

ANNUAL REPORT  
OF THE  
WATER DEPARTMENT,  
FOR THE YEAR 1900.

[DOCUMENT 41 — 1901.]



OFFICE OF THE WATER COMMISSIONER,  
CITY HALL, BOSTON, February 1, 1901.

HON. THOMAS N. HART,

*Mayor of Boston:*

DEAR SIR, — I submit herewith the sixth annual report of the Water Commissioner for the year ending January 31, 1901.

The total receipts from all sources during the year were \$2,560,027.03; less refunded water rates, \$920; making the net receipts \$2,559,107.03. The total current expenditures from revenue, including interest on funded debt, sinking-fund requirements, and the Metropolitan water assessment, were \$2,426,824.09; leaving a balance which was transferred to the general revenue of the City of \$133,202.94.

The total amount expended for extension of mains, etc., during the year was \$411,075.91; of which amount the sum of \$24,087.67 was paid from the balance of loan brought over from the previous year, and the remainder, \$386,988.24, was paid from revenue.

The construction account, as shown on the books February 1, 1901, was \$23,054,387.81, having been increased during the year to the amount of \$364,604.06. There is still due from the State, under the terms of the settlement of the claim for the taking of the water supply system by the Metropolitan Water Board, the sum of \$7,531,000, which, if paid, would reduce the construction account to \$15,523,387.81.

The net debt on February 1, 1901, was \$1,815,626.90, being a decrease of \$5,620,423.18, a large amount of the debt having been cancelled with payments made by the State on account of the taking by the Metropolitan Water Board.

The outstanding water loans February 1, 1900, were \$17,306,273.98, and on February 1, 1901, \$11,960,273.98, being a decrease for the year of \$5,346,000.

The Metropolitan water assessment for the year was \$578,696.96, as against \$411,861.54 for the previous year.

At present there is no charge for water made to the City Departments, which deprives this Department of an income of previous years amounting to about \$200,000 per annum.

The full financial statement will be found on pages 5 to 13.

Less main pipe was laid in 1900 than for several years previous. This is on account of the fact that fewer men have been employed, that the working day has been shortened to eight hours, and that about one-half of the whole work was done in the crowded streets of the City proper. There was also a decrease in the number of petitions for main pipe received, there being only 91 during the year ending January 31, 1901, as against 127 received during the previous year.

The relaying and replacing of the small mains by larger ones has decidedly improved the fire protection in different sections of the City.

The Bachelder Independent Valve Hydrant is now the standard of the Department, and is the only one manufactured.

The breaks in the 30-inch main in Tremont street, at the Hotel Touraine and opposite Hollis street, and also in the 48-inch main in Brookline, are described in some detail in the City Engineer's report.

The laying of Shirley Gut pipe is described in detail, with photographs, in the City Engineer's report.

The Smith Tapping Machine has been adopted for taking 2-inch, 3-inch, 4-inch and 6-inch branches from pipes of any size without shutting off water, and has proved to be of great value.

A list of contracts made and pending will be found on pages 14 to 19.

The custom of laying service pipes in new streets, constructed under the Act of 1891, Chapter 323, is proving year after year more expensive to the City, and, so far as the De-

partment can see, the work is of very little value, as it is impossible to determine the exact location required for future service, or the necessary size of the pipe. This matter has been referred to in previous reports, and I refer to it now in order to keep the matter before the authorities, hoping that the act may be modified or repealed. (See report for year ending January 31, 1898, page 2.)

Under authority given me by Your Honor, the ice plant belonging to the City was sold, and later a special appropriation of \$3,000 was made by the City Council for the furnishing of ice for the ice-water fountains during the past season.

During the past year the Department has experimented with a device for cooling water in drinking fountains without the use of ice. The experiment is as follows :

A perforated wrought-iron pipe is sunk into the ground to the depth of about 100 feet. The perforations in the pipe allow the water in the soil to circulate freely. Four lines of small cast-iron pipe, one inch in diameter, are passed inside of the 8-inch pipe, and this pipe is connected with the City mains and with a fountain, so that the water from the mains passes four times through the 8-inch pipe, and is cooled to nearly the natural temperature of the soil, which does not vary very much during the year at the depth of 100 feet. By this means the temperature of the City water is reduced about 20 degrees, or brought down to about 52 degrees.

The first fountain of this kind was established on Boston Common near the Frog pond, another on the M-street playground in South Boston, another in Sheridan square at the junction of Albany and Northampton streets, and another for horses in Post Office square.

Thus far this cooling device has given very good satisfaction, but it will be given a more thorough test before additional fountains are located, as the experiment has not yet been carried through an entire season.

Terms of settlement in the claim of the City of Boston against the Commonwealth of Massachusetts, on account of the taking by the Metropolitan Water Board of said City's water supply system, having been agreed upon by His Excellency the Governor on the part of the Commonwealth and His Honor the Mayor on the part of the City, the settlement was consummated on October 19, 1900, with the approval of the Committee on Claims and of the Mayor, as per authority granted under an order of the City Council approved February 8, 1896. The vote of the Committee on Claims approving the settlement was as follows :

IN COMMITTEE ON CLAIMS, October 19, 1900.

*Voted*, That the settlement made by the Water Commissioner and the Mayor of the claims of the City against the Commonwealth, or the Metropolitan Water Board, for damages incurred or compensation for property taken or acquired by said Commonwealth or Board under the act establishing said Metropolitan Water Board, for the sum of twelve million five hundred and thirty-one thousand (12,531,000) dollars be, and hereby is, approved, and as a part of said settlement that the City Solicitor be instructed and authorized to settle the suit of the City of Boston against the Commonwealth of Massachusetts for the taking of its water supply system for the sum of seven million five hundred and thirty-one thousand (7,531,000) dollars with interest on said sum after November 1, at the rate of three and one-half ( $3\frac{1}{2}$ ) per cent. per annum, and to execute the necessary papers to put such settlement into effect, said sum of seven million five hundred and thirty-one thousand (7,531,000) dollars being balance due on the above settlement from the Commonwealth after deducting the sum of five million (5,000,000) dollars which has been paid by the Metropolitan Water Board on account of said claims.

This settlement does not include a large amount of property still left in the hands of the City, which the Metropolitan Board should control, such as the Brookline reservoir, Fisher Hill reservoir, West Roxbury Pumping-station; the mains leading from Chestnut Hill reservoir, Fisher Hill reservoir, and Brookline reservoir through Brookline to the City; and the main supply-pipes in Somerville. Most of this property will eventually be used in common, and should be under one control, especially Fisher Hill reservoir, which, although entirely used for the supply of Boston, should be operated from the pumping-station at Chestnut Hill. At present there is a very uncertain state of things, as there is a divided responsibility, and in case of accident it is almost impossible to decide whether the State or the City is responsible. These are questions which will have to be considered and settled definitely in some way, or it may cause a serious and complicated condition of affairs.

Reports in detail of work performed in the Income Division, the Distribution Division, and the Engineer's Department, will be found herewith annexed.

Respectfully,

AUGUSTUS P. MARTIN,

*Water Commissioner.*

The receipts and disbursements of the Department for the year were as follows :

Total receipts of the Water Works, from all sources, for the year ending January 31, 1901 :

Sales of water . . . . .	\$2,199,774 48	
Shutting off and letting on water, and fees, Elevator, fire and service pipes, sale of old materials, etc. . . . .	5,468 92	
City's proportion of entrance fees of outside cities and towns into Metropolitan water system . . . . .	102,662 43	
Interest on Water Works fund . . . . .	1,896 75	
Use of West Roxbury pumping-station by Metropolitan Water Board . . . . .	251,000 00	
	920 00	
<b>Total receipts . . . . .</b>	<b>\$2,561,722 58</b>	
Less refunded water rates . . . . .	1,695 55	
<b>Net receipts . . . . .</b>	<b>\$2,560,027 03</b>	

Total expenditures of the Water Works, from revenue, for the year ending January 31, 1901 :

Current expenses . . . . .	\$447,716 68	
<sup>1</sup> Extension of mains, etc. . . . .	386,988 24	
Interest on funded debt . . . . .	805,924 26	
Sinking-fund requirement, 1899-1900 . . . . .	206,489 00	
Metropolitan water assessment . . . . .	578,696 96	
Refunded to State . . . . .	1,008 95	
Balance to general revenue account of city, . . . . .	133,202 94	
		<b>\$2,560,027 03</b>

COST OF CONSTRUCTION AND CONDITION OF THE WATER DEBT.

<sup>1</sup> Cost of construction of Water Works to February 1, 1900 . . . . .	\$22,689,783 75
<sup>2</sup> Cost of construction of Water Works to February 1, 1901 . . . . .	23,054,387 81
Increase during the year . . . . .	<u>\$364,604 06</u>
Stock on hand February 1, 1900 . . . . .	\$134,323 44
Stock on hand February 1, 1901 . . . . .	148,815 92
Increase during the year . . . . .	<u>\$14,492 48</u>
The outstanding Water Loans February 1, 1900, were . . . . .	\$17,306,273 98
The outstanding Water Loans February 1, 1901, were . . . . .	11,960,273 98
Decrease during the year . . . . .	<u>\$5,346,000 00</u>

<sup>1</sup>The total amount expended for Extension of Mains, etc., for the year was \$411,075.91; \$24,087.67 being paid from the balance of appropriation from loan brought over from previous year.

<sup>2</sup>There is still due from the State under the terms of settlement of the claim for the taking of the City's water supply system by the Metropolitan Water Board the sum of \$7,531,000. When paid the construction account will be reduced that amount. Deducted at this date, February 1, 1901, the construction account would stand at \$15,523,387.81.

The Water Sinking-Fund February 1, 1900, was	\$9,870,223 90
The Water Sinking-Fund February 1, 1901, was	10,144,647 08
Increase during the year	\$274,423 18
Net Water Debt February 1, 1900	\$7,436,050 08
Net Water Debt February 1, 1901	1,815,626 90
Decrease during the year	\$5,620,423 18

The outstanding Water Loans on this date, February 1, 1901, are as follows:

Loans.	Date of Maturity.	Amount.
5 per cent. Sterling Loan	Due Oct., 1902	\$1,947,273 98
(£399,500),		
Currency,	“ April, 1903	905,000 00
“	“ Jan., 1904	8,000 00
“	“ Jan., 1905	3,000 00
“	“ April, 1905	53,700 00
“	“ July, 1905	10,000 00
“	“ Oct., 1905	6,000 00
Gold Loan,	“ Oct., 1905	1,000,000 00
Currency,	“ Jan., 1906	82,550 00
“	“ April, 1906	8,750 00
Gold Loan,	“ April, 1906	552,000 00
“	“ Oct., 1906	2,000,000 00
Currency,	“ Oct., 1906	4,000 00
“	“ Jan., 1907	8,000 00
“	“ April, 1907	5,000 00
“	“ July, 1907	1,000 00
Currency Loan,	“ Oct., 1907	1,000 00
“	“ April, 1908	12,000 00
Loan,	“ July, 1909	82,000 00
“	“ Oct., 1909	268,000 00
“	“ April, 1910	280,000 00
“	“ April, 1912	324,000 00
“	“ Oct., 1913	56,000 00
“	“ Jan., 1914	459,000 00
“	“ April, 1914	18,500 00
“	“ Oct., 1914	16,000 00
“	“ April, 1915	45,700 00
“	“ Oct., 1915	23,000 00
“	“ Jan., 1916	8,000 00
“	“ April, 1916	28,500 00
“	“ Oct., 1916	11,300 00
“	“ Jan., 1917	21,000 00
3½	“ April, 1917	275,000 00
4	“ April, 1917	8,000 00
4	“ July, 1917	7,000 00
4	“ Oct., 1917	160,700 00
4	“ Jan., 1918	20,000 00
4	“ April, 1918	6,300 00
3½	“ July, 1918	100,000 00
4	“ Oct., 1918	100,000 00
4	“ April, 1919	200,000 00
3½	“ Oct., 1919	145,000 00
4	“ Oct., 1919	300,000 00
3½	“ Nov., 1919	130,000 00

Carried forward,

\$9,698,273 98



Loans.		Date of	Amount.
<i>Brought forward,</i>		Maturity.	
			\$9,698,273 98
3½	per cent. Loan,	Due Jan., 1920 . . . . .	120,000 00
4	" " "	" Oct., 1920 . . . . .	384,000 00
4	" " "	" April, 1921 . . . . .	100,000 00
4	" " "	" Oct., 1921 . . . . .	162,500 00
4	" " "	" Jan., 1922 . . . . .	100,000 00
4	" " "	" April, 1922 . . . . .	75,000 00
4	" " "	" Oct., 1922 . . . . .	208,000 00
4	" " "	" Oct., 1923 . . . . .	26,275 00
4	" " "	" Oct., 1924 . . . . .	526,225 00
3½	" " "	" Oct., 1927 . . . . .	150,000 00
3½	" " "	" July, 1929 . . . . .	410,000 00
Total . . . . .			<u>\$11,960,273 98</u>

SUMMARY.

3½	per cent. Loans	. . . . .	\$1,330,000 00
4	" " "	. . . . .	3,755,000 00
4½	" " "	. . . . .	268,000 00
5	" " Currency Loans	. . . . .	13,000 00
5	" " Gold "	. . . . .	3,552,000 00
5	" " Sterling "	. . . . .	1,947,273 98
6	" " Loans	. . . . .	1,095,000 00
Total . . . . .			<u>\$11,960,273 98</u>

**Cochituate Water Sinking-Fund Receipts.**

[SINCE THE ESTABLISHMENT OF THE BOARD OF SINKING-FUND COMMISSIONERS IN 1871.]

YEAR.	From Tax Levy or City Income.	Interest on Investments.	Interest on Bank Deposits.	Water Rates, etc.	Premiums on Loans.	Other Sources.	Totals.
1871. April 30, received from Committee on Reduction of Debt...	\$1,100,000 00						\$1,100,000 00
1871-72.....	14,325 00 Taxes, 9,375 00	\$61,000 00	\$349 67				85,049 67
1872-73.....	9,000 00	70,137 50	1,017 80				80,155 30
1873-74.....	30,000 00	76,799 60	2,072 65				108,962 25
1874-75.....	75,973 28	82,842 25	2,121 13				160,936 66
1875-76.....	65,554 00	85,470 00	3,617 55			\$386 00	155,027 55
1876-77.....	234,814 00	86,245 66	4,119 47	\$26,480 18		915 46	352,574 77
1877-78.....	Taxes, 214,500 00	85,830 85	10,809 31	27,009 92			338,240 08
1878-79.....	Taxes, 207,456 00	93,264 49	6,181 26	177,195 91		9,874 21	493,971 87
1879-80.....		90,472 42	5,687 62	214,707 24		4,411 64	315,278 92
1880-81.....		86,460 00	167 32	195,668 90		1,702 04	284,058 26
1881-82.....		96,546 35	2,767 90	193,840 36		494 08	293,648 69
1882-83.....		105,129 51	8,486 33	219,581 72		1,241 04	331,438 60
1883-84.....	Taxes, 973 00	138,120 90	2,268 22				141,362 12

WATER DEPARTMENT.

1884-85	143,049 45	7,510 40	200,258 39	359,818 24
1885-86	156,694 01	5,804 31	120,129 12	283,069 71
1886-87	181,204 89	2,644 70	297,928 95	562,415 66
1887-88	199,883 90	4,178 16	221,620 11	425,682 17
1888-89	213,048 22	8,958 69	256,013 57	489,572 98
1889-90	228,000 83	11,730 60	300,903 00	576,726 93
1890-91	229,509 17	29,763 94	242,675 22	538,478 33
1891-92	175,808 33	22,560 16	275,014 05	552,247 54
1892-93	260,506 20	30,148 34	240,435 00	547,503 04
1893-94	298,224 44	18,133 03	299,467 27	630,446 49
1894-95	312,332 05	18,524 22	297,518 29	638,268 68
1895-96	378,819 55	5,892 29	205,791 00	655,192 84
1896-97	403,840 02	5,225 08	194,740 00	604,421 60
1897-98	421,928 45	8,337 21	193,395 00	648,372 02
1898-99	417,142 02	5,806 85	193,395 00	624,359 87
1899-1900	383,662 97	7,632 45	209,824 00	633,104 02
1900-1901	397,985 35	15,948 83	206,489 00	620,423 18
	\$2,037,556 28	\$258,465 49	\$5,016,171 20	\$13,630,808 04
			\$218,569 45	\$140,026 24

**Cochituate Water Debt, Gross and Net,  
At the Close of Each Fiscal Year.**

Fiscal Year.	Gross Debt.	Sinking-Funds.	Net Debt.
1847-48 .....	<sup>1</sup> \$2,129,056 32	.....	\$2,129,056 32
1848-49 .....	3,787,328 98	.....	3,787,328 98
1849-50 .....	4,463,205 56	.....	4,463,205 56
1850-51 .....	4,955,613 51	.....	4,955,613 51
1851-52 .....	5,209,223 26	.....	5,209,223 26
1852-53 .....	5,972,976 11	.....	5,972,976 11
1853-54 .....	5,432,261 11	.....	5,432,261 11
1854-55 .....	5,403,961 11	.....	5,403,961 11
1855-56 .....	5,230,961 11	.....	5,230,961 11
1856-57 .....	5,031,961 11	.....	5,031,961 11
1857-58 .....	4,724,961 11	.....	4,724,961 11
1858-59 .....	4,754,461 11	.....	4,754,461 11
1859-60 .....	3,846,211 11	.....	3,846,211 11
1860-61 .....	3,455,211 11	.....	3,455,211 11
1861-62 .....	3,012,711 11	.....	3,012,711 11
1862-63 .....	2,992,711 11	.....	2,992,711 11
1863-64 .....	2,992,711 11	.....	2,992,711 11
1864-65 .....	2,942,711 11	.....	2,942,711 11
1865-66 .....	3,152,711 11	.....	3,152,711 11
1866-67 .....	3,370,711 11	.....	3,370,711 11
1867-68 .....	3,867,711 11	.....	3,867,711 11
1868-69 .....	5,107,711 11	.....	5,107,711 11
1869-70 .....	5,731,711 11	.....	5,731,711 11
1870-71 .....	6,482,711 11	\$1,100,000 00	5,382,711 11
1871-72 .....	6,812,711 11	1,185,049 67	5,627,661 44
1872-73 .....	6,912,711 11	1,268,234 97	5,644,476 14
1873-74 .....	7,863,711 11	1,372,953 62	6,490,757 49
1874-75 .....	8,123,711 11	1,533,890 28	6,589,820 83
1875-76 .....	9,735,711 11	1,560,917 83	8,174,793 28
1876-77 .....	11,548,711 11	1,709,492 60	9,839,218 51
1877-78 .....	11,545,273 98	2,043,764 73	9,501,509 25
1878-79 .....	11,753,273 98	2,143,847 85	9,609,426 13
1879-80 .....	11,697,273 98	1,771,692 92	9,925,581 06
1880-81 .....	11,631,273 98	1,989,300 88	9,641,973 10
1881-82 .....	11,631,273 98	2,281,857 89	9,349,416 09
1882-83 .....	11,955,273 98	2,607,768 46	9,347,505 52
1883-84 .....	12,882,273 98	2,746,505 58	10,135,768 40
1884-85 .....	13,045,473 98	3,106,323 82	9,939,150 16
1885-86 .....	13,491,473 98	3,385,201 26	10,106,272 72
1886-87 .....	14,142,273 98	3,947,616 92	10,194,657 06
1887-88 .....	14,741,273 98	4,373,304 09	10,367,969 89
1888-89 .....	14,941,273 98	4,864,092 54	10,077,181 44
1889-90 .....	15,696,273 98	5,440,819 47	10,255,454 51
1890-91 .....	16,267,773 98	5,979,297 80	10,288,476 18
1891-92 .....	16,423,773 98	6,471,545 34	9,952,228 64
1892-93 .....	16,758,773 98	7,019,058 38	9,739,715 60
1893-94 .....	17,055,273 98	7,649,504 87	9,405,769 11
1894-95 .....	17,761,273 98	8,444,773 55	9,316,500 43
1895-96 .....	18,261,273 98	9,099,966 39	9,161,307 59
1896-97 .....	18,261,273 98	9,704,387 99	8,556,885 99
1897-98 .....	17,911,273 98	9,852,760 01	8,058,513 97
1898-99 .....	17,121,273 98	9,487,119 88	7,634,154 10
1899-1900 .....	17,306,273 98	9,870,223 90	7,436,050 08
1900-1901 .....	11,960,273 98	10,144,647 08	1,815,626 90

<sup>1</sup> No account taken of amounts borrowed temporarily from 1846 to 1852 and afterwards funded by the issue of the water bonds that figure in this statement.

