

ANNUAL REPORT

OF THE

Croton Aqueduct Department,

MADE TO THE COMMON COUNCIL OF THE CITY OF NEW
YORK, JANUARY 7, 1861.

FOR THE YEAR 1860.

DOCUMENT No. 2.

Board of Aldermen,
JANUARY 7, 1861.

NEW YORK:

EDMUND JONES & CO., CORPORATION PRINTERS,

No. 29 JOHN STREET.

1861.

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Croton Aqueduct Department,

ORGANIZED

UNDER A LAW OF THE LEGISLATURE

Of the State of New York,

PASSED APRIL 11, 1849.

Croton Aqueduct Board.

PRESIDENT COMMISSIONER,

THOMAS STEPHENS,

COMMISSIONER,

THOMAS B. TAPPEN,

ENGINEER,

ALFRED W. CRAVEN.

Bureau of Pipes, Sewers and Pavements.

AARON B. ROLLINS, Water Purveyor.

Bureau of Water Tests.

REVO C. HANCE, Registrar.

DOCUMENT No. 2.

BOARD OF ALDERMEN,

JANUARY 7, 1861.

The Annual Report of the Croton Aqueduct Department was received, laid on the table, and ordered to be printed.

D. T. VALENTINE, *Clerk.*

CROTON AQUEDUCT DEPARTMENT,
NEW YORK, January 1st, 1861.

To the Honorable the Common Council :

In obedience to the direction contained in the law creating this Department, the Croton Aqueduct Board begs leave to present the Annual Report, showing, under their respective heads, the operations and expenditures of the Department for the past year.

The receipts of the Department have been :

For water rents.....	\$756,831 89
“ penalties.....	10,337 73
“ sewer connections.....	24,391 00
“ permits for vaults.....	23,241 81
“ permits for taps in pipes.	2,477 50
“ sundries (petty cash)....	2,877 78
Total.....	\$820,157 71

See schedules numbered from 1 to 6, inclusive. Schedule No. 7 exhibits the weekly payments into the City Treasury, as per receipts of the City Chamberlain. The unexpended balances from 1859, with the several appropriations for 1860, are stated in connection with the expenditures in the following table:

	Appropriations, including balances from 1859.	Expenditures in 1860.
Croton Water Works extension	\$642,108 43	\$642,108 43
Aqueduct repairs and improvements	22,249 41	17,654 21
Water pipes and laying	120,109 40	110,032 44
Street expenses and repairing	121,844 17	121,180 00
Sewers, rebuilding, repairing, and cleaning	70,000 65	45,921 05
Wells and pumps, repairing ..	4,775 48	3,815 62
Russ pavement improvement ..	25,242 55	623 37
Statistical tables	308 61	
Salaries	30,000 00	29,269 78
Contingencies	5,000 00	2,774 08
Total	\$1,041,638 70	\$973,378 98

Leaving an unexpended balance of \$68,259 72 to be added to the appropriations for the present year.

AQUEDUCT REPAIRS AND IMPROVEMENTS.

Under this head, the work and expenditure are applied to the supervision and repair of the Aqueduct and Reservoirs, from the Croton Dam down to, and including the Distributing Reservoir. The gradual enclosing of the public

property, by fencing the line of the Aqueduct on both sides, has been prosecuted this year as heretofore.

The usual vigilance and care, necessary in keeping the embankments, the retaining walls, culverts, bridges and gate-houses in a perfect state of preservation, have been shown by the superintendents of the different Divisions, and with the same general results as we have reported in former years. As a whole, the works continue to show that stability which has always been their characteristic; and the expense during the year for repairs shows no increase over the amount usually incurred. The examination of the interior of the Aqueduct, which is generally made in the early part of November, was this year omitted. After two postponements, made necessary by existing circumstances, the time finally fixed upon for shutting off the water at Croton Dam, was 8 o'clock on the morning of the 4th December. At the time the order was given, the water in the Receiving Reservoir was already twenty inches below the top water-line, and in the Distributing Reservoir it was proportionably lower than the usual height at that point. From close observation and experiments made during the fortnight previous to the 4th December, it became evident that the usual (though dishonest) habit of letting water run waste in dwelling houses and stores, to prevent its freezing, had already been commenced for the winter, and that it was impossible, with such a drain through the outlet pipes, to fill the Receiving Reservoir to the height deemed necessary before the examination could be entered upon with safety. During this time the thermometer was not down to freezing point, and even the usual inadequate excuse for this criminal waste was wanting. It was very evident that, should the weather become suddenly colder during the

time set for the repairs, the waste from this cause would be increased, and equally evident, from past experience, that, should this waste be added to the usual consumption during the time the gates were closed, the city would be without water before the examination and repairs could be finished.

The examination last year (1859) was made on the 27th, 28th, and 29th October. At the time the gates were closed, the water in the Receiving Reservoir was eleven inches below the top water-line. The thermometer, during the time the water was shut off, stood at 45 degrees (Fahrenheit), and had not yet ranged lower than that point during the fall. There could, therefore, have been no waste on the pretext of freezing weather.

During this year, the water in the Receiving Reservoir stood, as before stated, twenty inches below the top level; the temperature was but little above the freezing point, and there were indications of a still lower temperature day by day. Under these circumstances, it was deemed more judicious to postpone the examination until spring, the usual required repairs being not such that a delay of a few months, in commencing them, would involve so much danger as might result from undertaking them in the existing condition of the water works. Accordingly, the preparations along the line were suspended. This conclusion was not arrived at without a careful consideration of all the questions involved, and when (at the latest possible hour for a decision), it became evident that it was impossible to increase the store in the Reservoir. The order countermanding the preparations for shutting off was not sent until late on the afternoon of December 3d,

giving the messenger merely time to reach the different stations before the hour for commencing on the following morning.

The decision not to shut off the water proved most fortunate. On the night of the 5th December, the two main conduit pipes in Fifth avenue, which bring the water from the Receiving Reservoir into the city, were broken near Sixty-fourth street, both at about the same moment.

By twelve o'clock the accident was reported to the Chief Engineer, and at half-past twelve he was on the ground. At this time, the Lower or Distributing Reservoir, which is connected with the Receiving Reservoir by the two mains above spoken of, was found to be drained within one foot of the bottom—almost its entire supply having flowed back through the ruptured mains, and flooded the fields in the vicinity of the accident. From the Receiving Reservoir, also, there had been a very great loss of water. As soon as was practicable, at such an hour of the night, a large and efficient force was at work, and provision made for relays, to prevent any intermission of work, night or day, until the mains were renewed. The depth at which the pipes lay beneath the surface was about twenty feet. By dint of unceasing labor, the covering was removed, the broken mains cut out, new pipes inserted, and in full operation again within fifty hours from the time when the accident was first reported to the Chief Engineer. This accident was far more extended and fuller of peril than any which has occurred since the introduction of water into our city.

There are four main pipes leading from the Receiving Reservoir to the city—one down the Third avenue, another

down the Eighth avenue, and two down the Fifth avenue. Those in the Third and Eighth avenues are but thirty inches in diameter each, while the two in the Fifth avenue are each three feet in diameter. These were the two which were broken; and, as one of them would deliver about one and a half times as much as one of those in the other avenues, three-fifths of the total supply to the city were at once cut off by the accident. To preserve enough water, therefore, for the absolute necessities of domestic use, it was deemed necessary to take measures to which we have never before been compelled to resort. As soon as the force was collected and set to work, at the place of the accident, the Engineer notified, by telegraph, the whole police force, with a view to excite increased watchfulness as to fires. In the morning, orders were issued to all manufactories to cease using the water, and the entire supply to shipping, ferries, &c., was cut off. To enforce the order to the manufactories, it was found necessary to ask the aid of the Superintendent of the Police. By the afternoon of the 6th, the manufactories had been generally stopped, and the beneficial effect was felt at once. With the exception of a small portion of the city, there was then a sufficient supply for the real necessities of domestic life. To supply the portion from which the water was cut off entirely, the fire-hydrants in the neighboring districts were tapped, and arranged to give a moderate, but sufficient supply to all comers. Fortunately, no large fires occurred in the district unsupplied by water, during this interval.

Had the examination and repair of the Aqueduct not been postponed, the break would have occurred at a moment when the supply from Croton Dam was wholly cut off, and the Aqueduct in such a stage of repair, that to

have let on the water immediately would have been impossible. With the Distributing Reservoir entirely empty, and the Receiving Reservoir nearly so, the city would soon have been utterly without water. The results of such a disaster it is not easy to comprehend.

The cause of the rupture of these mains was similar to that which resulted in an accident in the same avenue, near Fifty-ninth street, in October, 1859; though, fortunately, at that time but one of the mains was broken. These two mains were originally put down in the Fifth avenue in 1842, and were laid at the usual depth below what was, at that time, the grade surface of the avenue. Since that time, the grade of the avenue has been changed, and recently the operations for bringing it up to the new grade have been completed.

By this new grade, the avenue at this point has been raised thirteen feet. At the place where the pipes were broken, the avenue crosses a piece of wet, low land, and the height of the embankment which makes the street is upwards of twenty-two feet. On either side of this low land, the embankment for the avenue rests upon solid ledges of rock, which rise above the swampy ground between them. When the superincumbent weight, due to thirteen feet of additional filling, was placed upon the avenue, it forced down the whole of the former roadway a certain depth into the wet or compressible earth between the two ledges, while the unyielding base afforded by these ledges prevented a like settlement at the two ends of the embankment. Under these circumstances, it would not require a very great settlement in the centre to cause a deflection in the line of the pipe, greater than that provided for in its

joints, and the pipe must therefore give way. It may be asked, why was not this accident foreseen and guarded against, by raising the pipes so as to correspond with the new grade of the street? The only answer which it is necessary to give, is, that any attempt to raise these mains to the height required, before means were provided of supplying the city through other mains, with a quantity equal to that which is brought to us through the two in question, would be fraught with far more danger to the city than any which is likely to result from the most serious accident which could happen to them in their present position.

As the supply through these pipes is indispensable to our inhabitants every hour (as the recent accident has proved), it would be necessary to raise them while full of water, and to keep them in uninterrupted flow during the whole of the work. During the whole of the operation of raising them they would be more liable to an accident than they are in their present position, and there would be, of necessity, certain stages of the work in which, if a break in either pipe should take place, a disaster might occur, in comparison with which that of the 5th of December would be a trifle. The Board has, therefore, not felt, nor does it now feel at liberty to disturb these mains, except under the safeguard of a full provision against the results of possible accidents. This provision is now being made, by the laying of a main pipe from the Receiving Reservoir to and through the 4th avenue to 38th street. This pipe is four feet in diameter, and will deliver within a fraction as much as both of the two three-foot pipes in Fifth avenue. When the work of laying it is completed, and it is connected with the Distributing Reservoir, and with the general pipe

distribution below Forty-second street, whatever alterations in the position of the pipes in Fifth avenue may be deemed advisable by the Board, can be made, thoroughly, permanently, and without danger of accident or interruption of the usual supply of water to the city. That this new main was not laid down and in complete operation by October last, is, as is well known, not the fault of this Board.

Under the head of Repairs, another item deserves especial mention.—On Friday, the 21st day of December, at one o'clock, water was discovered issuing in large quantities from the side of the Aqueduct, or main conduit of masonry, about forty-two miles from the city, and two miles on this side of Croton Dam. The Aqueduct here crosses the valley of Bailey's Creek on a high embankment. The Chief Engineer was immediately notified by telegraph, but the injury to the Aqueduct was evidently so great that the Superintendent of that Division shut down the gates at the Dam, without waiting for his arrival to receive orders to that effect. As soon in the night as the height of water in the Aqueduct was reduced sufficiently to enable our men to enter it, such a force of mechanics and laborers as could be got together in the country was put to work. It was found that there was a crack through the masonry of the bottom of the Aqueduct, the fissure extending about 425 feet in length, and being from one quarter of an inch to an inch and a quarter in width. Owing to the great length of the required repairs, the difficulty of making cement set properly during such cold weather, and the limited force which could be procured, there was, at first, danger of another very serious interruption to our water supply. The work, however, was prosecuted without intermission,

throughout Friday night and Saturday, and until half-past 3 o'clock on Sunday morning. At this time the work of repair was completed, the gates opened, and the Aqueduct again in operation—the water having been shut off thirty-eight hours and a half.

The injury to the main Aqueduct and the break in the Fifth avenue mains have been dwelt upon somewhat more at large than under ordinary circumstances might be called for in a report of this kind, because it is believed that they help to show the importance of the speedy execution of the works now in progress. With the present Reservoirs as full as they can be stored, it is not safe to undertake any repair on the Aqueduct which will require a stoppage of the water flow for a longer period than three days. There are points which require a longer time than this, and which are now only kept in *temporary* repair by such work as can be put on them, from year to year, in the limited time allowed by the present storage supply in the city. When the New Reservoir is completed, and the improvements at the High Bridge enable us to fill it, full time can, with entire safety, be taken for putting in perfect repair any portion of the works. A reference to dates and public documents will show, that had the Department been permitted to commence the work on the New Reservoir and at the High Bridge at the times when the contracts were awarded, and this Board ready to commence operations, the enlarged syphon at the High Bridge would now be in operation, and the Reservoir within a very short time of completion. It is to be hoped that no further obstacles will be encountered in the prosecution of works of such pressing importance to our citizens.

The total expenditure under the head of Aqueduct Re-

pairs and Improvements, embracing the supervision and repair of the Aqueduct from Croton Dam to the Distributing Reservoir, not including the repairs in the Fifth avenue (all the bills for which not having been yet audited), is \$22,249.41. The details will be found in Schedule No. 8.

CROTON AQUEDUCT EXTENSION.

The chief work under this head is the New Reservoir. This work is now in an advanced state, the excavations and embankments being nearly completed. The contractors, Messrs. Fairchild, Walker & Co., have continued to show that energy and skill in the prosecution of the work, and that fidelity to the specifications of the contract, which have always characterized their operations. It is believed that no similar work has ever been executed in a better manner.

Owing to the existing difficulties in relation to the contract for the gate-houses, and the continuance of a legal controversy which threatened to delay their commencement indefinitely, the Board deemed itself called upon to apply to the Legislature for a special law, which would enable it to go on with the work. A law to that effect was passed April 16, 1860, and, in accordance with its provisions, arrangements were immediately made for the rapid prosecution of the work. A contract for the supply of granite was entered into with Simon Stevens, Esq., owner of the Spruce Head Quarry, in Maine; and a contract for the mechanical construction and supply of all other materials for the gate-houses (excepting granite) was made with Messrs. Fairchild, Walker & Co. The terms of both contracts are believed to be advantageous to

the city, and the Board refer with pride and satisfaction to their results, as shown in the southern gate-house, now in a considerable state of forwardness, and in the character of the granite and the workmanship to be seen in the stone-yards near the Reservoir. The plans of the gate-houses of this Reservoir, the excellence of the material selected for their construction, and the character of the work throughout, are thought to merit a more extended description than can well be embraced in this Annual Report, and will therefore be made the subject of a special communication to your Honorable Body at a later day.

Under the law in reference to the gate-houses, this Board was also empowered to purchase and lay all the effluent pipes from the new Reservoir, through the Central Park, to the main pipes in Fifth and Eighth avenues, and also to construct the junction Aqueduct to connect the New Reservoir with the main conduit, at or near Ninety-second street and Ninth avenue.

Under this authority, a contract was made on the 7th of December, 1860, with the Warren Foundry and Machine Co., of New Jersey, for the supply of 3,600 tons of pipe, four feet in diameter, and 980 tons of pipe, three feet in diameter. A contract with Messrs. Fairchild, Walker & Co. was also made for the construction of the junction Aqueduct. Of the pipes, a large quantity have already been delivered, and those immediately connected with the southern gate-house are in place. Of the junction Aqueduct there were completed up to the time of the cessation of work in masonry, 404 lineal feet. The trenches for the pipes through the Park have been opened under the authority of the same law, and a large amount of excavation has been done by days' work.

Under the head of Aqueduct Extension, the next work in importance now in progress, is the improvement at the High Bridge. The water is now brought over the bridge through two pipes, each three feet in diameter, laid as inverted syphons. These two pipes were intended to bring across the bridge one-half of the quantity which could be delivered by the Aqueduct, but are capable of doing so only by an arrangement at the gate-houses, which gives them a head of five and a quarter feet. The improvement of the High Bridge consists in putting down a pipe large enough to bring over all the water which can be delivered into it through the Aqueduct, with a loss of head of but one foot. The pipe is of wrought iron and is $90\frac{1}{2}$ inches in diameter. This wrought iron pipe is supported by cast iron stanchions and saddles placed between the two three-foot pipes now there, and at a height sufficient to allow two feet of clear space between it and the old pipes, for the free movement of workmen in repairs, &c. Proper provision for the contraction and expansion of this pipe is made, by rollers throughout, and by movable joints near the extremities. It will be connected with the gate-houses at each end in the same manner as the present pipes are connected. It is not proposed to remove the present pipes, but arrange them in such a manner that they can be used at any time, either in conjunction with the new pipe or separately. Opportunity for repairs on either of the pipes can then be had, whenever needed, without suspending the flow of water into the city.

