for said work, and all other information aqueduct Commissioners, on application to the Secretary. By order of the Aqueduct Commissioners.

By order of the Aqueduct Commissioners.

JAMES G. SPENCER, President.

JOHN C. SHEEHAN, Secretary.

Aqueduct Commissioners' Office, Room 209, Stewart Building, No. 280 Broadway, New York, January 25, 1887.

TO CONTRACTORS.

BiDS OR PROPOSALS FOR DOING THE work and furnishing the materials called for in the approved form of contract now on file in the office of the Aqueduct Commissioners for the construction of Section is of the New Croton Aqueduct, being the New Gate-house at One Hundred and Thirty-fifth street in the City of New York, will be received at this office until FRIDAY, the rith day of FEBRUARY, 1887, at 2 o'clock P. M., at which place and hour they will be publicly opened by the Aqueduct Commissioners, and the award of the con-tract for doing said work and furnishing said materials will be made by said Commissioners as soon thereafter as practicable.

Blank forms of said approved contract and the speci-fications thereof, and bids or proposals and proper envelopes for their enclosure, and form of bonds; and also the plans for said work, and all other information required can be obtained at the above office of the Aque-duct Commissioners on application to the Secretary.

By order of the Aqueduct Commissioners

JAMES C. SPENCER, President. JOHN C. SHEEHAN, Secretary.

POLICE DEPARTMENT.

Police Department—City of New York, Office of the Property Clerk (Room No. 9), No. 300 Mulberry Street, New York 1886.

WNERS WANTED BY THE PROPERTY Clerk of the Police Department of the City of New York, No 300 Mulberry street, Room No. 9, for the following property, now in his custody, without claim-ants: Boats, rope, iron, lead, male and female clothing, boots, shoes, wine, blankets, damonds, canned goods, luquors, etc., also small amount money taken from prisoners and found by patrolmen of this Department IOHN F. HARRIOT, Property Clerk

JURORS.

NOTICE IN RELATION TO JURORS FOR STATE COURTS.

COURT OF COMMON PLEAS.

DEPARTMENT OF PUBLIC PARKS, Nos. 49 AND 51 CHAMBERS STREET New York, February 7, 1887.

ows: One (1) double-breasted Uniform body coat for Captain. Six (6) double-breasted Uniform body coats for Ser-

Roundsmen. One hundred and thirty-five (135) single-breasted Uniform body coats for Parkkeepers Fifteen (15) single-breasted Uniform body coats for Mounted Parkkeepers. Seven (7) pairs Uniform pants for Captain and Ser-ceants.

geants. Fifteen (15) pairs Uniform pants for Mounted Park-

One number and for y-total (eq.) and for y-total (eq.) and for Parkkeepers. Each and every of the foregoing articles to be made of the best West Point Cadet cloth, 54 inches wide, 22 ounces to the yard for coats and 18 ounces to the yard for points

The time for the completion of the work of furnishing said Uniforms will be forty (40) days after the date of the contract.

from, or contract awarded to any person who is in arrears to the Corporation. No bid or estimate will be received or considered unless accompanied by either a certified check upon one of the National or State Banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount of five per 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 con-taining 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 damages for such neglect or refusal ; but if he shall excute the contract within the time atoresaid the amount of his deposit will be returned to him. Bidders are required to state in their estimates, under oath, their names and places of residence; the names of all persons interested with them therein ; and if no other person be so interested, why shall distinctly state the fact; also, that such estimate is made without any con-nection with any other person making a bid or estimate for the same purpose, and that it is in all respects fair and without collusion or fraud ; and also, that no member of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The estimate must be verified by the oath, in writing, of the party making such estimate that the several mat-

hich days 9 A. M. to 3 P. M., except Saturdays, on hich days 9 A. M. to 3 P. M. THOMAS COSTIGAN, Supervisor; R. P. H. ABELL, Bookkeeper.

CORONERS' OFFICE.

Nos. 13 and 15 Chatham street, 8 A. M. to 5 P. M. Sun-days and holidays, 8 A. M. to 12.30 P. M.

MICHAEL J. B. MESSEMER, FERDINAND LEVY, FERDI-NAND EDMAN, JOHN R. NUGENT, Coroners; JOHN T. TOAL, Clerk of the Board of Coroners.

SUPREME COURT.

Second floor, New County Court-house, opens at 10.30 A. M. CHARLES H. VAN BRUNT, Presiding Justice ; JAMES A. FLACK, Clerk ; THOMAS F. GILROV, Deputy County Clerk.

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

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

Chambers, Room No. 11, WALTER BRADY, Clerk Circuit, Part I., Room No. 12, SAMUEL BARRY, Clerk. Circuit, Part II., Room No. 14, RICHARD J. SULLIVAN, Clerk.

court day. FREDERICK G. GEDNEY, Justice.

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

POLICE COURTS.

Judges-MAURICE J. POWER, J. HENRY FORD, JACOB PATTERSON, Jr., JAMES T. KILBRETH, JOHN J. GORMAN, HENRY MURRAY, SOLON B. SMITH, ANDREW J. WHITE, CHARLES WELDE, DANIEL O'REILLY, PATRICK G. CHARLES THE DUFFY. GEORGE W. CREGIER, Secretary. Office of Secretary, Fifth District Police Court, One Hundred and Twenty-fifth street, near Fourth avenue.

Second District-Jefferson Market.

Third District-No. 69 Essex street.

Fourth District-Fifty-seventh street, near Lexington

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

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

M. C. D. BORDEN, JOHN D. CRIMMINS, JESSE W. POWERS, Commissioners of Public Parks.

OFFICE OF THE COMMISSIONER OF JURORS, ROOM 127, STEWART BUILDING, CHAMBERS STREET AND BROADWAY, NEW YORK, June 1, 1886.

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

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 en-rollment 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. No attention paid to letters.

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

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

Every man must attend to his own notice. It is a mis-demeanor 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, m relation to a jury service, or to withhold any paper or make any false statement, and every case will be fully prosécuted.

CHARLES REILLY, Commissioner of Jurros.

FIRE DEPARTMENT.

HEADQUARTERS FIRE DEPARTMENT, 157 AND 159 EAST SIXTY-SEVENTH STREET, NEW YORK, February 4, 1887.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING AND laying fifty thousand (50,000) feet of Waring cable and for furnishing three hundred and ninety-six thousand (306,000) feet of wire of various kinds and sizes, will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 159 East Sixty-seventh street, in the Cty ary 16, 1887, at which time and place they will be publicly opened by the head of said Department and read. No estimate will be received or considered after the

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

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

The form of the agreement with specifications, show ing the manner of payment for the materials and work may be seen and forms of proposals may be obtained at the office of the Department.

Bidders will write out the amount of their estimates in addition to inserting the same in figures. The materials are to be delivered within thirty (30) days after the execution of the contract.

The damages to be paid by the contractor for each day that the contract may be unfulfilled after the time speci-fied for the completion thereof shall have expired, are fixed and liquidated at twenty (zo) dollars. The award of the contract will be made as soon as practicable after the opening of the bids.

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

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

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

one person is interested, it is requisite that the verification be made and subscribed by all the parties interested. Each bid or estimate shall be accompanied by the con-sent, in writing, of two householders or freeholders of business or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as sureties for its faithful performance in the sum of two thousand five hum-dred dollars (§2,§00); and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum of two thousand five hum-dred dollars (§2,§00); and that if he shall omit or refuse to execute the same, they will pay to the Corporation any difference between the sum to which he would be entitled on its completion and that which the Corporation may be obliged to pay to the person or persons to whom the con-tract may be awarded at any subsequent letting; the amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or affirmation, in writing, of each of the persons sign-ing the same, that he is a householder or freeholder in the City of New York, and is worth the amount of the security required for the completion of this contract, over and above all his debts of every nature, and over and above his liabilities as bail, surety or otherwise ; and that he has offered himself as a surety in good faith and with the intention to execute the bond required by law. The adequacy and sufficiency of the Security of New York before the award is made and prior to the signing of the considered unless accompanied by either a certified check upon one of the National

of New York before the award is made and phor to the signing of the contract. No estimate will be considered unless accompanied by either a certified check upon one of the National Banks of the City of New York, draun to the order of the Comptroller, or money to the amount of one hundred and twenty-five dollars (\$125). Such check or money must not be inclosed in the scaled 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 bid-der shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the Lity of New York as liquidated damages for such neglect or refusal; but if the shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

16, 1887, at which time and place they will be publicly opened by the head of said Department and read. Special attention is directed to the test of the hose by the Fire Department and the guarantee of the hose by the contractor, required by the specifications. No estimate will be received or considered after the hour named.

For information as to the description of the hose, bid-ders are referred to the specifications which form part of

ders are referred to the specifications when your problems these proposals. The form of the agreement, with specifications, and showing the manner of payment for the work, may be seen and forms of proposals may be obtained at the 'office of the Department. Bidders will write out the amount of their estimate, in addition to inserting the same in figures. The hose is to be delivered at the Repair shops of the Fire Department (Nos. 130 and 132 West Third street) on or before the ninetieth (goth) day after the execution of the contract. on or before th of the contract.

of the contract. The damages to be paid by the contractor for each day that the contract may be unfulfiled after the time speci-fied for the completion thereof shall have expired, are, by a clause in the contract, fixed and liquidated at twenty-five (25) dollars per day. The award of the contract will be made as soon as practicable after the opening of the bids. Any person making an estimate for the work shall present the same in a scaled envelope, to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its relates.

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

Each bid or estimate shall contain and state the name

as surety or otherwise, upon any obligation to the Corporation. Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therem; and if no other person be so interested, it shall distinctly state that fact; that it is made without collusion or traud; and that no member of the Common Council. Head of a Department, Chief of a Bureau, Deputy thereof or Clerk therein, **6** other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the coath, in writinc, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested. *Each tid or estimate shall be accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of the sign of two householders or freeholders of the same resident to the estimate, they will, on its being so awarded, become bound as sureties for its faithful performance in the sum of eight thousand (8,000) dollars; and that if he shall omit or refuse to execute the same, they shall pay to the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent persons signing the same that he is a householder or freeholder or freeholder in the City of New York, and is worth the bids are tested. The consent above mentioned shall be accompanied by the company of the work by which the bids are tested. The constant work we work, and is worth the amount of the security required for the completion of the contract, and stated in the proposed, over and above his inabilities as bail, surety or otherwise; that he has offered himself as a surety in good faith and with an*

approved by the Compiroller of the City of New York after the award is made and prior to the signing of the contract. *No estimate will be considered unless accompanied by either a certified check upon one of the National Banks of the City of New York, drawn to the order of the Comptroller, or money, to the amount four hundred dollars* (\$400). Such check or money must not be in-closed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Depart-ment 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, the persons making the same within three days after the contract is awarded. If the successful bidder shall re-fuse 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 forfield damages for such neglect or refusal; but if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him. Bould the person or persons to whom the contract within five days after written notice that the same has been awarded no siter written notice that at he same, and the genes or persons to whom the contract within the days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be contract and give the proper security, he or they shall be contract and give the proper security, he or they shall be contract and give the proper security, he or they shall be contract and give the proper security, he or they shall be contract and give the proper security, he or they shall be contract and give the proper security, he or they shall be contract and give the proper security, he or they shall be contract and give the proper security. He or they sha

HENRY D. PURROY, RICHARD CROKER, ELWARD SMITH, Commissioners.