DETAILED EXPENDITURES UNDER THE APPROPRIATIONS.

FEBRUARY DRAFT, 1900, TO FEBRUARY DRAFT, 1901.

*Current Expenses (from Revenue).*

Salaries and wages :		
Commissioner . . . . .	\$5,042 33	
Assistant Commissioners . . . . .	5,664 37	
Secretary . . . . .	3,000 00	
Employees . . . . .	392,983 24	
		\$406,689 94
Water pipes and castings . . . . .		49,020 74
Tools, machinery, iron, steel and other materials for repairs and furnishing . . . . .		14,579 03
Horses, purchase of . . . . .	\$1,025 00	
Feed . . . . .	5,254 67	
Wagons, etc., and repairs of same . . . . .	3,061 67	
Shoing, veterinary services, etc . . . . .	2,521 26	
Harnesses, etc., and repairs of same . . . . .	1,078 99	
		12,941 59
Repairs of buildings, streets and other structures,		12,419 46
Lead and lead pipe . . . . .		9,626 46
Damages . . . . .		5,626 67
Teaming and freights . . . . .		4,949 26
Printing . . . . .		4,488 44
Travelling expenses and transportation of em- ployees . . . . .		4,024 52
Professional and expert services . . . . .		3,855 72
New meters . . . . .	\$1,407 00	
Repairs of meters, including extra parts . . . . .	1,717 70	
		3,124 70
Blasting and excavating pipe trenches . . . . .		2,877 97
Lumber . . . . .		2,729 62
Stationery, postage, etc. . . . .		2,106 72
Fuel . . . . .		2,077 38
Telephone service . . . . .		1,775 65
Gravel and crushed stone . . . . .		1,008 06
Salt . . . . .		848 55
Board of injured man . . . . .		782 17
Rents . . . . .		690 00
Bricks . . . . .		556 50
Gas . . . . .		452 69
Oils . . . . .		424 70
Cement and sand . . . . .		409 18
Taxes . . . . .		398 43
Rubber clothing . . . . .		317 94
<i>Carried forward</i> . . . . .		\$548,802 09

<i>Brought forward</i>		\$548,802 09
Advertising		304 32
Salt hay		200 26
Report on property taken by the State		166 66
Furniture		152 10
Land damages		143 50
Ice and small items		106 29
Insurance on boilers		100 00
Premium on bonds of employees		52 50
Drain pipe		42 75
Insulating water-pipes		37 50
Recording papers		30 89
		<hr/>
		\$550,138 86
Less amount transferred to Extension of Mains, etc.		102,422 18
		<hr/>
Total current expenses		\$447,716 68

The following amounts were also expended from revenue :

Refunded water rates	\$1,695 55	
Sinking fund payment	206,489 00	
Interest on loans	805,924 26	
Metropolitan water assessment	578,696 96	
Refunded to State, overpay- ment in 1899	1,008 95	
<sup>1</sup> Extension of mains, etc.	386,988 24	
	<hr/>	1,980,802 96
		<hr/>
		\$2,428,519 64

### <sup>2</sup>EXTENSION OF MAINS, ETC.

Salaries and wages of employees	\$149,772 40
Water pipes and castings	108,354 17
Lead and lead pipe	14,899 31
Tools, machinery, iron, steel, and other material,	9,111 92
Blasting and excavating pipe trenches	5,388 67
Teaming and freights	4,612 98
Lumber	4,592 47
Gravel and crushed stone	2,204 76
Travelling expenses and transportation of employees	2,092 50
	<hr/>
<i>Carried forward</i>	\$301,029 18

<sup>1</sup> See foot note 1, page 5.

<sup>2</sup> The expenditures for Extension of Mains, etc., were made from the balance of appropriation from loan brought over from last year.....  
And from amount appropriated from revenue.....

\$24,087 67  
386,988 24

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\$411,075 91

<i>Brought forward</i>	\$301,029 18
Repairs . . . . .	1,997 35
Stable account . . . . .	1 374 12
Laying water-pipes at Shirley Gut . . . . .	1,246 50
Sinking pipes for drinking fountains . . . . .	1,157 72
Fuel . . . . .	474 96
Rubber clothing . . . . .	405 12
Oils . . . . .	383 96
Bricks . . . . .	172 65
Cement and sand . . . . .	171 70
Salt hay . . . . .	163 17
Rent of land at Point Shirley . . . . .	50 00
Drain pipe . . . . .	27 00
Telephone service . . . . .	30
	<hr/>
Transferred from current expenses . . . . .	\$308,653 73
	102,422 18
	<hr/>
	<u>\$411,075 91</u>

Under the supplemental appropriation order of the City Council for the financial year 1900-1901, approved by the Mayor, July 31, 1900, the sum of \$3,000 was appropriated from the general tax to be expended by the Water Department for ice for drinking fountains. From this appropriation there was expended for the purpose specified the sum of \$2,650.

Contracts Made and Pending during Year Commencing February 1, 1900, and ending January 31, 1901.  
*Contracts marked thus (\*) are completed.*

DATE.	CONTRACTORS.	WORK.	AMOUNT.	PAID ON CONTRACT.		
				Previous Year.	Year 1900-1901. Total.	
1899.						
* Jan. 25,	{ Warren Foundry and Machine Company, Phillipsburg, N. J.....	{ 550 tons 30-inch pipe..... 125 " 24-inch "..... 975 " 16-inch "..... 2,300 " 12-inch "..... 50 " 10-inch "..... 875 " 8-inch "..... 500 " 6-inch "..... 20 " 4-inch "..... 5,895 " pipe..... 105 " special castings.....	{ @ \$16.70 per ton, 2,000 lbs., } estimated total of contract, \$33,561.50	\$79,498 00	\$11,180 79	\$90,678 79
* Mar. 14,	{ Sessions Foundry Com- pany, Bristol, Conn.,	{ Iron castings for year ending March 15, 1900.....	{ 1,125,000 lbs. No. 1 @ 1 <sup>10</sup> / <sub>100</sub> cents per lb., } estimated total of contract, \$24,637.50	19,996 64	7,289 53	27,286 17
* " 20,	Owen Nawn & Co.....	{ Teaming water-pipes and materials for year ending March 15, 1900.....	{ 38 cents per ton, 2,240 lbs., short haul..... 85 cents per ton, 2,240 lbs., long haul.....	2,623 14	612 87	3,236 01
* " 31,	William Curley.....	{ Composition castings for year ending March 15, 1900.....	{ No. 1, 12,000 lbs., estimated, 19 <sup>1</sup> / <sub>2</sub> ¢. per lb., @ No. 2, 30,000 lbs., estimated, @ 17 <sup>1</sup> / <sub>2</sub> ¢. per lb., No. 3, 5,000 lbs., estimated, 15 <sup>1</sup> / <sub>2</sub> ¢. per lb., @	6,472 34	471 14	6,943 48



* Aug. 15,	Edw'd Kendall & Sons,	{ Furnishing and erecting 4 20-inch steel water-pipes for Tremont-street bridge at Castle street.....	@ \$650 each (extra work, \$100.15).....	2,700 15	2,700 15
* Nov. 28,	Thomas Burke.....	Blasting Everton street, Dorchester.....	@ \$3.25 per cubic yard.....	135 53	135 53
* Dec. 5,	James McDonald.....	" Harrishof street, Roxbury.....	@ \$2.75 " " " ".....	248 88	248 88
* " 12,	Daniel E. Lynch.....	" Commonwealth avenue, at Chiswick road, Brighton.....	@ \$4 " " " ".....	800 00	800 00
* " 20,	James McDonald.....	" Montbello road, West Roxbury..	@ \$2.20 " " " ".....	195 24	195 24
* " 22,	Jas. McLaughlin & Son,	" West Selden street, Dorchester..	@ \$3.25 " " " ".....	98 48	98 48
* " 23,	" " " "	" Maxwell street, " " " ".....	@ \$3.25 " " " ".....	78 65	78 65
1900.		200 tons 30-inch pipe, A.....			
		500 " 16-inch " A.....			
		700 " 12-inch " A.....			
		330 " 12-inch " B.....			
		150 " 10-inch " B.....			
		500 " 8-inch " B.....			
		600 " 6-inch " B.....			
		15 " 4-inch " B.....			
		2,965 " pipe.....			
		5 " special castings.....			
Feb. 2,	{ Warren Foundry and Machine Company, Phillipsburg, N. J.....	Composition castings.....	@ \$25.00 per ton, 2,000 lbs.....	79,059 53	79,059 53
* " 7,	J. H. McCafferty & Co..	Composition castings.....	@ 44.00 " " " ".....	4,687 61	4,687 61
			{ No. 1, 5,000 lbs., estimated, @ 20¢. per lb.,		
			{ No. 2, 14,000 lbs., estimated, @ 19¢. per lb.,		
			{ No. 3, 2,500 lbs., estimated, @ 15¢. per lb.,		
* " 8,	{ Session Foundry Company, Bristol, Conn..	Small iron castings.....	{ No. 1, @ 24 <sup>5</sup> / <sub>100</sub> cents per lb.....	13,658 51	13,658 51
* Mar. 2,	Thomas Burke.....	Blasting Darling street.....	{ No. 2, @ 1 <sup>5</sup> / <sub>100</sub> " " " ".....	167 67	167 67
* " 7,	" " " "	" High Rock way, Brighton.....	@ \$3.34 per cubic yard.....	259 00	259 00
* " 9,	Owen Nawn & Co.....	{ Teaming, water pipes and materials for year ending March 15, 1901.....	@ \$3.74 " " " ".....	1,708 88	1,708 88
			{ 38 cents per ton, 2,240 lbs., for short haul.....		
			{ 80 cents per ton, 2,240 lbs., for long haul.....		

Contracts Made and Pending during Year Commencing February 1, 1900, and ending January 31, 1901.—Continued.  
Contracts marked thus (\*) are completed.

DATE.	CONTRACTORS.	WORK.	AMOUNT.	PAID ON CONTRACT.		
				Previous Year.	Year 1900-1901.	Total.
1900.						
* Mar. 25,	John J. Kelley .....	Blasting West Selden street, Dorchester...	@ \$3.75 per cubic yard.....	.....	\$99 08	\$99 08
* May 9,	Coffin Valve Co.....	20 16-inch water gates.....	@ \$86.00 each.....	.....	1,720 00	1,720 00
* " 25,	J. H. Ferguson .....	Blasting Wales place, Dorchester.....	@ \$2.10 per cubic yard.....	.....	160 65	160 65
* " 31,	Daniel H. Sullivan.....	" Pequot street, Roxbury .....	@ \$3.21 " " .....	.....	37 88	37 88
* June 13,	Thomas Burke.....	" Harrishof and Harold streets, Roxbury.....	@ \$2.18 " " .....	.....	362 75	362 75
* " 15,	James Dolan.....	" Wallingford road, Brighton.....	@ \$2.50 " " .....	.....	53 75	53 75
* " 19,	Daniel E. Lynch.....	" Woodward Park street, Dorches-ter.....	@ \$4.00 " " .....	.....	153 60	153 60
* " 25,	James Dolan.....	" Union terrace, West Roxbury.....	@ \$3.25 " " .....	.....	38 35	38 35
* July 2,	John J. Kelley.....	" Echo street, Roxbury .....	@ \$2.75 " " .....	.....	82 50	82 50
* " 2,	" " .....	" Park View street, Roxbury .....	@ \$2.75 " " .....	.....	85 25	85 25
" 11,	Sessions Foundry Com-pany, Bristol, Conn..	{ Small iron castings, for 5 months to Janu-ary 31, 1901.....	{ No. 1 @ 2 <sup>35</sup> / <sub>100</sub> cents per lb. No. 2 @ 1 <sup>40</sup> / <sub>100</sub> " " .....	.....	8,421 78	8,421 78
* " 17,	William J. Lawler ...	{ Removing 54 lengths of 16-inch water pipe from Malden bridge, and delivering same at Albany-street yard.....	\$40.00.....	.....	40 00	40 00
* " 18,	James McDonald .....	{ Blasting Commonwealth ave., between Kin-ross and Chiswick roads, Brighton .....	@ \$2.25 per cubic yard.....	.....	89 10	89 10

WATER DEPARTMENT.

*Aug. 2,	C. H. French.....	Making 12-inch gate pattern and core boxes.	Estimated from \$150 to \$175.....	183 15	183 15
* "	Boston Ice Co.....	{Furnishing ice for drinking fountains in Charlestown, East Boston and City proper north of Massachusetts ave., 600 lbs. daily for 50 days, from Aug. 6 to Oct. 1, 1900, 18 fountains.....}	@ \$90 per fountain*.....	1,620 00	1,620 00
* "	Bay State Ice Co.....	{Furnishing ice for drinking-fountains in South Boston and Roxbury, 600 lbs. daily for 50 days, from Aug. 6, to Oct. 1, 1900, 11 fountains.....}	@ \$90 per fountain. (The sum of \$50 was deducted from bill of \$990.)*.....	940 00	940 40
* "	Union Ice Co.....	{Furnishing ice for drinking-fountain, Atlantic ave., at head of T wharf, 600 lbs. daily for 50 days, from Aug. 6 to Oct. 1, 1900.....}	@ \$90*.....	90 00	90 00
* "	{ United States Cast Iron Pipe and Foundry Co.	{200 tons 16-inch pipe, A..... 200 " 16-inch " B..... 350 " 12-inch " B..... 100 " 10-inch " B..... 100 " 8-inch " B.....}	@ \$20.90 per ton, 2,000 lbs.....	20,093 48	20,093 48
" 10,	J. H. McCafferty & Co..	Composition Castings.....	{No. 1, @ 21 $\frac{1}{2}$ cents per lb..... No. 2, @ 20 $\frac{3}{4}$ " " "..... No. 3, @ 16 " " ".....}	630 89	630 89
* "	James McDonald.....	{Blasting Commonwealth ave., near Strathmore road, Brighton.....}	@ \$2.60 per cubic yard.....	234 00	234 00
* "	{ Metropolitan Contracting Co.....	{Furnishing necessary tools and appliances, labor and materials for strengthening water-pipe location in Tremont st., from Boylston st. to Elliot st.....}	{Materials at cost, plus 15%..... Unskilled labor per day, 9 hrs., @ \$2..... Skilled bracers and carpenters per day, 9 hrs., @ \$3..... Brick masons per day, 8 hrs., @ \$5.50..... Foremen per day, 9 hrs., @ \$5.....}	718 04	718 04
*Aug. 31,	James A. King.....	Blasting Woolson street, Dorchester.....	@ \$3.75 per cubic yard.....	51 38	51 38
*Sept. 4,	Thomas Burke.....	" Woodcliff street, Dorchester.....	@ \$3.75 " ".....	57 38	57 38

\*Paid from special appropriation.

Contracts Made and Pending during Year Commencing February 1, 1900, and ending January 31, 1901.— *Concluded.*  
*Contracts marked thus (\*) are completed.*

DATE.	CONTRACTORS.	WORK.	AMOUNT.	PAID ON CONTRACT.		
				Previous Year.	Year 1900-1901.	Total.
1900.						
*Sept. 15,	{ Metropolitan Contracting Co.....	{ Strengthening water pipe location in Tremont street, from LaGrange to Elliot street.....	Foremen, per day, 9 hours, @ \$5.00 Skilled labor, per day, 9 hours, @ \$3.00..... Unskilled labor, per day, 9 hours, @ \$2.00..... Brick masons, per day, 8 hours, @ \$5.50..... Pavers, per day, 9 hours, @ \$4.00..... Double teams, per day, 9 hours, @ \$5.00..... Single teams, per day, 9 hours, @ \$3.00..... Materials to be furnished by the Water Department.....	\$1,407 45	\$1,407 45	\$1,407 45
* " 28,	James McDonald.....	Blasting Cummings road, Brighton.....	@ \$2.50 per cubic yard.....	295 55	295 55	245 55
*Oct. 6,	James Dolan.....	" Weld street, West Roxbury.....	@ \$2.75 " " ".....	82 23	82 23	82 23
* " 20,	{ Eastern Dredging Company.....	{ Excavate and maintain, by dredging, a trench across Shirley Gut, in which to lay water pipes, and backfill the same....	\$1,000.....	1,000 00	1,000 00	1,000 00
* " 27,	Thomas Burke.....	Blasting Harlem street, Dorchester.....	@ \$2.50 per cubic yard.....	293 25	293 25	233 25
Nov. 9,	Coffin Valve Co.....	30 16-inch Water Gates.....	@ \$86.00 each.....	1,634 00	1,634 00	1,634 00
*Dec. 13,	{ Warren Foundry and Machine Co.....	{ 7 tons 4-inch pipe, B.....	@ \$23.00 per ton, 2,000 pounds.....	160 97	160 97	160 97
* " 17,	John J. Kelley.....	Blasting Folsom street, Dorchester.....	@ \$2.99 per cubic yard.....	69 97	69 97	69 97

* " 26,	Thomas Burke .....	" Tuckerman street, South Boston...	@ \$2.98 " " .....	47 98	47 98
1901.	John J. Kelley .....	" Oswald street, Roxbury .....	@ \$3.19 " " .....	.....	.....
" 18,	J. H. McCafferty & Co....	{ Composition castings, from February 1 to August 1, 1901.....	{ No. 1, @ 21½ cents per lb. No. 2, @ 20½ " " " No. 3, @ 16 " " "	.....	.....
" 23,	Foxboro Foundry Co. . .	{ Small Iron castings, from February 1 to August 1, 1901.....	{ No. 1, @ 2 1/16 cents per lb. No. 2, @ 1 7/16 " " "	.....	.....