The contract for the wrought iron plates for this pipe was awarded to Horace Abbott, of Baltimore, on the 8th August, 1860. It embraces the supply of 648,000 pounds of plate iron and 100,144 pounds of flange iron. The

amount of the contract is \$26,936.12. Nearly all the iron under it has been delivered.

The contract for the mechanical construction of the pipe was awarded to Saml. Sneden & Thos. F. Rowland, of Green Point, August 9th, 1860. This contract embraces all the work and expense made necessary, from the time of the delivery of the plates in this city to the completion of the pipe in its place on the High Bridge. This contract will amount to about \$50,000. It is due both to Mr. Abbott and to Messrs. Sneden & Co. to say that their engagements have been fulfilled with great fidelity. Of the pipe, about 1,100 feet are already on the bridge, and of this quantity a length of about 350 feet is jointed together and in its place. The work has been prosecuted with vigor and judgment, and with a degree of excellence which cannot be surpassed. As in the case of the gate-houses for the New Reservoir, the details of this work at the High Bridge are considered worthy of more extended notice than can be given in this report. It is proposed, therefore, to include them fully in the special communication, which will be laid before you, descriptive of the gate-houses.

Under the head of Croton Aqueduct Extension, the Board is now engaged in putting down a new main pipe to connect the Receiving Reservoir with the general distribution of the city below Forty-second street. This pipe is to be laid from the main effluent gate-chamber on the east side of the Receiving Reservoir, through Eightieth street to Fourth avenue, and thence to Thirty-eighth street. Its diameter is four feet, and its length 13,700 feet, or 2.594 miles. This additional pipe has become neces-

sary to meet the increased consumption of water in the city, and also to improve the connection between the Reservoirs, and it will overcome the great loss of head from friction in the two three-foot mains in Fifth avenue, and when it is connected with the Distributing Reservoir, *and in operation*, the additional elevation of water there will be from ten to eleven feet. This main is also necessary as a safeguard in case of accidents which might destroy the connection between the Receiving Reservoir and general pipe distribution. The contract for laying it was awarded to Andrew J. Hackley, and it was confirmed on the fourth day of October. His contract embraces the necessary excavation and embankment for the bed of the pipe, the unloading the pipe at the wharves, hauling it to its site, and putting it in place, and performing all the work necessary for its completion. The estimated amount of his contract is \$67,288.35.

Considering the lateness of the season at which he was permitted to commence work, very good progress has been made—the number of feet of pipe laid, up to date (Dec. 31), being 3,476 feet, while the rock excavations through Eightieth street and elsewhere are well advanced. The contract for supplying the pipe was awarded to the Warren Foundry & Machine Co., of New Jersey. The number of tons contracted for is 3,430, of which there will be 3,395 tons of straight pipe, and 35 tons of special castings, amounting in cost to \$117,544.35. The pipes under this contract are in lengths of 12 feet 4 inches, instead of 9 feet, which has heretofore been the usual length of cast iron pipe. The advantage of this increased length is chiefly on the score of economy. While there is but little additional cost in handling pipes of this length, the dimin-

ished number of joints insures great saving in labor and materials for the joint, and of metal in the pipe itself. The pipes which have been contracted for, during the past year, have been coated to prevent corrosion. The material for coating is a preparation of coal pitch. It was first used at Manchester, England, about twelve years since, and thus far, the experiment promises to be entirely successful. Perfect success in the coating of cast iron pipes is a most important desideratum in all water works.

All the work under the head of Croton Aqueduct Extension is under the immediate charge of Capt. George S. Greene; and the Board can with pleasure add that it could not be placed under the supervision of a more intelligent and faithful officer.

The total expenditure under this head will be found in Schedule 9.

WATER PIPES AND LAYING.

The available appropriation under this head for the past year was	\$120,109 40
The expenditure during the same period, for labor and materials, was.....	110,032 44
Leaving a balance of.....	<u>\$10,076 96</u>

Details of the several expenditures under this head will be found in Schedule No. 15.

During the past year, there have been laid 26,331 feet of 6-inch and 6,602 feet of 12-inch pipe—the particulars will be found in Schedule 23.

The number of fire hydrants has been increased, making a total, in all, of 2,307 throughout the city.

Drinking hydrants have been placed in various parts of the city, where such an accommodation was deemed most necessary. To their more extended introduction, the Board at present have no objection.

During the past year, many resolutions have been received from your Honorable Body, and numerous applications have been made to this Board by private citizens, for the laying of new lines of pipes in the more recently improved streets.

It is essential, however, before laying any new line, that the water rents on the buildings erected should equal the interest on the necessary outlay. Where this is the case, the pipes will be laid at as early a period as possible.

It is believed that an appropriation similar in amount to that granted by your Honorable Body, for the work under this head, of the past season (viz., \$120,000), will be sufficient for the contemplated work of the present year.

The number of buildings throughout the city, subject to water rents, as shown by the books of the Department, is 58,735.

STREET EXPENSES AND REPAIRING.

The available appropriation under this head, for the year 1860, was.....	\$121,844 17
The expenditures during the same period were.....	121,180 00
Leaving a balance of.....	<u>\$664 17</u>

Details will be found in Schedule 14.

It will be seen, by Schedule 26, that a very large amount of repairs has been made during the past season—twenty-two gangs having been employed in different sections of the city. Notwithstanding this great expenditure of labor on our street pavements, the Board cannot refer with any degree of satisfaction to its results. The system of repaving only the more sunken portions of the carriage-way is found to be of but temporary benefit. In a few weeks other portions of the pavement give way, and the street is soon in as bad a condition as before the repairs were made. In the opinion of this Board, it would be better economy in most cases to take up the whole of the pavement from gutter to gutter, and relay the same on a properly renewed foundation.

The substitution of trap-blocks for the cobble-stone pavement, in some of our leading thoroughfares, has, as was anticipated, resulted in a saving of the expense heretofore incurred annually, in attempts to keep them in proper repair. There can be no doubt that, with the further and more extended substitution of this new pavement, the estimated amount (\$120,000), necessary for the work under this head during the present year, could be materially reduced.

TRAP-BLOCK PAVEMENTS.

For details of work, under this head, see Schedule No. 25. In their Annual Report for the year 1859, the Board recommended the adoption of trap-blocks, instead of cobble-stones, for the pavement of all new streets. In adopting this kind of pavement, however, provision should be made, by a general ordinance or otherwise, prohibiting the same from being laid until the proposed locality be fully sewered, and the necessary water and gas pipes laid therein.

Without such a provision, the pavements will continue to be subject, as now, to displacement and injury immediately after they are put down.

In the ordinances for new trap-block pavements, not yet acted upon by this Board, much irregularity exists in the portion of the expense which is to be borne by the City.

No fixed rule appears to govern the Common Council in determining the ratio of expense which would be equitable for the City to assume in improvements of this character. In some cases, they are to be carried into effect entirely by local assessment; in others, the City assumes one-half, one-third, two-thirds, and, in some important cases, the whole expense.

It is respectfully suggested, that such proportion as the City should assume, in the cases of paved or unpaved streets, &c., should also be fixed by general ordinance

In preparing for the use of the Comptroller, the estimate for the appropriation to be made under this head, for the present year, it was found that there would be required, to meet the proportion of expense to be borne by the City, on work then ordered by the Common Council (for which see Schedule No. 26), the sum of..... \$774,139

And for work which might be ordered during the remainder of that and the whole of the present year 250,000

Making a total of.....\$1,024,139

In the estimates for the Tax-Levy, as submitted to your Honorable Body, this sum has been reduced to \$350,000.

This sum would be sufficient for about one-half of the work now directed, and unless it could be increased, the remainder, with such new work as may be hereafter ordered, must of necessity be deferred to a future season. In view of the benefits to be derived from an early and more general adoption of this pavement, the expediency of issuing stock for the creation of a fund for this special purpose is respectfully suggested.

SEWERS—REBUILDING, REPAIRING, AND CLEANING.

The appropriation under this head for the
past year was \$70,000 65
Expenditures during the same period 45,921 05

Leaving an unexpended balance .. \$24,079 60

The details will be found in Schedule No. 13.

There are now over 107 miles of sewers in the city, with a proportionate number of receiving basins and culverts. In these, as a vast receptacle, there lodges much of the filth of the streets and gutters, and soil from house connections, &c. To remove this offensive matter, and to keep the sewers and appurtenances in good repair, involves much expense, and this expense must necessarily increase with the annual increase in the number and extent of the sewers.

CONSTRUCTION OF SEWERS.

For work under this head, the city is reimbursed by the collection of assessments.

There have been built during the year
by contract.....35,834 lineal feet.
By private expense..... 1,354

Making a total of.....37,188 “ “
or seven miles and two hundred and twenty-eight feet.

Schedule No. 21 exhibits in detail the locality and length of the new sewers.

The importance of a properly devised system of sewerage induced this Board to submit to your predecessors a communication on the subject, of which the following is a copy. No final action having been had thereon, it is again brought to your attention.

CROTON AQUEDUCT DEPARTMENT,
NEW YORK, June 4, 1860.

To the Honorable the Common Council:

The vast importance of sewers, and the great advantages to be derived from their construction in accordance with a properly matured and harmonious system, induces the Croton Aqueduct Board, who are by law invested with the supervision and control of all matters connected therewith, to respectfully ask from your Honorable Body authority for the employment of competent persons to survey the upper part of our city, with the view of establishing a general and comprehensive plan for the sewerage thereof, and of submitting the same for your adoption.

The Board deem it unnecessary to give at length the reasons which might be urged for the adoption of the system referred to. As matters of domestic convenience

the construction of sewers is generally desired, and property-owners willingly meet the expenses incurred; while, as sanitary measures, they are of paramount importance, and their advantages felt by the city at large. The evils arising from the absence of a system in the construction of sewers in the lower portions of the city, are daily experienced by the owners of property, and as constantly brought to the notice of the Department. In many instances no remedy but the entire rebuilding of them would be of any avail.

Much expense to the City which has already been incurred in attempts to partially remedy the difficulties, would have been saved had a system of drainage been first established.

To protect the upper part of the city from similar injury, it is all important that immediate steps be taken to perfect a system of drainage for that locality.

It may be proper to add, that the design is to construct main outlets and branch sewers of capacity proportionate to the extent of drainage required, following as nearly as possible the natural water courses of the streets when graded. The general plan once established, the sewers, when built, would be made to conform therewith, and, when finished, would form one harmonious whole.

Respectfully submitted.

THOS. STEPHENS,
THOS. B. TAPPEN,
A. W. CRAVEN,

Croton Aqueduct Board.

VAULTS.

The granting of permits to construct vaults having been placed by law under the control of this Department, the attention of the Board was early called to the practice which had prevailed, of extending them far beyond the curb-lines. In consequence of this encroachment on the streets by the walls of neighboring vaults, the operation of repairs to sewers and water-pipes has been impeded, and the proper position of fire-hydrants materially affected.

To prevent, if possible, further injury from this cause, the Board found it necessary to refuse permits for the construction of vaults beyond the curb-line. This rule has been generally approved of, and its evident importance has induced the Board to continue it in force.

The amount received for permits for vaults, during the year, was \$23,241 81, as shown in Schedule No. 4.

WELLS AND PUMPS.

There was appropriated for work under this	
head.....	\$4,775 48
Of which was expended.....	3,815 62
Leaving balance of.....	<u>\$959 86</u>

During the past year, four wells have been filled and fifty wells covered over. Those filled up were of no further use, and in such a state as not to be available without rebuilding. The wells that were covered were in available condition—they were protected in such manner that, should any necessity arise for their use, they could be brought into operation in a few hours.

There are now standing in the city 140 pumps. It is the intention of the Board to maintain them in good working order.

Schedule No. 10 exhibits the contingent expenses of the Department. No. 11 exhibits the expenditure under the head of Russ Pavement Improvement; and No. 12 is a statement of the amount of salaries paid during the year.

Respectfully submitted.

THOS. STEPHENS,
THOS. B. TAPPEN,
A. W. CRAVEN,

Croton Aqueduct Board

SCHEDULE No. 1,

SHOWING THE WEEKLY RECEIPTS FOR WATER RENTS.

1860.		Brot. forw'd. \$227,172 81
Jan. 5.....	\$861 50	July 12..... 42,558 49
" 12.....	2,339 83	" 19..... 62,231 37
" 19.....	3,892 33	" 26..... 91,015 83
" 26.....	1,307 75	Aug. 2..... 143,451 17
Feb. 2.....	2,742 90	" 9..... 10,383 46
" 9.....	2,240 17	" 16..... 6,867 65
" 16.....	1,544 41	" 23..... 5,661 80
" 23.....	2,060 69	" 30..... 6,889 81
Mar. 1.....	1,576 15	Sept. 6..... 7,066 01
" 8.....	1,931 89	" 13..... 6,003 25
" 15.....	1,352 43	" 20..... 7,152 52
" 22.....	1,171 25	" 27..... 4,678 62
" 29.....	1,522 34	Oct. 4..... 8,217 41
April 5.....	3,013 18	" 11..... 8,536 38
" 12.....	1,295 80	" 18..... 6,376 04
" 19.....	1,556 52	" 25..... 11,606 50
" 26.....	1,973 85	Nov. 1..... 25,597 94
May 3.....	9,239 13	" 8..... 3,942 79
" 10.....	23,841 05	" 15..... 11,019 72
" 17.....	27,079 64	" 22..... 10,556 02
June 16.....	17,699 82	" 30..... 8,456 55
" 16.....	22,390 85	Dec. 6..... 9,751 98
" 16.....	18,475 13	" 13..... 10,091 11
" 16.....	25,801 91	" 20..... 10,236 73
" 21.....	15,301 83	" 27..... 5,506 56
" 28.....	17,391 54	" 31..... 5,803 37
July 5.....	17,568 92	
Carried for'd. \$227,172 81		<u>\$756,831 89</u>

SCHEDULE No. 2,
SHOWING THE WEEKLY RECEIPTS FOR PENALTIES ON
WATER RENTS.

1860.		Brot. forw'd..	\$2,677 92
Jan. 5.....	\$51 30	July 12.....	54 75
" 12.....	141 30	" 19.....	50 70
" 19.....	160 12	" 26.....	79 35
" 26.....	84 30	Aug. 2.....	171 45
Feb. 2.....	206 55	" 9.....	311 72
" 9.....	145 20	" 16.....	185 88
" 16.....	117 60	" 23.....	173 30
" 23.....	67 05	" 30.....	177 65
Mar. 1.....	77 10	Sept. 6.....	223 13
" 8.....	120 95	" 13.....	148 90
" 15.....	80 85	" 20.....	150 20
" 22.....	105 15	" 27.....	126 65
" 29.....	81 75	Oct. 4.....	203 00
April 5.....	133 80	" 11.....	213 85
" 12.....	84 98	" 18.....	167 50
" 19.....	123 10	" 25.....	321 65
" 26.....	149 88	Nov. 1.....	814 48
May 3.....	152 40	" 8.....	284 45
" 10.....	106 74	" 15.....	370 80
" 17.....	63 60	" 22.....	400 43
June 16.....	68 40	" 30.....	494 17
" 16.....	91 35	Dec. 6.....	491 02
" 16.....	45 90	" 13.....	540 93
" 16.....	67 95	" 20.....	703 15
" 21.....	57 45	" 27.....	394 20
" 28.....	42 30	" 31.....	406 50
July 5.....	50 85		
Carried forw'd.	\$2,677 92		<u>\$10,337 73</u>

SCHEDULE No. 3,
SHOWING THE WEEKLY RECEIPTS FOR PERMITS TO CONNECT
WITH SEWERS.

1860.		Brot. forward.	\$12,129 00
Jan. 5.....	\$70 00	July 12.....	470 00
" 12.....	20 00	" 19.....	497 00
" 19.....	190 00	" 26.....	420 00
" 26.....	290 00	Aug. 2.....	420 00
Feb. 2.....	250 00	" 9.....	630 00
" 9.....	100 00	" 16.....	568 00
" 16.....	140 00	" 23.....	633 00
" 23.....	130 00	" 30.....	584 00
Mar. 1.....	321 00	Sept. 6.....	616 00
" 8.....	530 00	" 13.....	572 00
" 15.....	470 00	" 20.....	653 00
" 22.....	560 00	" 27.....	442 00
" 29.....	670 00	Oct. 4.....	599 00
April 5.....	587 00	" 11.....	490 00
" 12.....	640 00	" 18.....	562 00
" 19.....	530 00	" 25.....	393 00
" 26.....	722 00	Nov. 1.....	510 00
May 3.....	560 00	" 8.....	380 00
" 10.....	660 00	" 15.....	490 00
June 18.....	640 00	" 22.....	537 00
" 18.....	370 00	" 30.....	600 00
" 18.....	740 00	Dec. 6.....	390 00
" 18.....	730 00	" 13.....	264 00
" 18.....	798 00	" 20.....	282 00
" 21.....	477 00	" 27.....	220 00
" 28.....	604 00	" 31.....	40 00
July 5.....	330 00		
Carried forw'd	\$12,129 00		<u>\$24,391 00</u>

SCHEDULE No. 4,
SHOWING THE WEEKLY RECEIPTS FOR PERMITS TO CONSTRUCT
VAULTS.