HEADQUARTERS FIRE DEPARTMENT, 157 AND 159 EAST SIXTY-SEVENTH STREET, New York, February 2, 1887.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING FIF-Cross seamless fabric, four-ply rubber hose, with standard couplings attached, will be received by the Board of Com-missioners at the head of the Fire Department, at the office of said Department, Nos. 137 and 150 East Sixty-seventh street, in the City of New York, until 11 o'clock A. M., Wednesday, February 16, 1887, at which time and place they will be publicly opened by the head of said Depart-ment and read.

said office, on or before the date and hour above named, which envelope shall be endorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the supply to which its relates.

THE CITY RECORD.

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

Compract awarded to, any person who is in aircuits of the compaction upon debt or contract, or who is a defaulter, as survey or otherwise, upon any obligation to the Corporation.
Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same : the names of all persons interested with him or them therein ; and if no other person be so interested, it shall distinctly state that fact; that it is made without collusion or fraud : and that no member of the Common Council, Head of a Department, Chef of a Bureau, Deputy thereof or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested. *Each bid or estimate shall be acompanied by the consent, in writing, of two bondholders or freeholders of the City of New York, with their respective places of business or wresidene, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as surcties for its faithful performance in the sum of eight thousand (8,000) dollars : and that if he shall omit or reluse to execute not be obliged to pay to the person s persons to whom the comparition any difference between the sum to which he would be entitled on its completion, and that which the bids are companied by the oath or affirmation, in writing, of each of the persons signing the same that he is a householder or freeholder in the City of New York, and is worth the intention to execute the bond required by law. The adotted area to be signing of the soffered bindeed an any subsequent the inselife as a surety in good*

approved by the Comptroller of the City of New York before the award is made and prior to the signing of the contract. No estimate will be considered unless accompanied by either a certified check upon one of the National Banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of four hundred dollars (\$400). Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Estimate-box, and no estimate can be deposited in said box until such check or money has been examined by said officer or clerk and found to be correct. All such de-posits, except that of the successful bidder, will be re-turned to the persons making the same, within three days after the contract is awarded. If the successful bidder shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York, as liquidated damages for such neglect or refusal, but if he shall execute the contract within the time afore-said, the amount of his deposit will be returned to him. Thould the person or persons to whom the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it and as in default to the Corporation, and the contract will be readvertised and relet as provided by law. HENRY D. PURROY.

HENRY D. PURROY, RICHARD CROKER, ELWARD SMITH, Commissioners.

HEADQUARTERS FIRE DEPARTMENT, 157 AND 159 EAST SIXTY-SEVENTH STREET, New York, February 2, 1887.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING A second size La France Steam Fire Engine, will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 150 East Sixty-seventh street, in the City of New York, until 11 o'clock A. M., Wednesday, February 16, 1887, at which time and place they will be read.

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HENRY D. PURROY, RICHARD CROKER, ELWARD SMITH, Commissioners

HEADQUARTERS FIRE DEPARTMENT, 157 AND 159 EAST SIXTY-SEVENTH STREET, NEW YORK, February 2, 1887.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING ONE Second Size Clapp & Jones Steam Fire-Engine will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. r57 and r59 East Sixty-seventh street, in the City of New York, until r1 o'clock A. M., Wednes-day, February 16, 1887, at which time and place they will be publicly opened by the head of said Department and read.

No estimate will be received or considered after the

read. No estimate will be received or considered after the hour named. For information as to the amount and kind of work to be done, bidders are referred to the specifications, which form part of these proposals. The form of the agreement (with specifications) show-ing the manner of payment for the work, may be seen and forms of proposals may be obtained at the office of the Department. Bidders will write out the amount of their estimate, in addition to inserting the same in figures. This work to be completed and delivered within sixty (6o) days after the execution of the contract. The damages to be paid by the contractor for each day that the contract may be unfulfilled after the time speci-fied for the completion thereof shall have expired, are fixed and liquidated at twenty (\$20) dollars. The award of the contract will be made as soon as practicable after the opening of the bids. Any person making an estimate for the work shall present the same in a scaled envelope, to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation, and a statement of the work to which it relates.

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

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FEBRUARY II 1887.

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

HENRY D. PURROY, RICHARD CROKER, ELWARD SMITH, Fire Co missioners.

HEADQUARTERS FIRE DEPARTMENT, 157 AND 159 EAST SIXTY-SEVENTH STREET New York, February 2, 1887.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING fifteen thousand (15,000) feet of 2½ inch Peerless Manufacturing Company's (P) Brand seamless fabric, four-ply rubber hose, with standard couplings attached, will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 159 East Sixty-seventh street, in the City of New York, until 11 o'clock A.M., Wednesday, February

Special attention is directed to the test of the hose by the Fire Department and the guarantee of the hose by the contractor, required by the specifications. No estimate will be received or considered after the

ed.

hour named. For information as to the description of the hose, bidders are referred to the specifications which form part of these

The form of the agreement, with specifications, and thowng the manner of payment for the work, may be yeen and forms of proposals may be obtained at the office of the Department. Bidders will write out the amount of their estimate, in addition to inserting the same in figures. The hose is to be delivered at the Repair Shops of the Fire Department (Nos. 130 and 132 West Third street) on or before the sixtieth (60th) day after the execution of the contract.

on or before the sixtieth (6oth) day after the execution of the contract. The damages to be paid by the contractor for each day that the contract may be unfulfilled after the time speci-fied for the completion thereof shall have expired, are, by a clause in the contract, fixed and liquidated at twenty-five (\$25) dollars per day. The award of the contract will be made as soon as practicable after the opening of the bids. Any person making an estimate for the work shall present the same in a sealed envelope, to said Board, at

FEBRUARY II, 1887.

after the contract is awarded. If the successful bid-der shall refuse or neglect, within five days after notice that the contract has been awarded to him, to execute the same, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal; but, if he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him. Should the person or persons to whom the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it and as in default to the Corporation, and the contract will be readvertised and relet as provided by law.

HENRY D. PURROY, RICHARD CROKER, ELWARD SMITH,

('ommissioners

Headquarters Fire Department, 157 and 150 East Sixty-seventh Street, New York, February 2, 1887.

TO CONTRACTORS.

SEALED PROPOSALS FOR FURNISHING ONE Hayes turn-table hook and ladder truck, will be received by the Board of Commissioners at the head of the Fire Department, at the office of said Department, Nos. 157 and 150 East Sixty-seventh street, in the City of New York, until 11 o'clock A. M., Wednesday, February 16, 1887, at which time and place they will be publicly opened by the head of said Department and read. No estimate will be received or considered after the hour named. hour named.

heur named. For information as to the amount and kind of work to be done, bidders are referred to the specifications, which form part of these proposals. The form of the agreement (with specifications), show-ing the manner of payment for the work, may be seen, and forms of proposals may be obtained at the office of the Department. Bidders will write out the amount of their estimate in ordificon to insertior the sense in foruse

the Department.
Bidders will write out the amount of their estimate in addition to inserting the same in figures.
The truck to be completed and delivered within sixty (60) days after the execution of the contract.
The damages to be paid by the contractor for each day that the contract may be unfulfilled after the time specified for the completion thereof shall have expired, are fixed and liquidated at twenty (soc) dollars.
The award of the contract will be made as soon as practicable after the opening of the bids.
Any person making an estimate for the work shall present the same in a sealed envelope, to said Board, at said office, on or before the day and hour above named, which envelope shall be indorsed with the name or names of the person or persons presenting the same, the date of its presentation and a statement of the work to which it relates.
The Fire Department reserves the right to decline any and all bids or estimates will be accepted from, or contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation.

contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Cor-poration. Each bid or estimate shall contain and state the name and place of residence of each of the persons making the same; the names of all persons interested with him or them therein; and if no other person be so interested, it shall distinctly state that fact; that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and with-out collusion or fraud; and that no member of the Com-mon Council, Head of a Department, Chief of a Bureau, Deputy thereof, or Clerk therein, or other officer of the Corporation, is directly or indirectly interested therein, or in the supplies or work to which it relates, or in any por-tion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate, that the several matters stated therein are in all respects true. Where more than one person is interested, it is requisite that the verification be made and subscribed by all the parties interested. *Each bid or estimate shall be accompanied by the con-sent, in writing, of two honscholders or freeholders of the City of New York, with their respective places of basi-ness or residence, to the effect that if the contract be awarded to the person making the estimate, they will, on its being so awarded, become bound as sureties for its failing so empletion, and that which the Corporation may be obliged to pay to the person or persons to whom the contract may be awarded at any subsequent letting; the amount of the work by which the bids are tested. The consent above mentioned shall be accompanied by the oath or afirmation, in writing, of each of the persons signing the same, that he is a householder or frecholder in the City of New York, and is worth the amount of the security re-quired for the completion of this contract, over*

approved by the Compiroller of the City of New York before the award is made and prior to the signing of the contract. *No estimate will be considered unless accompanied by other a certified check upon one of the national banks of the City of New York, drawn to the order of the Comptroller, memory, to the amount of cighty-five (§85) dollars.* Such check or money must not be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Comptroller, 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 c ntract has been awarded to him. to be forfeited damages for such neglect or refusal, but if he shall execute the contract within the time afore-said, the shall execute the contract within the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corporation, and the contract will be readvertised and neel as provided by law MENRY D. PURROY, RICHARD CROKER,

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DEPARTMENT OF PUBLIC WORKS.

DRPARTMENT OF PUBLIC WORKS, COMMISSIONER'S OFFICE, ROOM 6, No. 31 CHAMBERS STREET, NEW YORK, February 2, 1887.

TO CONTRACTORS.

BIDS OR ESTIMATES, INCLOSED IN A SEALED envelope, with the title of the work and the name of the bidder indorsed thereon, also the number of the work as in the advertisement, will be received at this office until 12 o'clock M., Thursday, February 17, 1887, at which place and hour they will be publicly opened by the head of the Department and read.

No. 1. REGULATING AND GRADING McCOMB'S DAM ROAD, from One Hundred and Forty-ninth to One Hundred and Fifty-fifth street, and SETTING CURB AND GUTTER-STONES AND FLAGGING SIDEWALKS THEREIN.

No. 3. REGULATING AND GRADING SEVEN-TY-SEVENTH STREET, from the Boule-vard to the Riverside Drive, and SETTING CURB-STONES AND FLAGGING SIDE-WALKS THEREIN.

REGULATING AND GRADING NINETY-SEVENTH STREET, from the Boulevard to Riverside Drive, and SETTING CURB AND GUTTER-STONES AND FLAGGING SIDEWALKS THEREIN. No. 4.

No. 5. REGULATING AND GRADING ONE HUNDRED AND THIRTY-EIGHTH STRFET, from Tenth avenue to the Boule-vard, and SETTING CURB-STONES AND FLAGGING SIDEWALKS THEREIN.

DR THE CONSTRUCTION OF A RETAINING-WALL AND STAIRWAY WITH IRON RAILINGS, AND NECES-SARY EXCAVATION TO ADMIT OF THE ERECTION OF THE SAME, ON FORTY-THIRD STREET, between First avenue and Prospect place. No. 6. FOR

SEWER IN LEXINGTON AVENUE, between One Hundred and Twenty-second and One Hundred and Twenty-third streets. No. 7.