## APPENDIX A.

## REPORT OF INCOME DIVISION.

CITY HALL, BOSTON, February 1, 1901.

GEN. A. P. MARTIN,

*Water Commissioner :*

SIR, — Herewith please find annual report of the Income Division, Water Department. The report of the Meter Service covers the financial year ending January 31, 1901; the balance of the report is rendered for the calendar year ending December 31, 1900, it being impracticable, owing to the nature of the accounts, to render an entire report for the financial year.

Respectfully submitted,

J. H. CALDWELL,

*General Superintendent Income Division.*

Table 1.

*Statement of Water Rates—January 1, 1901.*

Account of year.	Amount assessed.	Amount abated.	Amount collected.	Balance outstanding.
1894.....	\$2,163,625 70	\$51,615 19	\$2,112,006 01	\$4 50
1895.....	2,266,519 08	55,409 78	2,211,008 55	100 75
1896.....	2,568,246 04	*95,128 09	2,473,083 65	34 30
1897.....	2,630,413 37	53,864 09	2,576,549 28	.....
1898.....	2,342,793 38	†235,316 53	2,107,298 95	177 90
1899.....	2,414,690 12	†257,368 44	2,156,147 62	1,174 06
1900.....	†2,195,181 72	23,687 85	1,917,502 50	253,991 37

Above amounts for years 1894, 1895, 1896, and 1897 include both Cochituate and Mystic supply accounts. The contracts to supply Chelsea, Somerville, and Everett with Mystic water were abrogated by the Metropolitan Water Act on January 1, 1898.

\*This amount includes certain City Department accounts, abated by order of the Mayor.

†These amounts include abatements of City Department accounts, under order of the City Council approved by the Mayor on March 5, 1900.

‡No City Department accounts in this amount, such charges having been abolished by an order of the City Council approved by the Mayor on March 5, 1900.

**Table II.***Number of classified Water Takers during 1900.*

	Number.
By annual rates.....	91,329
By meter rates.....	4,513
<b>Total.....</b>	<b>95,842</b>

**Table III.***Kind and Number of Fixtures in use January 31, 1901.*

	Number.
Bath-tubs.....	70,205
Bowls.....	105,839
Foot-tubs.....	316
Sinks.....	173,295
Taps.....	28,065
Urinals, automatic.....	5,063
"    otherwise.....	651
Wash-tubs.....	112,435
Water-closets.....	157,320
<b>Total fixtures.....</b>	<b>653,189</b>

Table IV.

*Water by Annual Rates.*

CLASSIFICATION.	Number.	Amounts Assessed.
Bakeries .....	284	\$3,850 92
Bath-houses .....	3	141 50
Building purposes.....	956	10,282 68
Cemeteries.....	6	49 08
Churches.....	242	2,886 34
Circus.....	2	115 79
Cisterns, filling.....	1	6 67
Clubs.....	208	2,986 83
Depots .....	50	1,269 34
Dispensaries.....	1	10 00
Dwelling houses.....	51,465	794,781 21
Fountains.....	7	68 00
Freight houses.....	18	162 67
Greenhouses.....	60	1,042 00
Gymnasiums.....	2	51 50
Halls.....	165	2,534 09
Hand hose.....	9,600	48,000 00
Hospitals and asylums .....	62	4,073 33
Hotels.....	1	33 00
Laboratories.....	4	104 00
Laundries .....	570	10,797 66
Libraries and Museums.....	2	33 00
Manufactories .....	16	362 12
Model houses.....	10,850	234,363 00
Motors.....	5	25 00
Offices.....	2,114	18,683 36
Photographers.....	45	950 92
Puddling trenches.....	34	569 97
Restaurants and lunch rooms.....	508	8,824 08
Saloons.....	541	20,814 22
Schools.....	57	1,115 75
Shops .....	3,204	28,292 28
Shipping.....	15	254 54
Stables .....	3,687	26,130 85
Steam engines.....	287	3,882 13
Stores.....	6,232	67,253 26
Street watering.....	23	894 32
Theatres.....	2	24 50
<b>Totals.....</b>	<b>91,329</b>	<b>\$1,295,719 91</b>



Table V.  
Water by Meter Rates.

CLASSIFICATION.	Number.	Quantity of Water Consumed. Cubic Feet.	Amounts Assessed.
Bakeries .....	17	1,783,000	\$2,298 80
Bath-houses .....	4	563,000	781 45
Boarding-houses .....	59	3,083,000	4,100 20
Bottling .....	42	2,975,000	4,024 80
Breweries .....	32	33,184,000	39,016 65
Cemeteries .....	3	371,000	484 00
Chemicals .....	11	770,000	1,053 50
Club houses .....	33	6,173,000	7,808 50
Distilleries .....	4	998,000	1,267 20
Electrical companies .....	9	26,546,000	28,455 60
Elevators and motors .....	524	55,917,000	59,902 70
Factories .....	228	32,883,000	43,123 17
Fish-houses .....	23	1,351,000	1,796 60
Gas-works .....	13	8,943,000	10,722 90
Greenhouses .....	11	846,000	1,138 80
Halls .....	26	7,891,000	8,691 70
Hospitals .....	13	5,329,000	6,594 30
Hotels .....	129	60,020,000	74,891 72
Iron works .....	48	9,062,000	11,563 85
Laundries .....	24	11,477,000	12,668 20
Markets .....	6	308,000	422 10
Mills and engines .....	75	39,298,000	38,745 65
Model houses .....	1,103	78,814,000	98,352 13
Navy Yard and barracks .....	5	10,190,000	10,009 54
Offices, stores, and shops .....	1,212	119,711,000	157,611 95
Oil-works .....	8	725,000	951 50
Parks .....	1	20,000	28 00
Public institutions .....	8	10,723,000	12,898 10
Saloons and restaurants .....	291	20,448,000	28,716 35
Schools .....	38	5,958,000	7,895 40
Slaughtering houses .....	4	1,960,000	2,448 00
Stables .....	314	14,803,000	20,346 62
Steam and street railway companies .....	73	124,414,000	128,381 60
Stone-works .....	12	1,426,000	1,877 90
Sugar refineries .....	1	30,937,000	26,373 60
Tanneries .....	4	300,000	410 50
Theatres .....	15	3,461,000	4,411 00
Warehouses .....	11	8,697,000	10,165 30
Wharves and shipping .....	79	24,651,000	30,820 32
Totals .....	4,513	767,009,000	\$901,250 20

Table VI.

*Number and Amounts of Abatements Allowed during the Year 1900.*

ON ACCOUNT OF ASSESSMENTS FOR YEAR	COCHITUATE.		MYSTIC.	
	Number.	Amount.	Number.	Amount.
1894. ....	4	\$75 87		
1895. ....	2	462 80	1	\$23 80
1896. ....	82	13,036 10	1	42 00
1897. ....	94	1,585 85	53	378 87
1898. ....	117	189,516 64		
1899. ....	2,171	232,262 09		
1900. ....	3,508	23,687 85		
Totals. ....	5,978	460,627 20	55	\$444 67

The abatements allowed on account of 1900 assessments, amounting to \$23,687.85 were due to changes in occupancy of premises, changes in ownership, vacancies, errors in valuations and assessments, inaccuracy of meters as proved by tests, underground leaks for which the owner could not be held entirely responsible, and for other reasons, which, in the judgment of the General Superintendent, entitled the water-taker to consideration.

The abatements on account of 1894, 1895, 1896, 1897, 1898, and 1899 were due to bills uncollectible, changes of ownership, failures, shut-off for non-payment, cleaning up old accounts, and abatement of City Department accounts to the amount of \$411,897.62, under order of the City Council approved by the Mayor on March 5, 1900.

Table VII.

*New Elevator, Motor, Fire, and Service Pipes.*

Elevator pipes. ....	21
Motor pipes. ....	3
Fire pipes. ....	48
Service pipes. ....	1,630
Total. ....	1,697

**Table VIII.**  
*Turning Water Off and On.*

For repairs of mains.....	1,279
“ “ “ services.....	3,540
“ non-payment of water bills.....	2,350
“ waste.....	6
Turned on first time.....	1,593
Vacancies.....	4,194
<b>Total.....</b>	<b>12,962</b>

**Table IX.**  
*Off and On Receipts.*

Received for turning water off and on for repairs, deposited with City Collector.....	\$1,689 50
---	------------

**Table X.**

ELEVATOR, MOTOR, AND FIRE PIPE SERVICE, FOR YEAR ENDING  
DECEMBER 31, 1900.

*Elevators.*

Under supervision, December 31, 1899 . . . . .	577	
Supervision abandoned:		
Discontinued, changed to electricity or steam previous to December 31, 1899 . . . . .	50	
Discontinued during year . . . . .	6	
Changed to electric during year . . . . .	11	
	—	67
		510
New elevators, inspected and accepted during year . . . . .		35
		545
Under supervision, December 31, 1900 . . . . .		545
Changed to tank and metered water during year, still under supervision . . . . .		9
Inspections made . . . . .		809
Accuracy tests made . . . . .		513

Registering inaccurately and repaired by owners . . . . .	45
Not registering and repaired by owners . . . . .	54
Wasting water and repaired by owners . . . . .	70

*Motors.*

Under supervision, December 31, 1899 . . . . .	115	
Supervision abandoned :		
Discontinued . . . . .	1	
Changed to electric . . . . .	5	
	—	6
New motors added to service during the year . . . . .		109
		11
Under supervision, December 31, 1900 . . . . .		<u>120</u>
Inspections made . . . . .		53
Registering inaccurately and repaired by owner . . . . .		1
Not registering and repaired by owners . . . . .		18
Wasting water and repaired by owners . . . . .		3

*By-Passes.*

Meter by-passes under supervision, December 31, 1899 . . . . .	34
Discontinued during year . . . . .	2
Under supervision, December 31, 1900 . . . . .	<u>32</u>
Inspections made . . . . .	140
Resealed . . . . .	10

*Fire Service.*

Premises under supervision, December 31, 1899 . . . . .	493
Supervision discontinued . . . . .	102
Premises equipped during year . . . . .	<u>391</u>
	31
Premises under supervision, December 31, 1900 . . . . .	<u>422</u>
Inspections of premises . . . . .	2,762
Total number of inspections of outlet valves . . . . .	27,721
Total number of hydrant inspections . . . . .	686
Total number of valves sealed and resealed . . . . .	3,872
Total number of hydrants sealed and resealed . . . . .	159
Prohibited fixtures removed by owners . . . . .	5

## METER SERVICE.

Table XI.

*Statement of Meters for Year Ending January 31, 1901.*

Meters belonging to Department, January 31, 1900 . . . . .	5,190
Purchased during year . . . . .	6
Reclaimed . . . . .	44
In stock, not reported last year . . . . .	2
Exchanged, Crown for Lambert . . . . .	1
	<hr/>
	5,243
Condemned during year . . . . .	38
Lost in service . . . . .	1
Lost, not previously reported . . . . .	2
Sold (exchanged for new) . . . . .	2
Exchanged, Crown for Lambert . . . . .	1
	<hr/>
	44
	<hr/>
Meters belonging to Department, January 31, 1901 . . . . .	<u>5,199</u>

Table XII.

*Distribution of Meters, January 31, 1901.*

In service . . . . .	4,445
At Department shop . . . . .	754
	<hr/>
	<u>5,199</u>

Table XIII.

*General Statement of Work Performed on Meters During Year Ending January 31, 1901.*

	Meters.	Boxes.
Applied.....	270	61
Discontinued.....	445	
Changed.....	944	
" location.....	17	
Tested.....	2,449	
Repaired at shop.....	1,249	
" " factory.....	61	
" in service.....	416	148
Abandoned.....		14
Examined.....	230	
Hayed.....	1,418	

Table XIII.—*Concluded.*

	Meters.	Boxes.
Lost in service.....	3	
Sold (exchange for new).....	2	
Exchanged, Lambert for Crown.....	1	
Condemned.....	38	
Reclaimed.....	44	
Meters in service.....	4,445	
Purchased.....	6	
At Department shop.....	754	
Private meters applied.....	1	
“ “ discontinued.....	6	
“ “ in service.....	71	

Table XIV.  
*Meters Condemned.*

	DIAMETER IN INCHES.					Totals.
	$\frac{1}{4}$	2	1	$\frac{3}{4}$	$\frac{5}{8}$	
Worthington.....	1	2	13	10	1	27
Crown.....					1	1
Metropolitan.....				7		7
B. W. W.....				1		1
Ball & Fitts.....				1	1	2
Totals ..	1	2	13	19	3	38

Table XV.  
*Meters Applied.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	$1\frac{1}{2}$	1	$\frac{3}{4}$	$\frac{5}{8}$	
Worthington.....			2	12	14	19	12		59
Crown.....	3	3	6	8	13	10	7	53	103
Hersey.....			1	2	3	4	8		18
Metropolitan.....						11	72		83
B. W. W.....							2		2
Lambert.....					1				1
Empire.....					1				1
Trident.....						1			1
Gem.....		2							2
Totals ..	3	5	9	22	32	45	101	53	270

**Table XVI.**

*Private Meters Applied to Department Service.*

	DIAMETER IN INCHES.		Total.
	1		
Crown.....	1		1
Total.....	1		1

**Table XVII.**

*Meters Discontinued.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Worthington.....		3	3	15	22	66	24		133
Crown.....	2	2	11	10	27	42	29	85	208
Hersey.....		2	1	8	9	11	11		42
Metropolitan.....					6	20	30		56
B. W. W.....							1		1
Gem.....		2							2
Thomson.....								2	2
Empire.....						1			1
Totals.....	2	9	15	33	64	140	95	87	445

**Table XVIII.**

*Private Meters Discontinued.*

	DIAMETER IN INCHES.		Totals.
	2	⅝	
Crown.....		4	4
Worthington.....		1	1
Ball & Flitts.....	1		1
Totals.....	1	5	6

**Table XIX.**  
*Meters Purchased.*

	DIAMETER IN INCHES.		Totals.
	6	1½	
Crown.....	2	2	4
Hersey.....	2	.....	2
Totals.....	4	2	6

**Table XX.**  
*Meters Sold.*

	DIAMETER IN INCHES.	Totals.
	¾	
Crown.....	2	2
Total.....	2	2

**Table XXI.**  
*Meters Repaired at Factory.*

	DIAMETER IN INCHES.							Totals
	4	3	2	1½	1	¾	½	
Worthington.....	2	.....	2	.....	.....	.....	.....	4
Crown.....	1	1	.....	2	7	9	29	49
Hersey.....	.....	.....	.....	.....	.....	8	.....	8
Totals.....	3	1	2	2	7	17	29	61



**Table XXII.**  
*Meters Repaired in Service.*

CAUSE OF REPAIRS.	Totals.	CAUSE OF REPAIRS.	Totals.
Spindle leaks.....	104	<i>Brought forward.....</i>	383
Leak at connection.....	81	Spindle worn.....	6
“ “ stop-cock.....	4	Hands stuck.....	2
“ “ body.....	5	Clock defaced.....	6
Train stuck.....	5	Valve broken.....	1
Cover broken.....	76	Ratchet “.....	8
Glass “.....	63	Clock loose.....	5
Clock “.....	37	Did not mesh.....	1
Gear loose.....	7	Leak at valve.....	2
Cover “.....	1	Nipple broken.....	2
<i>Carried forward.....</i>	383	Total.....	416

**Table XXIII.**  
*Meters Changed.*

CAUSE.	Number.	CAUSE.	Number.
For test.....	454	<i>Brought forward.....</i>	874
Not registering, cause unknown,	70	Piston stuck.....	14
No force.....	29	Piston shaft worn.....	4
Stoppage.....	26	Clock defaced.....	4
Rust.....	51	“ detached.....	4
Solder.....	15	Relocation.....	7
Dirt.....	31	Intermittent.....	3
Frost.....	12	Train stuck.....	4
Heat.....	16	Spindle loose.....	2
Enlargement.....	32	Bar broken.....	4
Leak at body.....	12	Piston shaft short.....	2
“ “ spindle.....	11	Leak at connection.....	4
Clock broken.....	14	Lever broken.....	3
Ratchet “.....	3	Hands stuck.....	6
Spindle “.....	19	Cover broken.....	4
Piston “.....	5	Pawl stuck.....	3
Gear “.....	34	Piston worn.....	1
Intermediate worn.....	24	Fish.....	1
Gears did not mesh.....	16	Total.....	944
<i>Carried forward.....</i>	874		

Table XXIV.

*Meters in Service, January 31, 1901.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	⅝	
Worthington.....	2	14	30	131	112	504	342	.....	1,135
Crown.....	10	41	50	81	157	355	423	1,204	2,321
Hersey.....	.....	4	12	18	34	70	168	20	326
Metropolitan.....	.....	.....	.....	3	16	103	461	3	586
B. W. W.....	.....	.....	.....	.....	.....	.....	23	.....	23
Thomson.....	.....	.....	.....	.....	.....	.....	1	4	5
Lambert.....	.....	.....	.....	1	3	.....	3	6	13
Empire.....	.....	.....	.....	.....	6	4	1	.....	11
Gem.....	1	4	.....	.....	.....	.....	.....	.....	5
Nash.....	.....	.....	.....	.....	1	2	2	1	6
Champion.....	.....	.....	.....	.....	.....	.....	1	.....	1
Ball & Fitts.....	.....	.....	1	.....	.....	.....	.....	.....	1
Torrent.....	1	.....	.....	.....	.....	.....	.....	.....	1
Trident.....	.....	.....	.....	.....	.....	2	.....	.....	2
Disc.....	.....	.....	3	.....	4	2	.....	.....	9
Totals.....	14	63	96	234	333	1,042	1,425	1,233	4,445

Table XXV.