1860.		Brought forw'd \$12,443 52	
Jan. 5.....	\$ 0 00	July 12.....	62 27
" 12.....	134 62	" 19.....	230 13
" 19.....	122 70	" 26.....	103 82
" 26.....	369 36	Aug. 2.....	300 15
Feb. 2.....	342 40	" 9.....	780 42
" 9.....	163 75	" 16.....	0 00
" 16.....	377 25	" 23.....	396 29
" 23.....	43 27	" 30.....	698 91
Mar. 1.....	172 35	Sept. 6.....	809 30
" 8.....	291 00	" 13.....	244 92
" 15.....	9 45	" 20.....	616 41
" 22.....	1,070 34	" 27.....	471 13
" 29.....	175 83	Oct. 4.....	620 52
April 5.....	1,631 72	" 11.....	0 00
" 12.....	1,829 42	" 18.....	729 00
" 19.....	198 66	" 25.....	18 27
" 26.....	144 12	Nov. 1.....	513 59
May 3.....	1,013 50	" 8.....	1,023 47
" 10.....	505 09	" 15.....	559 05
June 19.....	529 63	" 22.....	231 78
" 19.....	122 02	" 30.....	360 68
" 19.....	848 74	Dec. 6.....	141 44
" 19.....	385 06	" 13.....	1,667 66
" 19.....	579 21	" 20.....	7 20
" 21.....	598 32	" 27.....	49 88
" 28.....	467 28	" 31.....	162 00
July 5.....	318 43		
Carried forw'd \$12,443 52			\$23,241 81

SCHEDULE No. 5,
SHOWING THE WEEKLY RECEIPTS FOR PERMITS FOR TAPS IN
WATER PIPES.*

1860.		Brought forw'd \$1,501 00	
June 16.....	\$99 25	Sept. 20.....	50 00
" 16.....	84 75	" 27.....	91 75
" 16.....	101 50	Oct. 4.....	101 50
" 16.....	67 50	" 11.....	78 00
" 16.....	130 00	" 18.....	79 25
" 21.....	49 00	" 25.....	95 25
" 28.....	78 50		
July 5.....	79 25	Nov. 1.....	81 00
" 12.....	110 50	" 8.....	37 75
" 19.....	96 75	" 15.....	67 50
" 26.....	66 00	" 22.....	55 75
Aug. 2.....	71 00	" 30.....	43 25
" 9.....	84 75	Dec. 6.....	43 50
" 16.....	78 25	" 13.....	42 00
" 23.....	53 50	" 20.....	53 50
" 30.....	90 25	" 27.....	36 75
Sept. 6.....	103 75	" 31.....	19 75
" 13.....	56 50		
Carried forw'd \$1,501 00			\$2,477 50

* Note.—Previously to June 16th, the receipts for permits for taps are included in the weekly receipts for Water Rents—Schedule 1.

SCHEDULE No. 6,

SHOWING THE AMOUNTS RECEIVED FOR WORK DONE, AND OLD
MATERIALS SOLD AND ACCOUNTED FOR AS PETTY CASH.

1860.

January	4.	For ballast stone.....	\$25 50
	6.	do. do	2 25
Feb'y	20.	Removing fire hydrant.....	50 00
March	15.	Putting in stopcock, &c., Pier 9, North River	54 44
	20.	Removing fire hydrant.....	50 00
April	16.	For old stone.....	3 00
	20.	Repairing pipe Park row and Beek- man street	10 00
	21.	Putting in branch, &c., Spruce street	26 50
	26.	Repairing pipe, Forty-eighth street, between Sixth and Sev- enth avenues	21 00
May	9.	Removing pipe in Manhattan alley	35 66
	14.	Putting in pipe, stopcock, &c., Third avenue and One Hundred and Thirtieth street	99 10
	17.	For old stone.....	65 25
	21.	do.	108 00
	21.	Putting in branch, &c., foot of Hu- bert street.....	50 00
	21.	Putting in stopcock, &c., foot of Thirtieth street, North River..	31 55
June	7.	Putting in branch, &c., Mott street bath house	42 04
Amount carried forward.....			\$674 29

		Amount brought forward.....	\$674 29
June	13.	Jas. Berwick for old mantelpiece.	15 00
	21.	For old stone.....	4 12
	25.	— Higgins for stone.....	15 00
	25.	John Donohue for stone.....	16 80
July	11.	Removing and relaying pipe in Worth street.....	356 23
	12.	For cobble stone.....	598 00
	17.	do. do.	89 70
	25.	Removing fire hydrant Sixth ave- nue and Twenty-seventh street	26 75
	26.	Putting in stopcock, &c., foot of Harrison street, North River...	55 60
August	5.	For old iron.....	204 52
	7.	For cobble stone.....	100 00
	9.	Repairing pipe foot of Harrison street.....	10 00
	17.	Removing and relaying pipe Reade street	91 51
	20.	For two sleeves, &c., Herald office	20 00
	20.	For cobble stone.....	75 80
	28.	Removing fire hydrant Fifth ave- nue and Thirtieth street.....	25 00
Septem.	1.	For cobble stone.....	8 25
	3.	do. do.	27 00
	4.	do. do.	100 00
	17.	Removing fire hydrant Seventeenth street, between Seventh and Eighth avenues.....	15 00
	29.	For old stone.....	47 00
Amount carried forward			\$2,575 57

Amount brought forward.....	\$2,575 57
Novem. 23. Repairing stopcock foot of King street.....	26 00
28. For old stone.....	4 00
Decem. 8. For old iron.....	218 05
22. For ballast stone.....	50 16
22. For old stone.....	4 00
Total.....	<u>\$2,877 78</u>

SCHEDULE No. 7,

SHOWING THE PAYMENTS INTO THE CITY TREASURY AS PER
THE RECEIPTS OF THE CITY CHAMBERLAIN.

1860.		Brot. forward \$298,369 01
Jan. 5.....	\$982 80	July 19..... 63,105 95
" 12.....	2,635 75	" 26..... 91,685 00
" 19.....	4,365 15	Aug. 2..... 144,413 77
" 26.....	2,051 41	" 9..... 12,190 35
Feb. 2.....	3,541 85	" 16..... 7,699 78
" 9.....	2,649 12	" 23..... 6,917 89
" 16.....	2,179 26	" 30..... 8,440 62
" 23.....	2,301 01	Sept. 6..... 8,818 19
Mar. 1.....	2,146 60	" 13..... 7,025 57
" 8.....	2,873 84	" 20..... 8,622 13
" 15.....	1,912 73	" 27..... 5,810 15
" 22.....	2,906 74	Oct. 4..... 9,741 43
" 29.....	2,449 92	" 11..... 9,318 23
April 5.....	5,365 70	" 18..... 7,913 79
" 12.....	3,850 20	" 25..... 12,434 67
" 19.....	2,408 28	Nov. 1..... 27,517 01
" 26.....	2,989 85	" 8..... 5,668 46
May 3.....	10,965 03	" 15..... 12,507 07
" 10.....	25,112 88	" 22..... 11,780 98
" 17.....	27,143 24	" 30..... 9,954 65
June 16.....	85,124 31	Dec. 6..... 10,817 94
" 18.....	3,278 00	" 13..... 12,605 70
" 19.....	2,464 66	" 20..... 11,282 58
" 21.....	16,483 60	" 27..... 6,207 39
" 28.....	18,583 62	" 31..... 9,309 40
July 5.....	18,347 45	
" 12.....	43,256 01	
Carried forw'd \$298,369 01		<u>\$820,157 71</u>

SCHEDULE No. 8,

AQUEDUCT REPAIRS AND IMPROVEMENTS.

Appropriation by the Common Council for the year 1860.....	\$15,000 00
Unexpended balance from 1859.....	7,249 41
	<u>\$22,249 41</u>

DISBURSEMENTS.

Blacksmith Work.....	\$115 97
Casualties.....	63 00
Cartage.....	1,447 65
Fencing.....	64 39
Hardware.....	293 17
Horse Hire.....	169 41
Iron Work.....	4 85
Labor.....	7,386 63
Lime, Cement and Sand.....	80 84
Lumber.....	1,108 06
Oil.....	50 69
Paint.....	160 57
Plumbing.....	7 00
Powder.....	5 50
Receiving Reservoir.....	181 00
Repairs to Superintendents' Dwellings.....	193 39
Seed.....	3 60
Stone and Brick.....	26 00
Sundry Bills.....	541 81
Taxes.....	770 32
Tools and Repairing.....	25 60
Carried forward.....	<u>\$12,699 45</u>

Brought forward.....	\$12,699 45
Daniel Adamson, Superintendent Croton Dam.....	700 00
James Scott, " Sing Sing.....	650 00
Barney See, " Tarrytown.....	575 00
James Bremner, " Dobbs' Ferry.....	575 00
James Berwick, " Yonkers.....	575 00
John L. Berrian, " Fordham.....	575 00
Jacob Moore, " High Bridge.....	575 00
Ralph Ellis, " Rec'g Reser'r.....	730 00
Unexpended Balance.....	4,594 96
	<u>\$22,249 41</u>

SCHEDULE No. 9.

CROTON WATER WORKS EXTENSION.

By requisitions drawn on the Comptroller
during the year 1860.....\$642,108 43

DISBURSEMENTS.

Andrew J. Hackley, contractor, laying Fourth avenue main.....	\$13,863 19
Engineers New Reservoir.....	10,240 91
Fairchild, Walker & Co., contractors, New Reservoir.....	340,106 20
Fairchild, Walker & Co., contractors, Gate Houses.....	60,789 67
Four feet line of pipe, Central Park.....	1,981 07
“ “ Fourth avenue.....	2,887 42
Gate Houses, New Reservoir.....	17,238 89
Granite for Gate Houses.....	20,061 26
High Bridge Improvement.....	47,519 99
Inspectors New Reservoir.....	16,414 75
Iron Pipes and Castings.....	50,208 89
Labor, Four feet line of pipe, Central Park...	27,767 31
“ High Bridge Improvement.....	5,705 70
“ Lowering mains, Eighth avenue.....	18,396 13
Land for Gate Houses.....	75 00
Law Expenses.....	1,110 00
Lowering mains, Eighth avenue.....	3,306 88
Miscellaneous Bills, General.....	25 00
“ “ Engineers.....	908 45
Sewer, New Reservoir.....	2,836 45
Stationery.....	87 50
Wagon Hire.....	577 77

\$642,108 43

SCHEDULE No. 10.

CONTINGENCIES, CROTON AQUEDUCT BOARD.

Appropriation by the Common Council for the
year 1860.....\$5,000 00

DISBURSEMENTS.

Advertising.....	\$1,058 71
Engineer's Office.....	19 39
Miscellaneous Bills.....	567 54
Office Expenses.....	343 91
Postages.....	33 43
Wagon Hire.....	751 10
Unexpended Balance.....	2,225 92

\$5,000 00

SCHEDULE No. 11.

RUSS PAVEMENT IMPROVEMENT.

Unexpended Balance of Appropriation from
the year 1859.....\$25,242 55

DISBURSEMENTS.

John Martin, labor, tools, &c., on Broadway..	561 87
John McGowan, Inspector, “ ..	61 50
Unexpended Balance.....	24,619 18

\$25,242 55

SCHEDULE No. 12.

SALARIES.

Appropriation by the Common Council for the
year 1860.....\$30,000 00

DISBURSEMENTS.

M. Van Schaick, President.....	\$205 48
Thomas Stephens, ".....	2,157 53
Thomas B. Tappen, Commissioner.....	3,000 00
Alfred W. Craven, Engineer.....	5,000 00
Henry L. Robertson, Clerk to Board.....	1,400 00
John C. Winder, Assistant Engineer.....	1,087 50
Benjamin S. Church, ".....	362 50
Alexander F. Dodge, Contract Clerk.....	1,200 00
Revo C. Hance, Water Registrar.....	1,500 00
William Fardon, Assistant Registrar.....	1,000 00
William V. Lecount, Clerk to Registrar.....	1,000 00
Jacob E. Howard, " ".....	1,000 00
John B. McKean, " ".....	1,000 00
Gilbert H. White, " ".....	1,000 00
Seymour V. Moody, " ".....	1,000 00
Charles R. Fleet, " ".....	1,000 00
Aaron B. Rollins, Water Purveyor.....	2,500 00
Peter D. De Forest, Clerk to Water Purveyor.....	1,000 00
James Reed, " " ".....	1,000 00
Matthew D. Greene, Supt. City Railroads....	96 77
John J. Conklin, Messenger.....	700 00
William H. Conklin, " Engineer's office.....	360 00
Myndert Van Schaick, as Accountant.....	48 08
Thomas B. Tappen, ".....	148 08
Thomas Stephens, ".....	503 84
Unexpended balance.....	730 22
	<u>\$30,000 00</u>

SCHEDULE No. 13.

SEWERS—REPAIRING AND CLEANING.

Appropriation by the Common Council for the
year 1860.....\$50,000 00
Additional appropriations by the Common
Council during the year 1860.....20,000 00
Unexpended balance from 1859.....65

\$70,000 65

DISBURSEMENTS.

Building new basins.....	\$166 87
Cartage.....	10,210 13
Dumping sewer dirt.....	42 78
Man-hole and culvert covers.....	2,885 24
Rebuilding sewer in Twentieth street.....	87 56
" " 31st and 33d streets....	11,655 40
" " 3d avenue and 17th street.....	32 40
Repairing basins and culverts.....	1,339 39
" manholes.....	4,118 53
" sewers.....	444 33
Sundry bills.....	36 58
Tools and repairing.....	79 96
Workmen's wages.....	13,446 88
John Duffy, allowance made by the Common Council for constructing sewer in Nine- teenth street, between Tenth avenue and the river.....	1,375 00
Unexpended balance.....	24,079 60
	<u>\$70,000 65</u>

SCHEDULE No. 14.

STREET—EXPENSES AND PAVING.

Appropriation by the Common Council for the year 1860.....	\$120,000 00
Unexpended balance from 1859.....	1,844 17
	<hr/>
	\$121,844 17

DISBURSEMENTS.

Bridge stone.....	\$2,688 27
Cartage.....	36,782 10
Miscellaneous bills.....	925 56
Sand.....	5,703 28
Tools and repairing.....	2,158 24
Wagon-hire.....	111 57
Workmen's wages.....	72,561 37
Yard expenses.....	249 61
Unexpended balance.....	664 17
	<hr/>
	\$121,844 17

SCHEDULE No. 15.

WATER PIPES AND LAYING.

Appropriation by the Common Council for the year 1860.....	\$115,000 00
Unexpended balance from 1859.....	5,109 40
	<hr/>
	\$120,109 40

DISBURSEMENTS.

Blasting.....	\$826 00
Brass cocks.....	1,720 32
Cartage.....	1,193 34
Casualties.....	249 35
Fire Hydrants.....	3,798 50
“ Repairing.....	646 93
Fuel.....	250 00
Hydrants and Stopcock Boxes.....	3,186 72
Iron Pipes.....	13,558 15
Lead.....	3,155 22
Miscellaneous bills.....	209 11
Oil.....	254 92
Proving yard.....	168 93
Public Hydrants and repairing.....	2,289 07
Repairing Fountains.....	320 50
Reservoir, Distributing.....	4,861 28
Small castings.....	3,162 36
Stationery.....	1,808 90
Stopcocks.....	7,586 31
“ Repairing.....	479 36

Carried forward..... \$49,725 27

Brought forward \$49,725 27

WATER PIPES.

Tapping pipes.....	1,698 50
Tools and repairing.....	2,008 28
Water meters.....	2,782 19
Workmen's wages.....	52,790 31
Yarn.....	427 89
Draughtsman.....	600 00
Unexpended balance.....	10,076 96
	<u>\$120,109 40</u>

SCHEDULE No. 16.

WELLS AND PUMPS, AND REPAIRING.

Appropriation by the Common Council for the year 1860	\$4,000 00
Unexpended Balance from 1859.....	775 48
	<u>\$4,775 48</u>

DISBURSEMENTS.

Carpenter's Work.....	\$95 15
Cleaning and Repairing Wells	441 21
New Pumps	1,231 25
Repairing Pumps.....	2,048 01
Unexpended Balance	959 86
	<u>\$4,775 48</u>

SCHEDULE No. 17.

STATISTICAL TABLES.