Each estimate must contain the name and place of resi

between One Hundred and Twenty-skote. between One Hundred and Twenty-skote. Can be stimate must contain the name and place of residence of the person making the same, the names of all persons interested, it shall distinctly state that fact. That it is made without any connection with any other person making an estimate for the same work, and is in all respects fair and without collusion or traud. That no member 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 of freeholders in the City of New York to the effect that if the contract is awarded to the person making the estimate, they will, you its being so awarded, become bound as his surfies for its faithful performance; and that if he shall refuse or neglect to execute the same, they will pay to the Corpora-tion any difference between the sum to which he would be entitled upon its completion, and that which he would be entitled upon its completion, and that which he con-tract shall be awarded at any subsequent letting; the amount to be calculated upon the estimated amount of the security required for the completion of the con-tract, over and above mentioned must be accompanied by the oath or affirmation, in writing, of each of the per-sonsigning the same, that he is a householder or free-holder in the City of New York, and is worth the amount of the security required for the completion of the con-tract, over and above all his debts of every nature, and over and above bis 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 certilie check upon one of the State or National bank

THE CITY Blank forms of bid or estimate, the proper envelopes in which to inclose the same, the specifications and agree-ments, and any further information desired, can be obtained, for Regulating and Grading, and for Retaining-Wall, Room 5, and for Sewer, Room 9, No. 31 Chambers street.

JOHN NEWTON, Commissioner of Public Works

DEPARTMENT OF PUBLIC WORKS, COMMISSIONER'S OFFICE, ROOM 6, NO. 31 CHAMBERS STREET, NEW YORK, February 2, 1387.

TO CONTRACTORS.

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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 ander the immediate notice of the Commis-sioner of Public Works, are requested to communicate directly in person, or by letter, with the Commissioner. JOHN NEWTON, Commissioner of Public Works.

DEPARTMENT OF PUBLIC WORKS, COMMISSIONER'S OFFICE, No. 31 CHAMBERS STREET, New YORK, November 10, 1886. J NOTICE TO CROTON WATER

CONSUMERS.

NUMEROUS APPLICATIONS HAVE BEEN made to this Department by citizens clauming reductions or rebates on bills for water supplied through meters, on the alleged ground of leakage caused by de-fective 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, sitks, etc., with-out the knowledge or consent of the owners of the prem-ises.

turned on in full force in water-closets, sinks, etc., with-ises. The main object of the use of water meters is to enable this Department to detect and check the useless and un-warrantable waste of an element so valuable and essential to the health and comfort of all the citizens, and this ob-ject 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 re-sponsible for the amount of water used or wasted. Norice 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 occu-pants of buildings, though such leakage or waste may have occurred without the knowledge or consent of the owners of the buildings. Meuse-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 he allowed for any portion of one year. JOHN NEWTON,

year.

One Hundred and Fufty-fifth street regulating, grad-ing, setting curb and guiter stones and flagging, from Elton to Courtlandt avenues. One Hundred and Forty-sixth street regulating, grad-ing, setting curb and guiter stones and flagging, and lay-ing crosswalks between North Third and St. Ann's avenues

avenues. Lincoln avenue paving, from Southern Boulevard to North Third avenue, with trap-block pavement. Fourth avenue paving, from Seventy-second to Ninety-sixth street, with granite-block pavement, which was confirmed by operation of law on July 13, 1885. Seventieth street paving, from Avenue A to a line about 650 feet easterly, with trap-block pavement. Seventy-third street paving, from Ninth avenue to a line about 225 feet west of Eighth avenue, with granite-block pavement.

line about 225 feet west of Eighth avenue, with granite-block pavement. Eighty-ninth street paving, from First avenue to Ave-nue A, with granite-block pavement. Ninety-third street paving, from Second avenue to Avenue A, with granite-block pavement. One Hundred and Forty-third street paving, from Alexander to Brook avenue, with trap-block pavement. One Hundred and Fifty-second street paving, from Avenue St. Nicholas to St Nicholas Place, with Telford-macedam navement.

Alexander to Brook avenue, with trap-block pavement. One Hundred and Fifty-second street paving, from Avenue St. Nicholas to St Nicholas Piace, with Telford-macadam pavement. One Hundred and Fifty-third street paving, from Tenth avenue to Avenue St. Nicholas, with granite-block pavement. One Hundred and Fifty-third street paving, from St. Nicholas place to Avenue St. Nicholas, with Telford-macadam pavement. Sixth avenue, flagging sidewalks four feet wide, from One Hundred and Twenty-fifth to One Hundred and Forty-fifth street. Sixth avenue and extending east about rio feet. Sixty-second street flagging, south side, between First and Second avenues Seventy-ninth street flagging, north side, from Ninth to Tenth avenue. Morris avenue, laying crosswalks, between North Third and Railroad avenues. Second avenue sewer, west side, between North Third and Railroad avenues. Second avenue sewer, west side, between histreet, between Second and Third avenues. Eighth avenue sewer, between One Hundred and Fourteenth and One Hundred and Sixty-seventh street, Sixty-sixth street sewer, between Eighth and Ninth avenues. Eighth avenue sewer, between Eighth and Ninth avenues. Sixty-sixth street sewer, between Eighth and Ninth avenues.

venues. Eighty-fourth street sewer, between Tenth and River-

Eighty-fourts. Eighty-eighth street sewers, between Madison and Fifth avenues, and in Madison avenue, between Eighty-seventh and Ninety-first streets. Eighty-eighth, Eighty-ninth and Ninetieth streets sewers, between Ninch and Tench avenues. One Hundred and Thirty-ninth street sewer, from the summit between Alexander and Willis avenues to Brock avenue.

One Hundred and Thirty-ninth street sewer, from the summit between Alexander and Willis avenues to Brook avenue. One Hundred and Forty-fourth street sewer, between Eighth avenue and first new avenue west of Eighth ave-nue, and in said new avenue, between One Hundred and Forty-second and One Hundred and Forty-fifth streets. One Hundred and Forty-fifth street sewer, north side, between Boulevard and Tenth avenue, and in Tenth avenue, west side, between One Hundred and Forty-fifth and One Hundred and Forty-sixth streets. One Hundred and Forty-sixth streets. One Hundred and Forty-sixth street sewer, between Avenue St. Nicholas and Tenth avenue. Eighth avenue and first new avenue west of Eighth ave-nue, with Franches in said new avenue, between One Hun-dred and Forty-fifth and One Hundred and Fifty-first streets.

nie, with tranches in said new avenue, between One Hundred and Forty-fifth and One Hundred and Fifty-first streets.
Kingsbridge road sewer, between One Hundred and Fifty-fifth and One Hundred and Fifty-sixth streets.
Westchester avenue and One Hundred and Fifty-fifth and One Hundred and Fifty-fifth and One Hundred and Fifty-fifth street sewers, between Brook and Courtlandt avenues, between One Hundred and Forty-ninth street and Westchester avenue.
—which were confirmed by the Board of Revision and Correction of Assessments January 14, 1887, and entered on the same date, in the Record of Titles of Assessments, kept in the "Burcau for the Collection of Assessments and Afraers of Taxes and Assessments and of Water Rents," that unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon as provided m section 97 of said "New York City Consolidation Act of 1882."
Section 97 of the said act provides that, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive interest thereon, at the rate of seven per centum per annum, to be calculated from the date of such assessments are payable to the Collector of payment."

be calculated from the date of such entry to the date of payment." The above assessments are payable to the Collector of Assessments and Clerk of Arrears at the "Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents," between the hours of 9 A. M. and 2 P. M., and all payments made thereon, on or before April 4, 1837, will be exempt from interest as above provided, and after that date will be subject to a charge of interest at the rate of seven per cent, per an-num from the date of entry in the Record of Titles of Assessments in said Bureau to the date of payment. EDWARD V. LOEW

EDWARD V. LOEW Comptroller.

REAL ESTATE RECORDS.

THE ATTENTION OF LAWYERS, REAL Estate Owners, Monetary Institutions engaged in making loans upon real estate, and all who are interested in providing themselves with facilities for reducing the cost of examinations and searches, is invited to these Official Indices of Records, containing all recorded trans-fers of real estate in the City of New York from 1653 to 1857, prepared under the direction of the Commissioners of Records.

Grantors, grantees, suits in equity, insolvents' and Sheriff's sales, in 61 volumes, full bound,

HENRY D. PURROY, RICHARD CROKER, ELWARD SMITH, Commissioners.

HEADQUARTERS FIRE DEPARTMENT, Nos. 157 & 159 EAST SIXTY-SEVENTH STREET, New York, January 26, 1887. NOTICE IS HEREBY GIVEN THAT THE Board of Commissioners of this Department will meet daily, at 10 o'clock A. M., for the transaction of business.

By order of

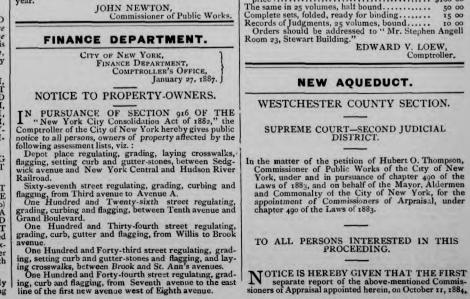
HENRY D. PURROY, President, RICHARD CROKER, ELWARD SMITH, Commissioners.

CARL JUSSEN, Secretary.

BIDS OR ESTIMATES, INCLOSED IN A SEALED envelope, with the title of the work and the name of the bidder indersed thereon, also the number of the work as in the advertisement, will be received at this office until 12 o'clock M., Thursday, February 17, 1887, at which place and hour they will be publicly opened by the head of the Department.

- No. 1. FOR LAYING WATER-MAINS IN TENTH, SEVENTH, FOURTH, MADISON, WEST END AND RIVERSIDE AVENUES AND ONE HUNDRED AND FORTY-NINTH, ONE HUNDRED AND FORTY-FOURTH, ONE HUNDRED AND THIRTEENTH, ONE HUNDRED AND THIRT, SEVENTY-SEVENTH STREETS, AND IN SOUTH-ERN BOULEVARD.
- R FURNISHING AND DELIVERING TAPPING-COCKS AND HYDRANT WASTE-COCKS. No. 2. FOR
- WASTE-COCKS. No. 3. FOR FURNISHING THE DEPARTMENT OF PUBLIC WORKS WITH THREE THOUSAND TWO HUNDRED (3,200) GROSS TONS (2,240 POUNDS TO A TON) OF EGG SIZE LEHIGH AND WILKESBARRE COMPANY'S BEST WILKESBARRE COAL. Sixteen hundred tons to be delivered at High Bridge and six-teen hundred tons to be delivered at Water Works, Ninety-seventh street and Ninth avenue.

Bidders for the above contracts must be regularly engaged in the business and well prepared for furnishing



which report was filed on January 14, 1887, in the office of the Clerk of Westchester County, at the Court-house, in the village of White Plains, in said county, will be presented for confirmation to the Supreme Court, at a Special Term thereof, to be held in the Second Judicial District, at the Court-house in Poughkeepsie, Dutchess County, on February 26, 1887, at 11 O'clock in the forenoon.