*Private Meters in Department Service, January 31, 1901.*

	DIAMETER IN INCHES.								Totals
	6	4	3	2	1½	1	¾	⅝	
Crown.....	1	3	2	5	15	6	2	9	43
Worthington.....	.....	.....	2	5	1	6	1	4	19
Hersey.....	.....	.....	1	1	3	.....	.....	.....	5
Thomson.....	.....	.....	.....	.....	1	.....	.....	.....	1
Gem.....	2	.....	.....	.....	.....	.....	.....	.....	2
B. W. W.....	.....	.....	.....	.....	.....	.....	1	.....	1
Totals.....	3	3	5	11	20	12	4	13	71

**Table XXVI.**  
*Meters at Department Shop, January 31, 1901.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	½	
Worthington.....		8	3	27	15	101	75	7	236
Crown.....		4	5	5	12	24	50	121	221
Metropolitan.....				1	4	29	169		203
Ball & Fitts.....				1			3	1	5
B. W. W.....							19		19
Hersey.....	2	2	1	9	8	11	17		50
Lambert.....				1		2	1		4
Thomson.....							1	2	3
Empire.....					1	1	1		3
Gem.....	1	1	4	2					8
Nash.....								1	1
Rogers.....							1		1
Totals.....	3	15	13	46	40	168	337	132	754

**WASTE DETECTION.**

**Table XXVII.**  
*Water Inspection.*

	NUMBER.
Waste reports.....	7,340
Re-examinations.....	8,921
First re-examination.....	7,444
Second ".....	1,438
Third ".....	39
Fine notices issued.....	36

**Table XXVIII.**  
*Defective Fixtures and Waste.*

	NUMBER.
Tank fixtures leaking.....	6,035
Faucets leaking.....	2,634
Water-closets leaking.....	1,091
Bursts.....	362
Wilful waste.....	42

## INVENTORY OF PROPERTY OF INCOME DIVISION.

### AT CITY HALL.

1 black walnut counter, 47½ feet long.	2 high stools.
1 black walnut counter, 12 feet long.	6 high swivel chairs.
1 walnut roll-top desk, two cases overhead.	40 low swivel chairs.
6 walnut roll-top desks.	7 cane seat arm chairs.
3 oak roll-top desks.	5 upholstered arm chairs.
3 double oak standing desks, 9 feet 9 inches long.	1 low stool.
2 single oak standing desks 9 feet 9 inches long.	1 Smith Premier typewriter.
2 single walnut standing desks.	1 Bar-lock typewriter.
1 double walnut standing desk.	1 safe.
8 triple walnut desks, 9 feet long each, low.	3 clocks.
1 flat-top walnut desk.	2 iron umbrella racks.
5 oak flat-top desks.	1 large wooden umbrella rack.
1 typewriter desk.	1 folding step ladder.
1 shelf desk.	1 combined thermometer and barometer.
1 2-foot standing desk.	1 large rug.
1 large walnut table.	1 rubber mat.
2 small, walnut tables.	2 oil cloths.
1 10-foot standing desk.	2 letter presses.
3 large walnut bookcases.	3 fibre mats.
2 walnut slide-door cases.	23 waste baskets.
1 large oak stationery case.	25 cuspidors.
1 oak letter-book case.	11 storm windows.
1 letter press stand.	32 fibre boxes for bills.
1 letter-file case.	4 electric fans.
1 roll-door cabinet.	2 electric portable lamps.
1 oak bill case.	1 drawing board.
3 large book racks.	1 water pail.
1 2-drawer card case.	4 picks.
1 20-drawer card cabinet.	4 shovels.
1 45-drawer card cabinet.	6 "whirley" wrenches.
8 7-inch by 7-inch wooden boxes.	1 box tacks.
2 telephone booths.	2 lbs. nails.
1 toilet booth.	1 file.
16 miscellaneous racks for books, etc.	8 screwdrivers.
21 connected wardrobes.	2 triumph punches.
15 connected wardrobes.	2 star paper fasteners.
6 connected wardrobes.	3 sealing machines.
1 single wardrobe.	20 lbs. lead seals.
13 footstools.	20 lbs. copper wire.
2 desk platforms.	2 funnels.
10 high desk chairs.	1 pair gas pliers.
	4 leather bags.
	1 Stillson wrench.
	1 pair calipers.
	1 "ever ready" electric lamp.
	4 50-ft. linen tape measures.
	3 steel sounding rods.

Arm rests, shears, ink wells, pens, penholders, pencils, rubber stamps and pads, and other stationery, ward ledgers, street books, record cards, printed blanks, etc., for office and street use.

AT METER SERVICE SHOP, 710 ALBANY STREET.

Meters Belonging to Department, January 31, 1901.

Worthington, 6-inch.	2	Lambert,	1-inch.	2
" 4 "	22	" $\frac{3}{4}$ "	"	4
" 3 "	33	" $\frac{3}{8}$ "	"	6
" 2 "	158			17
" $1\frac{1}{2}$ "	127	Empire,	$1\frac{1}{2}$ "	7
" 1 "	605	" 1 "	"	5
" $\frac{3}{4}$ "	417	" $\frac{1}{2}$ "	"	2
" $\frac{5}{8}$ "	7			14
	1,371	" 4 "	"	5
Crown,	6 "	Gem,	6 "	2
" 4 "	45	" 3 "	"	4
" 3 "	55	" 2 "	"	2
" 2 "	86			13
" $1\frac{1}{2}$ "	169	Nash,	$1\frac{1}{2}$ "	1
" 1 "	379	" 1 "	"	2
" $\frac{3}{4}$ "	473	" $\frac{3}{4}$ "	"	2
" $\frac{5}{8}$ "	1,325	" $\frac{5}{8}$ "	"	2
	2,542			7
Metropolitan,	2 "	Trident,	1 "	2
" $1\frac{1}{2}$ "	4	Disc,	3 "	3
" 1 "	20	" $1\frac{1}{2}$ "	"	4
" $\frac{3}{4}$ "	132	" 1 "	"	2
" $\frac{5}{8}$ "	630			9
	3	Ball & Fitts,	3 "	1
	789	" 2 "	"	1
Hersey,	6 "	" $\frac{3}{4}$ "	"	3
" 4 "	6	" $\frac{5}{8}$ "	"	1
" 3 "	13			6
" 2 "	27	Torrent,	6 "	1
" $1\frac{1}{2}$ "	42	Champion,	$\frac{3}{4}$ "	1
" 1 "	81	Rogers,	$\frac{3}{4}$ "	1
" $\frac{3}{4}$ "	185			1
" $\frac{5}{8}$ "	20			1
	376	Total		5,199
B. W. W.,	$\frac{3}{4}$ "			
	42			
Thomson,	$\frac{3}{4}$ "			
" $\frac{5}{8}$ "	2			
	6			
	8			
Lambert,	2 "			
" $1\frac{1}{2}$ "	3			

PROPERTY IN STABLE.

13 blankets.	2 sponges.
3 brushes.	5 surcingles.
1 buggy.	2 sheets.
6 combs.	2 pungs.
5 halters.	4 robes.
2 hitch weights.	3 wrenches.
2 driving horses.	1 old sleigh.
3 working horses.	2 whips.
3 working sets harness.	3 wagons, express.
2 driving sets harness.	1 wagon, Concord.

PROPERTY IN OFFICE.

1 large oak case, 24 drawers, with cards.	2 mahogany tables.
1 small oak case, 9 drawers, with cards.	3 window shades.
2 oak roll-top desks.	3 window screens.
2 oak standing desks.	1 door screen.
2 oak arm chairs.	1 pine wardrobe.
3 oak arm chairs, adjustable.	1 Bar-lock typewriter with table.
2 oak high chairs, adjustable.	6 towels.
1 German mirror.	1 feather duster.
1 pine cabinet.	2 cuspidors.
2 pine tables, with drawers and closets.	1 time clock.
	1 whisk broom.

PIPE FITTINGS, METER PARTS, TOOLS, ETC., AT SHOP.

Tampins,	3	Reducers, $\frac{3}{8}$ to $1\frac{1}{2}$ ,	1,261
Unions, brass, $\frac{1}{4}$ -inch to 2 inches,	24	Rubber packings,	155
"    galv., $\frac{1}{4}$ -in to 2 inches,	31	Shovels,	3
Valves, Worthington, $\frac{3}{4}$ -inch to 3 inches,	127	Stove, oil,	1
Valves, seats,	77	Shelves, wooden,	72
"    Chapman, 4 inches,	1	Stands, wooden,	23
"    "    3    "    "    "	2	Strainers, fish box,	33
"    "    2    "    "    "	13	Stop watches,	2
"    " $1\frac{1}{2}$ "    "    "	14	Spindles, clock,	87
"    check, 2    "    "    "	3	Solder, lbs.	12
"    " $1\frac{1}{2}$ "    "    "	9	Saws, hack,	1
"    "    1    "    "    "	2	Sleeves 4 inches,	1
"    " $\frac{3}{4}$ "    "    "	15	"    3    "    "	1
Wire cutters,	2	Seals, meter,	5
Wrenches, monkey,	12	Stop cocks, 1-inch,	13
"    fork,	24	"    " $\frac{3}{4}$ "    "	13
"    Stillson,	8	"    " $\frac{3}{8}$ "    "	32
"    service	6	Shafts, piston,	148
Washers, cork,	1,047	Tongs,	3
Crane, block and fall,	1	Trowels,	3
3-way cock, $1\frac{1}{2}$ inches,	2	Tees, $\frac{3}{4}$ to 4,	89
3    "    "    1 inch,	1	Tops, meter,	2
Large iron tank and scale,	1	Torches, flash,	3
Small    "    "    "    "    "	1	Forks, hay,	2
Small tank, wooden,	1	Files,	10
Iron horses,	2	Flanges, flat, 8 by 3 inches,	11
Nipples close, brass, 1-inch,	11	"    "    8    "    4    "    "	25
"    "    "    "    "    "    "	34	"    "    9    "    3    "    "	6
"    "    iron, 2 inches,	3	"    "    0    "    4    "    "	8
"    "    "    "    1 inch,	16	"    pipe, 6 inches,	10
"    "    "    "    "    "    "	2	"    "    4    "    "	29
"    "    "    "    "    "    "	11	"    "    3    "    "	39
Plates, circular, 3 ft., 1 ft., 10 inches, 5 inches,	4	Frames, iron,	45
Picks,	3	Gears, intermediate,	314
Pots solder,	1	"    clock,	3,215
Pumps, force,	3	"    spindle,	1,457
Punches, centre,	1	Gauges, pressure,	2
Pliers,	5	Glands, rubber,	420
Pipe, sub., 6 inches,	1	Glasses, clock,	694
"    "    4    "    "	1	Hammers, striking,	7
"    "    3    "    "	3	"    paving,	3
		Hatchets,	1
		Iron fish-box covers,	43

PIPE FITTINGS, ETC., AT SHOP. — *Concluded.*

Iron, soldering,	5	Elbows, brass, $\frac{3}{4}$ -inch,	2
Knives,	5	“ galv. 2 inches,	10
Levers with ratchets,	260	“ “ $1\frac{1}{2}$ “	24
Levers without ratchets,	258	“ “ $1\frac{1}{4}$ “	11
Nipples, 2 inches,	76	“ “ 1-inch,	31
“ $1\frac{1}{2}$ “	53	“ “ $\frac{3}{4}$ “	19
“ 1-inch,	327	Extensions, clock,	14
“ $\frac{3}{4}$ “	168	Ends, Worthington	12
“ $\frac{5}{8}$ “	34	Boxes, wooden, large,	45
“ solder, 2 inches,	47	“ “ small,	31
“ “ $1\frac{1}{2}$ “	46	“ iron, 6 inches,	2
“ “ $1\frac{1}{4}$ “	10	“ “ 4 “	19
“ “ 1-inch,	118	“ “ 3 “	21
“ “ $\frac{3}{4}$ “	9	“ “ 2 “	9
“ “ $\frac{5}{8}$ “	6	“ “ gate,	10
“ close, brass, 2 inch,	48	Bolts, flange, 6 × $\frac{1}{2}$ -inch,	2
“ “ “ $1\frac{1}{2}$ “	32	“ “ 4 × $\frac{3}{4}$ “	45
“ “ “ $1\frac{1}{4}$ “	24	“ “ $3\frac{1}{2}$ × “	13
Couplings, conn., 2-inch,	52	“ “ 3 × “	186
“ “ $1\frac{1}{2}$ inches,	23	“ “ $2\frac{1}{2}$ × “	279
“ “ 1-inch,	47	“ “ 2 × “	8
“ “ $\frac{3}{4}$ “	116	“ “ 2 × $1\frac{1}{2}$ “	490
“ “ $\frac{5}{8}$ “	127	“ for meter bodies, various	
“ comb., 2 “	30	sizes,	6,189
“ “ $1\frac{1}{2}$ -inches,	93	(nuts for same),	3,957
“ “ 1-inch,	48	Boxes, counter,	381
“ brass, 2 inches,	15	Board, leather, lbs.,	175
“ “ $1\frac{1}{2}$ “	51	Buffers, rubber,	206
“ “ $1\frac{1}{4}$ “	34	Binders, Worthington,	108
“ “ 1-inch,	28	Bars, pinch,	2
“ “ $\frac{3}{4}$ “	8	Bars, crow,	2
“ tubes, 2 inches,	17	Bags, tools,	3
“ “ $1\frac{1}{2}$ “	50	Boxes, rosin,	3
“ “ 1-inch,	7	“ tool,	3
“ “ $\frac{3}{4}$ “	53	Boots, rubber, pairs,	4
“ “ $\frac{5}{8}$ “	54	Brooms, floor,	1
Clocks, $\frac{5}{8}$ -inch to 4 inches,	394	Buckets,	2
Chisels, cold,	8	Bottoms, Worthington,	25
Cans, oil,	2	Brackets, wooden,	21
Drills, hand,	1	Bushings, brass, 2 inches,	31
Dials, clock,	730	“ “ $1\frac{1}{2}$ -inch,	22
Discs,	12	“ “ $\frac{3}{4}$ inches,	11
Drills, twist,	217	“ galvanized, $1\frac{1}{2}$ -inch,	5
Drivers, screw,	9	Bolts, stretching,	13
Elbows, brass, 2 inches,	12	Covers, counter-box,	321
“ “ $1\frac{1}{2}$ “	27	“ iron,	90
“ “ $1\frac{1}{4}$ “	14	Connection pieces, $\frac{5}{8}$ -inch to	
“ “ 1-inch,	19	2 inches,	31

## APPENDIX B.

## REPORT OF THE DISTRIBUTION DIVISION.

OFFICE OF THE SUPERINTENDENT,  
710 ALBANY STREET, February 1, 1901.

GENERAL A. P. MARTIN,

*Water Commissioner:*

I herewith submit the annual report of the Distribution Division for the year ending January 31, 1901.

## MAIN PIPE.

Twenty and four-tenths miles of main pipe was laid during the year. Eleven and one-tenth miles was abandoned, and 10,483 feet in Chelsea was taken by the Metropolitan Water Board — making the total length of the Distribution System 713.4 miles.

In addition to the above (and not included in the total length of our system) 3,001 feet of hydrant, reservoir and blow-off pipe was laid, and 1,811 feet abandoned.

There was also laid 691 feet of private main.

Three thousand one hundred and seventy-one feet of main pipe was relocated, by raising, lowering, or moving laterally. This work was necessitated chiefly by the abolishment of grade crossings and street improvements.

About one-half the amount of pipe laid replaced old and small-sized mains laid some years ago and which have since become inadequate to the greater demands imposed upon them by the growth of the City.

The present winter is the first one in the history of the Department when work was carried on throughout the winter in the same manner as during the summer; that is, heretofore, since 1896, during the winter months the main pipe force was employed upon one or two large jobs in the outlying districts where the adverse weather conditions did not so seriously interfere with the work as it might have within the City limits. During the present winter, however, we did considerable relaying in various parts of the City proper



where the streets are paved with granite blocks, and it has proved to be a matter of some expense to maintain the trenches in a safe condition on account of the repeated settlements due to the frost leaving the ground and other conditions characteristic of spring weather.

The Metropolitan Water Board took for its own use the following main pipe and fixtures, located in Chelsea, Chelsea creek and East Boston, between Chelsea bridge on one end and the East Boston pumping station on the other: 456 feet 30-inch main, 4,760 feet 24-inch main, 4,667 feet 20-inch main, 595 feet 16-inch main, 5 feet 12-inch main, 35 feet 12-inch B. O. pipe, 90 feet 6-inch B. O. pipe, 40 feet 4-inch B. O. pipe, 200 feet 4-inch hydrant pipe, 3 24-inch gates, 5 20-inch gates, 1 12-inch gate, 1 12-inch B. O. gate, 2 6-inch B. O. gates, 2 4-inch B. O. gates, 7 4-inch hydrant gates, 7 Boston hydrants, 2 air cocks.

#### MAIN GATES.

Four hundred and sixty-five of various sized gates were established; 210 were abandoned, and 16, in Chelsea, were taken by the Metropolitan Water Board, making the total number in use 8,910. Besides these, there were 21 blow-off gates established and 12 abandoned, and 5, in Chelsea, taken by the Metropolitan Water Board; 8 private gates established and 1 abandoned; and 4 gates established upon hydrant branches. This last class of gates enables us to make repairs upon hydrants without shutting down the lines — an important desideratum.

An old style left-handed gate at the corner of Boylston street and Tremont street was replaced by one of the pattern in use at the present time.

#### AIR COCKS.

Twenty-seven air cocks were established and 6 abandoned.

#### BLOW-OFF COCKS.

Six blow-off cocks were established and 1 abandoned.

#### CHECK VALVES.

One 8-inch check valve was established upon the Deer Island System. (Private.)

#### HYDRANTS.

Three hundred and ninety-six hydrants were established, and 267 abandoned, and 7, in Chelsea, were taken by the Metro-

politan Water Board — making the total number connected with our system 7,606. The Bachelder pattern of Post hydrant was used more extensively this year than previously — 103 being added to the system: the total number now in service is 175. It is our policy to use this type of hydrant wherever it is feasible, the Fire Department having shown a decided preference for it.

One thousand four hundred and seventy-five bags of salt were purchased by this Department and delivered to the Fire Department to be used on hydrant covers during the cold weather.

One hundred and seventy-nine thousand one hundred and three inspections of hydrants were made — principally during the cold weather — to detect if possible defects in the working of the hydrants, which if uncorrected might cause a delay of disastrous consequence in case of fire.

We are considerably annoyed at times as a result of the rather promiscuous use of hydrants by contractors, corporations, and City Departments, whose sole desire is to get water, regardless of the means employed. Sometimes, when a regular hydrant wrench is not at hand, a Stillson wrench is employed, with the effect of wearing off the corners of the nut controlling the valve-stem, and thus rendering the hydrant practically useless. Other defects are often caused by the ignorance and carelessness of the parties mentioned above, who in my opinion should get water from other sources. Such an important fixture as a fire hydrant should be held almost sacred, and should be used exclusively for the purpose of extinguishing fires. Its efficiency depends to a great extent upon its readiness for use, and this cannot be expected where it is operated by careless and mechanically ignorant persons.

#### WATER POSTS.

Twenty-five water posts were established and 11 abandoned — making the total in use 508. As regards these posts we do nothing, except upon orders received from the Street Watering Division, which owns them, and pays for their maintenance.

#### FOUNTAINS.

During the year drinking fountains were established as follows: 2 cold water (artesian well method) for man only, 1 "ordinary"\* for beasts only, 1 cold water (artesian well

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\* The term "ordinary" is here used to designate those fountains through which water of a normal temperature flows and not cooled by artificial methods.

method) for beasts only. There were abandoned 2 "ordinary" for man and beast, 1 "ordinary" for man only, and 1 "ordinary" for beasts only. An "ordinary" for man only was changed to a "cold water" (artesian well method), and an "ordinary" for beasts only was changed to a "cold water" (artesian well method). The total number of fountains in use is 121, of which 47 are "ordinaries" for man and beast combined, 21 "ordinaries" for man only, 35 "cold water" for man only, 15 "ordinaries" for beasts only, and 2 "cold water" for beasts only.