Balance on hand from former appropriations, and deposited in the Mechanics' Bank, as per Report of 1859.....	\$308 61
	<u>\$308 61</u>

SCHEDULE No. 18,
EXHIBITING THE LEDGER BALANCE, DECEMBER 31, 1860.

HEADS OF ACCOUNTS.	DR.	CR.
Aqueduct Repairs and Improvements	\$17,654 45	\$22,249 41
Contingencies, Croton Aqueduct Board	2,774 08	5,000 00
Croton Water Works Extension	642,108 43	642,108 43
Russ Pavement Improvements	623 37	25,242 55
Salaries	29,269 78	30,000 00
Sewers, Repairing and Cleaning	45,921 05	70,000 65
Street Expenses and Paving	121,180 00	121,844 17
Statistical Tables		308 61
Water Pipes and Laying	110,032 44	120,109 40
Wells and Pumps, and Repairing	3,815 62	4,775 48
Water Rents		756,831 89
Water Rents, Penalties thereon		10,337 73
Permits for Sewer Connections		24,391 00
Permits to construct Vaults		23,241 81
Permits for Taps in Water Pipes		2,477 50
Petty Cash		2,877 78
City Chamberlain	820,157 71	
Unexpended Balances	68,259 48	
	<u>\$1,861,796 41</u>	<u>\$1,861,796 41</u>

SCHEDULE No. 19.

The following table exhibits the yearly revenue derived from Croton Water, as collected by the Department, from its introduction into the city in 1842, with the annual increase or decrease thereof:

TIME.	RECEIPTS.	INCREASE.	DECREASE.
Oct. 5, '42 to May 1, '43 ..	\$32,053 74	—
May 1, '43 " 1, '44...	84,444 68	\$52,390 94	—
" 1, '44 " 1, '45...	117,277 86	32,833 18	—
" 1, '45 " 1, '46...	163,900 52	46,622 66	—
" 1, '46 " 1, '47...	193,346 24	29,445 72	—
" 1, '47 " 1, '48...	219,416 72	26,070 48	—
" 1, '48 " 1, '49...	250,081 51	30,664 79	—
" 1, '49 to Dec. 31, '49...	259,532 97	*9,451 46	—
Jan. 1, '50 " 31, '50...	458,951 87	†199,418 90	—
" 1, '51 " 31, '51...	458,789 78	\$162 09†
" 1, '52 " 31, '52...	533,965 16	75,175 38	—
" 1, '53 " 31, '53...	579,956 30	45,991 14	—
" 1, '54 " 31, '54...	608,966 15	29,009 85	—
" 1, '55 " 31, '55...	674,736 42	65,770 27	—
" 1, '56 " 31, '56...	662,949 57	11,786 85
" 1, '57 " 31, '57...	697,370 51	34,420 94	—
" 1, '58 " 31, '58...	730,107 98	32,737 47	—
" 1, '59 " 31, '59...	759,250 45	29,142 47	—
" 1, '60 " 31, '60...	767,169 62	7,919 17	—
TOTAL	\$8,252,268 05		

* Eight months.

† Under the operation of the laws of 1849.

‡ A reduction in the rents, equal to about 10 per cent., was made this year.

SCHEDULE No. 20.

The following table exhibits the yearly revenue derived from permits to connect premises with the public sewers, as collected by this Department; also, the yearly expenditures for cleaning, repairing, and rebuilding the sewers and their appurtenances:

TIME.	RECEIPTS.	EXPENDIT'S.	EXCESS OF RECEIPTS.	EXCESS OF EXPENDIT'S.
Feb. 5, 1846 to Dec. 31, 1846	\$4,852 50	\$4,404 17	\$448 33	
Jan. 1, 1847 " 31, 1847	7,470 00	4,753 01	716 99	
" 1, 1848 " 31, 1848	8,585 00	4,673 05	3,911 95	
" 1, 1849 " 31, 1849	11,759 50	9,936 25	1,823 25	
" 1, 1850 " 31, 1850	18,977 00	8,118 97	10,858 03	
" 1, 1851 " 31, 1851	21,835 50	11,230 78	10,604 72	
" 1, 1852 " 31, 1852	28,132 50	12,554 66	15,577 84	
" 1, 1853 " 31, 1853	29,353 00	14,262 05	15,090 95	
" 1, 1854 " 31, 1854	26,247 00	12,402 51	13,844 49	
" 1, 1855 " 31, 1855	7,251 20	16,179 45	11,071 75	
" 1, 1856 " 31, 1856	24,122 00	20,765 94	3,356 06	
" 1, 1857 " 31, 1857	21,425 50	19,827 94	1,597 56	
" 1, 1858 " 31, 1858	18,561 50	24,418 35		\$5,856 85
" 1, 1859 " 31, 1859	21,723 00	31,081 00		9,358 00
" 1, 1860 " 31, 1860	24,391 00	45,921 05		21,530 05
	\$294,686 20	\$240,529 18	\$90,901 92	\$36,744 80
Total excess of receipts over expenditures.....			\$54,157 02	

SCHEDULE No. 21.

Being an abstract of all contracts for Sewers made during the year 1860, and showing the localities, lengths and sizes thereof, together with the number of Receiving Basins and Culverts attached to each.

STREET.	BETWEEN.	LENGTH IN FEET.	SIZE.	BASINS AND CULVERTS.
Orchard street....	Hester and 115 ft. north of Canal st.	293	4 by 2 ft. 8 in.	
Second avenue....	Forty-ninth and Forty-seventh sts.			
Forty-eighth st....	Second and Third avenues.....	2,337	"	2
Forty-seventh st....	Second and Third avenues.....			
Third avenue....	47th st. and 100 ft. south of 46th st.			
Second avenue....	Thirty-ninth and Forty-first streets.	560	"	2
Sixth avenue....	Forty-fourth and Forty-seventh sts.	710	"	2
Fourth avenue....	Forty-seventh and Forty-sixth sts.			
Forty-sixth street.	Fourth and Fifth avenues.....	1,123	"	2
Tenth avenue....	Thirty-fifth and Thirty-sixth streets.	223	"	
Third avenue....	Sixty-first and Sixty-sixth streets	1,250	"	2
Sixth avenue....	Forty-seventh and Forty-eighth sts.	236	"	
Sixth avenue....	Fiftieth and Fifty-first streets....			
Fifty-first street..	Fifth and Sixth avenues.....			
Forty-eighth st....	Sixth avenue and 100 ft. east....	1,441	"	2
Fiftieth street....	Do. do.			
Eighty-sixth street	Third and Fourth avenues.....	900	"	
Reade street....	West Broadway and Broadway....	856	"	3
Fortieth street....	Fifth and Sixth avenues.....	870	"	
Nineteenth street.	Tenth avenue and Hudson River....	880	"	
Sixth avenue....	Fifty-first and Fifty-third streets.			
Fifty-third street..	Sixth av. and 225 ft. west Fifth av.	1,300	"	4
Fifty-second st....	Third avenue and 225 feet west....	285	"	
Fifty-seventh st....	Second avenue and 350 feet east....	410	"	
Eighth avenue....	Eighteenth and Twenty-first streets	600	"	
Reade street....	Greenwich and Washington sts....	350	"	2
Washington street	Chambers and Reade streets....			
Greenwich street..	Jay and Harrison streets.....	190	"	
Norfolk street....	Broome and Delancey streets....	300	"	
Spring street....	Sullivan and Macdougall streets....	240	"	1
Fifty-second st....	Tenth and Eleventh avenues.....			
Eleventh avenue..	Fifty-second and Fifty-first streets	1,076	"	2
Bethune street....	Greenwich and Washington sts....			
Washington street	Bethune and Troy streets.....	691	"	2
First avenue....	Tenth and Eleventh streets.....	192	"	
Mott street....	Grand and Hester streets.....	400	"	
Seventeenth st....	Seventh and Eighth avenues.....	855	"	2
Thirty-eighth st....	Fourth and Madison avenues.....	359	"	
Norfolk street....	Broome and Grand streets.....	278	"	
Carried forward		19,235		28

STREET.	BETWEEN.	LENGTH IN FEET.	SIZE.	BASINS AND CULVERTS.
Brought forward		19,235		28
Franklin street	West Broadway and Hudson street	550	4 by 2 ft. 8 in.	1
Cherry street	Gouverneur and Montgomery streets	321	"	1
Thirteenth street	Hudson street and 232 feet east	290	"	
Second avenue	Seventy-ninth and Eighty-sixth sts.	1,800	"	7
Fifty-ninth street	Eighth avenue and Hudson River	3,372	"	7
Ninth avenue	Fifty-first and Fifty-fifth streets	1,043	"	4
Madison street	Grand and Jackson streets	332	"	
Gramercy park	Twentieth and Twenty-first sts.	491	"	2
Twenty-first street	Gramercy park st. & Lexington av.		"	
Fifty-eighth street	Eighth and Seventh avenues	865	"	2
Orchard street	Hester st. and 40 ft. south Grand st.	390	"	
Fifty-second st.	Second and First avenues	610	"	
Fifty-fifth street	Third and First avenues	1,234	"	
Cherry street	Pike and Pelham streets	273	"	1
125th street	Fourth and Fifth avenues	955	"	2
Greenwich street	Harrison and North Moore streets	360	"	
Varick street	Franklin and North Moore streets	220	"	1
Trinity place	Rector and Thames street	511	"	
Forsyth street	Broome and Delancey streets	411	"	
Cliff street	Ferry and Frankfort streets	358	"	1
Fifty-fifth street	Third and Fourth avenues		"	
Fourth avenue	55th st. and 100 ft. south of 57th st.	1,371	"	2
Lewis street	Stanton and Houston streets	450	"	
East Eighteenth st.	Trunk extension to East River	392	"	
RECEIVING BASINS.				
Southeast corner	Sixth avenue and Eleventh street			1
Southwest do.	Wall and Pearl streets			1
Northwest do.	Wall and William streets			1
Northwest do.	Pearl and Whitehall streets			1
Southwest do.	Seventh avenue and Nineteenth st.			1
Northeast do.	Washington and Liberty streets			1
Southeast do.	Washington and Cedar streets			1
Southeast do.	Eighth avenue and Forty-sixth st.			1
Southwest do.	Do. do.			1
Southwest do.	Ninth avenue and Forty-fourth st.			1
Southeast do.	Do. do.			1
South side of	Beach near Hudson street			1
Twentieth street	between Tenth and Eleventh ave's.			2
Total length of Sewers		35,834		
Total number of Receiving Basins				73

The following Sewers have been constructed at private expense.

STREET.	BETWEEN.	LENGTH IN FEET.	SIZE.
Sixty-second st.	Second and Third avenues	586	4 by 2 ft. 8 in.
Nassau street	from Liberty street to No. 33	144	"
Madison avenue	Forty-seventh street, southerly	214	"
Fifty-eighth street	from Second avenue, eastwardly	410	"
Total		1,354	

RECAPITULATION.

Total length of Sewers by contract	35,834 feet.
" " " " at private expense	1,354 "
Making in all	37,188 feet,
or seven miles two hundred and twenty-eight feet.	

SCHEDULE No. 22.

SEWERS,

*Constructed under the direction of the Croton Aqueduct Department,
since its organization in 1849.*

1849.	Number of sewers.....	25	
	" basins and culverts.....	58	
	Lineal feet in length.....		16,165
1850.	Number of sewers.....	70	
	" basins and culverts.....	173	
	Lineal feet in length.....		61,579
1851.	Number of sewers.....	105	
	" basins and culverts.....	157	
	Lineal feet in length.....		63,009
1852.	Number of sewers.....	100	
	" basins and culverts.....	196	
	Lineal feet in length.....		65,689
1853.	Number of sewers.....	85	
	" basins and culverts.....	256	
	Lineal feet in length.....		73,542
1854.	Number of sewers.....	88	
	" basins and culverts.....	244	
	Lineal feet in length.....		73,519
1855.	Number of sewers.....	65	
	" basins and culverts.....	110	
	Lineal feet in length.....		38,679
1856.	Number of sewers.....	73	
	" basins and culverts.....	121	
	Lineal feet in length.....		40,280
1857.	Number of sewers.....	23	
	" basins and culverts.....	19	
	Lineal feet in length.....		10,430
1858.	Number of sewers.....	56	
	" basins and culverts.....	98	
	Lineal feet in length.....		36,258
1859.	Number of sewers.....	64	
	" basins and culverts.....	90	
	Lineal feet in length.....		41,867
1860.	Number of sewers.....	50	
	" basins and culverts.....	73	
	Lineal feet in length.....		37,188
Total—107 miles, 1,195 feet.			

SCHEDULE No. 23.

WATER PIPES.

*The following Lines of Main Pipe have been laid during
the year 1860.*

STREET.	FROM.	6 INCH.
		Feet.
Fifty-ninth street.....	Ninth avenue to the North river..	1,935
Fifty-eighth street.....	140 feet west.....	140
Lexington avenue.....	Fifty-second to Fifty-third street..	240
Lexington avenue.....	Forty-fourth to Forty-sixth street..	490
Worth street.....	Broadway to Church street.....	310
Eighty-first street.....	Third avenue, 350 feet west.....	350
Seventy-first street.....	Third to Fourth avenue.....	910
121st street.....	First to Third avenue.....	1,760
Horatio street.....	West 300 feet.....	300
Sixteenth street.....	Avenue B to avenue C.....	876
Forty-ninth street.....	Tenth avenue, 460 feet east.....	460
Twenty-first street.....	Avenue B, 300 feet east.....	300
Forty-ninth street.....	Ninth to Tenth avenue.....	860
Twentieth street.....	First avenue to avenue A.....	866
119th street.....	Third avenue, 350 feet east.....	350
Fiftieth street.....	First to Second avenue.....	854
129th street.....	Sixth to Seventh avenue.....	820
Eightieth street.....	Third avenue, 310 feet west.....	310
Sixty-first street.....	Second to Third avenue.....	815
Fifty-ninth street.....	First to Second avenue.....	865
Lexington avenue.....	Fifty-sixth to Fifty-seventh street..	230
Fifty-second street.....	Lexington to Fourth avenue.....	412
Lexington avenue.....	Sixty-first to Sixty-second street..	200
Lawrence street.....	Ninth to Tenth avenue.....	920
Forty-first street.....	Madison to Fourth avenue.....	390
Seventy-eighth street.....	Third to Fourth avenue.....	860
Forty-fifth street.....	Third to Lexington avenue.....	295
Eightieth street.....	Third avenue, 560 feet west.....	560
Fifty-fifth street.....	First avenue to the East river.....	360
Fifty-third street.....	Ninth and Tenth avenue.....	860
Fifty-fourth street.....	Ninth avenue, 550 feet east.....	550
117th street.....	Avenue A, 200 feet west.....	200
114th street.....	First avenue to avenue A.....	820
121st street.....	First avenue, 200 feet east.....	200
117th street.....	Second avenue, 225 feet west.....	225

SCHEDULE No. 25,

Being an abstract of all Contracts which have been made during the year 1860, for the laying of Trap-block Pavement.

STREET.	BETWEEN.	NUMBER OF SQUARE YARDS.	PROPORTION OF EXPENSE PAID BY CITY.
State street.....	Battery place and Whitehall street	3,984	1
Thirty-fifth street ..	Fifth and Sixth avenues.....	2,823	1
Reade street.....	Broadway and Washington street.	5,414	1
Chambers street....	Chatham street and Hudson river.	11,353	1
Amity street.....	Broadway and Sixth avenue.....	6,383	all.
Greenwich street...	Battery place and Gansevoort st..	35,200	all.*
Tenth street.....	Fourth avenue and East river....	20,239	all.
Thirty-fourth street	Lexington and Third avenues.....	1,799	all.
Twenty-eighth st. .	Eighth and Ninth avenues.....	2,705	all.
Forty-second street.	Eighth avenue and Broadway....	3,944	none.
Forty-fourth street.	Ninth and Tenth avenues.....	2,435	"
Forty-eighth street.	Broadway and Eighth avenue....	1,845	"
Forty-fifth street...	Fifth and Sixth avenues.....	2,895	"
Ninth avenue.....	Forty-fifth and Fifty-third streets.	12,330	"
Fortieth street.....	Second and Third avenues.....	1,870	"
Whitehall street....	Broadway and State street.....	823	"
Duane street.....	Broadway and Centre street.....	2,713	"
Total square yards.....		118,755	

TRAP-BLOCK PAVEMENTS have been laid in the following streets at private expense:

Forty-fifth street, between Third and Lexington avenues.....	1,295	sqr. yds.
Reade street, Broadway, and City Hall place,	2,480	"
Manhattan alley, Reade, and Elm streets..	545	"
Total	4,320	"

* Except what may be assessed upon the Ninth avenue Railroad Company.