Dated New York, January 27, 1887.

E. HENRY LACOMBE, Counsel to the Corporation.

MANHATTAN ISLAND SECTION.

Notice of application for confirmation of the report of Commissioners of Appraisal, Manhattan Island Sec-tion, dated December 3, 1885, as to Parcels Twelve (12), Thirteen (13), Fourteen (14) and Fifteen (15).

PUBLIC NOTICE IS HEREBY GIVEN THAT IT is my intention to make application before Honora-be Joseph F. Barnard, at a Special Term of the Supreme Court of the State of New York, to be held in the Second Judicial District, at the Court-house in Poughkeepsie, Dutchess County, on the 26th day of February, 1857, at ro c'olock in the forenoon of that day, or as soon there-after as counsel can be heard, to confirm the report as to Parcels Twelve [12]. Thriteen [13]. Fourteen [14] and Fifteen [15], of the Commissioners of Appraisal appointed in the above matter, pursuant to the provisions of chap-ter 490 of the Laws of 1883, which said report was filed in the office of the Clerk of the County of Westchester, on the 27th day of January, 1887, and a copy of which was filed in the office of the Clerk of the County of New York on the same day. Dated New York, Ianuary 27, 1887.

Dated New York, January 27, 1887. E. HENRY LACOMBE, Counsel to the Corporation, No. 2 Tryon Row, New York City

BOARD OF EDUCATION.

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C WESLEY BAUM, GEORGE F. VETTER, O. ROCKEFELLER, CHARLES H. HOUSLEY, WILLIAM BRANDON, Board of School Trustees, Eighth Ward.

Dated New York, February 3, 1886.

DEPARTMENT OF PUBLIC CHAR-ITIES AND CORRECTION.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION, No, 66 THIRD AVENUE, NEW YORK, February 4, 1887.

THE UNDERSIGNED WILL SELL AT PUBLIC Auction, for account of the Commissioners of Public Charities and Correction, at their office, No. 66 Third avenue, on Wednesday, February 16, 1887, at 11 o'clock A. M., the following articles, viz. :

25,000 pounds Mixed Scrap Iron, more or less. 18,000 pounds Mixed Rags, more or less. 20 Syrup Barrels, more or less. 70 Iron-bound Barrels, more or less. 15,000 pounds Soap Grease, more or less. 1,250 barrels Bones.

-to be delivered at the foot of East Twenty-sixth street, and to be paid for as follows: Twenty-five per cent. of estimated value to be paid on day of sale, and the remainder on delivery.

R. E. CLEARY, Storekeeper

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

TO CONTRACTORS.

PROPOSALS FOR FIXTURES AND IMPLE-MENTS, STEAM-HEATING AND FUR-NISHING OF APPARATUS AND ALL THE APPLIANCES REQUIRED BY THE SUPERINTENDENT OF GEN-ERAL DRUG DEPARTMENT, FOR THE CHEMICAL LABORATORY AND STOREHOUSE FOR SPIRITS AND OILS, NOW BEING ERECTED ON GROUNDS OF BELLEVUE HOSPITAL.

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bilders will write out the amount of their estimate, in addition to inserting the same in figures. Payment will be made by a requisition on the Comp-troller, in accordance with the terms of the contract. BIDDERS ARE INFORMED THAT NO DEVIATION FROM THE SPECIFICATIONS WILL BE ALLOWED, UNLESS UNDER THE WRITTEN INSTRUCTIONS OF THE COMMISSIONERS OF PUBLIC CHARTIES AND CORRECTION. The form of the agreement, including specifications, and showing the manner of payment, can be obtained at the office of the Department, where the plans will be on exhibition for information of bidders. Dated New York February 2 1885

Dated, New York, February 3, 1887

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

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

TO CONTRACTORS.

PROPOSALS FOR GROCERIES, CROCK-ERY, DRY GOODS, IRON, LUMBER, ETC

SEALED BIDS OR ESTIMATES FOR FURNISH-GROCERIES.

- GROCERIES. 8,200 pounds Dairy Butter, sample on exhibition Thursday, February 10, 1887. 1,000 pounds Cheese. 1,000 pounds Dried Apples. 5,000 pounds Barley, price to include packages. 10,000 pounds Rapioca. 200 pounds Dried Currants. 200 pounds Dried Currants. 200 pounds Candles, 228. 2 5 barrels Pickles, 40-gallon barrels, 2,000 per barrel. 100 bushels Dried Peas. 3,000 gallons Syrup. 12 dozen Canned Pears. 40 dozen Canned Pears. 40 dozen Fresh Eggs, all to be candled. 50 prime City Curred Smoked Hams, to average about 14 pounds code.

2 bars first quality Blister Steel, ½ x 1½ in. 15 bars Refined Iron, ¼ x 1¼ in. 1 bundle Refined Iron, ¼ in. round. 1 bundle Refined Iron, ¼ in. round. 48 sheets Tinned Copper, 48 x 14, 18-02. 10 kegs Cut Nails, 84. 12 dozen Flat Shovels.

LIME

THE CITY RECORD.

25 barrels first quality Common Lime. 50 barrels first quality W, W. Lime. 25 barrels first quality Chloride of Lime, containing not less than 32 per cent. of Chloride.

LEATHER AND FINDINGS.

300 sides Good Damaged Sole Leather, to average about 22 to 25 pounds.
600 pounds first quality Sweede's Iron Shoe Nails, 200 pounds each 4-8, 5-8, 6-8.

LUMBER.

in at inc. inst quality seasoned white Oak, 4
 in. x4 in.
 450 superficial feet first quality seasoned White Oak, 1½ in.
 150 superficial feet first quality seasoned White Oak, 2 in.

SEALED BIDS OR ESTIMATES FOR FURNISH-ing eleven hundred and eighty-five (1,185) tons White Ash Coal, as required, during the year 1867, and in accordance with the specifications, will be received at the office of the Department of Public Charities and Correction, No. 66 Third avenue, in the City of New York, until 9.30 o'clock A. M. of Friday, the 18th of February. 1887. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for 1,85 Tons White Ash Coal," with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the President of said Department and read. The BOARD OF PUBLIC CHARTIES AND CORRECTION RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTI-ASTES IF DEEMED TO BE FOR THE PUBLIC INTEREST, S PROVIDED IN SECTION 64, CHAPTER 410, LAWS OF 282. Oak, 2 in. 50 first quality Spruce Plank, 15% in. 125 first quality Ceiling Boards, clear, thoroughly seasoned, 7% in. x 45% in., dressed, tongued and grooved. All lumber to be delivered at Blackwell's Island.

All lumber to be delivered at Blackwell's Island. --will be received at the Department of Public Charities and Correction, in the City of New York, until 9.30 o'clock A. M. of Friday, February 11, 1887. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Groceries, Dry Goods, Lumber, etc," with his or their name or names, and the date of presentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the President of said Department and read. The BOARD OF PUBLIC CHARITIES AND CORRECTION RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTI-MATES IF DEEMED TO BE FOR THE PUBLIC INTEREST, AS PROVIDED IN SECTION 64, CHAPTER 410, LAWS OF 182.

MATES IF DEEMED TO BE FOR MATTER 410, LAWS OF AS PROVIDED IN SECTION 64, CHAPTER 410, LAWS OF 1882. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corpo-ration upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corpo-ration. The award of the contract will be made as soon as practicable after the opening of the bids. Delivery will be required to be made from time to time, and in such quantities as may be directed by the said Commissioners. Any bidder for this contract must be known to be en-gaged in and well prepared for the business, and must have satifactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the performance of the contract by his or their bond, with two sufficient sureties, each in the penal amount of three thousand (3,000) dollars.

As PROVIDED IN SECTION 64, CHARTER AS PROVIDED IN SECTION 64, CHARTER AS PROVIDED IN SECTION 64, CHARTER AS TRANSPORTED AND A CONTRACT, NO BIG AND AND A CONTRACT, OF WHO IS A DEFAULTER, AS SUPERY OF Otherwise, upon any obligation to the Correction.

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damages for such neglect or refusal ; but if he shall exe-cute the contract within the time aforesaid, the amount of his deposit will be returned to him. Thould the person or persons to whom the contract may be awarded neglect or refuse to accept the contract within five days after written notice that the same has been awarded to his or their bid or proposal, or if he or they accept, but do not execute the contract and give the proper security, he or they shall be considered as having abandoned it, and as in default to the Corpora-tion; and the contract will be readvertised and relet as provided by law. The quality of the articles, supplies, goods, wares, and prechandise must conform in every respect to the same or achieves the same on exhibition at the office of the said Department. Bidders are cautioned to examine the specifications for particulars of the articles, etc., re-wired, before making their estimates. Bidders will state the price for each article, by which the bids will be tested. Bidders will write out the amount of their estimate in addition to inserting the same in figures. They accordance with the terms of the contract, from time to time, as the Commissioners may determine. Bidders are informed that no deviation from the speci-fications will be allowed, unless under the written instruc-tion of the Commissioners of Public Charities and Correc-tor. No bid or estimate will be accepted from, or a contract

No bid or estimate will be accepted from, or a contract awarded to, any person who is in arrears to the Corpora-tion upon debt or contract, or who is a defaulter, as surrety or otherwise, upon any obligation to the Corpora-

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

Dated New York, January 31, 1887. HENRY H. PORTER, President, THOMAS S. BRENNAN, Commissioner, CHARLES E. SIMMONS, Commissioner, Public Charities and Correction.

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

TO CONTRACTORS.

PROPOSALS FOR ELEVEN HUNDRED AND EIGHTY-FIVE TONS OF WHITE ASH COAL.

SEALED BIDS OR ESTIMATES FOR THE aforesaid job, in accordance with the specifications and plans, will be received at the office of the Department of Public Charities and Correction, No. 66 Third avenue, in the City of New York, until 9,30 o'clock A. M. of Tuesday, February 15, 1882. The person or persons making any bid or estimate shall furnish the same in a sealed envelope, indorsed "Bid or Estimate for Fix-tures, etc., for General Drug Department Building, etc., on Grounds of Bellevue Hospital, City of New York," and with his or their name or names, and the date of pre-sentation, to the head of said Department, at the said office, on or before the day and hour above named, at which time and place the bids or estimates received will be publicly opened by the President of said Depart-ment, and read. THE BOARD OF PUBLIC CHARITIES AND CORRECTION SEALED BIDS OR ESTIMATES FOR THE aforesaid job, in accordance with the specifications

THE BOARD OF PUBLIC CHARITIES AND CORRECTION

THE BOARD OF PUBLIC CHARTIES AND CORRECTION RESERVES THE RIGHT TO REJECT ALL BIDS OR ESTIMATES IF DEEMED TO BE FOR THE PUBLIC INTEREST, AS PRO-VIDED IN SECTION 64, CHAPTER 410, LAWS OF 1882. No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Corpora-tion upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corpora-tion.

surety or otherwise, upon any congeneration. The award of the contract will be made as soon as practicable after the opening of the bids. Any bidder for this contract must be known to be en-gaged in and well prepared for the business, and must have satisfactory testimonials to that effect; and the person or persons to whom the contract may be awarded will be required to give security for the per-

- 2,720 dozen Fresh Eggs, all to be candled.
 50 prime City Cured Smoked Hams, to average about 14 pounds each.
 625 barrels good, sound Irish Potatoes, to weigh 168 pounds net per barrel.
 50 barrels prime Red Onions, 150 pounds net per barrel.
 100 barrels prime Carrots, 130 pounds net per barrel.
 100 barrels prime Russia Turnips, 135 pounds net per barrel.
 100 barrels prime quality long bright Rye Straw, tare not to exceed three pounds. Weight charged as received at Blackwell's Island.
 100 barrels prime quality Sal Soda, about 340 lbs. per barrel.