For the purpose of cooling water for drinking fountains a new system has been inaugurated during the past year. Artesian wells have been driven at several points to a depth of about 100 feet, viz.: Boston Common, Second street, between M street and N street, Post Office square, and the junction of Northampton street and Albany street. A wrought-iron pipe, of about eight inches diameter, and of the same length as the depth of the well, is lowered into the bore and forms a sheathing for the same. This pipe is perforated with small holes which allow a free passage of the well-water through the same, and assure a uniformly low temperature. The supply pipe to the fountain passes through the whole length of the well twice. The water flowing through the pipe is thus cooled by the surrounding well-water, and, as it reaches the faucet in the fountain, it is usually of about 50° Fahrenheit, winter and summer. This is considered by hygienic authorities as sufficiently cold for drinking purposes. The expense and bother of replenishing the ice boxes once or twice a day, as was necessary under the old system, is thus obviated.

#### SERVICE-PIPES.

One thousand seven hundred and ninety-eight service-pipes (45,559 feet) of various sizes were laid during the year, and 364 service-pipes (9,059 feet) were abandoned — showing a net increase of 1,434 pipes (36,500 feet), and making the total number of service-pipes of all sizes now in use 87,525, with an aggregate length of 2,427,671 feet. Four hundred and twenty-six service-pipes were laid to unoccupied building lots from which no revenue is at present derived. They are included in the foregoing statement.

I am now considering a system which I hope to have in execution the early part of next year, whereby the relative location of all service-pipes to some fixed point may be more easily ascertained than at present. It is now often the case

that we have to dig, and, figuratively speaking, grope our way in an endeavor to locate a service-pipe, for want of definite information as to its location.

The cost of service-pipes laid in streets paved with "pitch and pebble" and asphalt is not to a considerable amount covered by the schedule rates charged for the pipes. This question will require serious consideration in the very near future.

#### MAINTENANCE.

Repairs of all kind and of varied extent were made upon main-pipe, service-pipes, hydrants, etc., during the year.

There were 549 main-pipe repairs; 12,110 service-pipe repairs; 4,268 hydrant repairs; 4,058 hydrant and gate box repairs; 450 fountain repairs; 1,268 street repairs; 701 dead ends blown off; 7,165 gates tested in service; 6,511 hydrants tested in service; 8,549 gate covers salted in cold weather, and a great deal of miscellaneous work of maintenance character.

The most important break that we had occurred August 8 in the 30-inch low service main in Tremont street, opposite the Hotel Touraine. The water escaped in great quantities, flooding many cellars in the vicinity. It cost \$2,204.52 to repair the pipe, the street and pavement torn up by the water, and to pump out the cellars into which the water entered. Five thousand one hundred and eighty-two dollars and eighty-nine cents was expended in stripping this main between Boylston and Eliot streets, after the break was repaired, for the purpose of discovering any weakness that might exist, and strengthening it where we considered it necessary. There are now in the hands of the Law Department awaiting settlement, 34 claims for alleged damages resulting from this break.

Upon September 5 a leak occurred in the same main at a point in Tremont street, opposite Hollis street. The cost of making repairs was \$435.10. Both of these leaks were caused by settlement, due, no doubt, to the unsettled condition of the street since it was disturbed by Subway construction.

Between October 20 and December 26 we had a series of six breaks in the 48-inch low service main in and near Clinton road, Brookline. These were caused by a combination of increased pressure, poor castings, and settlement. The aggregate cost of repairing the same was \$4,348.93, with a charge from Contractor Driscoll, of Brookline, for repairing the roads torn up by the escaping water to be included.

The 1,268 street repairs, which class of work is rapidly becoming both extensive and expensive, on account of the greater number of "pitch and pebble" and asphalt streets than formerly, varied in expense from \$1 to \$518.

A very desirable class of work performed during the year was the building of 34 brick gate-chambers, replacing wooden boxes. Brick gate-chambers for large gates are obviously an improvement over wooden boxes. Thirty-one brick chambers with wooden tops were fitted with brick tops, thus making the entire chamber of brick.

We are caused considerable expense by relocating our mains in response to the requests of the Sewer Division, the construction work of which very frequently comes in contact with our system. No reimbursement is made to this Department for this outlay.

Early in the year an important change was made in the method of supplying steam for heating our building at 710 Albany street. The exhaust from the engine was utilized, and instead of, as formerly, escaping into the air, it circulates through the heating apparatus of the building and returns to the boiler and is again used for power purposes. This results in a material saving in fuel.

An inspection of the statement appended, showing the manufactures of the machine and carpenter shops, will give an idea of what this branch of the service is doing. In addition, however, to the manufacture of stock, these shops perform a great amount of work of a most diversified nature, necessary to the maintenance of a plant as large as ours. It is of very rare occurrence that we have to call upon outside mechanics or artisans.

Care and attention have been given to the various yards, buildings, reservoirs, and properties of the Department, and they are all in first-class condition.

An auction sale was held January 29, 1901, by which, in addition to large lots of cast-iron and composition junk, a great variety of old and useless material — the accumulation of years — was disposed of to advantage to the Department. Some of the larger items were: 227 tons of cast-iron junk; 4 tons composition and brass chips; 4 tons of brass and composition junk; 2,700 feet of  $\frac{3}{4}$ -inch wrought-iron pipe and fittings for same; one Sturtevant Heating System, complete; 12 jack screws; 1,000 pounds tire steel; 26 wagon springs; 1 tip-cart and harness; 4 buggies; 3 wagons; 11 sleighs; and about 150 other lots of varying quantity and quality, for which we received, after deducting the expense of the sale, \$5,601.76.

## FIRE RESERVOIRS.

The fire reservoir in Anderson street, opposite the Phillips School-house, together with the 4-inch connection between it and our system, was abandoned.

## HARBOR SERVICE.

The additional 12-inch supply laid across Moon Island in 1899 was connected at the sea-wall with the pipe crossing the harbor to Long Island. The usual care and attention were given to the various lines of pipe in the harbor. Bulkheads were built along the shores of the different islands to protect the pipes from the effects of the waves. A sign warning vessels from anchoring in the vicinity of our pipes was built on Rainsford Island; and old signs of a similar character at other points were repainted.

Appended you will find tables showing details of the work performed, and schedule of stock owned by the Department January 31, 1901.

Respectfully yours,

WILLIAM J. WELCH,  
*Superintendent.*

Table showing Length of Distribution Mains Laid and Relaid, Abandoned, and Taken by the Metropolitan Water Board during the year 1900, and the total length of the Distribution System of the City of Boston, January 31, 1901.

	DIAMETER OF PIPES IN INCHES.													Totals.			
	48	42	40	36	30	28	24	20	16	12	10	8	6		4	3	2
Total connected with system, January 31, 1900.....	33,671	16,813	23,104	39,984	82,049	244	83,902	96,700	155,356	1,056,936	81,432	502,489	1,436,102	108,564	7,536	3,485	3,728,317
Length laid and relaid during the year.....	48	.....	.....	9	3,930	.....	140	2,471	16,697	33,168	5,889	24,299	21,476	105	.....	.....	108,326
Length abandoned during the year.....	48	.....	.....	9	1,286	.....	.....	868	1,867	14,529	19	3,830	28,701	7,928	.....	.....	59,085
Length taken by Metropolitan Water Board in Chelsea.....	.....	.....	.....	.....	456	.....	4,760	4,667	595	5	.....	.....	.....	.....	.....	.....	10,483
Total connected with system, January 31, 1901.....	33,671	16,813	23,104	39,984	84,237	244	79,282	93,636	169,585	1,075,570	87,302	523,908	1,428,877	100,741	7,536	3,485	3,766,975 or 713.4 m.

Statement of Hydrant, Blow-off, and Reservoir Pipes, January 31, 1901.

	DIAMETER IN INCHES.								Totals.
	16	12	10	9	8	6	4	3	
Total length in use January 31, 1900.....	472	7,052	105	2,740	1,139	32,375	8,677	3	52,563
Length laid and relaid during the year.....		174				2,645	182		3,001
Length abandoned during the year.....		276		81	12	484	593		1,446
Length taken by Metropolitan Water Board in Chelsea .....		35				90	240		365
Total length in use January 31, 1901.....	472	6,915	105	2,659	1,127	34,446	8,026	3	53,753



**Main Gates Established, Abandoned, and Taken by Metropolitan Water Board during the Year, and Number in use January 31, 1901.**

	DIAMETER IN INCHES.												Totals.	
	48	40	36	30	24	20	16	12	10	8	6	4		3
Total number in use January 31, 1900.....	1	7	26	44	67	69	258	1,878	173	1,150	4,363	625	10	8,671
Established during the year .....	.....	.....	1	1	1	2	38	157	24	118	123	.....	.....	465
Abandoned during the year .....	.....	.....	1	.....	.....	.....	2	36	.....	22	115	34	.....	210
Taken by Metropolitan Water Board in Chelsea.....	.....	.....	.....	.....	3	5	.....	1	.....	.....	.....	7	.....	16
Total number in use January 31, 1901.....	1	7	26	45	65	66	294	1,998	197	1,246	4,371	584	10	8,910

**Blow-off Gates Established and Abandoned during the Year.**

	DIAMETER IN INCHES.				Totals.
	12	8	6	4	
Number established.....	4	1	4	12	21
Number abandoned .....		1	2	9	12
Taken by Metropolitan Water Board in Chelsea .....	1	.....	2	2	5
Increase .....	3	.....	.....	1	4

**Hydrant Gates Established during the Year, and Total Number in Use January 31, 1901.**

	DIAMETER.	Total.
	6 inches.	
Number established.....	4	4
Total number in use January 31, 1901.....	4	4

**Private Gates Established and Abandoned during the Year.**

	DIAMETER IN INCHES.				Total.
	8	6	4	3	
Number established.....	1	4	2	1	8
Number abandoned .....	.....	.....	1	.....	1
Increase .....	1	4	1	1	7

Hydrants Established and Abandoned during the Year.

	ESTABLISHED.					Totals.	ABANDONED.					Totals.
	Lowry.	Boston Lowry.	Ordinary Post.	Bachelor Post.	Boston.		Lowry.	Boston Lowry.	Ordinary Post.	Bachelor Post.	Boston.	
City Proper (Public) .....	30	2	17	54	1	110	53	4	16	1	26	100
South Boston (Public).....	8	4	12	....	1	25	1	1	6	....	8	16
"    "    (Private).....	....	....	....	....	....	....	....	....	....	....	1	1
East Boston (Public).....	1	2	17	3	....	23	4	6	3	....	6	19
Roxbury (Public).....	5	8	35	29	....	77	29	13	7	....	3	52
"    (Private).....	1	....	....	....	....	1	1	....	....	....	....	1
Dorchester (Public).....	....	13	42	6	....	61	5	11	10	....	2	28
West Roxbury (Public) .....	....	19	28	....	....	47	4	14	4	....	1	23
Brighton (Public).....	1	14	18	1	....	34	2	3	....	....	2	7
"    (Private).....	....	....	1	....	....	1	....	....	....	....	....	....
Charlestown(Public) .....	3	....	2	11	....	16	10	1	1	....	....	12
Deer Island (Private) . . . . .	....	....	1	....	....	1	....	....	....	....	....	....
Brookline .....	....	....	....	....	....	....	5	....	....	....	3	8
Chelsea (Taken by Met. Water Board) .....	....	....	....	....	....	....	....	....	....	....	7	7
<b>Total Number of Public....</b>	<b>54</b>	<b>62</b>	<b>171</b>	<b>104</b>	<b>2</b>	<b>393</b>	<b>108</b>	<b>53</b>	<b>47</b>	<b>1</b>	<b>48</b>	<b>257</b>
<b>Total Number of Private and Suburban .....</b>	<b>1</b>	<b>....</b>	<b>2</b>	<b>....</b>	<b>....</b>	<b>3</b>	<b>6</b>	<b>....</b>	<b>....</b>	<b>....</b>	<b>11</b>	<b>17</b>

Total Number of Hydrants Connected with Distribution System January 31, 1901.

	Lowry.	Boston Lowry.	Ordinary Post.	Bachelor Post.	Boston.	Total.	NOTES.
City Proper (Public)....	753	49	348	82	217	1,449	
"    "    (Private).....	....	....	11*	....	44*	55	*26 Bostons } *1 Ordinary Post } not for fire.
South Boston (Public)...	233	32	182	4	125	576	
"    "    (Private)...	2	....	13*	....	32*	47	*2 Bostons } *4 Ordinary Posts } not for fire.
East Boston (Public)....	144	22	211	4	7	388	
"    "    (Private)...	8	....	7	....	25*	40	*7 not for fire.
<i>Car'd forw'd. { Pub. 1,130</i>		103	741	90	349	2,413	
<i>                  { Priv. 10</i>		....	31	....	101	142	

Total Number of Hydrants. — *Concluded.*

	Lowry.	Boston Lowry.	Ordinary Post.	Backholder Post.	Boston.	Total.	NOTES.
<i>Brot forw'd.</i> { <i>Pub.</i>	1,130	103	741	90	349	2,413	
{ <i>Priv.</i>	10	.....	31	.....	101	142	
Roxbury (Public).....	586	81	466	53	45	1,221	
“ (Private).....	1*	.....	.....	.....	10*	11	*1 Lowry } not for fire. *1 Boston }
Dorchester (Public)....	503	245	984	15	32	1,779	
“ (Private).....	.....	1	1*	.....	4*	6	*1 Boston } not for fire. *1 Ordinary } Post }
West Roxbury (Public). .	119	236	646	3	30	1,034	
“ “ (Private).....	.....	.....	14	.....	1	15	
Brighton (Public).....	70	84	388	1	23	566	
“ (Private).....	.....	.....	7	.....	2*	9	*2 not for fire.
Charlestown (Public)....	198	36	49	13	2	298	
“ (Private)....	14	1	36	.....	6*	57	*1 not for fire.
Deer Island (Private)....	.....	.....	19	.....	.....	19	
Long Island (Private) ..	.....	.....	6	.....	.....	6	
Thompson's Island (Pri- vate).....	.....	.....	2	.....	.....	2	
Rainsford Island (Pri- vate).....	.....	3	1	.....	1*	5	*1 not for fire.
Gallop's Island (Pri- vate).....	.....	.....	1	.....	1*	2	*1 not for fire.
Quincy.....	.....	.....	11	.....	.....	11	
Total number of Public Hydrants.....	2,606	785	3,274	175	481	7,321	
Total number of Private and Suburban Hy- drants.....	25	5	129	.....	126	285	

## Water Posts.

DISTRICT.	Number in use Jan. 31, 1900.	Established during the year.	Abandoned during the year.	Number in use Jan. 31, 1901.
City proper.....	75	3	1	77
South Boston.....	38	2	1	39
East Boston.....	41	1	1	41
Roxbury.....	78	2	2	78
Dorchester.....	100	6	1	105
West Roxbury.....	88	7	2	93
Brighton.....	53	2	2	53
Charlestown.....	21	2	1	22
Totals.....	494	25	11	508



**Statement of Location, Size and Number of Feet of Main Pipe  
Extended during the Year ending January 31, 1901.**

NOTE.—C. P. indicates City Proper; Rox., Roxbury; W. R., West Roxbury; Bri., Brighton; Dor., Dorchester; So. B., South Boston; E. B., East Boston; Chsn., Charlestown.

LOCATION.		District.	Size.	Length.
Washington st....	Between Bowdoin st. and Talbot ave.....	Dor.	30-in.	2,912
Boston Common..	Opposite West st.....	C. P.	24-in.	135
B st.....	Between Danby and Binford sts.....	So. B.	"	5
	Total 24-in.....			<u>140</u>
Tremont st.....	At Castle sq. and over railroad bridge....	C. P.	20-in.	211
Adams st.....	Near Minot st.....	Dor.	"	12
B st.....	Between Danby and Binford sts.....	So. B.	"	293
Binford st.....	" A and B sts.....	"	"	894
	Total 20-in.....			<u>1,410</u>
Boston Common (H. S.).....	Opposite West st.....	C. P.	16-in.	98
Chandler st.....	At Tremont st.....	"	"	8
Tremont st.	" West st.....	"	"	116
Washington st....	Between Bowdoin st. and Talbot ave..	Dor.	"	15
Binford st.....	" A and B sts.....	So. B.	"	36
Swett st.....	Between N. Y., N. H. & H. R.R. bridge and Magazine st.....	"	"	1,334
	Total 16-in.....			<u>1,607</u>
Albany st. (H. S.)..	Between Beach and Kneeland sts.....	C. P.	12-in.	172
Atlantic ave.....	At Pearl st.....	"	"	12
Beach st. (H. S.)..	Between Kingston and Lincoln sts.....	"	"	154
Broad st. (H. S.)..	At Wharf st.....	"	"	3
Chandler st.....	" Tremont st.....	"	"	12
Dorchester ave.(L. S.).....	From Congress st.....	"	"	37
Exeter st.(H. S.)..	Between Huntington ave. and Boylston st.	"	"	549
Franklin st. (H. S.)	Across Oliver st.....	"	"	18
High st. (H. S.)..	At Summer st.....	"	"	62
India st. (H. S.)..	Between India sq. and Wharf st.....	"	"	162
India st. (H. S.)..	" Wharf and Custom House sts....	"	"	215
Kingston st. (H. S.)	At Beach st.....	"	"	70
	Carried forward.....			<u>1,466</u>



## Statement of Main Pipe Extended. — Continued.

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			10,311
Commonwealth ave., south side..	Between Kinross road and Chestnut Hill ave.....	Bri.	12-in.	1,508
Faneuil st. ....	Between Hobart and Parsons sts. ....	"	"	584
Parsons st. ....	" No. Beacon and Faneuil sts. ....	"	"	1,064
Wallingford road.	From Commonwealth ave.....	"	"	641
Perkins st. ....	Between Cambridge and Haverhill sts....	Chsn.	"	27
" " .....	" Brighton st. and B. & M. R.R. ...	"	"	16
Frankfort st. ....	Near Maverick st. ....	E. B.	"	48
Moon Island. ....	Boston Harbor. ....	B. II.	"	48
Deer Island. ....	At Shirley Gut. ....	"	"	58
Shirley Gut. ....	Between Deer Island and Point Shirley ...	"	"	420
Point Shirley. ....	At Shirley Gut. ....	Winthr'p	"	135
	Total 12-inch.....			<u>14,860</u>
Broad st. (H.S.)...	At Wharf st. ....	C. P.	10-in.	32
Congress st. (H.S.)	Between Gilbert pl. and Dorchester ave..	"	"	205
Congress st. (H.S.)	Between Purchase and High sts. ....	"	"	172
Dorchester ave. (H.S.).....	From Congress st. ....	"	"	80
Oliver st. (H.S.)..	Between Atlantic ave. and Purchase sts..	"	"	147
" " " ..	" " " " Franklin st. ....	"	"	739
Goldthwait st ....	Off Parker st. ....	Rox.	"	4
Sterling st. ....	At Warwick st. ....	"	"	28
Willis st. ....	Off Parker st. ....	"	"	5
Bellevue st. ....	Between Martin and Robin sts. ....	W. R.	"	66
Colberg ave. ....	" Rexhame and Arden sts. ....	"	"	36
Spring st. ....	" Charles river and Billings st. ....	"	"	574
Holmes ave. ....	Off Harvard ave. ....	Bri.	"	498
Newcastle road..	From Faneuil st. ....	"	"	266
" " ..	Between Faneuil st. and Hobson road....	"	"	472
	Total 10-inch.....			<u>3,324</u>
Boylston st. (H.S.)	At Bumstead ct. ....	C. P.	8-in.	5
Central wharf (north side)....	" Atlantic ave. ....	"	"	16
Congress st. (L.S.)	Between Gilbert pl. and Dorchester ave..	"	"	203
Constitution wharf. ....	At Commercial st. ....	"	"	38
	<i>Carried forward</i> .....			<u>262</u>