The total number of square yards of Trap-block Pavement is as follows, viz.:

By contract.....	118,755	sqr. yds.
By private expense.....	4,320	
Total.....	123,075	"

CONTRACTS have been made during the year for the paving of the following streets with Cobble-stone Pavement, viz.:

Fifty-second street, from Ninth avenue to Hudson river.....	8,000	sqr. yds.
Fifty-third street, from Eighth to Ninth avenue	2,512	"
Total.....	10,512	"

COBBLE-STONE PAVEMENTS have been laid in the following streets at private expense, viz.:

Seventeenth street, Tenth avenue and Hudson river.....	1,196	sqr. yds.
Avenue D, Fifteenth and Sixteenth streets	246	"
Twentieth street, Tenth avenue and four hundred feet west.....	771	
Total, at private expense...	2,213	"
Total, by contract.....	10,512	"
Making in all.....	12,725	"

CONTRACTS have also been made for laying Cross-walks at the following intersections, viz.:

One Hundred and Eighteenth street, intersections of avenues A, First and Second.

Second avenue, intersections from Fifty-seventh to Sixty-first street.

And for construction of a

Well at northeast corner of Tenth avenue and Sixty-fifth street.

MISCELLANEOUS CONTRACTS.

50 12-inch }
100 6-inch } iron stop cocks.
50 4-inch }

200 fire hydrants.

15,000 superficial feet bridge stone.

1,500 $\frac{3}{4}$ -inch }
500 $\frac{1}{2}$ -inch } brass stop cocks.
25 1-inch }

3,395 tons 4-foot pipe.

35 tons special castings for pipe.

6,167 feet 12-inch pipe.

3,700 feet 6-inch pipe, 12 feet 4 inches long.

10,800 feet 6-inch pipe, 9 feet long.

25 tons special castings for 12 and 6-inch pipe.

648,100 lbs. boiler plate iron } for 7 $\frac{1}{2}$ -feet pipe on High
100,144 lbs. flange iron } Bridge.

3,600 tons 4-foot pipe.

980 tons 3-foot pipe.

30 tons special castings for 4 and 3-foot pipe.

For labor, materials, and construction of 7 $\frac{1}{2}$ -feet pipe.

For laying 4-foot main in Fourth avenue, from Receiving to Distributing Reservoir.

SCHEDULE No. 26.

ABSTRACT OF ORDINANCES received, for the construction of Trap-block pavements, with the proportion of the expense thereof to be borne by the City, as estimated for the use of the Comptroller.

LOCALITY.	PROPORTION ASSUMED BY THE CITY.	ESTIMATE FOR TAX-LEVY
Third avenue, from Fifty-sixth to Eighty-sixth street.....	1-3	\$36,278
Thirty-first street, from Sixth to Seventh avenues.....	1-2	2,784
Second avenue, from Forty-eighth to Sixty-first street.....	1-3	16,866
Fifty-third street, from Second to Third avenue.....	1-2	2,310
Hudson street, from Canal to Eighth avenue.....	2-3	24,024
Bleecker street, from Broadway to Eighth avenue.....	all	29,260
Third avenue, from Bowery to Forty-fourth street.....	2-3	140,360
Washington street, from Liberty to Spring streets.....	1-2	18,020
Canal street, from Centre to West streets.....	2-3	44,055
Centre street, from Chambers to Broome streets.....	all	31,242
South street, from Whitehall to Corlears streets.....	all	140,250
Fiftieth street, from Second to Third avenues.....	1-3	1,419
Twenty-third street, from Third avenue to Hudson river....	all	73,480
Twenty-third street, from Third avenue to East river.....	all	24,490
Twentieth street, from Broadway to Fifth avenue.....	1-2	1,144
Thirty-second street, from Second to Third avenues.....	2-3	2,745
Thirty-eighth street, from Fourth to Eighth avenues.....	2-3	15,692
Fourth avenue, from Seventeenth to Thirty-second street....	1-3	17,243
Reade street, from Broadway to City Hall place.....	2-3	4,450
Eighth street, from Broadway to Sixth avenue.....	all	14,630
Forty-third street, from Ninth to Tenth avenues.....	1-2	1,833
Ninth street, from Broadway to Sixth avenue.....	all	14,630
Rutherford place, from Sixteenth to Seventeenth streets....	1-2	825
Thirty-sixth street, from Park to Lexington avenue.....	1-2	1,530
Forty-third street, from Broadway to Sixth avenue.....	1-2	2,640
Twenty-sixth street, from Sixth to Madison avenue.....	all	4,710
Fourteenth street, from Union Square to Ninth avenue.....	all	36,960
Thirty-first street, from Fifth to Madison avenues.....	1-2	1,515
Twenty-ninth street, from Fifth avenue to Broadway.....	2-3	1,684
Broome street, from Houston to Bowery.....	all	12,420
Second avenue, from Houston to Thirty-fourth streets.....	2-3	52,800
Total.....		\$774,139

The following Ordinances were received subsequently to the preparation of the above estimate.

LOCALITY.	PROPORTION ASSUMED BY THE CITY.
Tenth street, from Fifth to Sixth avenue.....	1-2
Lexington avenue, from Forty-second to Fifty-seventh street.....	1-2
Forty-seventh street, from Sixth to Seventh avenue.....	1-2
Ninth avenue, from Fourteenth to Forty-second street.....	all
Thirty-fifth street, from Second to Third avenue.....	1-2

The Ordinances for the following Trap-block pavements provide for an assessment of the whole of the cost on the property benefited.

LOCALITY.	EXECUTION OF THESE WORKS DEFERRED, THE STREETS NOT BE- ING CURBED AND GUTTERED.
Forty-ninth street, Third avenue and East river.....	}
Fifty-second street, Sixth and Seventh avenues.....	
Broadway, Fiftieth and Seventieth streets.....	
Fifth avenue, Forty-ninth to Sixty-first street.....	
Fifty-fifth street, Third to First avenue—street being sewered.....	

ORDINANCES have been received for paving with Cobble-stone Pavement, by assessment :

Eleventh avenue, Forty-eighth to Fifty-third street.
Twenty-eighth street, Eleventh avenue and Hudson river.
Forty-first street, Tenth to Eleventh avenue.

ORDINANCES have also been received for the construction of Sewers in the following streets :

Thirty-second street, from Tenth avenue to Hudson river.
Fifty-ninth street, from Eighth to Fifth avenue.
*Seventy-first street, from Fourth avenue to East river.
Seventeenth street, intersection of Third avenue.
Fifty-sixth street, from Third to Lexington avenue.
Lexington avenue, from Fifty-sixth to Fifty-ninth street.
Fifty-ninth street, from Lexington to Fifth avenue.
Twenty-fourth street, from Tenth avenue to Hudson river.
Eleventh avenue, from Forty-first to Forty-second street.
One hundred and twenty-ninth street, from Fourth to Third avenue.
Third avenue, from One hundred and twenty-ninth street to Harlem river.
Fifth avenue, from Forty-second to Forty-fourth street.
Forty-seventh street, from Tenth avenue to 375 feet east, and in Tenth avenue, between Forty-sixth and Forty-seventh streets.
Thirty-ninth street, between Fourth and Madison avenues.
Fortieth street, between Fourth and Madison avenues.
Fourth avenue, between Thirty-ninth street and Forty-second street.

* Street not opened by law.

Pier foot of Peck slip—Trunk outlet.
 Eighty-second street, between Third and Fourth avenues.
 Broadway, between Fifty-ninth and Sixtieth streets.
 Seventeenth street, between avenue A and East river.
 First avenue, between Fifty-first and Fifty-fifth streets.
 Fifty-first street, between avenue A and First avenue.
 Fifty-second street, between avenue A and First avenue.
 East Broadway, between Rutgers and Jefferson streets.
 Twenty-sixth street, between Ninth and Tenth avenues.
 Water street, between Old slip and Gouverneur lane.
 Mulberry street, between Bleecker and Houston streets.
 West Twenty-first street, between Hudson river and
 present sewer.
 Hester street, between Forsyth and Chrystie street.
 Avenue A, between Fourth and Fifth streets.
 Norfolk street, between Rivington and Delancey streets.
 Oak street, between James and Roosevelt streets.
 Forty-seventh street, between Second avenue and East river.
 One hundred and twenty-fifth street, between Third avenue
 and Harlem river.
 Fourth avenue, east side, from Thirty-fifth street, to 100 feet
 north.
 Forty-first street, between Fourth and Madison avenues.
 Forty-second street, between Second and Third avenues.
 Fifty-seventh street, between Lexington and 100 feet west
 Third avenue.
 Fifth street, between First and Second avenues.
 Fifty-ninth street, between Second and Third avenues.
 Second avenue, between Forty-fifth and Forty-seventh
 streets.
 Ludlow street, between Stanton and Rivington streets.

STREET.	BETWEEN.	LOADS OF STONE.	LOADS OF SAND.
	Washington to West street..	3	3
Carlisle street.....	Cherry and Bowery.....	63	80
Catharine street.....	Broadway and West streets..	28	63
Cedar street.....	Nassau and Pearl streets....	14	23
	Chambers and Walker streets..	176	573
Centre street.....	Canal and Broome streets....	26	228
Centre street.....	Church and Broadway.....	9	30
Chambers street.....	West and Greenwich streets..	21	30
Charles street.....	West and Macdougall streets..	38	11
Charlton street.....	Franklin sq. and Jefferson st..	87	129
Cherry street.....	Montgomery to Jackson st....	5	32
Cherry street.....	West and Hudson streets....	22	34
Christopher street.....	Fourth st. and Greenwich av..	4	21
Christopher street.....	Bayard and Grand streets....	2	8
Chrystie street.....	Broome and Delancey streets..	17	44
Chrystie street.....	Fulton and Barclay streets....	13	27
Church street.....	Reade and Worth streets....	33	48
Church street.....	White and Canal streets....	2	14
Church street.....	Greenwich and Varick sts....	20	41
Clarkson street.....	Beekman and John streets....	12	31
Cliff street.....	South to Houston street.....	28	93
Clinton street.....	Broad and South.....	28	59
Coenties slip.....	Robinson and Murray.....	10	13
College place.....	Fourth and Bleecker streets..	13	29
Cornelia street.....	West and Greenwich streets..	79	190
Cortlandt street.....	Bowery and East River.....	82	206
Delancey street.....	B'way and Washington streets	69	60
Dey street.....	Bowery and Ludlow streets..	60	89
Division street.....	Clinton and Gouverneur sts....	16	16
Division street.....	Hudson and Clark streets....	14	20
Dominick street.....	South st. and Franklin square	11	22
Dover street.....	West and Hudson streets....	26	50
Duane street.....	Scammel and Catharine sts....	177	365
East Broadway.....	Division and Houston streets..	83	106
Eldridge street.....	Franklin and Broome streets..	53	115
Elm street.....	Canal and Houston streets....	34	98
Elizabeth street.....	Canal and Houston streets....	112	163
Essex street.....	Broad street to Broadway....	4	16
Exchange place.....	Gold and Pearl streets.....	15	21
Ferry street.....	South and Water streets.....	4	14
Fletcher street.....	Division and Houston streets..	63	119
Forsyth street.....	Baxter street to Broadway....	6	15
Franklin street.....	Hudson and Greenwich sts....	26	39
Franklin street.....	Washington to West street....	18	31
Frankfort street.....	Pearl to William street.....	10	23
Front street.....	Roosevelt and Whitehall sts..	255	469
Goerck street.....	Houston and Delancey streets	18	41

STREET.	BETWEEN.	LOADS OF STONE.	LOADS OF SAND.
Gold street.....	Frankfort and Fulton streets.	33	54
Gold street.....	John street and Maiden Lane.	6	10
Gouverneur street.....	Water and Cherry streets....	7	18
Gouverneur street.....	Monroe st. and East Broadway	16	22
Grand street.....	Broadway and Wooster sts....	7	18
Great Jones street.....	Broadway and Bowery.....	4	16
Greene street.....	Canal and Fourth streets....	49	61
Greenwich avenue.....	Christopher to Hammond st....	55	121
Greenwich street.....	Battery place to Cortlandt st..	146	374
Greenwich street.....	Barclay to Murray street.....	19	32
Hamilton street.....	Catharine to Market street....	28	30
Harrison street.....	Greenwich to Hudson street....	19	34
Hammond street.....	West to Fourth street.....	127	35
Henry street.....	Oliver to Clinton street.....	13	31
Henry street.....	Montgomery to Grand street....	143	282
Hester street.....	Bowery to Chrystie street....	3	6
Hester street.....	Allen to Ludlow street.....	2	4
Houston street.....	East River and Lewis street....	8	37
Houston street.....	Avenue D and Macdougall st..	145	257
Houston street.....	Congress and West streets....	9	23
Hubert street.....	Washington and West streets....	8	16
Irving place.....	Fourteenth to Twentieth st....	48	90
Jackson street.....	South to Grand street.....	30	74
James street.....	Cherry st. and New Bowery....	24	59
Jay street.....	West to Greenwich street....	14	31
Jefferson street.....	South to Water street.....	5	12
John street.....	Cliff street to Broadway.....	93	202
King street.....	West to Macdougall street....	58	163
Laight street.....	Varick to Washington street....	27	61
Laurens street.....	Bleecker and Canal streets....	35	88
Leonard street.....	Hudson st. to West Broadway....	15	23
Leonard street.....	Broadway to Baxter street....	15	33
Lewis street.....	Grand to Eighth street.....	46	171
Liberty street.....	Gold to West street.....	83	211
Ludlow street.....	Canal to Rivington street....	43	56
Macdougall street.....	Spring and Vandam streets....	3	15
Macdougall street.....	Charlton and Bleecker streets....	5	23
Macdougall street.....	Fourth st. and Waverley place..	25	12
Madison street.....	Pearl to Clinton street.....	180	200
Madison street.....	Montgomery to Grand street....	44	51
Maiden lane.....	Broadway to South street....	141	376
Mangin street.....	Grand and Delancey streets....	28	34
Market street.....	Cherry and Division street....	10	29
Marketfield street.....	Whitehall to Broad street....	9	26
Marion street.....	Broome and Prince street....	35	68
Morris street.....	Greenwich and West street....	4	13
Monroe street.....	Catharine and Jefferson sts....	46	58

STREET.	BETWEEN.	LOADS OF STONE.	LOADS OF SAND.
Monroe street.....	Gouverneur and Grand streets	33	99
Montgomery street.....	Cherry and Water streets....	5	14
Montgomery street.....	Henry st. and East Broadway	5	12
Murray street.....	Greenwich street & Broadway	22	45
Mercer street.....	Houston and Broome streets....	4	50
Mulberry street.....	Bayard and Chatham streets....	4	16
Mott street.....	Bayard and Hester streets....	28	76
Mott street.....	Grand and Houston streets....	34	98
Nassau street.....	Spruce and Liberty streets....	16	56
Nassau street.....	Cedar and Pine streets.....	12	32
New street.....	Beaver and Wall streets....	6	40
Norfolk street.....	Houston and Grand streets....	16	34
North Moore street.....	West and Hudson streets....	55	80
Oak street.....	Catharine and James streets....	15	39
Oliver street.....	Madison st. and New Bowery....	15	41
Orchard street.....	Canal and Division streets....	8	16
Orchard street.....	Delancey and Rivington sts....	8	15
Park place.....	Church street and Broadway....	81	59
Pearl street.....	Broadway and Rose street....	35	102
Pearl street.....	State street to Peck slip.....	200	296
Perry street.....	Hudson and Fourth streets....	47	42
Pike street.....	Cherry and Division streets....	91	77
Pine street.....	South and William streets....	12	46
Platt street.....	Pearl and William streets....	28	42
Prince street.....	Bowery and Thompson streets....	28	90
Rector street.....	Sullivan and Macdougall sts....	11	29
Renwick street.....	West street to Broadway....	37	76
Ridge street.....	Spring and Canal streets....	6	14
Ridge street.....	Division and Grand streets....	9	9
Rivington street.....	Division and Houston streets....	6	23
Rose street.....	Bowery and Goerck streets....	55	60
Roosevelt street.....	Pearl st. and Frankfort street....	2	19
South street.....	South and Chatham streets....	44	131
South street.....	Rivington and Houston streets....	1	11
Spring street.....	Whitehall street to Peck slip....	341	493
Spring street.....	James and Montgomery sts....	147	261
Spring street.....	West and Sullivan streets....	62	139
Spring street.....	Greene street and Broadway....	4	14
Stanton street.....	Crosby to Marion street....	10	42
Stanton street.....	Mott street to Bowery.....	7	24
Stanton street.....	Tompkins and Ridge streets....	37	71
Stone street.....	Norfolk to Ludlow street....	18	35
Suffolk street.....	Allen street and Bowery....	17	64
Sullivan street.....	Whitehall st. and Hanover sq....	30	62
Sullivan street.....	Houston and Broome streets....	22	47
Sullivan street.....	Canal and Prince streets....	58	86
Sullivan street.....	Amity and Bleecker streets....	16	20

STREET.	BETWEEN.	LOADS OF STONE.	LOADS OF SAND.
Thames street.....	Greenwich st. and Broadway	13	21
Thompson street.....	Canal and Fourth streets...	62	114
Tompkins street.....	Grand and Delancey streets...	4	14
Tompkins street.....	Rivington and Stanton streets	3	11
Trinity place.....	Liberty and Rector streets...	31	36
Vandam street.....	Greenwich and Varick streets	5	14
Vesey street.....	West street and Broadway...	14	31
Vestry street.....	Canal and Hudson streets...	5	13
Varick street.....	Franklin and Canal streets...	37	88
Varick street.....	Downing and King streets...	2	119
University place.....	Waverley pl. & Fourteenth st.	60	123
Warren street.....	Broadway and West street...	83	231
Washington street.....	Morris to Robinson street...	116	207
Washington street.....	Reade to Laight street.....	113	119
Water street.....	Whitehall to Wall street.....	61	458
Water street.....	Fulton to Rutgers street.....	264	42
Water street.....	Jefferson and Clinton streets	14	8
Watts street.....	Gouverneur to Jackson street	5	42
Waverley place.....	Hudson and Sullivan streets..	11	24
Waverley place.....	Macdougall st. and Sixth av..	9	11
West street.....	Charles and Christopher sts..	3	1,887
William street.....	Battery place to Leroy street	463	249
Wooster street.....	Broad to Chatham street....	86	179
Worth street.....	Canal st. to Washington place	93	42
	Broadway and Baxter street.	17	

REPAIRS TO CROSSWALKS.