CROCKERY.

2 gross Male Urinals.

DRY GOODS.

500 yards White Flannel. 50 dozen Black Spool Cotton No. 30. 200 Toilet Quilts.

- Toulet Quits.
 IRON AND HARDWARE.
 20 bars Refined Iron, 3" x 2".
 16 bars Refined Iron, 7" square.
 36 bars Refined Iron, 4" square.
 295 bars Refined Iron, 4" x 14".
 12 bars Refined Iron, 4" x 14".
 20 feet first quality Angle Iron, 4x 1½ in.
 20 inder first quality Angle Iron, 4x x 16 in.
 21 to bars Refined Iron, 30 in. round.
 2 bundles Refined Iron, 4 x 1% in.

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FEBRUARY II, 1887.

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

The contract will be relative fisted and refer as provided by law. Bidders will write out the amount of their estimate, in addition to inserting the same in figures. Payment will be made by a requisition on the Comp-troller in accordance with the terms of the contract. Bidders are informed that no deviation from the speci-fications will be allowed, unless under the written instruc-tion of the Commissioners of Public Charities and Cor-rection.

No bid or estimate will be accepted from, or contract awarded to, any person who is in arrears to the Cor-poration upon dept or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corpora-tion

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

Dated NEW YORK, February 5, 1887.

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

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION, No. 66 THIRD AVENUE, NEW YORK, January 13, 1887.

PROPOSALS FOR 2,000 TONS OF FRESH MINED WHITE ASH STOVE COAL FOR THE OUT-DOOR POOR.

PROPOSALS, SEALED AND INDORSED AS above, will be received by the Board of Public Charities and Correction, at their office, until 9.30 o'clock A. M., of Friday, February 18, 1887, at which time they will be publicly opened and read by the President of said Board, for 2,000 tons Fresh Mined White Ash Stove Coal, of the best quality; each ton to consist of two thousand pounds; to be well screened, and delivered in such quantities and in such parts of the city as may be required in specifications, and ordered from time to time, south of Eighty-fourth street, to be subject o such inspection as the Commissioners may direct, and and meanter of delivery in every respect. The award of the contract will be made as soon as

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

practicable after the opening of the bids. No proposal will be considered unless accompanied by the consent, in writing, of two householders or freeholders of the City of New York, with their respective places of business or residence, to the effect that if the contract be awarded, become bound as sureties in four thousand (4,000) dollars each, for its faithful performance; which consent must be verified by the justification of each of surety required. The adequacy and sufficiency of such security to be approved by the Comptroller. No bid or estimate will be received or considered

surety required. The adequacy and sumicipate of such security to be approved by the Comptroller. No bid or estimate will be received or considered unless accompanied by either a certified check upon one of the National or State banks of the City of New York, drawn to the order of the Comptroller, or money to the amount of five per centum of the amount of the security required for the faithful performance of the contract. Such check or money must Nor be enclosed in the sealed envelope containing the estimate, but must be handed to the officer or clerk of the Department who has charge of the Esti-mate-box, and no estimates 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 shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him. The Board of Public Charities and Correction reserves

The Board of Public Charities and Correction reserves the right to reject all bids if deemed for the best interests of the city, and no proposal will be accepted from, or a contract awarded to, any person who is in arrears to the Corporation upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the Corporation. Corpor

Blank forms of proposals and specifications, which are to be strictly complied with, can be obtained on applica-tion at the office of the Department, and all information furnished. furnished.

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

NEW YORK, February 5, 1887.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION. No. 66 THIRD AVENUE, NEW YORK, February 7, 1887.

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

At Workhouse, Blackwell's Island-Thomas Ash-fellow, aged 34 years; committed December 27, 1886. John Williams, aged 42 years ; committed January 27, 1887.

At Branch Lunatic Asylum, Hart's Island-Jane Doe, alias Lizzie Hogan, colored, aged 36 years; 4 feet 11% inches high; black eyes and hair.

Ann McCauley, aged 61 years ; 5 feet 3 inches high ;

At Workhouse, Blackwell's Island-Charles Shears, aged so years ; committed January 12, 1887. At Lunatic Asylum, Blackwell's Island-Annie Kelly, aged of years ; 4 feet 11 inches high ; gray hair ; blue eyes. Had on when admitted, striped shawl, black dress ; slippers. At Homœopathic Hospital, Ward's Island-John Daly, aged 31 years ; 5 feet 6 inches high ; brown eyes and hair. Had on when admitted brown coat and vest, dark mixed pants ; gaiters ; black derby hat. Nothing known of their friends or relatives.

By order.

G. F. BRITTON, Secretary.

CORPORATION NOTICE.

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

sors, for examination by all persons interested, viz.: List 2269, No. 1. Regulating, grading, setting curb and gutter stones, flagging the sidewalk four feet wide, and laying crosswalks in One Hundred and Forty-eighth street, from the easterly curb-line of North Third avenue to westerly curb-line of St. Ann's avenue. List 2378, No. 2. Paving Eighty-ninth street, from Second to Fifth avenue. List 2325, No. 3. Sewer in One Hundred and Forty-first street, between Avenue St. Nicholas and Tenth avenue

avenue. List 2331, No. 4. Flagging north side of Eighty-third street, from First to Second avenue. The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—

No. 1. Both sides of One Hundred and Forty-eighth street, from North Third to St. Ann's avenue, and to the extent of half the block at the intersecting avenues. No. 2. Both sides of Eighty-ninth street, from Second to Fith avenue, and to the extent of half the block at the intersecting automatic

to Fifth avenue, and to the extent of man the forty-first intersecting, avenues. No. 3. Both sides of One Hundred and Forty-first street, from avenue St. Nicholas to Tenth avenue, east side of new Ninth avenue, from One Hundred and Thirty-ninth to One Hundred and Forty-third street, and blocks bounded by One Hundred and Fortieth and One Hundred and Forty-second streets, new Ninth ave-nue and Tenth avenue.

One Hundred and Forty-second streets, new Ninth ave-nue and Tenth avenue. No. 4. North side of Eighty-third street, from First to Second avenue. All persons whose interests are affected by the above-named assessments, and who are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessors, at their office, No. 11½ City Hall, within thirty days from the date of this notice. The above-described lists will be transmitted, as pro-vided by law, to the Board of Revision and Correction of Assessments for confirmation, on the 7th day of March, 1887.

of Assessmer March, 1887.

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

OFFICE OF THE BOARD OF ASSESSORS, NO. 11½ CITY HALL. NEW YORK, February 5, 1887.

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

Thereby, the the following assessments have been completed and are lodged in the office of the Board of Assessors, for examination by all persons interested, viz. :
List 2256, No. 1. Regulating, grading, setting curbstones, flagging sidewalks, laying crosswalks and paving East One Hundred and Thirty-fifth street, with trapblocks, the roadway therein, from North Third avenue, between Southern Boulevard and North Third avenue.
List 2273, No. 2. Laying crosswalks in Willis avenue, between Southern Boulevard and North Third avenue.
List 2273, No. 2. Regulating, grading, curb and flagging in One Hundred and Fifty-seventh street, from Tenth avenue to the Boulevard.
List 2323, No. 4. Regulating, grading, setting curbstones and flagging in One Hundred and Twelfth street, from Seventh to Eighth avenue.
The limits embraced by such assessments include all the several houses and lots of ground, vacant lots, pieces and parcels of land situated on—
No. 2. Both sides of East One Hundred and Thirty-fifth street, from North Third avenue to the Mott Haven canal, and to the extent of half the block at the intersecting streets and avenues.
No. 2. Both sides of One Hundred and Fifty-seventh street, between Tenth avenue and the Boulevard, and to the extent of half the block at the intersecting streets and avenues.
No. 4. Both sides of One Hundred and Fifty-seventh.
All persons whose interests are affected by the above-fame dasessments, and won are opposed to the same, or either of them, are requested to present their objections in writing to the Chairman of the Board of Assessing the date of this notice.
The above-described lists will be transmitted, as provided by law, to the Board of Revision and Correction of Assessments for confirmation, on the zist day of February, 1887.

ruary, 1887.

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

OFFICE OF THE BOARD OF ASSESSORS, NO. 11½ CITY HALL, NEW YORK, January 19, 1887.

SUPREME COURT.

affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the twenty-second day of March, 189. "Third.—That the limits embraced by the assessment aforesaid are as follows, to wit : All those lots, pieces or parcels of land, situate, lying and being in the City of New York which taken together are bounded and de-scribed as follows, viz. : northerly by the southerly side of Jerome avenue and by a line drawn at right angles, or nearly so with the easterly side of Gerard avenue at its protection of the block between Gerard and Mott avenues : easterly by the centre line of the blocks be-tween Gerard avenue and Railroad, Mott and Walton avenues and Marchwood place : southerly by the north-erly side of One Hundred and Thirty-fifth street and avenues and Marchwood place : southerly by the north-erly side of One Hundred and Thirty-fifth street and avenues and Marchwood place : southerly by the north-erly side of One Hundred and Thirty-fifth street and avenues and Marchwood place : southerly by the north-erly side of One Hundred and Thirty-fifth street and avenues and Marchwood place : southerly by the north-erly side of One Hundred and the lines of streets, avenues, roads, public squares or places shown and laid out upon any ment of Public Parks, pursuant to the provisions of chap-ter such and red of the Laws of eighteen hundred and a eighty-two, as such area is shown upon our burger four hundred and ten of the Laws of eighteen hundred and eighty-two, as such area is shown upon our be the thereof, to be held at the Chambers thereof in the Count Court-house, at the City Hall, in the City of New York, on the fifteenth day of April, t887, at the point of the Court on that day, and that them and thereo, as soon thereafter as counsel can be head thereon. The New York, an the fifteenth day of April, t887, at the point of the Court on that day and that them and thereon and wor

Dated New York, January 29, 1887.

LUKE F. COZANS, J. DANA JONES, JOHN WHALEN, Commissioners,

CARROLL BERRY, Clerk.

In the matter of the application of the Commissioners of the Department of Public Parks, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title wherever the same has not been heretofore acquired, to that part of a certain street or avenue known as BALLEY AVENUE, although not yet named by proper authority, com-mencing at Sedgwick avenue, and running to its junc-tion with the north line of Boston avenue in the Twen-ty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by said Department.

NOTICE IS HEREBY GIVEN THAT THE BILL N office IS HEREBY GIVEN THAT THE BILL of the costs, charges and expenses incurred by reason of the proceedings in the above-entitled matter, will be presented for taxation to one of the Justices of the Supreme Court, at the Chambers thereof, in the County Court-house at the Chambers thereof, in the County Court-house at the Chambers thereof, in the County Court-house at the City Hall, in the City of New York, on the seventeenth day of February, 1887, at 10½ o'clock in the forenoon of that day, or as soon thereafter as counsel can be heard thereon; and that the said bill of costs, charges and expenses has been deposited in the office of the Department of Public Works, there to remain for and during the space of ten days Dated New York February 4, 1887.