Statement of Main Pipe Extended. — *Continued.*

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			262
Dorchester ave. (L.S.).....	From Congress st.....	C. P.	8-in.	45
Fort Hill sq. (H.S.)	Across Oliver st.....	"	"	22
India wharf.....	At Atlantic ave.....	"	"	14
Lewis wharf (north side).....	" " ".....	"	"	16
Long wharf.....	" " ".....	"	"	8
Metropolitan wharf.....	" " ".....	"	"	16
Porter st.....	" Pleasant st.....	"	"	20
Union wharf.....	" Commercial st.....	"	"	18
Ashby st.....	Between Bay State road and Common- wealth ave.....	Rox.	"	324
Bay State road....	Granby and Essex sts.....	"	"	1,565
Caldwell st.....	Off Parker st.....	"	"	4
Chilmark st.....	Between Bay State road and Common- wealth ave.....	"	"	272
Darling st.....	Between Hillside and Calumet sts.....	"	"	514
Harold st.....	" Hollander and Harrishof sts.....	"	"	495
" ".....	" " " Waumbeck sts.....	"	"	248
Harrishof st.....	" Harold st. and Humboldt ave....	"	"	501
Hollander st.....	" " " Crawford sts.....	"	"	379
" ".....	At Harold st.....	"	"	21
Pequot st.....	" Darling st.....	"	"	22
" ".....	Between Wait and Darling sts.....	"	"	160
Roys st.....	From Mozart st.....	"	"	182
Weston st.....	Across Warwick st.....	"	"	14
" ".....	Between Warwick and Cabot sts.....	"	"	95
Ashland st.....	At Hyde Park ave.....	W. R.	"	5
Irving st.....	Anawan ave. and Pelton st.....	"	"	5
Kenneth st.....	Off Stratford ave.....	"	"	24
Lawn st.....	" Mt. Hope st.....	"	"	166
" ".....	" " ".....	"	"	57
Stratford ave.....	Between Anawan ave. and Clement ave....	"	"	537
Temple st.....	" Lassell and Baker sts.....	"	"	358
Tower st.....	Between Hyde Park ave. and Forest Hills Cemetery.....	"	"	26
Union terrace.....	From Morton st.....	"	"	657
	<i>Carried forward</i> .....			7,052

## Statement of Main Pipe Extended.—Continued.

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			7,052
Ballou ave.....	Near Mascot st. ....	Dor.	8-in.	46
Batchelder st. ....	Between Marshfield and Burrell sts. ....	"	"	212
Ceylon-st. extension .....	At Quincy st. ....	"	"	18
Ceylon-st. extension .....	" " " .....	"	"	227
Christopher st. ....	Between Dorchester ave. and Adams st. ...	"	"	239
Cushing ave.....	" Cushing ave. and Upham st. ....	"	"	123
Fowler st. ....	" Glenway and McLellan sts. ....	"	"	141
" " .....	" McLellan and Glenway sts. ....	"	"	251
Greenwood st. ....	" York and Fowler sts. ....	"	"	377
Joseph st. ....	" Wainwright st. and Talbot ave. ...	"	"	37
Lyons st. ....	At Callender st. ....	"	"	8
Magdala st. ....	Between Van Winkle and Codman sts. ....	"	"	8
Marsh st. ....	From Granite ave. ....	"	"	1,107
Oak Hill ave.....	Across West Selden st. ....	"	"	45
Seaborn st. ....	Between Kenwood st. and Moultrie ave. ...	"	"	151
Silloway st. ....	" Mather st. and Melville ave. ....	"	"	411
Templeton st. ....	" Dawson and Florida sts. ....	"	"	104
Willowwood st. ....	" Harwood and Harvest sts. ....	"	"	206
Woolson st. ....	" Norfolk and Wildwood sts. ....	"	"	561
E st. ....	At Summer st. ....	So. B.	"	76
Powers st. ....	" Dorchester ave. ....	"	"	25
" " .....	" Boston st. ....	"	"	145
Brooksdale road..	Off Parsons st. ....	Bri.	"	2
" " ..	" Raneleigh road. ....	"	"	276
Crosby st. ....	At " " .....	"	"	63
Cummings road..	Off Corey road. ....	"	"	646
Dustin st. ....	Between Cambridge and North Beacon sts. ...	"	"	45
Holton st. ....	Off Raneleigh road. ....	"	"	3
Idlewild st. ....	Between Commonwealth and Holmes aves. ...	"	"	387
Klhross road. ....	At Commonwealth ave. ....	"	"	25
Raneleigh " .....	Between Hobart and Corinne roads. ....	"	"	201
" " .....	" Riverview and Corinne roads. ...	"	"	452
Ridgement st. ....	West from Eleanor st. ....	"	"	24
Riverview road..	Off Parsons st. ....	"	"	2
	<i>Carried forward</i> .....			13,696

Statement of Main Pipe Extended. — *Continued.*

LOCATION.		District.	Size.	Length.
<i>Brought forward</i> .....				13,696
Riverview road...	Between Raneleigh road and Parsons st..	Bri.	8-in.	348
Rodney st.....	At Cambridge st.....	"	"	53
Strathmore road..	Between Commonwealth ave. and Chiswick road.....	"	"	218
Webster st.....	At Dunboy st.....	"	"	114
" ".....	From Bigelow st. (west).....	"	"	270
Ashley st.....	Between Breed and Bennington sts.....	E. B.	"	700
Deer Island.....	At Shirley Gut.....	B. H.	"	9
Point Shirley....	" " ".....	Win.	"	29
Total 8-inch.....				<u>15,437</u>
Battery wharf....	At Commercial st.....	C. P.	6-in.	32
Blagden st.....	At Exeter st.....	"	"	9
Cazenove st.....	Between Chandler st. and railroad.....	"	"	10
Eastern ave. (north side).....	At Commercial st.....	"	"	5
Fiske's wharf....	" " ".....	"	"	44
Gilbert pl. (H. S.).	From Congress st.....	"	"	3
Lewis wharf (so. side).....	At Atlantic ave.....	"	"	15
Sargent's wharf...	At Commercial st.....	"	"	9
Stillman pl.....	Off Stillman st.....	"	"	11
T wharf.....	At Atlantic ave.....	"	"	15
Van Rensselaer pl. (H. S.).....	Off Tremont st.....	"	"	236
Bickford ave.....	At Heath st.....	Rox.	"	4
Cabot pl.....	" Warwick st.....	"	"	16
Cardington st....	" Fenner st.....	"	"	28
Dunford st.....	" " ".....	"	"	31
Echo st.....	Between Columbus ave. and Centre st....	"	"	56
Gayland ave.....	" West Cottage and Judson sts....	"	"	27
Graham st.....	" Hutchings st. and Blue Hill ave.	"	"	207
Holworthy st.....	At Harold st.....	"	"	11
Kempton st.....	Between Huntington ave. and Kenwood road.....	"	"	590
Park View st.....	Between Seaver and Hutchings sts.....	"	"	218
Parker st.....	At Tremont st.....	"	"	5
Penryth st.....	Between Columbus ave. and Centre st...	"	"	50
<i>Carried forward</i> .....				<u>1,632</u>

Statement of Main Pipe Extended. — *Continued.*

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			1,632
Sunnyside terrace.	At Creighton st. ....	Rox.	6-in.	69
Unnamed street off Francis st. ....	1st, left from Huntington ave. ....	"	"	197
Walt st. ....	Between Huntington ave. and Pequot st. .	"	"	5
Waumbeck st. ....	" Harold st. and Humboldt ave. ....	"	"	26
Boylston st. ....	At Chestnut ave. ....	W. R.	"	44
Brook road. ....	Between Plainfield and Stedman sts. ....	"	"	208
Calder st. ....	" Blue Hill ave. and Canterbury st. .	"	"	283
Carolina ave. ....	" Lee and South sts. ....	"	"	50
Childs st. ....	At South st. ....	"	"	119
Grovenor road. .	From Centre st. ....	"	"	276
" " .	Between Pond and Centre sts. ....	"	"	205
Heathcote st. ....	" Poplar and Hawthorne sts. ....	"	"	45
Irving st. ....	" Anawan ave. and Pelton st. ....	"	"	204
John A. Andrew st.	" Sedgwick and Newbern sts. ....	"	"	41
Linden st. ....	" Between Beech and Cornell sts. .	"	"	230
" " .	From Cornell st. ....	"	"	131
Lorraine st. ....	Between Belgrade and Colberg aves. ....	"	"	131
Newbern st. ....	At Bishop st. ....	"	"	28
Orange st. ....	Between Cornell and Brooks sts. ....	"	"	101
Park pl. ....	Off Myrtle st. ....	"	"	211
Paul Gore st. ....	At Chestnut ave. ....	"	"	19
Plainfield st. ....	At Brook road. ....	"	"	25
School st. ....	Between Copley and Amory sts. ....	"	"	59
South Fairview st.	" Roberts and Brookfield sts. ....	"	"	149
Taft st. ....	At Cohasset st. ....	"	"	4
Temple terrace .	Off Temple st. ....	"	"	3
Washington st. .	Between Morton and Tower sts. ....	"	"	456
Woodside ave. .	At Washington st. ....	"	"	119
Worley st. ....	Off Weld st. ....	"	"	4
Bowman st. ....	Between Blackwell and Chickatawbut sts.	Dor.	"	208
Brent st. ....	" Wainwright and Melbourne sts. .	"	"	24
Callender st. ....	" Tucker st. and railroad. ....	"	"	30
Ceylon st. ....	At Quincy st. ....	"	"	5
Chase st. ....	Between East Cottage and Willis st. ....	"	"	143
	<i>Carried forward</i> .....			5,484

Statement of Main Pipe Extended.—Continued.

LOCATION.		District.	Size.	Length.
<i>Brought forward</i> .....				5,484
Chase st.....	From Willis st.....	Dor.	6-in.	194
Coleman st.....	Between Draper ct. and Quincy st.....	"	"	145
" ".....	" Quincy and Trent sts.....	"	"	152
Conrad st.....	Off Sumner st.....	"	"	237
Dawson st.....	From Templeton st.....	"	"	178
Denvir st.....	Between Edwin and Lonsdale sts.....	"	"	204
Draper st.....	" Homes ave. and Bowdoin st....	"	"	493
" ct.....	" Bowdoin and Clarkson sts.....	"	"	323
Folsom st.....	From Robin Hood st.....	"	"	98
Halborn st.....	Off West Selden st.....	"	"	4
Harlem st.....	" Greenwood st.....	"	"	187
" " (H.S.)..	Between Glenway and Greenwood sts....	"	"	428
Harvest st.....	From Willowood st.....	"	"	151
Intervale st.....	Between Blue Hill ave. and Normandy st..	"	"	8
Kineo st.....	Off Magnolia st.....	"	"	152
Quincefield st.....	Between Humphreys st. and Humphreys sq.....	"	"	157
" ".....	Between Humphreys st. and Humphreys sq.....	"	"	134
Roland road.....	Between Randolph road and Oakland st..	"	"	362
Shepton st.....	" Dorchester ave. and Florida st..	"	"	348
Unnamed st.....	Across West Selden st. 129 ft. south from 4th Post Hydrant from Morton st.....	"	"	49
" ".....	Across West Selden st. 175 ft. from 2d Post Hydrant from Morton st.....	"	"	49
" ".....	Off Barry st. near Richfield st.....	"	"	20
Wales pl.....	" Columbia road.....	"	"	184
Woodcliff st.....	" Howard ave.....	"	"	34
Woodward Pk. st.	Between Folsom st. and Howard ave....	"	"	82
Albert st.....	From Kemp st.....	So. B.	"	176
Blake pl.....	Off Boston st.....	"	"	160
Champney st.....	From Newman st.....	"	"	168
Hamlin st.....	Between Eighth and Ninth sts.....	"	"	36
Tuckerman st.....	Off Dorchester st.....	"	"	55
Bothwell road....	From Faneuil st.....	Brl.	"	200
" ".....	Between Faneuil st. and Hobson road....	"	"	356
Corinne road.....	Off Raneleigh road.....	"	"	150
<i>Carried forward</i> .....				11,158

Statement of Main Pipe Extended.—*Concluded.*

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			11,158
Donnybrook road	From Faneuil st .....	Bri.	6-in.	283
" "	Between Faneuil and Hobson sts.....	"	"	606
Dunboy st .....	" Webster and Hardwick sts .....	"	"	236
Elko st .....	At Cambridge st .....	"	"	48
High Rock way...	Between Webster and Allston sts.....	"	"	358
Unnamed st.....	Nearly opposite Telford st.....	"	"	3
" "	Off Wallingford road (400 ft. from Commonwealth ave.).....	"	"	2
Antrim st .....	Off Ashley st.....	E. B.	"	38
Ida st .....	" Ruth st.....	"	"	3
Lewis st.....	Between Webster and Sumner sts.....	"	"	307
Wordsworth st....	Between Saratoga and Pond sts.....	"	"	108
Moon Island .....	Boston Harbor.....	B. H.	"	36
	Total 6-inch .....			13,186
Head pl.....	Rear Tremont Theatre.....	C. P.	4-in.	13
Whittier st.....	Between Columbus ave. and Ruggles st....	Rox.	"	60
	Total 4-inch .....			73

## Statement of Location, Size, and Number of Feet of Main Pipe Relaid during the Year ending January 31, 1901, and Former Size of the Same.

LOCATION.		District.	Size.	Length.	Former Size.
Clinton road.....	At Dean road.....	Bk'line.	48-in.	12	48-in.
" " .....	" " " .....	"	"	19	"
" " .....	" " " .....	"	"	7	"
" " .....	" Summer road.....	"	"	5	"
" " .....	" " " .....	"	"	5	"
	Total 48-inch.....			48	
Tremont st.....	At Boylston st.....	C. P.	36-in.	9	36-in.

Statement of Main Pipe Relaid. — *Continued.*

LOCATION.		District.	Size.	Length.	Former Size.
Tremont st.....	Between Boylston and La Grange sts.....	C. P.	30-in.	9	30-in.
" ".....	At Castle sq. and over railroad bridge.....	"	"	37	"
" ".....	Opposite Hollis st.....	"	"	12	"
Cambridge st.....	At Sever st.....	Chsn.	"	19	"
" ".....	Between Sever and Perkins sts.....	"	"	407	"
Perkins st.....	Between Cambridge and Brighton sts.....	"	"	446	"
Chestnut Hill ave..	Over B. & A. Railroad.....	Bk'line.	"	94	"
	Total 30-inch.....			<u>1,018</u>	
Boylston st.....	At Berkeley st.....	C. P.	20-in.	20	20-in.
Huntington ave...	" Exeter st.....	"	"	4	"
Tremont st.....	At Castle sq. and over railroad bridge.....	"	"	193	"
Boston st. (west side).....	Between Andrews sq. and Washburn st.....	So. B.	"	838	"
Boston st. (west side).....	At Washburn st.....	"	"	6	"
	Total 20-inch.....			<u>1,061</u>	
Atlantic ave.....	Opposite No. 257.....	C. P.	16-in.	16	16-in.
" ".....	" " 309.....	"	"	16	"
" ".....	Between Oliver and Commercial sts.....	"	"	3,329	12-in.
" ".....	At Pearl st.....	"	"	20	16-in.
Charles st.....	" Beacon st.....	"	"	4	"
Clinton st.....	" Atlantic ave.....	"	"	17	6-in.
" ".....	Between Atlantic ave. and Commercial st.....	"	"	659	"
" ".....	At Commercial st.....	"	"	70	"
Commercial st.....	" Clinton st.....	"	"	77	12-in.
" ".....	Between Prince st. and Atlantic ave.....	"	"	3,067	"
" ".....	At South Market st.....	"	"	3	16-in.
Hanover st.....	At Commercial st.....	"	"	25	12-in.
Hollis st.....	" Washington st.....	"	"	6	16-in.
Kneeland st.....	Between Utica and Albany sts....	"	"	365	6-in.
Summer st.....	" Dewey sq. and South st..	"	"	128	12-in.
" ".....	" Federal and Lincoln sts.	"	"	509	12-in.
	<i>Carried forward</i> .....			<u>8,311</u>	

## Statement of Main Pipe Relaid.—Continued.

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				8,311	
Tremont st. ....	At West st. ....	C. P.	16-in.	18	16-in.
Blue Hill ave. ....	Between Edgewood and Maywood sts. ....	Rox.	"	556	8-in.
Huntington ave. ....	At Parker st. ....	"	"	9	16-in.
Seaver st. ....	" Park View st. ....	"	"	3	"
Terrace st. ....	" Alleghany st. ....	"	"	4	"
" " .....	" Tremont st. ....	"	"	14	"
Centre st. ....	" South line of Lochstead ave. ....	W. Rox.	"	2	"
Corinth st. ....	Between Birch and Washington sts. ....	"	"	492	6-in.
Blue Hill ave. ....	At Harlem st. ....	Dor.	"	4	16-in.
" " " .....	75 feet south of Morton st. ....	"	"	3	"
" " " .....	35 feet north of Woolson st. ....	"	"	3	"
Talbot ave. ....	At Washington st. ....	"	"	3	"
" " .....	" " " .....	"	"	18	"
Boston st. (east side) .....	Between Andrews sq. and Rawson st. ....	So. B.	"	925	"
Boston st. (east side) .....	At Washburn st. ....	"	"	3	"
Dorchester ave. ....	Between Howell and Hyde sts. ....	"	"	1,266	12-in.
Swett st. ....	Between Andrews sq. and N. Y., N. H. & H. R. R. ....	"	"	532	"
" " .....	Between N. Y., N. H. & H. R. R. bridge and Magazine st. ....	"	"	46	"
Chestnut Hill ave. ....	At Commonwealth ave. ....	Bri.	"	3	16-in.
Western ave. ....	Between Everett and Market sts. ....	"	"	2,854	12-in.
East Boston reservoir .....	Brooks st. side. ....	E. B.	"	9	16-in.
Maverick st. ....	At London st. ....	"	"	5	"
Total 16-inch .....				15,084	
Albany st. ....	At Kneeland st. ....	C. P.	12-in.	17	12-in.
" " .....	" Massachusetts ave. ....	"	"	10	"
Atlantic ave. ....	" Pearl st. ....	"	"	5	"
" " .....	" South Market st. ....	"	"	6	"
" " (H. S.) .....	" Oliver st. ....	"	"	3	"
Beacon st. ....	" Beaver st. ....	"	"	3	"
" " .....	" Brimmer st. ....	"	"	5	"
<i>Carried forward</i> .....				49	