DATE.	LOCALITY.	LOADS CORBLE STONE.	LOADS SAND.
1860.			
April 16 to 28.....	Corner of Bowery and Grand street.		2
	Opposite Dry Dock Savings Bank...	4	6
	Corner of South and Jefferson sts..	10	12
	" Old slip and Wooster st..	8	20
	" West and Harrison streets.	4	6
	" Fulton and Broadway...		4
	" Park Row and Broadway.	2	3
	" Front and Broad streets..	4	6
	" Front and Coenties slip...	6	8
	Opposite 89 Division street.....	2	4
	Corner Fulton and Front streets....	6	8
	" Beekman and Front sts ..	10	18
April 30 to May 12	" Macdougall and Waverly pl.	8	6
	" 10th st. and University pl.	6	8
	" 11th st. and University pl.	8	10
	" Old Slip and Front street.	12	20
	Opposite 272 South street.....	8	12
	" 175 Tenth street	4	6
	" 154 West street.....	6	10
	Corner of Wooster st. and Wash. pl.	4	6
	" Broadway and Wash. pl..	2	4
	" Eighth av. and Fourth st.	4	6
	" Eighth av. and Jane street.	4	6
	" Eighth av. and Bleecker st	6	8
May 14 to 26.....	" Perry and Washington sts.	5	8
	" Leroy and Washington sts.	4	6
	" Barrow and Washing'n sts.	6	8
	" Hammond & Wash'on sts.	4	10
	" Morton and Washing'n sts.	3	6
	" Bedford & Commerce sts.	6	8
	" Bedford and Grove streets.	5	6
	" Bedford and Carmine sts..	12	20
	" Bedford and Downing sts.	6	8
	" Eighth av. and Troy street.	4	6
	" Fourth st. and Broadway.		4
	" Gt. Jones st. & Lafay'e pl.		10
May 28 to June 9.	" Madison and James sts..	6	8
	" Greenwich & Robinson sts.	5	7
	" Jay and West streets	6	10
	" Mulberry and Chatham sts.	4	6
	" William and Duane streets.	3	7
	" Washington & Harris'n sts.	5	8
	" Avenue A & Third street.	10	20

DATE.	LOCALITY.	LOADS COBBLE STONE.	LOADS SAND.
1860.			
May 28 to June 9.	Corner of Avenue A and Fourth st.	11	20
	" Avenue A and Fifth street	8	12
	" Avenue A and Sixth st...	10	20
	" Avenue A and Seventh st.	10	15
	" Avenue A and Eighth st.	8	12
July 9 to 21.....	" Gansevoort and 13th st...	10	8
	" Twenty-fourth st. & Bd'y.		10
	" Twenty-fourth st. & Bd'y.		10
	" Twenty-fourth st. & Bd'y.		10
	" Twenty-fourth st. & Bd'y.		10
	" Jane and Washington sts.	5	8
	" Hammond & Washin'n sts.	6	10
	" Perry and Washington sts.	5	8
	" Bank and Washington sts.	6	10
	" Morton and Greenwich sts.	4	8
	" Troy and Greenwich sts..	6	10
	" Jane and Greenwich sts.	4	11
July 23 to Aug. 4.	" Horatio & Greenwich sts.	5	8
	" Varick and N. Moore sts.	10	20
	" Ninth avenue & avenue A.	12	15
	Madison avenue, from 23d to 42d sts		
August 6 to 18....	Corner of Fourth and W. Twelfth sts	2	6
	" Fourth and Hammond sts.	3	8
	" Centre and Pearl streets..	8	10
	" Centre and Worth streets	6	10
	" Centre and Leonard sts..	5	8
	" Centre and Franklin sts..	6	10
	" Centre and White streets.	6	12
	" Centre and Walker sts...	5	10
	" Centre and Canal streets.	3	6
	" Centre and Hester streets.	5	8
	" Centre and Howard sts...	8	10
	" Centre and Grand streets.	3	10
Aug. 20 to Sept 1..	" Avenue A and 11th street.	4	6
	" Avenue A and 12th street.	5	4
	" Avenue A and 13th street.	8	3
	" Broome and Lewis streets.	2	6
	" Broome and Greene sts...	5	8
	" Broome and Mercer sts...	5	10
	" Rivington & Chrystie sts.	4	6
	" Varick and Grand streets.	3	5
	" Varick and Watts streets.	4	5
	" Duane and West streets..	8	6
	" Rivington and Suffolk sts.	8	10

DATE.	LOCALITY.	LOADS COBBLE STONE.	LOADS SAND.
1860.			
Aug. 20 to Sept. 1.	Corner of Rivington and Norfolk sts.	8	10
September 3 to 15.	" Avenue B and Second st.	6	8
	" Avenue B and Third st..	8	10
	" Avenue B and Fourth st.	4	6
	" Avenue B and Fifthst....	6	11
	" Avenue B and Sixthst....	8	12
	" Avenue B and Seventh st.	7	11
	" Avenue B and Eighth st..	5	8
	" Avenue B and Ninth st..	7	10
	" Avenue B and 14th street.	4	6
	" North Moore and West sts.	6	10
	" Nineteenth st. & Broad'y.	8	15
	" Twenty-fourth st. & Bd'y.		8
September 17 to 29	" Church and Duane streets.	6	10
	" Hester and Eldridge sts..	3	6

SCHEDULE No. 29.

WELLS COVERED DURING THE YEAR 1860.

Southwest corner of Houston and Elizabeth streets.
 Eighty-fifth street, south side, 50 feet west of Third avenue.
 West side Second avenue, 50 feet south of First street.
 Northwest corner of Varick and Vandam streets.
 Northwest corner of Suffolk and Stanton streets.
 North side Sixteenth street, 50 feet east of Fourth avenue.
 Northwest corner of Pitt and Broome streets.
 Southeast corner of Grand and Ludlow streets.
 Southeast corner of Broome and Ludlow streets.
 Northwest corner of Spring and Elizabeth streets.
 No. 103 Forty-ninth street.
 Southeast corner of East Broadway and Gouverneur street.
 Southeast corner of Catharine and Henry streets.
 No. 11 Jones street.
 Northeast corner of Amity and Macdougall streets.
 Northeast corner of Bayard street and Bowery.
 Southeast corner of Houston and Willett streets.
 Southeast corner of Houston and Sheriff streets.
 Southeast corner of Monroe and Clinton streets.
 Southeast corner of Mulberry and Grand streets.
 Third street, near avenue C.
 Southwest corner of Seventeenth street and Eighth avenue.
 Northeast corner of Twenty-eighth street and Third avenue.
 Northwest corner of Twelfth street and Fourth avenue.

SCHEDULE No. 27.

STREET IMPROVEMENTS.

Payments under this head, by the issue of Certificates in favor of the Contractor, or his Assigns, have been made on the following Contracts during the year 1860.

ON TRAP-BLOCK PAVEMENTS.

Battery place, from Broadway to pier, March 13th, No. 4, and final.....	\$4,568 74
St. Mark's place, from First avenue to Third avenue, February 25th, No. 3, and final.....	3,252 39
Fifty-third street, Broadway, and Eighth avenue, January 5th, No. 2, and final.....	2,183 05
Forty-third street, Seventh and Eighth avenues, January 5th, No. 1, and final....	5,063 12
Wall street, Broadway and East river, July 3d, No. 3, seventy per cent.....	4,067 06
October 9th, No. 4, and final.....	4,431 00
Fifty-second street, Second avenue and Third avenue, February 17th, No. 2, and final.....	3,373 64
Eighteenth street, Broadway and Sixth avenue, January 5th, No. 2, and final..	5,336 09
Fifth avenue, Washington square and Forty-second street, February 15th, No. 1, seventy per cent.....	3,921 50
April 20th, No. 2, seventy per cent.....	10,642 52
May 17th, No. 3, seventy per cent.....	15,264 51
June 16th, No. 4, seventy per cent.....	22,112 12

July 9th, No. 5, seventy per cent.....	\$11,254 91
October 4th, No. 6, and final.....	26,801 82
Thirty-sixth street, between Fifth and Sixth avenues, October 12th, No. 1, fifty per cent.....	3,577 49
December 22d, No. 2, and final.....	3,577 48
Forty-sixth street, between Fifth and Sixth avenues, July 24th, No. 1, fifty per cent.....	3,342 54
Sixth avenue, Carmine and Forty-second streets, April 18th, No. 2, seventy per cent.....	11,123 00
May 22d, No. 3, seventy per cent.....	22,246 00
June 14th, No. 4, seventy per cent.....	14,831 25
July 19th, No. 5, seventy per cent.....	12,397 00
August 14th, No. 6, seventy per cent.....	15,890 00
September 24th, No. 7, seventy per cent.....	14,035 94
December 24th, No. 8, and final.....	40,654 75
Fifty-first street, Second and Fourth avenues, March 28th, final.....	9,845 92
Duane street, Chatham street and City Hall place, January 4th, No. 1, fifty per cent.....	937 58
March 13th, No. 2, and final.....	937 58
Twentieth street from Fifth to Sixth avenue, May 21st, No. 1, fifty per cent.....	2,497 24
July 30th, No. 2, and final.....	2,481 24
Forty-second street, from Sixth to Seventh avenue, July 30th, No. 1, and final.....	6,136 63
Eighth avenue, Hudson and Forty-second streets, June 6th, No. 1, seventy per cent.....	5,905 20

July 3d, No. 2, seventy per cent.....	\$7,369 25
August 2, No. 3, seventy per cent.....	8,064 70
September 4, No. 4, seventy per cent....	9,737 35
October 4, No. 5, seventy per cent.....	23,310 00
October 30, No. 6, seventy per cent.....	24,330 53
December 27, No. 7, and final.....	33,735 87
Forty-eighth st., Sixth and Seventh avenues, October 8, No. 1, and final....	4,457 24
State street, Battery place and Whitehall st., July 14, No. 1, fifty per cent..	4,134 09
September 12, No. 2, and final.....	4,133 70
Thirty-seventh street, Lexington and Fourth avenues, Sept. 12, No. 1, and final.....	2,285 22
Thirty-fourth street, from Third to Lexington avenue, August 4, No. 1, fifty per cent.....	1,949 09
October 8, No. 2, and final.....	1,949 08
Reade street, Broadway and Washington, Aug. 6, No. 1, seventy per cent.....	4,408 24
September 5, No. 2, seventy per cent.....	2,857 15
November 2, No. 3, and final.....	3,113 73
Thirty-fourth street, from Fourth to Ninth avenue, August 9, No. 1, seventy per cent.....	19,113 22
September 14, No. 2, seventy per cent...	12,526 69
November 21, No. 3, and final.....	13,559 95
Thirty-fifth street, from Fifth to Sixth avenue, August 20, No. 1, fifty per cent.	3,006 09
October 23, No. 2, and final.....	3,006 09
Amity street, Broadway and Sixth avenue, September 28, No. 1, and final.	13,322 13

Tenth street, Fourth avenue and East river, September 6, No. 1, seventy per cent.	\$9,256 52
October 30, No. 2, seventy per cent.	13,643 56
December 13, No. 3, and final	19,874 16
Forty-fourth street, from Ninth to Tenth avenue, November 17, No. 1, and final	5,617 29
Twenty-eighth street, Eighth and Ninth avenues, September 20, No. 1, and final	5,104 62
Fourth avenue, from Thirty-fourth to Thirty- eighth street, October 1, No. 1, seventy per cent.	8,597 78
November 27, No. 2, and final	4,052 75
Ninth avenue, Forty-fifth and Fifty-third street, September 27, No. 1, seventy per cent.	5,000 99
November 23, No. 2, seventy per cent. ...	7,648 90
December 22, No. 3, seventy per cent. ...	2,787 24
Forty-fifth street, from Fifth to Sixth avenue, December 22, No. 1, and final.	6,039 94
Greenwich street, Battery place and Ganse- voort street, October 30, No. 1, seventy per cent.	11,541 08
November 20, No. 2, seventy per cent. ...	11,117 93
December 10, No. 3, seventy per cent. ...	11,124 75
Chambers street, Chatham and Hudson river, November 8, No. 1, seventy per cent.	11,083 80
November 28, No. 2, seventy per cent. ...	3,874 54

COBBLE-STONE PAVEMENTS.

Forty-sixth street, Ninth avenue, and sixty feet east, January 9, No. 1, and final.	\$140 55
Fiftieth street, Eighth and Ninth avenues, Jan- uary 9, No. 1, and final	1,419 30
Forty-second street, Tenth avenue and Hudson river, July 30, No. 1, and final	6,860 69
Thirty-eighth street, Third and Fourth avenues, March 29, No. 1, and final	1,090 38
Twenty-ninth street, First and Second avenues, March 13, No. 1, and final	1,147 86
Forty-eighth street, Eleventh avenue and Hud- son river, September 18, No. 1, and final	1,026 37
Fifty-first street, Tenth and Eleventh avenues, August 6, No. 1, and final	1,363 80
Fifty-first street, Eleventh and Twelfth ave- nues, August 6, No. 1, and final	1,195 56
Thirty-seventh street, Second and First avenues, September 8, No. 1, and final ..	1,014 26
Forty-first street, Ninth and Tenth avenues, March 24, No. 1	1,187 98
May 27, No. 2, and final	150 00

CROSS-WALKS.

Intersection Pearl and Vandewater streets, Sep- tember 8, No. 1, and final	69 76
Intersection One Hundred and Eighteenth street with avenue A, First and Second, December 22, No. 1, and final	937 92

Amount paid for the inspection of the construction of trap-block and cobblestone pavements, and of crosswalks \$5,674 00

ON SEWERS.