Dated New York, February 4, 1887. GEORGE W. MCLEAN, HENRY M. WHITEHEAD, WILLIAM H. BARKER,

Commissioners.

CARROLL BERRY, Clerk.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Com-monalty of the City of New York, relative to acquiring tile wherever the same has not been heretofore ac-quired to that part of SEDGWICK AVENUE (although not yet named by proper authority), extend-ing from the Twenty-third Ward line to the Fordham Landing road, in the Twenty-fourth Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given an application will be made to the Supreme Gourt of the State of New York, at a Special Term of said Court to be held at Chambers thereof, in the County Court-house, in the City of New York, on Friday, the 4th day of March, 1887, at the opening of the Court on that day, or as soon thereafter as coursel can be heard thereon, for the appointment of Commissicers of stimute and Assessment in the above-entitled matter. The nature and extent of the improvement hereby in-behalf of the Mayor, Aldermen and Commonalty of the City of New York, for the use of the public, to all the appurtenances thereto belonging, required for the opening of a certain street or swente, known as Sedgwick avenue, from the Twenty-third Ward line to the Fordham of Mew York, as the same has been heretofore laid out and designated as a first-class street or road by the partment of Public Parks, being the following described lots, pieces or parcels of land, viz. : PARCEL "A."

PARCEL "A"

PARCE "A." Beginning at a point in the southern line of the land ac-quired for the eastern approach to the bridge across the Harlem river at One Hundred and Eighty-first street, distant 643 % feet northwesterly from the intersection of southern line of the land acquired for said bridge approach with the western line of Aqueduct avenue. Tst. Thence northwesterly along the land acquired for the eastern approach to the bridge across the Harlem river at One Hundred and Eighty-first street for 75 % feet; ad. Thence southwesterly, deflecting 98° 43' 36" to the left for 1,121 % feet; dth. Thence southwesterly, deflecting 75° 10' to the right for 1994% feet; dth. Thence southwesterly, curving to the left on the arc of a circle tangent to the preceding course, whose radius is 153 % feet for 80 % feet; sth. Thence southersterly along the radial line drawn through the southern extremity of the preceding course for 11 feet; thence southerly, deflecting 90° to the right for 32 feet; thence southerly, deflecting 90° to the right for 32 feet; thence southerly, deflecting 90° to the right for 34

ist. Thence northwesterly along the land acquired for the eastern approach to the bridge across the Harlem river at One Hundred and Eighty-first street for 75 for feet; 2d. Thence northeasterly, deflecting 81° 16' 24" to the right for 772 for feet; 3d. Thence northeasterly, deflecting 7° 45' to the right for 531 for ; 4th. Thence northeasterly, deflecting 6° 40' to the right for 508 for ; 4th. Thence northeasterly, deflecting 6° 40' to the right for 508 for ;

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for $5_{31}\frac{4}{69}$ feet; 4th. Thence northeasterly, deflecting 6° 40' to the right for $508\frac{7}{169}$ feet; 3th. Thence northeasterly, deflecting 4° 34' 35" to the left for $508\frac{7}{169}$ feet 6; 6th. Thence northeasterly, curving to the right on the arc of a circle tangent to the preceding course, whose radius is $508\frac{7}{169}$ feet for $348\frac{7}{169}$ feet; 7th. Thence northeasterly on a line tangent to the pre-ceding course for $406\frac{7}{169}$ feet; 8th. Thence northeasterly, curving to the left on the arc of a circle tangent to the preceding course, whose radius is $345\frac{7}{169}$ feet for $268\frac{7}{169}$ feet; oth. Thence northeasterly on a line tangent to the pre-ceding course for $40\frac{7}{169}$ feet; noth. Thence northeasterly on a line tangent to the pre-ceding course for $73\frac{7}{169}$ feet; roth. Thence northeasterly, curving to the right on the arc of a circle tangent to the preceding course, whose radius is $744\frac{7}{169}$ feet for $320\frac{7}{169}$ feet to a point of reverse curve; Note that the preceding course of a circle tangent to the pre-terding course for $73\frac{7}{169}$ feet for $320\frac{7}{169}$ feet to a point of reverse curve;

are of a circle tangent to the picture of a circle tangent to the picture of a circle tangent to the picture of a circle tangent to the picture, whose radius is 754_{100}^{36} feet for 320_{100}^{36} feet of a circle tangent to the picceding course, whose radius is 404_{100}^{36} feet for 144_{100}^{36} feet; 12th. Thence northeasterly on a line tangent to the picceding course for 208_{100}^{36} feet; 13th. Thence northeasterly on a line tangent to the picceding course for 208_{100}^{36} feet; 13th. Thence northerly, curving to the left on the arc of a circle tangent to the picceding course, whose radius is 345_{100}^{36} feet for 34_{100}^{36} feet; 14th. Thence northerly on a line tangent to the picceding course, whose radius is 325_{100}^{36} feet for 306_{100}^{36} feet; 15th. Thence northeasterly, on a line tangent to the picceding course for 306_{100}^{36} feet; 16th. Thence northeasterly on a line tangent to the picceding course for 306_{100}^{36} feet; 17th. Thence northeasterly on a line tangent to the picceding course for 306_{100}^{36} feet; 17th. Thence northeasterly on a line tangent to the picceding course for 356_{100}^{36} feet; 17th. Thence northeasterly on a line tangent to the picceding course for 356_{100}^{36} feet; 18th. Thence northeasterly on a line tangent to the picceding course for 153_{100}^{36} feet; 18th. Thence northeasterly on a line tangent to the picceding course, whose radius is 518_{100}^{36} feet for 304_{100}^{36} feet; 19th. Thence northeasterly on a line tangent to the picceding course for 153_{100}^{36} feet; 18th. Thence northeasterly on a line tangent to the picceding course for 354_{100}^{36} feet; 19th. Thence northeasterly on a line tangent to the picceding course for 354_{100}^{36} feet to a point of reverse curve; 20th. Thence northeasterly on 304_{100}^{36} feet to a point of reverse curve;

preceding course for 153% feet;
righ. Thence northeasterly, curving to the right on the arc of a circle tangent to the preceding course, whose radius is 617% feet for 304% feet to a point of reverse curve;
ach. Thence northeasterly on a line tangent to the preceding course for 197% feet;
arts. Thence northeasterly, curving to the left on the arc of a circle tangent to the preceding course, whose radius is 637.6% feet;
arts. Thence northeasterly, curving to the left on the arc of a circle tangent to the preceding course, whose radius is 404.7% feet for 544% feet;
arts. Thence northeasterly on a line tangent to the preceding course for a03% feet;
arts. Thence northeasterly on a line tangent to the preceding course for a04% feet;
ath. Thence northeasterly on a line tangent to the preceding course for 184% feet;
ath. Thence northeasterly on a line tangent to the preceding course for 184% feet;
ath. Thence northeasterly along said lands of Sedgwick avenue for Boston avenue;
ath. Thence southerly, curving to the left on the arc of a circle tangent to the preceding course for 184% feet;
ath. Thence southerly, curving to the right on the arc of a circle tangent to the preceding course for 184% feet;
ath. Thence southerly, curving to the right on the arc of a circle tangent to the preceding course for 184% feet;
ath. Thence southwesterly on a line tangent to the preceding course for 184% feet;
ath. Thence southwesterly, ourving to the right on the arc of a circle tangent to the preceding course, whose radius is 479% feet for 63% feet;
ath. Thence southwesterly, ourving to the right on the arc of a circle tangent to the preceding course for 184% feet;
ath. Thence southwesterly on a line tangent to the preceding course for 33% feet;
ath. Thence southwesterly on a line tangent to the preceding course for 33% feet;
ath. Thence southwesterly on a line tange

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G. F. BRITTON Secretary.

DEPARTMENT OF PUBLIC CHARITIES AND CORRECTION, No. 66 THIRD AVENUE, New York, January 31, 1887.

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

At Morgue, Bellevue Hospital, from foot of Cortlandt street, unknown man, aged about 30 years; 5 feet 7 inches high; sandy hair, blue eyes, sandy moustache. Had on black overcoat, dark brown mixed coat and pants, dark vest, blue shirt, red flannél shirt; gaiters.

pants, dark vest, blue shirt, red flannel shirt; gaiters. Unknown man, from Hudson and Laight streets, aged about 50 years; 5 feet 6 inches high; 1 ight brown hair and moustache, mixed with gray, gray eyes. Had on black overcoat, dark mixed vest and pants, blue check jumper, white canton flannel shirt and drawers, brown cotton socks; boots; cloth cap. At Penitentiary, Blackwell's Island—Thomas Hen-derson, colored; aged 18 years; 5 feet 6 inches high. Had on when received, black striped coat, gray dotted pants, brown striped vest; cloth cap.

In the matter of the application of the Commissioners of the Department of Public Parks, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of GERARD AVENUE, although not yet named by proper authority, from One Hundred and Thirty-fifth street to Jerome avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by said Department.

W F. THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners, occu-pant or occupants, of all houses and lots and improved or when it may concern, to wit: Tirst.—That we have completed our estimate and assessment, and that all persons interested in these pro-restings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 73 Wil-liam street (thur floor), in the said city, on or before the twenty-second day of March, 1887, and that we, the said Commissioners, will hear parties so objecting within the ten week-days next after the said twenty-second day of March, 1887, and for that purpose will be in attendance at our said office on each of said ten days at 3 o'clock P. M. Second.—That the abstract of the said estimate and assessment, together with our maps, and also all the

for in left; 6th. Thence southerly, deflecting 90° to the right for 32 feet; 7th. Thence westerly, deflecting 90° to the right for in feet; 8th. Thence southerly, deflecting 90° to the left for 9th feet to the boundary line between the Twenty-third and Twenty-fourth Wards; 9th. Thence southeasterly along the boundary line between the Twenty-third and Twenty-fourth Wards for 57% feet; 10th. Thence northerly, deflecting 100° 16' 15'' to the left for 133% feet; 11th. Thence northerly, curving to the right on the arc of a circle tangent to the preceding course, whose radius is 7t $\frac{1}{20}$ feet for 37% feet; 12th. Thence northeasterly on a line tangent to the preceding course for 277% feet; 13. Thence northeasterly, deflecting 15° 10' to the left for 1,062 $\frac{2}{20}$ feet to the point of beginning. PARCEL "B.

PARCEL "B.