Statement of Main Pipe Relaid. — *Continued.*

LOCATION.		District	Size.	Length.	Former Size.
<i>Brought forward.....</i>				49	
Beacon st.....	Opposite No. 114.....	C. P.	12-in.	3	12 in.
“ “.....	Between Charles and Joy sts.....	“	“	1,202	6-in.
“ “.....	Between Clarendon and Berkeley sts.....	“	“	12	12-in.
“ “.....	187 feet west of Clarendon st.....	“	“	3	“
“ “.....	At Hereford st.....	“	“	6	“
“ “.....	Opposite No. 152.....	“	“	5	“
“ “.....	Near River st.....	“	“	8	“
Blackstone st.....	At Fulton st.....	“	“	5	12-in.
Boylston st. (H.S.)	50 feet west of Tremont st.....	“	“	13	“
“ “.....	At Head pl.....	“	“	4	“
“ “ (H.S.)	Between Tremont st. and Boylston pl.....	“	“	252	8-in.
“ “ (L.S.)	Between Tremont and Washington sts.....	“	“	565	6-in.
“ “.....	At Hereford st.....	“	“	3	8-in.
Broad st.....	“ Atlantic ave.....	“	“	12	“
Canton st. (East and West).....	Across Washington st.....	“	“	125	6-in.
Central wharf (south side).....	At Atlantic ave.....	“	“	30	8-in.
Charter st.....	“ Commercial st.....	“	“	21	6-in.
Chestnut st.....	Between Spruce and Willow sts.....	“	“	88	“
Clinton st.....	At Commercial st.....	“	“	4	12-in.
Commerce st.....	“ Atlantic ave.....	“	“	15	6-in.
Commercial st.....	“ Clark st.....	“	“	8	12-in.
“ “.....	“ “ “.....	“	“	13	“
“ “.....	Near Charter st.....	“	“	8	“
“ “.....	At Battery st.....	“	“	7	“
“ “.....	Between Prince st. and Atlantic ave.....	“	“	12	“
“ “.....	Between Richmond st. and Commercial wharf.....	“	“	14	“
Congress st.....	At Franklin st.....	“	“	5	“
Corning st.....	Between Wheeler and Porter sts.....	“	“	317	6-in.
Devonshire st.....	“ State and Water sts.....	“	“	456	“
Federal st.....	At Summer st.....	“	“	8	12-in.
Fleet st.....	“ Commercial st.....	“	“	25	“
<i>Carried forward.....</i>				3,298	

## Statement of Main Pipe Relaid.—Continued.

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				3,238	
Foster st.....	At Commercial st.....	C. P.	12-in.	12	6-in.
Franklin st. (L.S.)	Across Oliver st.....	"	"	53	"
Hanover st.....	At Commercial st.....	"	"	5	12-in.
Harrison ave.....	" Massachusetts ave.....	"	"	15	"
" " .....	" " " .....	"	"	7	"
" " .....	" Oak st.....	"	"	14	"
High st. (H.S.).....	" east line of Oliver st.....	"	"	4	"
" " (L.S.).....	" Summer st.....	"	"	60	6-in.
Hull st.....	" Commercial st.....	"	"	22	"
Joy st.....	At Pinckney st.....	"	"	6	12-in.
Lincoln st.....	" Summer st.....	"	"	25	6-in.
Massachusetts ave.	Between Albany and Washing- ton st.....	"	"	1,360	"
Massachusetts ave. (north side).....	Across Washington st.....	"	"	124	"
Merrimac st.....	At Causeway st.....	"	"	4	12-in.
Mt. Vernon st.....	" Louisburg sq.....	"	"	3	"
Newbury st.....	" Hereford st.....	"	"	3	"
Newton st. (East and West).....	Across Washington st.....	"	"	16	"
Newton st.....	At James st.....	"	"	6	"
Northampton st....	Across Washington st.....	"	"	20	"
North st.....	At Commercial st.....	"	"	52	8-in.
" " .....	" Barrett st.....	"	"	6	12-in.
" " .....	" Ferry st.....	"	"	7	"
Oliver st. (L. S.)...	Between Atlantic ave. and Frank- lin st.....	"	"	661	6 and 12-in.
Pinckney st.....	Between Joy and Anderson sts....	"	"	335	6-in.
Pleasant st.....	At Kirkland st.....	"	"	3	12-in.
" " .....	" Porter st.....	"	"	90	"
Richmond st.....	" Atlantic ave.....	"	"	15	8-in.
" " .....	" Commercial st.....	"	"	48	"
School st.....	" Washington st.....	"	"	4	12-in.
South Market st....	Between Atlantic ave. and Com- mercial st.....	"	"	756	6-in.
" " " .....	At Atlantic ave.....	"	"	12	12-in.
South st .....	" Summer st.....	"	"	19	8-in.
<i>Carried forward</i> .....				7,074	

Statement of Main Pipe Relaid. — Continued.

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				7,074	
Spruce st.....	At Beacon st.....	C. P.	12-in.	6	12-in.
“ “.....	Between Beacon and Chestnut sts.	“	“	307	4-in.
State st.....	At Atlantic ave.....	“	“	16	8-in.
Tremont st.....	Opposite Van Rensselaer pl.....	“	“	4	12-in.
“ “.....	At Union Park st.....	“	“	3	“
Washington st.....	“ Canton st.....	“	“	7	6 and 12-in.
“ “.....	“ North side Massachusetts ave..	“	“	5	12-in.
Washington st. (east side).....	Between Northampton and East Canton sts.....	“	“	2,192	6-in.
Water st.....	At Devonshire st.....	“	“	4	12-in.
Worcester st.....	Across Washington st.....	“	“	116	6-in.
Alleghany st.....	Between Parker and Terrace sts..	Rox.	“	325	4-in.
Beacon st.....	Between Charlesgate West and Raleigh st.....	“	“	585	6 and 8-in.
Blue Hill ave.....	At Clifford st.....	“	“	3	12-in.
“ “ “.....	“ Julian st.....	“	“	10	“
Brookline ave.....	Near Peabody st.....	“	“	3	“
Bucknam st.....	Between Lawn and Wensley sts..	“	“	5	“
Calumet st.....	Near Parker Hill ave.....	“	“	3	“
Charlesgate, West.	At Beacon st.....	“	“	48	8-in.
Clifford st.....	Between Blue Hill ave. and War- ren st.....	“	“	1,206	6-in.
Columbus ave.....	At Roxbury st.....	“	“	12	12-in.
“ “.....	“ Tremont st.....	“	“	8	“
Crawford st.....	“ Hollander st.....	“	“	3	“
Creighton st.....	From Centre st.....	“	“	4	“
“ “.....	At Day st.....	“	“	6	“
“ “.....	“ Sunnyside terrace.....	“	“	3	“
Day st.....	“ Creighton st.....	“	“	4	“
“ “.....	“ Hutchins ave.....	“	“	4	“
“ “.....	“ Minden st. and Round Hill st. ...	“	“	97	“
“ “.....	“ north line of Creighton st.....	“	“	3	“
Dewey st.....	“ Blue Hill ave.....	“	“	8	“
Edgewood st.....	“ “ “ “.....	“	“	3	“
Fort ave.....	Near Highland Park.....	“	“	4	“
<i>Carried forward</i> .....				12,081	

Statement of Main Pipe Relaid. — *Continued.*

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				12,081	
Heath st.....	At South Huntington ave.....	Rox.	12-in.	10	12-in.
Huntington ave....	" Kempton st.....	"	"	6	"
Lawn st.....	Between Hayden and Bucknam sts.....	"	"	3	"
New Heath st. (south side).....	At Centre st.....	"	"	3	"
Northampton st....	West line of Albany st.....	"	"	3	"
Parker st.....	Between Ruggles and Ward sts...	"	"	6	"
Parker Hill ave....	Near Calumet st.....	"	"	3	"
" " "	At Fisher ave.....	"	"	3	"
Roxbury st.....	" Gardner st.....	"	"	20	"
South Huntington ave.....	" Heath st.....	"	"	8	"
Tremont st.....	Between Columbus ave. and Parker st.....	"	"	281	6- and 12-in.
Warren st.....	At Clifford st.....	"	"	13	12-in.
Westminster st....	Between Williams and Sterling sts.	"	"	208	6-in.
Beech st.....	Between Belgrade and New Park ave.....	W. R.	"	8	12-in.
Birch st.....	At Penfield st.....	"	"	31	8-in.
Centre st.....	" Grovenor road.....	"	"	3	12-in.
Gardner st.....	" 1st Post Hydrant from Baker st.	"	"	6	"
" "	" 2d " " " " " "	"	"	8	"
" "	" 3d " " " " " "	"	"	5	"
Hyde Park ave....	" Larch pl.....	"	"	6	"
Keyes st.....	Across South st.....	"	"	10	"
La Grange st.....	At Pleasant st.....	"	"	10	"
Pelton st.....	Near Irving st.....	"	"	7	"
Pond st.....	At Grovenor road.....	"	"	3	"
South st.....	Opposite Childs st.....	"	"	3	"
" "	" Keyes st.....	"	"	6	"
Washington st....	At Arborway.....	"	"	6	"
" "	" Boylston st.....	"	"	12	"
" "	" Union ave.....	"	"	8	"
Adams st.....	Near Minot st.....	Dor.	"	36	"
" "	Opposite Wrentham st.....	"	"	3	"
Barry st.....	Between Hamilton and Richfield sts.....	"	"	167	6-in.
<i>Carried forward</i> .....				12,986	

Statement of Main Pipe Relaid. — *Continued.*

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				12,986	
Centre st .....	At Washington st.....	Dor.	12-in.	7	12 in.
Dorchester ave....	Opposite No. 1021 .....	"	"	5	"
" " .....	50 feet south of Mayfield st.....	"	"	3	"
East Cottage st....	At Chase st.....	"	"	4	"
Geneva ave .....	South line of Holiday st.....	"	"	3	"
" " .....	90 feet from " " .....	"	"	3	"
Glenway st .....	At Harlem st.....	"	"	4	"
Lauriat ave.....	550 feet east of Blue Hill ave.....	"	"	3	"
" " .....	195 " " " " " " .....	"	"	3	"
Lawrence ave .....	At No. 37 .....	"	"	4	"
" " .....	" Lawrence pl .....	"	"	4	"
Magnolia st .....	" Quincy st .....	"	"	12	"
Morton st .....	" south line of West Selden st ..	"	"	4	"
Norfolk st .....	" Harlem st.....	"	"	3	"
Quincy st .....	Between Columbia road and Mag- nolia st.....	"	"	850	8-in.
Westville st.....	100 feet west of Ditson st.....	"	"	6	12-in.
A st .....	At Binford st.....	So. B.	"	13	"
Boston st.....	At Blake pl.....	"	"	3	"
Boston st. (west side) .....	Between Ellery and Rawson sts. .	"	"	623	"
Boston st. (west side) .....	At Washburn st.....	"	"	3	"
Boston st. (west side) .....	Opposite " " .....	"	"	6	"
Summer st.....	At E st .....	"	"	3	"
Brooks st .....	At Crosby st .....	Bri.	"	3	"
Cambridge st .....	195 feet west of Eleanor st.....	"	"	3	"
" " .....	At Elko st.....	"	"	3	"
" " .....	100 ft. east of Elko st.....	"	"	3	12-in.
" " .....	Opposite Dustin st.....	"	"	3	"
" " .....	At Rodney st .....	"	"	3	"
" " .....	80 ft. east of Webster st.....	"	"	3	"
Chestnut Hill ave..	At City Yard.....	"	"	3	"
Everett st.....	" Aldie st.....	"	"	4	"
" " .....	" Pearl st.....	"	"	4	"
Faneuil st.....	" Bothwell road .....	"	"	3	"
<i>Carried forward</i> .....				14,590	

Statement of Main Pipe Relaid. — *Continued.*

LOCATION.		District.	Size.	Length.	Former size.
	<i>Brought forward</i> .....			14,590	
Faneull st.....	At Donnybrook road.....	Bri.	12 in.	3	12-in.
“ “.....	Between Hobart and Parsons sts..	“	“	3	“
“ “.....	At Newcastle road.....	“	“	3	“
Harvard ave.....	“ Holmes ave.....	“	“	4	“
Kenrick st.....	Opposite Ice House.....	“	“	3	“
Market st.....	At Western ave.....	“	“	37	“
North Beacon st..	“ Parsons st.....	“	“	15	“
Brighton st.....	“ Cambridge st.....	Chsn.	“	115	6-in.
“ “.....	Between Perkins and Cambridge sts.....	“	“	478	“
Cambridge st.....	Between Rutherford ave. and Carter st.....	“	“	1,147	8-in.
Crafts st.....	At Cambridge st.....	“	“	4	6-in.
Haverhill st.....	“ Main st.....	“	“	5	“
“ “.....	Between Main and Perkins sts....	“	“	527	“
“ “.....	At Perkins st.....	“	“	185	“
Kingston st.....	From Cambridge st.....	“	“	32	“
Perkins st.....	Between Brighton st. and B. & M. R.R.....	“	“	127	“
“ “.....	Between Cambridge and Haverhill sts.....	“	“	200	6 and 8-in.
Union st.....	Between Front and Washington sts.....	“	“	190	8-in.
Water st.....	At north line of entrance to Pier No. 4.....	“	“	3	12-in.
“ “.....	At South line of entrance to Pier No. 4.....	“	“	3	“
Bennington st....	521 ft. west of Leyden st.....	E. B.	“	7	“
Breed st.....	At Ashley st.....	“	“	7	“
Chelsea st.....	North of Putnam st.....	“	“	4	“
Frankfort st.....	Near Maverick st.....	“	“	7	“
Lewis st.....	Between Sumner and Marginal sts.	“	“	483	“
“ “.....	At Sumner st.....	“	“	15	“
Maverick st.....	East of Orleans st.....	“	“	3	“
“ sq.....	At Sumner st.....	“	“	27	“
Meridian st.....	“ London st.....	“	“	11	“
Porter st.....	“ “ “.....	“	“	3	“
Shelby st.....	At Saratoga st.....	“	“	3	“
	<i>Carried forward</i> .....			18,244	

Statement of Main Pipe Relaid.—Continued.

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				18,244	
Summer st.....	At Lewis st.....	E. B.	12-in.	3	12-in.
“ “.....	“ “ “.....	“	“	50	“
“ “.....	“ London st.....	“	“	8	“
“ “.....	“ “ “.....	“	“	3	“
Total 12-inch.....				18,308	
Anderson st.....	Between Pinckney and Revere sts.	C. P.	10-in.	264	6-in.
East Brookline st..	At Washington st.....	“	“	28	“
East Concord st...	“ “ “.....	“	“	20	“
Hereford st.....	Between Beacon and Boylston sts.	“	“	1,206	“
Kirkland st.....	At Corning st.....	“	“	113	“
Purchase st. (L. S.)	Across Oliver st.....	“	“	54	“
Utica st.....	Between Kneeland and Harvard sts.	“	“	547	“
West Brookline st.	At Washington st.....	“	“	19	“
West Concord st...	“ “ “.....	“	“	18	“
West Springfield st.....	“ “ “.....	“	“	18	“
Sterling st.....	“ Warwick st.....	Rox.	“	15	“
“ “.....	Across Westminster st.....	“	“	46	“
Warwick st.....	At Sterling st.....	“	“	48	“
Colberg ave.....	Between Rexhame and Arden sts.	W. R.	“	5	10-in.
Mt. Hope st.....	Between Folsom st. and Bradstreet ave.....	“	“	25	8-in.
Spring st.....	At Gould st.....	“	“	3	10-in.
Taylor st.....	“ N. Y., N. H. & H. Railroad....	Dor.	“	131	6-in.
Newcastle road....	Between Faneuil st. and Hobson road.....	Bri.	“	5	10-in.
Total 10-inch.....				2,565	
Barrett st.....	Between North and Fulton sts....	C. P.	8-in.	309	4-in.
Battery st.....	At Commercial st.....	“	“	45	6 and 8-in.
“ “.....	Between Commercial st. and North Ferry.....	“	“	333	4-in.
Boylston st. (H. S.)	At Bumstead ct.....	“	“	25	8-in.
“ “ (H. S.)	Between Tremont st. and Boylston pl.....	“	“	3	“
“ “ (H. S.)	Between Tremont and Washington sts.....	“	“	96	6-in.
<i>Carried forward</i> .....				811	

## Statement of Main Pipe Relaid.—Continued.

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				811	
Central st.....	At Atlantic ave.....	C. P.	8-in.	3	8-in.
Clark st.....	At Commercial st.....	"	"	5	"
" ".....	Between North and Commercial sts.....	"	"	172	6-in.
Commercial Wharf (E. and No. side)	East of Atlantic ave.....	"	"	5	6 and 8-in.
Commercial Wharf (north side).....	At Atlantic ave.....	"	"	46	4-in.
Commercial Wharf (south side).....	" " ".....	"	"	37	4-in.
Commercial Wharf (north side).....	Between Commercial st. and At- lantic ave.....	"	"	223	4-in.
Commercial st.....	At Clark st.....	"	"	8	8-in.
Dedham st.....	" Newland st.....	"	"	6	"
E. Springfield st...	" Washington st.....	"	"	21	6-in.
Ferry st.....	" Fulton st.....	"	"	21	"
" ".....	Between North and Fulton sts....	"	"	295	4-in.
Fort Hill Sq. (L.S.)	Across Oliver st.....	"	"	18	6-in.
Fulton st.....	Between Clinton and Lewis sts....	"	"	1,234	"
Henchman st.....	At Commercial st.....	"	"	6	8-in.
India sq.....	" Atlantic ave.....	"	"	13	6-in.
India st.....	" " ".....	"	"	25	4-in.
Lincoln st.....	" Kneeland st.....	"	"	27	6-in.
Massachusetts ave. (south side).....	" east side Washington st.....	"	"	7	"
Massachusetts ave. (south side).....	" west " " ".....	"	"	9	"
Mercantile st.....	" Clinton st.....	"	"	5	8-in.
Myrtle st.....	" Anderson st.....	"	"	9	"
Porter st.....	" Pleasant st.....	"	"	73	4 and 6-in.
Rutland st.....	" Washington st.....	"	"	28	6-in.
Union Wharf.....	" Commercial st.....	"	"	12	"
Union Park st.....	Between Shawmut ave. and Tre- mont st.....	"	"	685	"
Calmut st.....	At Darling st.....	Rox.	"	3	8-in.
Chestnut ave.....	" Wyman st.....	"	"	15	"
Day st.....	Between Hutchins ave. and Arcola st.....	"	"	12	"
" ".....	Opposite No. 88.....	"	"	3	"
<i>Carried forward</i> .....				3,837	



Statement of Main Pipe Relaid.—Continued.