Forty-fifth street, between Second and Third avenues, January 5	2,875 03
Thirty-sixth street, from Tenth avenue, through Eleventh avenue, to Thirty-seventh street, July 14.....	6,526 35
Forty-fifth street, between Ninth and Tenth avenues, January 5.....	4,967 95
Allen street, Grand and Hester, July 13.....	362 92
East Broadway, Pike and Rutgers streets, April 24, final.....	62 00
Seventh avenue, Fifty-sixth to Fifty-eighth street, April 5, final.....	49 50
Front street, Old slip and Gouverneur lane, January 5, final.....	30 00
Ludlow street, Rivington and Delancey streets, February 25, final.....	32 60
Greenwich street, Perry and Charles streets, January 16, final.....	22 50
Washington, Cortlandt, and Liberty streets, January 20, final.....	23 60
Thirty-sixth street, Seventh avenue and Broadway, May 24	3,364 40
East Broadway, Grand and Columbia streets, April 20, final.....	200 00
Seventeenth street, from Eighth avenue, to and through Ninth avenue, to Sixteenth street, January 5th, 1860	2,976 13

June 11th, 1860, final.....	\$108 40
Downing street, Bedford and Varick, January 6th, final.....	37 10
Fifty-first street, Ninth avenue, and 250 feet east, June 11th, final.....	30 30
Twenty-fourth street, Eighth and Tenth avenues, March 10th, final.....	109 50
Washington, Cedar and Albany, September 6th, 1860, final.....	16 30
Eighty-sixth street, Third avenue and East river, and in Third avenue and Eighty-fifth street, January 9th, No. 4, seventy per cent.....	880 32
May 5th, No. 5, seventy per cent.....	2,950 15
May 26th, No. 6, seventy per cent.....	985 25
July 5th, No. 7, seventy per cent.....	1,731 20
August 18th, No. 8, seventy per cent....	2,301 37
October 4th, No. 9, seventy per cent....	772 45
October 15th, No. 10, seventy per cent..	758 10
October 25th, No. 11, seventy per cent..	503 79
November 12th, No. 12, seventy per cent.	1,583 68
November 17th, No. 13, seventy per cent.	318 57
December 15th, No. 14, seventy per cent.	820 96
Forty-seventh street, Seventh avenue and Broadway, April 26th.....	1,666 03
September 6th, final.....	71 00
Essex street, from Division to No. 10 Essex, July 9th, final.....	20 70
Eighth avenue, Fifteenth and Sixteenth streets, April 27th, final.....	22 10
Tenth avenue, Forty-sixth street, and 100 feet north, March 13th.....	1,450 55
August 20th, final.....	15 30

Thirty-fourth street, Hudson river, and 275 feet east of Tenth avenue, January 3, No. 4, seventy per cent..	\$447 58
March 2, No. 5, seventy per cent.....	991 20
May 3, No. 6, seventy per cent.....	890 26
June 2, No. 7, seventy per cent.....	713 72
July 5, No. 8, seventy per cent.....	793 24
September 5, No. 9, seventy per cent....	721 00
November 1, No. 10, seventy per cent...	1,369 34
December 31, No. 11, seventy per cent..	616 91
Seventh avenue, Forty-first to Forty-fifth street, March 9th.....	1,266 02
August 2d, final.....	18 90
Forsyth street, Broome and Grand, April 6th, final.....	27 80
Fifty-third street, Third avenue to 100 feet west of Fourth avenue, and in Lexington avenue, between Fifty-second and Fifty-fourth streets, July 16th.....	6,610 79
Attorney street, Stanton and Houston, March 16th, final.....	37 50
East Broadway, Market and Pike, April 24th.	59 00
Allen street, Canal, and 100 feet north of Division, June 2d.....	18 20
Ridge street, Broome and Delancey, June 19th.	31 60
Sixty-first street, Second and Third avenues, March 29.....	3,230 64
September 1, final.....	58 60
One Hundred and Twentieth street, Third avenue and East River, June 16, No. 2, seventy per cent.....	5,739 52
November 2, No. 3, and final.....	3,576 85

Forty-fifth street, Third and Lexington avenues, March 13.....	\$1,393 48
Water street, Peck slip and Beekman, March 28.....	985 92
June 28, final.....	32 60
Sixth avenue, Forty-ninth and Fiftieth streets, March 29, 1860.....	993 50
April 6, final.....	26 30
Grand, Essex, and Allen, March 13.....	2,574 50
June 2, final.....	60 70
Reade street, Greenwich and West Broadway, June 7, final.....	1,399 77
Sixteenth street, avenue B and East River, January 5.....	6,160 30
Water street, Old slip, and Coenties slip, March 13.....	1,360 80
June 28, final.....	41 80
Essex street, Stanton, and Houston, March 13.....	1,029 56
April 10.....	37 40
July 25, final.....	37 40
East Broadway, Catharine, and Market streets, March 13, 1860.....	1,932 58
July 25, final.....	142 00
Commerce, Bedford, and Bleecker streets, April 20.....	957 00
September 6, final.....	37 50
Madison avenue, Thirty-eighth, and Thirtieth streets, March 16.....	664 65
Seventh avenue, Twenty-ninth and Thirtieth streets, January 9.....	792 55
July 31, final.....	19 85

Greenwich street, Barrow, and Christopher streets, March 23.....	\$978 90
June 19, final.....	31 90
Greenwich street, Vestry, and Desbrosses streets, March 9.....	536 95
June 19, final.....	19 35
Hudson, Jane, and Horatio, March 29.....	534 63
July 9, final.....	19 00
Tenth street, avenue D, and Dry Dock street, March 9.....	1,114 25
June 19, final.....	29 50
Fourth street, Bank, and Hammond streets, May 8.....	394 05
June 28.....	13 30
Ridge street, Broome, and Grand streets, January 9.....	837 37
July 25, final.....	25 70
Second avenue, Forty-ninth, to and through Forty-seventh street and Third avenue, to midway between Forty-fifth and Forty-sixth streets, and in Forty-eighth street to near Third avenue, June 6, No. 1, seventy per cent.....	1,319 25
July 19, No. 2, seventy per cent.....	1,430 13
September 15, No. 3, seventy per cent..	1,746 66
November 14, No. 4, seventy per cent...	1,113 00
December 26, No. 5, seventy per cent...	271 14
Suffolk, from Houston to crown between Stanton and Houston, August 7.....	968 05
Orchard street, Hester to 115 feet N. Canal, July 13.....	806 37
November 22, final.....	29 30

Reade, West Broadway to near Broadway, October 1, final.....	\$3,550 53
Sixth avenue, Forty-seventh to Forty-eighth street, October 8, final.....	1,032 92
Third avenue, Sixty-first to Sixty-sixth street, October 9, final.....	4,360 05
Reade street, forty feet west Greenwich to and through Washington to Chambers street, September 12.....	1,363 86
Eighth avenue, Eighteenth and Twenty-first streets, October 24, final.....	1,762 95
Spring street, Sullivan and Macdougall, October 24, final.....	786 27
Fifty-seventh street, from Second avenue to 350 feet east, November 5, final.....	1,170 60
Norfolk street, Delancey to 85 feet north Broome, November 2.....	796 65
Mott street, Grand to 45 feet north Hester, November 1.....	1,084 56
Fortieth street, Fifth and Sixth avenues, November 27.....	3,803 85
Greenwich street, Jay and Harrison, November 22, final.....	525 92
Bethune street, from 80 feet west Greenwich street, through Washington, to Troy street, December 22....	2,073 32
Franklin street, Hudson to West Broadway, December 22.....	1,680 80
First avenue, Tenth and Eleventh streets, December 22.....	437 82

Sixth avenue, from Fifty-first street, to and through Fifty-third street to 225 feet west of Fifth avenue, November 1, No. 1, seventy per cent.	\$1,239 00
December 13, No. 2.....	945 70
Forty-fifth street, Tenth avenue to Hudson River, November 8, No. 5, final.	2,724 01
Sixth avenue, from Fiftieth, to and through Fifty-first street, to Fifth avenue, and in Forty-eighth and Fiftieth streets, December 7, No. 1, seventy per cent.....	5,108 04
Second avenue, from Seventy-ninth street to Eighty-sixth street, December 27, No. 1, seventy per cent....	1,933 09

ON RECEIVING BASINS AND CULVERTS.

Southwest corner of Thirty-fourth street and First avenue, January 5, 1860..	\$163 00
Southwest corner of Duane and City Hall place, corner of Duane and Chatham streets, March 16, 1860	250 00
Southeast corner of Broadway and Thirtieth street, March 13, 1860.....	225 30
Northeast corner of Broadway and Thirtieth street, March 13, 1860.....	198 02
Southwest corner of Eighth avenue and Forty-fifth street, March 13, 1860	132 00
Northwest corner of Eighth avenue and Forty-fifth street, March 13, 1860.....	153 00

Northeast corner of Eighth avenue and Thirty-fourth street, March 13, 1860..	\$174 00
Southeast corner of Sixth avenue and Eleventh street, August 7, 1860.....	136 00
Southwest corner of Pearl and Wall streets, September 18, 1860.....	120 00
Northwest corner of Wall and William streets, October 24, 1860.....	136 00

Amount paid during the year for the inspection of the construction of sewers, receiving basins and culverts, \$14,334.

SCHEDULE No. 28.

SHOWING THE REPAIRS MADE TO PAVEMENTS DURING THE
YEAR 1860.

STREET.	BETWEEN.	LOADS OF STONE.	LOADS OF SAND.
Avenue A.....	First to Twenty-third street..	507	1,025
Avenue B.....	Second to Fifteenth street...	344	731
Avenue C.....	Houston to Fourteenth street.	49	173
First avenue.....	Tenth to Thirteenth street...	48	64
First avenue.....	Thirtieth to Thirty-fifth street.	395	129
First avenue.....	36th to 37th street.....	128	257
Second avenue.....	Eleventh to Thirteenth street.	64	138
Third avenue.....	Seventh to Twenty-sixth st..	133	396
Third avenue.....	32d to 39th street.....	35	271
Third avenue.....	Fortieth to Forty-fourth st..	27	106
Fourth avenue.....	17th to 32d street.....	1,035	984
Sixth avenue.....	42d to 43d street.....	31	44
Seventh avenue.....	32d to 37th street.....	63	113
Seventh avenue.....	41st to 42d street.....	10	21
Seventh avenue.....	43d to 44th street.....	38	46
Seventh avenue.....	46th to 48th street.....	78	248
Eighth avenue.....	Abingdon sq. and 14th street.	16	104
Eighth avenue.....	51st to 52d street.....	21	38
Ninth avenue.....	43d to 44th street.....	10	23
Ninth avenue.....	24th to 25th street.....	10	20
Tenth avenue.....	38th to 47th street.....	101	160
First street.....	Suffolk and Bowery.....	41	187
Second street.....	Bowery and avenue D.....	99	230
Third street.....	Lewis and Broadway.....	34	174
Fourth street.....	Lewis and West 12th street..	303	352
Fifth street.....	Lewis and avenue A.....	19	55
Sixth street.....	Avenues A and D.....	20	71
Seventh street.....	Lewis and Bowery.....	28	101
Eighth street.....	Lewis and First avenue.....	15	61
Eighth street.....	Fourth to Sixth avenue.....	149	201
Ninth street.....	Avenue D and Third avenue.	16	75
Ninth street.....	Broadway and University pl.	22	63
Ninth street.....	Fifth to Sixth avenues.....	12	22
Tenth street.....	East river and avenue B....	46	85
Tenth street.....	Broadway and Sixth avenue.	29	35
Tenth street.....	Hudson and West streets.....	79	84
Eleventh street.....	East river and Fourth av....	83	210
Eleventh street.....	Broadway and University pl..	42	28

STREET.	BETWEEN.	LOADS OF STONE.	LOADS OF SAND.
Twelfth street.....	Avenue D and Sixth avenue.	91	287
Thirteenth street.....	Fifth avenue and avenue C...	220	426
Fourteenth street.....	Avenue C and Third avenue.	154	323
Fourteenth street.....	Fifth and Ninth avenues.....	368	549
Fifteenth street.....	Third and Fourth avenues.....	18	26
Sixteenth street.....	Broadway and Fifth avenue..	98	39
Seventeenth street.....	Avenue A and Second av....	108	186
Seventeenth street.....	Avenue B and Second av....	16	31
Eighteenth street.....	Fifth avenue and Broadway..	153	406
Nineteenth street.....	Avenue A and Fourth avenue.	99	236
Nineteenth street.....	Avenue A and Third avenue..	107	216
Twentieth street.....	Sixth and Tenth avenues.....	65	153
Twentieth street.....	First avenue and Irving pl...	15	75
Twentieth street.....	Fourth and Fifth avenues.....	88	175
Twentieth street.....	Sixth and Tenth avenues.....	50	128
Twenty-first street.....	Avenue A and Second av....	150	96
Twenty-first street.....	Fourth and Fifth avenues.....	150	76
Twenty-first street.....	Sixth and Tenth avenues.....	346	567
Twenty-second street.....	Fourth to Ninth avenue.....	57	111
Twenty-third street.....	Avenue A and Third avenue.	86	361
Twenty-fourth street.....	Broadway and Eleventh av...	24	47
Twenty-fourth street.....	Avenue A and Second av....	27	71
Twenty-fifth street.....	Broadway and Fifth avenue..	95	177
Twenty-fifth street.....	Sixth and Eleventh avenues..	52	174
Twenty-fifth street.....	First and Fifth avenues.....	86	77
Twenty-sixth street.....	First avenue and Broadway..	84	205
Twenty-seventh street.....	First and Sixth avenues.....	141	347
Twenty-eighth street.....	Second to Seventh avenue...	20	46
Thirtieth street.....	Second and Third avenues...	79	193
Thirtieth street.....	Lexington av. and Broadway.	48	73
Thirtieth street.....	Sixth and Seventh avenues...	272	599
Thirtieth street.....	First and Seventh avenues...	107	368
Thirty-first street.....	Lexington and First avenues.	3	27
Thirty-second street.....	Third and Lexington avenues.	85	162
Thirty-third street.....	Fourth and Seventh avenues.	146	155
Thirty-third street.....	Ninth and Eleventh avenues..	4	65
Thirty-third street.....	First and Second avenues....	224	528
Thirty-fourth street.....	First and Fifth avenues.....	229	256
Thirty-fifth street.....	Broadway and Eleventh av...	49	128
Thirty-fifth street.....	First and Third avenues.....	151	308
Thirty-sixth street.....	Fourth and Fifth avenues....	32	100
Thirty-sixth street.....	Broadway and Tenth avenues.	42	83
Thirty-seventh street.....	Madison av. to Broadway....	38	96
Thirty-seventh street.....	Seventh and Tenth avenues..	148	397
Thirty-eighth street.....	Avenue A and Third avenue.	8	24
Thirty-eighth street.....	Ninth and Tenth avenues....		

STREET.	BETWEEN.	LOADS OF STONE.	LOADS OF SAND.
Thirty-ninth street.....	Third and Fourth avenues...	145	105
Thirty-ninth street.....	Sixth and Twelfth avenues...	124	138
Fortieth street.....	Fourth and Madison avenues...	8	24
Fortieth street.....	Sixth and Eighth avenues...	33	81
Forty-first street.....	Seventh av. and Broadway...	4	12
Forty-second street.....	Fifth and Sixth avenues...	14	24
Forty-fourth street.....	Third and Fifth avenues...	76	161
Forty-fourth street.....	Seventh and Eighth avenues...	51	61
Forty-fifth street.....	First and Second avenues...	36	53
Forty-fifth street.....	Sixth and Seventh avenues...	19	51
Forty-sixth street.....	Sixth and Seventh avenues...	29	22
Forty-sixth street.....	Ninth and Eleventh avenues...	93	109
Forty-seventh street.....	First and Second avenues...	94	202
Forty-seventh street.....	Sixth and Seventh avenues...	113	153
Fifty-first street.....	Broadway and Ninth avenue...	159	326
Fifty-third street.....	East river and Third avenue...	307	404
Fifty-third street.....	Ninth and Tenth avenues...	140	135
Fifty-fourth street.....	Fifth and Lexington avenues...	45	52
Fifty-fourth street.....	Ninth and Tenth avenues...	50	74
Albany street.....	West and Greenwich streets...	16	34
Allen street.....	Division and Grand streets...	23	38
Allen street.....	Broome to Delancey street...	4	18
Ann street.....	Broadway to Gold street...	13	72
Attorney street.....	Grand and Broome streets...	8	14
Attorney street.....	Delancey and Rivington sts...	8	1
Attorney street.....	Stanton and Houston streets...	5	23
Astor place.....	Fourth av. and Broadway...	11	28
Barclay street.....	West street and Broadway...	42	73
Bayard street.....	Baxter street and Bowery...	11	35
Baxter street.....	Bayard and Worth streets...	14	35
Beach street.....	Hudson and West streets...	53	77
Beaver street.....	Broadway and S. William st...	95	148
Bedford street.....	Carmine and Houston streets...	13	34
Beekman street.....	William to South street...	42	113
Bleecker street.....	Bank street and Bowery...	526	502
Bridge street.....	Broad to State street...	3	17
Broad street.....	Wall to South street...	129	157
Broadway.....	17th to 21st street...	16	63
Broadway.....	26th to 30th street...	95	132
Broadway.....	36th to 50th street...	298	369
Broome street.....	Hudson to Broadway...	11	64
Broome street.....	Marion to Allen street...	46	134
Broome street.....	Suffolk to Clinton street...	7	21
Broome street.....	Attorney and Willet streets...	15	24
Broome street.....	Sheriff to Goerck street...	9	25
Canal street.....	Broadway and Greenwich st...	120	321
Cannon street.....	Broome to Rivington street...	27	43

STREET.	BETWEEN.	LOADS OF STONE.	LOADS OF SAND.
Carlisle street.....	Washington to West street...	3	3
Catharine street.....	Cherry and Bowery.....	63	80
Cedar street.....	Broadway and West streets...	28	63
Cedar street.....	Nassau and Pearl streets...	14	23
Centre street.....	Chambers and Walker streets...	176	573
Centre street.....	Canal and Broome streets...	26	228
Centre street.....	Church and Broadway.....	9	30
Chambers street.....	West and Greenwich streets...	21	30
Charles street.....	West and Macdougall streets...	38	11
Charlton street.....	Franklin sq. and Jefferson st...	87	129
Cherry street.....	Montgomery to Jackson st...	5	32
Cherry street.....	West and Hudson streets...	22	34
Christopher street.....	Fourth st. and Greenwich av...	4	21
Christopher street.....	Bayard and Grand streets...	2	8
Chrystie street.....	Broome and Delancey streets...	17	44
Chrystie street.....	Fulton and Barclay streets...	13	27
Church street.....	Reade and Worth streets...	33	48
Church street.....	White and Canal streets...	2	14
Church street.....	Greenwich and Varick sts...	20	41
Clarkson street.....	Beekman and John streets...	12	31
Cliff street.....	South to Houston street...	28	93
Clinton street.....	Broad and South.....	28	59
Coenties slip.....	Robinson and Murray.....	10	13
College place.....	Fourth and Bleecker streets...	13	29
Cornelia street.....	West and Greenwich streets...	79	190
Cortlandt street.....	Bowery and East River.....	82	206
Delancey street.....	B'way and Washington streets...	69	60
Dey street.....	Bowery and Ludlow streets...	60	89
Division street.....	Clinton and Gouverneur sts...	16	16
Division street.....	Hudson and Clark streets...	14	20
Dominick street.....	South st. and Franklin square...	11	22
Dover street.....	West and Hudson streets...	26	50
Duane street.....	Scammel and Catharine sts...	177	365
East Broadway.....	Division and Houston streets...	83	106
Eldridge street.....	Franklin and Broome streets...	53	115
Elm street.....	Canal and Houston streets...	34	98
Elizabeth street.....	Canal and Houston streets...	112	163
Essex street.....	Broad street to Broadway...	4	16
Exchange place.....	Gold and Pearl streets...	15	21
Ferry street.....	South and Water streets...	4	14
Fletcher street.....	Division and Houston streets...	63	119
Forsyth street.....	Baxter street to Broadway...	6	15
Franklin street.....	Hudson and Greenwich sts...	26	39
Franklin street.....	Washington to West street...	18	31
Franklin street.....	Pearl to William street...	10	23
Frankfort street.....	Roosevelt and Whitehall sts...	255	469
Front street.....	Houston and Delancey streets...	18	41
Goerck street.....			