Beginning at a point in the northern line of the land acquired for the eastern approach to the bridge across the Harlem river at One Hundred and Eighty-first street, distant $678_{700}^{+0.5}$ feet westerly from the intersection of the northern line of the land acquired for said bridge approach with the western line of Aqueduct avenue.

are on a circle tangent to the preceding course, whose curve; 44th. Thence southwesterly on the arc of a circle tan-gent to the preceding course, whose radius is 679.5^{36}_{10} feet for 285.5^{36}_{10} feet; 45th. Thence southwesterly on a line tangent to the preceding course for 73.5^{36}_{10} feet; 45th. Thence southwesterly, curving to the right on the arc of a circle tangent to the preceding course, whose radius is 420.5^{36}_{10} feet for 326.5^{36}_{10} feet; 47th. Thence southwesterly on a line tangent to the preceding course for 326.5^{36}_{10} feet; 47th. Thence southwesterly on a line tangent to the preceding course for 326.5^{36}_{10} feet; 47th. Thence southwesterly on a line tangent to the preceding course for 305.5^{36}_{10} feet; 47th. Thence northwesterly on a line tangent to the preceding course, $6.7.5^{36}_{10}$ feet; 47th. Thence northwesterly on a line tangent to the preceding course, $6.7.5^{36}_{10}$ feet; 47th. Thence southwesterly, deflecting $4^{\circ} 34' 45''$ to the right for $50.7.5^{36}_{10}$ feet; 57th. Thence southwesterly, deflecting $6^{\circ} 40'$ to the left for 527.5^{36}_{10} feet;

stst. Thence southwesterly, deflecting 5° 40 to the left for $522\frac{29}{100}$ feet; sad. Thence southwesterly, deflecting 7° 45' to the left for $770\frac{1}{100}$ feet to the point of beginning. And as shown on certain maps filed by the Commis-sioners of the Department of Public Parks, in the office of the Register of the City and County of New York, in the office of the Secretary of State of the State of New York, and in the Department of Public Parks. Dated New York, January 28, 1887.

E. HENRY LACOMBE, Counsel to the Corporation, No. 2 Tryon Row, New York City.

In the Matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Com-monalty of the City of New York, relative to the Opening of ONE HUNDRED AND FIFTIETH STREET, from Tenth avenue to Avenue St. Nicholas, in the Twelfth Ward of the City of New York.

WE, THE UNDERSIGNED, COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners, occupant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit: First—That we have completed our estimate and assessment, and that all persons interested in these pro-ceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office,

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No, 73 William street (third floor), in the said City, on or before the twenty-second day of March, 1887, and the twenty-second day of March, 1887, and for that we, the said Commissioners, will hear parties so objecting within the ten week days next after the said twenty-second day of March, 1887, and for that proceed will be in attendance at our said office on each of said ten days, at a 'o'clock M.''
Teord—That the abstract of the said estimate and assessment, together with our maps, and also all the didukts, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the case of the Department of Public Works, in the case of the didukts, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the case of the didukt, estimates and other documents which were used by one of the didukt, estimates and other documents which were used by the same the office of the Department of Public Works, in the case of the didukt, estimates and other documents which were used by one of the didukt, estimates and other documents which were the odifice of the Department of Public P

Dated New York, January 29, 1887. DAVID G. YUENGLING, JR., EUGENE S. IVES, GEORGE F. LANGFEIN, Commissioners

CARROLL BERRY, Clerk.

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

NINTH STREET, from the Boulevard to Tenth avenue, in the Twelfth Ward of the City of New York. PURSUANT TO THE STATUTES IN SUCH application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at Chambers thereof, in the County Court-house in the City of New York, on Friday, the 4th day of march, 1887, at the opening of the Court on that day, or a soon thereafter as consel can be heard thereon, for the appointment of Commissioners of Estimate and Assess-ment in the above-entitled matter. The nature and ex-tend of the improvement hereby intended, is the acquisi-tion of tille in the name and on behalf of the Mayor, Al-for the use of the public, to all the lands and premises, with the buildings thereon and the appartenances thereto belonging, required for the opening of a certain street or avenue known as One Hundred and Thirty-ninth street, from the Boulevard to Tenth avenue, in the Twelfth Ward of the City of New York, being the following. Careibed lots, pieces or parcels of land, viz. — March, 1890 feet 100 inches southerly from the southerly line of One Hundred and Fortueth street; thence easterly and parallel with said street appered to the City of New York, being the following. Careibed lots, pieces or parcels of land, viz. — May deng said line 65 feet 2 inches; thence southerly and along said line 65 feet 2 inches; thence southerly and along said line 65 feet 2 inches; thence southerly and along said line 65 feet 2 inches; thence southerly and along said line 65 feet 2 inches; thence easterly and along said line 65 feet 2 inches; thence southerly and along said line 65 feet 2 inches; thence southerly and along said line 65 feet 2 inches; thence southerly and along said line 65 feet 2 inches; thence southerly and along said line 65 feet 2 inches; thence southerly and along said line 65 feet 2 inches; thence southerly and along said line 65 feet 2 inches; thence southerly and along said line 65 feet 2 inches; thence so

Dated New York, January 28, 1887.

E. HENRY LACOMBE, Counsel to the Corporation, No. 2 Tryon Row, New York City.

In the matter of the application of the Board of Street Opening and Improvement of the City of New York, for and on behalf of the Mayor, Aldermen and Com-monalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of FOREST AVENUE (although not yet named by proper authority), ex-tending from the southerly side of Home street to the southerly side of Boston road, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by the Department of Public Parks.

Determined by the Department of Public Parks.
PURSUANT TO THE STATUTES IN SUCH cases made and provided, notice is hereby given that an application will be made to the Supreme Court of the State of New York, at a Special Term of said Court, to be held at chambers thereof, in the County Court-house, in the City of New York, on Friday, the 4th day of March, 1887, at the opening of the court on that day, or as soon thereafter as counsel can be heard thereon, for the appointment of Commissioners of Estimate and Assessment in the above-entitled matter. The nature and extent of the inprovement hereby intended is the acquisition of tile, in the name and on behalf of the Mayor, Aldermen and Commonality of the City of New York, for the use of the public, to all the lands and premises, with the buildings thereon and the appurtenances thereto belonging, required for the opening of a certain street or avenue, known as Forest avenue, from the southerly side of Boston road, in the Twenty-third Ward of the City of New York, as a first-class street or road by the Department of Public Parks, being the following-described iots, pieces are and the southern line of Home street, being the following described in the opening of Forest (concord) avenue from the southern side of Deubic Porest (concord) avenue from the southern side of Deman place to Home street from the southern side of Deman place to Home street from the southern side of Deman place to Home street from the southern side of Deman place to Home street from the southern side of Deman place to Home street from the southern side of Deman place to Home street for the opening of Forest avenue from the southern side of Deman place to Home street from the southern side of Deman place to Home street from the southern side of Deman place to Home street from the southern side of Deman place to Home street from the southern side of Deman place to Home street from the southern side of Deman place to Home street from the southern side of Deman flace to Home street from the

In the Matter of the Application of the Commissioners of the Department of Public Parks for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of a certain street or avenue known as TINTON AVE-NUE, although not yet named by proper authority, commencing at Kelly street, and running to its inter-section with the south line of Westchester avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first class street or road by said Department.

Then the provide the city of New York, as the same has been heretofore laid out and designated as a first class street or road by said Department.
We for Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners, occuming roceupants, of all houses and lots and improved on it may concern, to wit:
Trist—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and to all others whom it may concern, to wit:
Trist—That we have completed our estimate and assessment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who is not poposed to the same, do present their objections in writing, duly verified, to us at our office, No. 73
William street, (third floor), in the said city, on or before the twelfth day of March, 1857, and that we, the said commissioners, will hear parties so objecting within the ten week-days next after the said studit day of March, 1857, and that we, the said days at 3 o'clock P.M.
Second—That the abstract of the said estimate and favits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of March, 1887.
Thid—That the limits embraced by the assessment aforesaid are as follows, to wit: All those lots, pieces or parcels of land, situate, lying and being in the City of Westrebaster avenue and the southerly side of One Holock Detry is it. I northerly by the contrely side of Mestrebaster avenue and the southerly side of Mestrebaster avenue and the southerly side of Mestrebaster avenue and the southerly side of the blocks between Tinton avenue and Union avenue; southerly by the centrel ine of the blocks between Tinton avenue and union avenue; southerly by the centrely by the centrely by the centrely by the centrely by the contrely side of Kelly street and westerly by the centre line

CARROLL BERRY, Clerk.

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

WE, THE UNDERSIGNED COMMISSIONERS VV of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners, occu-pant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others when it may concern to with.

matter, hereby give notice to the owner or owners, occu-pant or occupants, of all houses and lost and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit. : First—That we have completed our estimate and assess-ment, and that all persons interested in these proceedings, or in any of the lands affected thereby, and who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No. 73 William street third floor), in the said city, on or before the rath day of March, r887, and that we, the said Commissioners will hear parties so objecting within the ten week-days next after the said r2th day of March, r887, and for that purpose will be in attendance at our said. office on each of said ten days, at 3 o'clock P. M. Second—That the abstract of the said estimate and assessment, together with our maps, and also all the affidavits, estimates and other documents which were used by us in making our report, have been deposited in the office of the Department of Public Works, in the City of New York, there to remain until the rath day of March, r887. Third—That the limits embraced by the assessment aforesaid are as follows, to wit : All those lots, pieces or parcels of land, situate, lying and being in the City of New York, which taken together, are bounded and de-scribed as follows, viz.: northerly by the centre line of the blocks between Kelly street and Dawson street : easterly by the westerly side of Prospect avenue ; south-erly by the centre line of the blocks between Kelly streets and avenues heretofore opened, and all the un-improved land included within the lines of streets, avenues, roods, public squares or places shown and laid out upon any map or maps filed by the Commis-sioners of the Department of Public Parks, pursuant to the provisions of chapter four hundred and ten of the Laws of eighteen hundred and seventy-four, and the laws aforesaid.

aforesaid. Fourth—That our report herein will be presented to the Supreme Court of the State of New York, at a Special Term thereof, to be held at the Chambers thereof, in the County Court-house, at the City Hall, in the City of New York, on the 1st day of April, 1887, at the opening of the Court on that day, and that then and there, or as soon thereafter as coursel can be heard thereon, a motion will be made that the said report be confirmed. Dated New York, January 19, 1887. G. M. SPEIR, Ir.

RECOURD: who may be opposed to the same, do present their objections in writing, duly verified, to us at our office, No.73 William street third floor), in the said city, on or before the 1ath day of March, 1887, and that we, the said Commissioners, will hear parties so objecting within the two week-days next after the said rath day of March, 1887, and for that purpose will be in attendance at our said office on each of said ten days at three o'clock P. M. Econd—That the abstract of the said estimate and assessment, together with our maps, and also all the afficiential of the Department of Public Works, in the City of March, 1887. Third—That the limits embraced by the assessment for the Department of Public Works, in the City of March, 1887. Third—That the limits embraced by the assessment for soft, which taken together, are bounded and described as follows, twit: All those lots, pieces or New York, there to remain until the 12th day of the soft of land, situate lying and being in the City of New York, which taken together, are bounded and described as follows, viz: Northerly by the southerly soft of Mestchester avenue; westerly by the centre line of the blocks between Wales avenue and Robbins and the unimproved land included within the lines of the savenue and Tinton avenue ; excepting from said and the streets and avenue is heretofore opened and provisions of chapter six hundred and four of the swe of eighteen hundred and seventy-four and the laws on the streets and avenues is excepting from said the unimproved land included within the lines of the savenue on the morther and eighty-two, as such as avenue and Tinton avenue ; excepting from said the unimproved land included within the lines of the savenue on the earther and eighty-two, as such as avenue on the earther and eighty-two, as such the savenue on the first day of Aler, 1887, at the provisions of chapter six hundred and four of the swe of eighteen hundred and seventy-four and the laws of the Departher here in will

G. M. SPEIR, Jr., JNO. O'BYRNE, JOHN T. BOYD, Commissioners.

CARROLL BERRY, Clerk.