STREET.	BETWEEN.	LOADS OF STONE.	LOADS OF SAND.
Gold street.....	Frankfort and Fulton streets.	23	54
Gold street.....	John street and Maiden Lane.	6	10
Gouverneur street.....	Water and Cherry streets....	7	18
Gouverneur street.....	Monroe st. and East Broadway	16	22
Grand street.....	Broadway and Wooster sts....	7	18
Great Jones street.....	Broadway and Bowery.....	4	16
Greene street.....	Canal and Fourth streets.....	49	61
Greenwich avenue.....	Christopher to Hammond st..	55	121
Greenwich street.....	Battery place to Cortlandt st.	146	374
Greenwich street.....	Barclay to Murray street....	19	32
Hamilton street.....	Catharine to Market street....	28	30
Harrison street.....	Greenwich to Hudson street..	19	34
Hammond street.....	West to Fourth street.....	127	35
Henry street.....	Oliver to Clinton street.....	13	31
Henry street.....	Montgomery to Grand street..	143	282
Hester street.....	Bowery to Chrystie street....	3	6
Hester street.....	Allen to Ludlow street.....	2	4
Houston street.....	East River and Lewis street..	8	37
Houston street.....	Avenue D and Macdougall st.	145	257
Houston street.....	Congress and West streets....	9	23
Hubert street.....	Washington and West streets..	8	16
Irving place.....	Fourteenth to Twentieth st..	48	90
Jackson street.....	South to Grand street.....	30	74
James street.....	Cherry st. and New Bowery..	24	59
Jay street.....	West to Greenwich street....	14	31
Jefferson street.....	South to Water street.....	5	12
John street.....	Cliff street to Broadway.....	93	202
King street.....	West to Macdougall street....	58	163
Laight street.....	Varick to Washington street..	27	61
Laurens street.....	Bleecker and Canal streets....	35	88
Leonard street.....	Hudson st. to West Broadway	15	23
Leonard street.....	Broadway to Baxter street..	15	38
Lewis street.....	Grand to Eighth street.....	46	171
Liberty street.....	Gold to West street.....	83	211
Ludlow street.....	Canal to Rivington street....	43	56
Macdougall street.....	Spring and Vandam streets....	3	15
Macdougall street.....	Charlton and Bleecker streets	5	23
Macdougall street.....	Fourth st. and Waverley place	25	12
Madison street.....	Pearl to Clinton street.....	180	200
Madison street.....	Montgomery to Grand street..	44	51
Maiden lane.....	Broadway to South street....	141	376
Mangin street.....	Grand and Delancey streets..	28	34
Market street.....	Cherry and Division street....	10	29
Marketfield street.....	Whitehall to Broad street...	9	26
Marion street.....	Broome and Prince street....	35	68
Morris street.....	Greenwich and West street....	4	13
Monroe street.....	Catharine and Jefferson sts...	46	58

STREET.	BETWEEN.	LOADS OF STONE.	LOADS OF SAND.
Monroe street.....	Gouverneur and Grand streets	33	99
Montgomery street.....	Cherry and Water streets....	5	14
Montgomery street.....	Henry st. and East Broadway	5	12
Murray street.....	Greenwich street & Broadway	22	45
Mercer street.....	Houston and Broome streets..	4	50
Mulberry street.....	Bayard and Chatham streets..	4	16
Mott street.....	Bayard and Hester streets...	28	76
Mott street.....	Grand and Houston streets....	34	98
Nassau street.....	Spruce and Liberty streets....	16	56
Nassau street.....	Cedar and Pine streets.....	12	32
New street.....	Beaver and Wall streets.....	6	40
Norfolk street.....	Houston and Grand streets....	16	34
North Moore street.....	West and Hudson streets....	55	80
Oak street.....	Catharine and James streets..	15	39
Oliver street.....	Madison st. and New Bowery..	15	41
Orchard street.....	Canal and Division streets....	8	16
Orchard street.....	Delancey and Rivington sts...	8	15
Park place.....	Church street and Broadway..	81	59
Pearl street.....	Broadway and Rose street....	35	102
Perry street.....	State street to Peck slip.....	200	296
Pike street.....	Hudson and Fourth streets....	47	42
Pine street.....	Cherry and Division streets..	91	77
Platt street.....	South and William streets....	12	46
Prince street.....	Pearl and William streets....	28	42
Prince street.....	Bowery and Thompson streets	28	90
Rector street.....	Sullivan and Macdougall sts...	11	29
Renwick street.....	West street to Broadway....	37	76
Ridge street.....	Spring and Canal streets....	6	14
Rivington street.....	Division and Grand streets....	9	9
Rose street.....	Rivington and Houston streets	6	23
Roosevelt street.....	Bowery and Goerck streets....	55	60
Sheriff street.....	Pearl st. and Frankfort street.	2	19
South street.....	South and Chatham streets....	44	131
South street.....	Rivington and Houston streets	1	11
Spring street.....	Whitehall street to Peck slip..	341	493
Spring street.....	James and Montgomery sts...	147	261
Spring street.....	West and Sullivan streets....	62	139
Spring street.....	Greene street and Broadway..	4	14
Spring street.....	Crosby to Marion street....	10	42
Stanton street.....	Mott street to Bowery.....	7	24
Stanton street.....	Tompkins and Ridge streets...	37	71
Stanton street.....	Norfolk to Ludlow street....	18	35
Stone street.....	Allen street and Bowery....	17	64
Suffolk street.....	Whitehall st. and Hanover sq.	30	62
Sullivan street.....	Houston and Broome streets....	22	47
Sullivan street.....	Canal and Prince streets....	58	86
Sullivan street.....	Amity and Bleecker streets...	16	20

STREET.	BETWEEN.	LOADS OF STONE.	LOADS OF SAND.
Thames street.....	Greenwich st. and Broadway	13	21
Thompson street.....	Canal and Fourth streets...	62	114
Tompkins street.....	Grand and Delancey streets...	4	14
Tompkins street.....	Rivington and Stanton streets	3	11
Trinity place.....	Liberty and Rector streets...	31	36
Vandam street.....	Greenwich and Varick streets	5	14
Vesey street.....	West street and Broadway...	14	31
Vestry street.....	Canal and Hudson streets...	5	13
Varick street.....	Franklin and Canal streets...	37	88
Varick street.....	Downing and King streets...	2	88
University place.....	Waverley pl. & Fourteenth st.	60	119
Warren street.....	Broadway and West street...	83	123
Washington street.....	Morris to Robinson street...	116	291
Washington street.....	Reade to Laight street.....	113	207
Water street.....	Whitehall to Wall street.....	61	119
Water street.....	Fulton to Rutgers street....	264	458
Water street.....	Jefferson and Clinton streets.	14	42
Water street.....	Gouverneur to Jackson street	5	8
Watts street.....	Hudson and Sullivan streets..	11	42
Waverley place.....	Macdougall st. and Sixth av..	9	24
Waverley place.....	Charles and Christopher sts..	3	11
West street.....	Battery place to Leroy street	463	1,387
William street.....	Broad to Chatham street....	86	249
Wooster street.....	Canal st. to Washington place	93	179
Worth street.....	Broadway and Baxter street.	17	42

REPAIRS TO CROSSWALKS.

DATE.	LOCALITY.	LOADS COBBLE STONE.	LOADS SAND.
1860.			
April 16 to 28.....	Corner of Bowery and Grand street.	4	2
	Opposite Dry Dock Savings Bank...	10	6
	Corner of South and Jefferson sts..	8	12
	" Old slip and Wooster st..	4	20
	" West and Harrison streets.	4	6
	" Fulton and Broadway...	2	4
	" Park Row and Broadway.	4	3
	" Front and Broad streets..	6	6
	" Front and Coenties slip...	2	8
	Opposite 89 Division street.....	6	4
	Corner Fulton and Front streets...	10	8
	" Beekman and Front sts...	8	18
April 30 to May 12	" Macdougall and Waverly pl.	6	6
	" 10th st. and University pl.	8	8
	" 11th st. and University pl.	8	10
	" Old Slip and Front street.	12	20
	Opposite 272 South street.....	8	12
	" 175 Tenth street.....	4	6
	" 154 West street.....	6	10
	Corner of Wooster st. and Wash. pl.	4	6
	" Broadway and Wash. pl..	2	4
	" Eighth av. and Fourth st.	4	6
	" Eighth av. and Jane street.	4	6
	" Eighth av. and Bleecker st.	6	8
May 14 to 26.....	" Perry and Washington sts.	5	8
	" Leroy and Washington sts.	4	6
	" Barrow and Washing'n sts.	6	8
	" Hammond & Washing'n sts.	4	10
	" Morton and Washing'n sts.	3	6
	" Bedford & Commerce sts.	6	8
	" Bedford and Grove streets.	5	6
	" Bedford and Carmine sts..	12	20
	" Bedford and Downing sts.	6	8
	" Eighth av. and Troy street.	4	6
	" Fourth st. and Broadway.		4
	" Gt. Jones st. & Lafay'e pl.		10
May 28 to June 9.	" Madison and James sts..	6	8
	" Greenwich & Robinson sts.	5	7
	" Jay and West streets....	6	10
	" Mulberry and Chatham sts.	4	6
	" William and Duane streets.	3	7
	" Washington & Harris'n sts.	5	8
	" Avenue A & Third street.	10	20

DATE.	LOCALITY.	LOADS COBBLE STONE.	LOADS SAND.
1860.			
May 28 to June 9.	Corner of Avenue A and Fourth st..	11	20
	" Avenue A and Fifth street	8	12
	" Avenue A and Sixth st. . .	10	20
	" Avenue A and Seventh st.	10	15
	" Avenue A and Eighth st.	8	12
July 9 to 21.....	" Gansevoort and 13th st. . .	10	8
	" Twenty-fourth st. & Bd'y.		10
	" Twenty-fourth st. & Bd'y.		10
	" Twenty-fourth st. & Bd'y.		10
	" Twenty-fourth st. & Bd'y.		10
	" Jane and Washington sts.	5	8
	" Hammond & Washin'n sts.	6	10
	" Perry and Washington sts.	5	8
	" Bank and Washington sts.	6	10
	" Morton and Greenwich sts.	4	8
	" Troy and Greenwich sts. .	6	10
July 23 to Aug. 4.	" Jane and Greenwich sts.	4	11
	" Horatio & Greenwich sts.	5	8
	" Varick and N. Moore sts.	10	20
	" Ninth avenue & avenue A.	12	15
	Madison avenue, from 23d to 42d sts		
August 6 to 18....	Corner of Fourth and W. Twelfth sts	2	6
	" Fourth and Hammond sts.	3	8
	" Centre and Pearl streets..	8	10
	" Centre and Worth streets	6	10
	" Centre and Leonard sts. .	5	8
	" Centre and Franklin sts. .	6	10
	" Centre and White streets.	6	12
	" Centre and Walker sts. . .	5	10
	" Centre and Canal streets.	3	6
	" Centre and Hester streets.	5	8
	" Centre and Howard sts. . .	8	10
	" Centre and Grand streets.	3	10
Aug. 20 to Sept 1..	" Avenue A and 11th street.	4	6
	" Avenue A and 12th street.	5	4
	" Avenue A and 13th street.	8	3
	" Broome and Lewis streets.	2	6
	" Broome and Greene sts. . .	5	8
	" Broome and Mercer sts. . .	5	10
	" Rivington & Chrystie sts.	4	6
	" Varick and Grand streets.	3	5
	" Varick and Watts streets.	4	5
	" Duane and West streets. .	8	6
	" Rivington and Suffolk sts.	8	10

DATE.	LOCALITY.	LOADS COBBLE STONE.	LOADS SAND.
1860.			
Aug. 20 to Sept. 1.	Corner of Rivington and Norfolk sts.	8	10
September 3 to 15.	" Avenue B and Second st.	6	8
	" Avenue B and Third st. .	8	10
	" Avenue B and Fourth st.	4	6
	" Avenue B and Fifthst. . . .	6	11
	" Avenue B and Sixthst. . . .	8	12
	" Avenue B and Seventh st.	7	11
	" Avenue B and Eighth st. .	5	8
	" Avenue B and Ninth st. . .	7	10
	" Avenue B and 14th street.	4	6
	" North Moore and West sts.	6	10
	" Nineteenth st. & Broad'y.	8	15
	" Twenty-fourth st. & Bd'y.		8
September 17 to 29	" Church and Duane streets.	6	10
	" Hester and Eldridge sts. .	3	6

SCHEDULE No. 29.

WELLS COVERED DURING THE YEAR 1860.

Southwest corner of Houston and Elizabeth streets.
 Eighty-fifth street, south side, 50 feet west of Third avenue.
 West side Second avenue, 50 feet south of First street.
 Northwest corner of Varick and Vandam streets.
 Northwest corner of Suffolk and Stanton streets.
 North side Sixteenth street, 50 feet east of Fourth avenue.
 Northwest corner of Pitt and Broome streets.
 Southeast corner of Grand and Ludlow streets.
 Southeast corner of Broome and Ludlow streets.
 Northwest corner of Spring and Elizabeth streets.
 No. 103 Forty-ninth street.
 Southeast corner of East Broadway and Gouverneur street.
 Southeast corner of Catharine and Henry streets.
 No. 11 Jones street.
 Northeast corner of Amity and Macdougall streets.
 Northeast corner of Bayard street and Bowery.
 Southeast corner of Houston and Willett streets.
 Southeast corner of Houston and Sheriff streets.
 Southeast corner of Monroe and Clinton streets.
 Southeast corner of Mulberry and Grand streets.
 Third street, near avenue C.
 Southwest corner of Seventeenth street and Eighth avenue.
 Northeast corner of Twenty-eighth street and Third avenue.
 Northwest corner of Twelfth street and Fourth avenue.

Northwest corner of Eighth street and Fourth avenue.
 Northwest corner of Willett and Rivington streets.
 Northwest corner of Cannon and Grand streets.
 Clinton street, near Delancey.
 Northwest corner of Howard and Crosby streets.
 Northeast corner of Greene and Grand streets.
 Northeast corner of Houston street and Bowery.
 Northwest corner of Bleecker street and Bowery.
 Sheriff street, near Houston.
 Northwest corner of Astor place and Broadway.
 Northeast corner of East Tenth street and Fourth avenue.
 Opposite 236 West Thirteenth street.
 Northeast corner of Nineteenth street and Third avenue.
 Northwest corner of Thirty-second street and Eighth avenue.
 Opposite 50 Monroe street.
 Northeast corner of East Broadway and Market street.
 Opposite 96 East Broadway.
 Northwest corner of First street and First avenue.
 Southwest corner of Forty-fourth street and Ninth avenue.
 Opposite 92 First street.
 Northwest corner of Norfolk and Hester streets.
 No. 12 Hamilton street.
 Northwest corner of Jackson and Front streets.
 Northeast corner of Twenty-ninth street and Fourth avenue.
 Northeast corner of Twentieth street and Third avenue.
 Northeast corner of Seventeenth street and Third avenue.
 Opposite 24 Fourth avenue.

Southeast corner of Greenwich avenue and Hammond street.

Northeast corner of Chrystie and Grand streets.

Northwest corner of Mercer and Broome streets.

Opposite 123 East Twenty-sixth street.