NOTICE OF APPLICATION FOR APPRAISAL.

APPRAISAL. PUBLIC NOTICE IS HEREBY GIVEN THAT it is the intention of the Counsel to the Corporation of the City of New York to make application to the Supreme Court for the appointment of Commissioners of Appraisal, under chapter 400 of the Laws of 1883. Such application will be made at a Special Term of said Court, to be held in the Second Judicial District, at the Court-house in Poughkeepsie, Dutchess County, on the twenty-sixth day of February, 1887, at 11 o'clock in the forenoon. The object of such application is to obtain an order of Court appointing three disinterested and competent free-hedsers, of whom two shall reside in the County of New York, as commissioners of Appraisal to ascertain and appraise the compensation to be made to the owners and all per-sons interested in the real estate hereinafter described, as proposed to be taken or affected for the purposes indicated in chapter 400 of the Laws of 1883. The real estate sought to be taken or affected as alore-sid is located in part in the town of Mount Pleasant, Westchester County, and in part in the town of Green-torny, in White Plains, Westchester County, as follows : First-Upon a map filed in said Register's office on the day of December, 1886, and bearing the following cer-indicate, to wit: We the Counts in the office of the carry out the

ad day of December, 1880, and Dearing the following cer-tificate, to wit: We, the Commissioners appointed to carry out the provisions of chapter 490 of the Laws of 1883 of the State of New York, do hereby certify that this is one of six similar maps prepared in accordance with the provi-sions of said act for amending proceedings and including other property in the manner shown and described upon the plan adopted by us on the rath day of November, 1880, as follows:

FINAL PLAN SHEET NO. 9 A.

FINAL PLAN SHEET NO. 9 A. THE AQUEDUCT COMMISSION. For the more efficient carrying out of the provisions of chapter 400 of the Laws of 1833 of the State of New York, we, the Commissioners appointed to carry out the provi-sions of said chapter of said laws, do hereby approve and adopt this plan for the construction of a new aqueduct upon the line adopted and filed by us on the 7th day of May 1884, and as shown upon the property maps adopted by us on the 9th day of July 1884, and filed in the office of the Register of the Contry of Westchester upon the 28th day of August 1884; this plan being for a modification of the plans hitherto adopted, by including other property to be taken in fee as shown upon this plan and designated hereon as Parcels Nos, 712A, B, C, D, E, F, G, H, I, J and K; and Nos, 15¹⁵, 716¹⁵, 21 and 718¹⁵; and we direct this plan to be filed as "Final Plan Sheet No. 9A." May use the adopted by us in the maner prescribed in said act this 16th day of November, 1886.

| JAMES C. SPENCER, | 1 |
|-------------------------------|------|
| WILLIAM DOWD, | 1 |
| C. C. BALDWIN, | 1 |
| OLIVER W. BARNES, | Com |
| E L. RIDGWAY, | sion |
| JOHN NEWTON, | 1 |
| Commissioner of Public Works, | |
| HAMILTON FISH, JR., | J |

And of which the following is a statement of the exter-nal boundaries, by courses and distances, within which are included all real estate and easements to be taken or affected in the acquirement in fee of additional lands at Shaft Site 8, in the town of Mount Pleasant, Westchester County.

and along the lands of William W. Carson and of Susan N. Leggett 1,238 feet; thence (2) along a stone wall across the lands of said Susan N. Leggett south 42° of east 166 feet; thence (3) across the lands of said Susan N. Leggett and William W. Carson, parallel to the afore-said easterly line, and distant 150 feet therefrom, south 22° 37 west 422 feet; thence (4) across the lands of said Carson south 54° of 45° west 287_{15} feet to the place of beginning, including within sud boundaries the parcels numbered 755_{27} , 755_{27} and 713_{25} , and containing 3460° acres, more or less. All of which lands are to be taken in fee simple

numbered 715%, 710% and 710%, and 710%, and 710%, and 710% acres, more or less. All of which lands are to be taken in fee simple. Second—Upon a map filed in the office of the said Register on the 2gh day of December, 1886, and bearing the following certificate, to wit: We, the Commissioners appointed to carry out the pro-visions of chapter 490, of the Laws of 1883, do hereby certify that this is one of the six similar maps prepared in accordance with the provisions of said act for a mending proceedings and including other property in the manner shown and described upon the plan adopted by us on the rath day of November, 1886, as tollows : FINAL PLAN SHEET NO.3 A.

FINAL PLAN SHEET NO. 3 A.

FINAL PLAN SHEET NO.3 A. FOR the more efficient carrying out of the provisions of chapter 400 of the Laws of 1883 of the State of New York, We, the Commissioners appointed to carry out the pro-visions of said chapter of said laws, do hereby approve and adopt the plan this day submitted to us by the Chief Engineer, for amending the proceedings heretofore taken and to acquire the fee simple in lieu of the easement heretofore acquired upon Parcel No. 299 and part of Parcel 300 in the town of Greenburg, County of Westchester, as the same are shown upon the maps filed in the office of the Register of said County on the 28th day of August 1884; and to acquire the fee simple in certain additional lands adjoining the aforesaid parcels, all as shown upon said plan, and designated Parcels 290, 2904; 300 A, 3004; and 3004 : and we direct said plan to be filed as "Final Plan Sheet 3 A." And we do further certify that said six similar maps have been adopted by us in the manner prescribed in said act this 16th day of November, 1886. ILAMES C. SPENCER, WILLIAM DOWD, C. C. BALDWIN, OLIVER W. BARNES, E. L. RIDGWAY, JOHN NEWYON, Commissioner of Public Works, HAMULTON FISH. Ir.

Commissioner of HAMILTON FISH, Jr of Public Works. NEW YORK, NOV

New York, November 16, 1886. And of which the following is a statement of the exter-nal boundaries, by courses and distances, within which are included all real estate and easements intended to be taken or affected in acquiring the fee simple of certain lands for Shaft Site 15½, Town of Greenburgh, West-chester County. All those pieces or parcels of land situate in the Town of Greenburgh, Westchester County, which are included within the following boundaries : Beginning at a point, now marked by a stake bearing the letters "A.C.," upon the northerly line of the highway known as the Ravensdale road or Jackson avenue, where said line is intersected by the westerly line of the survey of the New Croton Aqueduct route, and distant at a right angle 33 feet from the centre line of said survey as the same is shown upon the map filed in the office of the Register of Westchester County, on the 28th day of fugurat, 1884; and running thence (1) north 27° 12° east footh for thence (2) south 62° 48° cast 328 % feet, cross-ing the aforesaid centre line at a right angle 55% feet thence (4) south 2° 55' cast 275 feet; thence (5) south 87° 56 west 283 % feet; thence (6) north 62° 48° west 184 % feet to the easterly line of the aforesaid survey; thence (7) along said easterly line for the 37° rz' west 203 % feet; thence (8) north 48° 21° west 203 % feet to the fasterly line of the aforesaid survey; thence (6) and saisterly line of the aforesaid survey; thence (7) along said easterly line south 27° rz' west 203 % feet; thence (8) north 48° 21° west 63 % feet to the place of beginning; containing 4 Å% acres, more or less. All of which lands are to be taken in fee simple. Dated New York, January 15, 1886.

Dated New York, January 15, 1886. E. HENRY LACOMBE, Counsel to the Corporation.

In the matter of the application of the Commissioners of the Department of Public Parks, for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of LINCOLN AVENUE (although not yet named by proper authority), from Southern Boulevard to the United States Channel line of the Harlem river, in the same has been heretofore laid out and designated as a first-class street or road by said Department.

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ton road; 3d. Thence northwesterly along the southern line of Boston road for 113 100 feet; 4th. Thence southerly, deflecting 151° ao' 33'' to the right, for 905 feet to the point of beginning. And as shown on certain maps filed by the Commis-sioners of the Department of Public Parks, in the Office of the Register of the City and County of New York, in the Office of the Secretary of State of the State of New York, and in the Department of Public Parks. Dated New York Learner of 2487

Dated New York, January 28, 1887. E. HENRY LACOMBE, Counsel to the Corporation, No 2 Tryon Row, New York City.

G. M. SPEIR, Jr. JNO O'BYRNE, JOHN T. BOYD, Commi

In the matter of the application of the Commissioners of the Department of Public Parks for and on behalf of the Mayor, Aldermen and Commonalty of the City of New York, relative to acquiring title, wherever the same has not been heretofore acquired, to that part of a certain street or avenue known as WALES AVE. NUE, although not yet named by proper authority, commencing at Kelly street and running to its inter-section with the south line of Westchester avenue, in the Twenty-third Ward of the City of New York, as the same has been heretofore laid out and designated as a first-class street or road by said Department.

CARROLL BERRY, Clerk.

WE THE UNDERSIGNED COMMISSIONERS W^E THE UNDERSIGNED COMMISSIONERS of Estimate and Assessment in the above-entitled matter, hereby give notice to the owner or owners, occu-pant or occupants, of all houses and lots and improved or unimproved lands affected thereby, and to all others whom it may concern, to wit: First—That we have completed our estimate and assessment, and that all persons interested in these pro-ceedings, or in any of the lands affected thereby, and

affected in the acquirement in fee of additional lands at Shaft Site 8, in the town of Mount Pleasant, Westchester County. All those pieces or parcels of land situate in the town of Mount Pleasant, Westchester County, which are included within the following boundaries: Beginning at a point upon the lands of George Hart on the westerly line of the present highway, known as the "Sleepy Hollow Road," which point is distant upon a course of south 22° 37' west 496 feet from the middle of the pocantico river, and is now marked by a stake bear-ing the letters "A. C."; and running thence (1) north 2° 37' east across the lands of said Hart and the lands of the estate of William H. Aspinwal, deceased, 1.07556 feet to a point in the aforesaid Sleepy Hollow Road; which point is distant upon said course to feet from the westerly line of said Sleepy Hollow Road; thence (2) north 75° 52' east across said road and across the lands of Susan N. Leggett 305 leet to the westerly line of the lands heretofore taken by the City of New York, and day of August, 1884; thence (3) along said westerly line of said lands south 22° 37' west 830 feet; south 40° rd 4° of west across the lands of William W. Carson 384 feet to the easterly line of the said Sleepy Hollow road; thence (5) along the said estances, viz.; South 35° 45' west 27 dev set 8776 feet; south 36° 41' west 17176 feet; thence (6) north 50° 44' west across said road 34 feet to the place of beginning, including withm said boundaries Parcels Nos. 27 at A, B, C, D, E, F, G, H, I, J and K, and containing 37 ming, including withm said boundaries Parcels Nos. 27 at A, B, C, D, E, F, G, H, I, J and K, and containing 37 ming at a point upon the easterly line of the lands hards being designated "Parcel No. 72" on the map fied in the office of the Register of Westchester County on the 28th day of August, 1884, and which point is now marked by a stake bearing the letters "A. C." and run-ning thence (1) along said easterly line orth 22° 37' east

en and there, o. ard thereon, a motion will be-confirmed. Dated New York, January 4, 1887. NATHL. JARVIS, CHARLES REILLY, CHAS. W. WELSH, Commissioner CARROLL BERRY, Clerk.

THE CITY RECORD.

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