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				3,837	
Day st.....	South line of Arcola st.....	Rox.	8-in.	3	8-in.
Elmwood st.....	Near Linden Park st. (over Stony brook).....	"	"	23	"
Granby st.....	At Bay State road.....	"	"	3	"
Harrishof st.....	Between Harold and Humboldt aves.....	"	"	8	"
Hillside st.....	At Darling st.....	"	"	5	"
Maywood st.....	" Blue Hill ave.....	"	"	32	6-in.
Mozart st.....	" Roys st.....	"	"	3	8-in.
Villa st.....	" Kenwood road.....	"	"	7	"
Wyman st.....	" Chestnut ave.....	"	"	11	"
Anawan ave.....	At Irving st.....	W. R.	"	12	"
Boylston ave.....	Over Stony brook.....	"	"	69	"
Chestnut ave.....	At Boylston st.....	"	"	12	"
" ".....	" Paul Gore st.....	"	"	5	"
Lawn st.....	" Mt. Hope st.....	"	"	7	"
Morton st.....	" Union terrace.....	"	"	9	"
" ".....	" Washington st.....	"	"	6	"
Mt. Hope st.....	" Lawn st.....	"	"	3	"
Perkins st.....	" Day st.....	"	"	6	"
Temple st.....	Opposite No. 124.....	"	"	3	"
" ".....	" " 194.....	"	"	3	"
" ".....	" " 233.....	"	"	5	"
Tower st.....	Hyde Park ave. and Forest Hills Cemetery.....	"	"	8	"
Union terrace.....	From Morton st.....	"	"	5	"
Adams st.....	Opp. No. 690, near Beaumont st.....	Dor.	"	5	"
Ballou ave.....	" " 60.....	"	"	3	"
" ".....	Near Mascot st.....	"	"	5	"
Elmhurst st.....	Between Norfolk st. and Southern ave.....	"	"	3	"
Florida st.....	Opposite Edwin st.....	"	"	4	"
Fowler st.....	Between Glenway and McLellan sts.....	"	"	6	6-in.
Homes ave.....	Opposite No. 10.....	"	"	12	8-in.
Kenwood st.....	At Washington st.....	"	"	8	"
Magdala st.....	Between Van Winkle and Codman sts.....	"	"	12	"
<i>Carried forward</i> .....				4,143	

Statement of Main Pipe Relaid.—Continued.

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward.</i>				4,143	
Magdala st.	Between Van Winkle and Codman sts.	Dor.	8-in.	12	8-in.
Marsh st.	From Granite ave.	"	"	5	"
Melville ave.	At Silloway st.	"	"	8	"
" "	" Washington st.	"	"	8	"
Robin Hood st.	" Folsom st.	"	"	3	"
Seaborn st.	Between Kenwood st. and Moultrie ave.	"	"	5	6-in.
Speedwell st.	Near Norton st.	"	"	5	8-in.
Templeton st.	At Dawson st.	"	"	3	"
" "	Between Dawson and Florida sts.	"	"	5	"
" "	At Florida st.	"	"	3	"
" "	Near Florida st.	"	"	8	"
" "	200 feet west of Florida st.	"	"	3	"
Wainwright st.	At Brent st.	"	"	19	"
" "	Between Centre st. and Welles ave.	"	"	186	6-in.
West Park st.	130 feet west of Washington st.	"	"	3	8-in.
Ellery st.	Between Boston and Dexter sts.	So. B.	"	762	6-in.
Newman st.	At Champney st.	"	"	3	8-in.
Rawson st.	Between Dorchester ave. and Boston st.	"	"	222	"
Washburn st.	Between Dorchester ave. and Boston st.	"	"	154	"
Chiswick road.	At Commonwealth ave. (south side)	Bri.	"	12	"
Commonwealth av.	" Idlewild st.	"	"	3	"
Corey road.	" Cummings road	"	"	3	"
Crosby st.	Between Brooks st. and Raneleigh road.	"	"	275	6-in.
Strathmore road.	Across Commonwealth ave.	"	"	46	8 and 12-in.
" "	Between Commonwealth ave. and Chiswick road	"	"	10	8-in.
Tremont st.	About 380 ft. from Washington st.,	"	"	26	6-in.
Western ave.	Between Everett and Market sts.	"	"	28	12-in.
Austin st.	Opposite No. 111.	Chsn.	"	3	8-in.
Cambridge st.	At Brighton st.	"	"	64	"
Front st.	7 ft. east of Lowry Hyd't at junction of Union st.	"	"	4	"
Ashley ave.	Opposite No. 25.	E. B.	"	7	"
<i>Carried forward.</i>				6,041	

Statement of Main Pipe Relaid.—Continued.

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				6,041	
Decatur st.....	At London st.....	E. B.	8-in.	9	8-in.
London st.....	Between Sumner and Bennington sts.....	"	"	2,726	6-in.
Deer Island.....	At Shirley Gut.....	B. II.	"	14	8-in.
Point Shirley.....	" " ".....	Winthr'p	"	72	"
Total 8-inch.....				<u>8,862</u>	
Acorn st.....	Between West Cedar and Willow sts.....	C. P.	6-in.	258	4-in.
Blackstone st.....	At Hanover st.....	"	"	2	6-in.
Blagden st.....	" Exeter st.....	"	"	4	"
Boylston st.....	" Hereford st.....	"	"	6	"
Broadway.....	Between Washington st. and Harrison ave.....	"	"	8	"
Bumstead ct.....	At Boylston st.....	"	"	6	"
Canton st. (East and West).....	Across Washington st.....	"	"	6	"
Charter st.....	At Commercial st.....	"	"	4	"
Chestnut st.....	Between Spruce and Willow sts...	"	"	10	"
Clarendon st.....	At St. James ave.....	"	"	8	"
Commercial st.....	" Clark st.....	"	"	5	"
Commercial Wharf (south side).....	Between Commercial st. and Atlantic ave.....	"	"	272	4-in.
Commonwealth av.	Opposite No. 122.....	"	"	6	6-in.
Corning st.....	Between Wheeler and Porter sts..	"	"	5	"
Eastern ave. (north side).....	At Commercial st.....	"	"	40	"
Eastern ave. (south side).....	" " ".....	"	"	3	"
Eastern ave.....	Opposite Cold Storage Building...	"	"	2	"
Fiske's wharf.....	At Commercial st.....	"	"	24	4-in.
Fulton st.....	" Barrett st.....	"	"	6	6-in.
" pl.....	" Fulton st.....	"	"	22	4 and 6-in.
Greenough lane...	" Commercial st.....	"	"	7	6-in.
Harrison ave.....	" Asylum st.....	"	"	6	"
Harvard st.....	" Utica st.....	"	"	10	"
Head place.....	" Boylston st.....	"	"	26	4 and 6 in.
" ".....	" " ".....	"	"	18	4-in.
<i>Carried forward</i> .....				<u>764</u>	

Statement of Main Pipe Relaid.—Continued.

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				764	
High st. (L.S.) ...	At Summer st.....	C. P.	6-in.	12	6-in.
“ “ .....	Between Summer and Federal st. .	“	“	6	“
Huntington ave....	At Blagden st. ....	“	“	6	“
James st. ....	“ Newton st. ....	“	“	6	“
John st.....	Between North and Fulton sts. ...	“	“	305	4-in.
Lowell pl.....	Off Tamworth st.....	“	“	13	“
Marlboro' st.....	At Hereford st. ....	“	“	3	6-in.
“ “ .....	“ “ “ .....	“	“	6	“
Newland st.....	“ Dedham st.....	“	“	29	6 and 4-in.
Northampton st....	“ N.Y., N.H. & H.R.R.....	“	“	9	4-in.
North Anderson st.	“ Parkman st. ....	“	“	12	6-in.
Northfield st. ....	Near Camden st. ....	“	“	11	“
North Grove st. ....	Between Cambridge and Parkman sts.....	“	“	6	“
Parkman st.....	At North Anderson st.....	“	“	11	“
Pinckney st. ....	Opposite Louisburg sq.....	“	“	4	“
Quincy row.....	“ Clinton st. ....	“	“	5	“
“ “ .....	“ South Market st. ....	“	“	3	“
Revere st.....	Between Anderson and Garden st.	“	“	8	“
Rowe's wharf.....	At Atlantic ave. ....	“	“	5	“
Salutation st. ....	“ Commercial st. ....	“	“	21	4-in.
Sargent's wharf....	“ “ “ .....	“	“	6	6-in.
Stillman st. ....	Between Charlestown st. and Stillman pl.....	“	“	34	“
“ pl.....	Off Stillman st. ....	“	“	5	4-in.
St. James ave. ....	At Clarendon st.....	“	“	3	6-in.
Tamworth st.....	Between Boylston and LaGrange st.....	“	“	159	4-in.
Union Park st. ....	Between Shawmut ave. and Tremont st.....	“	“	443	6-in.
Utica st. ....	Between Kneeland and Harvard sts.....	“	“	21	“
Village st. ....	At Dover st. ....	“	“	6	“
Washington st....	Nearly opposite Flagg st.....	“	“	10	“
Wheeler st.....	At Corning st.....	“	“	5	“
Willow st.....	Between Chestnut and Acorn sts..	“	“	137	4-in.
Akron st.....	Between Alpine and Circuit sts...	Rox.	“	3	6-in.
<i>Carried forward</i> .....				2,077	

Statement of Main Pipe Relaid. — *Continued*

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				2,077	
Alleghany st. ....	Between Parker and Pontiac sts. . . . .	Rox.	6 in.	16	6 in.
“ “ .....	Between Parker and Terrace sts. . . . .	“	“	5	“
Batavia st. ....	At St. Stephen st. ....	“	“	8	“
Bickford ave. ....	“ Heath st. ....	“	“	4	“
“ “ .....	“ Minden st. ....	“	“	6	“
Cardington st. ....	“ Fenner st. ....	“	“	3	“
Cedar st. ....	“ Centre st. ....	“	“	12	“
Centre st. ....	“ Cedar st. ....	“	“	12	“
“ “ .....	“ Gardner st. ....	“	“	8	“
“ “ .....	“ New Heath st. ....	“	“	3	“
Creighton st. ....	From Centre st. ....	“	“	14	“
Dale st. ....	At Warren st. ....	“	“	4	“
Day st. ....	“ Grotto Glen. ....	“	“	3	“
Dunford st. ....	“ Fenner st. ....	“	“	3	“
Echo st. ....	“ Centre st. ....	“	“	5	“
Field st. ....	Opposite No. 21 .....	“	“	8	“
Fullerton st. ....	Between Fairhaven st. and Brookline ave. ....	“	“	3	“
Gardner st. ....	At Centre st. ....	“	“	6	“
“ “ .....	“ Roxbury st. ....	“	“	13	“
Gayland ave. ....	Between West Cottage and Judson st. ....	“	“	3	“
Greenwich st. ....	Near Westminster st. (opposite No. 21) .....	“	“	3	“
Grotto Glen. ....	At Day st. ....	“	“	8	“
Hammond st. ....	“ Warwick st. ....	“	“	3	“
“ “ .....	“ Westminster st. ....	“	“	7	“
Heath st. ....	“ Bickford ave. ....	“	“	8	“
Hutchings st. ....	“ Graham st. ....	“	“	3	“
Kenwood road. ....	At unnamed st., first right from Huntington ave. ....	“	“	3	“
Kempton st. ....	Between Huntington ave. and Kenwood road. ....	“	“	47	“
King st. ....	Near Crossin pl. ....	“	“	3	“
Minden st. ....	At Posen st. ....	“	“	3	“
“ “ .....	“ Heath pl. ....	“	“	2	“
Mindora st. ....	Opposite No. 24 .....	“	“	6	“
<i>Carried forward</i> .....				2,312	

## Statement of Main Pipe Relaid.—Continued.

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				2,312	
Mt. Pleasant ave....	Opposite No. 60.....	Rox.	6-in.	6	6-in.
New Heath st. (No. side).....	Opposite Centre st.....	"	"	10	"
Parker st.....	At Alleghany st.....	"	"	8	"
Park View st.....	Between Seaver and Hutchings sts.	"	"	8	"
Sawyer st.....	Opposite Parnell st.....	"	"	3	"
Sterling st.....	Across Westminster st.....	"	"	12	"
Swett st.....	Between Albany st. and Massachusetts ave	"	"	22	"
Wait st.....	Between Huntington ave. and Pequot st.....	"	"	7	"
" "	At Pequot st.....	"	"	3	"
Warwick st.....	" Cabot pl.....	"	"	3	"
" "	" Hammond st.....	"	"	3	"
" "	Opposite Greenwich st.....	"	"	11	"
" "	At Sterling st.....	"	"	12	"
" "	" Weston st.....	"	"	12	"
" "	" " ".....	"	"	3	"
" "	" Windsor st.....	"	"	15	"
Waumbeck st.....	Between Harold st and Humboldt ave.....	"	"	8	"
Westminster st.....	At Hammond st.....	"	"	3	"
" "	" Windsor st.....	"	"	9	"
" "	Between Williams and Sterling sts.....	"	"	16	"
Windsor st.....	At Warwick st.....	"	"	6	"
Woodcliff st.....	" Blue Hill ave.....	"	"	6	"
Wyman st.....	" Chestnut ave.....	"	"	13	"
Brookfield st.....	" South Fairview st.....	W. R.	"	4	"
Burnett st.....	" the bend in the street.....	"	"	7	"
Carolina ave.....	Between Lee and South sts.....	"	"	9	"
Cohasset st.....	At Corinth st.....	"	"	8	"
Corinth st.....	" Cohasset st.....	"	"	15	"
Grovenor road.....	From Centre st.....	"	"	5	"
Larch pl.....	Off Hyde Park ave.....	"	"	237	"
Myrtle st.....	At Park pl.....	"	"	3	"
Oakview ter.....	Opposite No. 47.....	"	"	9	"
<i>Carried forward</i> .....				2,808	

Statement of Main Pipe Relaid.—Continued.

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				2,808	
Orange st. ....	Between Cornell and Brooks st. . .	W. R.	6 in.	3	6 in.
Paul Gore st. ....	*At Chestnut ave. ....	"	"	15	"
School st. ....	Between Copley and Amory sts. . .	"	"	3	"
Union ave. ....	Opposite No. 20 . . . . .	"	"	6	"
Folsom st. ....	From Robin Hood st. ....	Dor.	"	15	"
Harlem st. (H.S.) . .	Between Glenway and Greenwood sts. ....	"	"	4	"
Willis st. ....	At Chase st. ....	"	"	10	"
Wrentham st. ....	Near Bruce st. ....	"	"	10	"
Bowdoin st. ....	At Draper ct. ....	"	"	3	"
Burt st. ....	175 feet west of Ashmont st. ....	"	"	7	"
Buttonwood st. ....	At Buttonwood ct. ....	"	"	6	"
Church pl. ....	At Washington st. ....	"	"	8	"
Coleman st. ....	Between Draper ct. and Quincy st. ....	"	"	4	"
Draper ct. ....	Between Bowdoin and Clarkson sts. ....	"	"	4	"
" st. ....	At Homes ave. ....	"	"	4	"
Ditson st. ....	130 feet north of Branch ave. ....	"	"	6	"
Drayton st.	At Quincy st. ....	"	"	3	"
Gibson st. ....	Junction of Adams st. ....	"	"	10	"
Johnson terrace . .	Off Lauriat ave. ....	"	"	12	"
Mather st. ....	At Silloway st.	"	"	3	"
Moultrie ave. ....	Junction of Seaborn st. ....	"	"	15	"
Rosedale st. ....	245 feet from Washington st. ....	"	"	3	"
Selden st. ....	Between Morton and Nelson sts. . .	"	"	38	"
Shafter st. ....	" Faxon and Waterlow sts.	"	"	6	"
Sumner st. ....	At Conrad st. ....	"	"	3	"
Tucker st. ....	" Lauriat ave. ....	"	"	7	"
Van Winkle st. ....	Opposite Magdala st.	"	"	15	"
Bolton st. ....	Between B and Dorchester sts. . .	So. B.	"	2,849	4 and 6 in.
Broadway (N. E. R.R. bridge) ....	" A and B sts. ....	"	"	34	6 in.
Dexter st. ....	At Ellery st. ....	"	"	13	"
Fourth st. ....	" C st. ....	"	"	3	"
Gates st. ....	Between Telegraph and Dorches- ter sts. ....	"	"	3	"
<i>Carried forward</i> .....				5,933	

## Statement of Main Pipe Relaid.—Continued.

LOCATION.		District.	Size.	Length.	Former Size.
	<i>Brought forward</i> .....			5,933	
Kemp st.....	Between Dorchester ave. and Albert sts. ....	So. B.	6-in.	109	6-in.
" " .....	Between Dorchester ave. and Railroad .....	"	"	190	"
M st. ....	At Columbia road.....	"	"	18	"
Telegraph st. ....	Between Gates and Old Harbor sts. ....	"	"	3	"
Tuckerman st.....	Off Dorchester st.	"	"	3	4-in.
Tudor st.....	Between B and D sts. ....	"	"	1,097	"
Baldwin pl.....	At Washington st.....	Brl.	"	7	6-in.
Braemore road ....	At Commonwealth ave. (south side) .....	"	"	6	"
Donnybrook road	Between Faneull and Hobson road.....	"	"	6	"
" " "	At first Post Hydrant from Faneull st.....	"	"	3	"
Hobart st. ....	At Raneleigh road.....	"	"	3	"
Spring st.....	Between George and Etna sts....	"	"	3	"
Webster st.....	At High Rock Way.....	"	"	3	"
Charles River ave..	Near Water st.....	Chsn.	"	4	"
Clinton pl.....	At Cambridge st. ....	"	"	4	"
" " .....	Opposite No. 8.....	"	"	4	"
Crafts st.....	At Cambridge st. ....	"	"	14	"
Haverhill st.....	" Main st. ....	"	"	4	"
Kingston st. ....	From Cambridge st. ....	"	"	189	"
Sever st. ....	At Haverhill st.....	"	"	4	"
Soley st. ....	Opposite No. 37.....	"	"	4	"
Spice st. ....	From Cambridge st. ....	"	"	219	"
Union st. ....	At Washington st.....	"	"	4	"
Bennington st. ....	East of Neptune st.....	E. B.	"	3	"
" " .....	West " " " .....	"	"	3	"
Brigham st.....	Between Ruth and Webster sts....	"	"	98	4-in.
Paris st. ....	Cor. Brooks st.....	"	"	4	6-in.
Princeton st. ....	Opposite No. 26 .....	"	"	4	"
" " .....	" " 48 .....	"	"	4	"
" " .....	West of Shelby st. ....	"	"	4	"
Ruth st.....	Between Brigham and Webster sts.	"	"	265	4-in.
Saratoga st.....	East of Prescott st. ....	"	"	3	6-in.
	<i>Carried forward</i> .....			8,217	



Statement of Main Pipe Relaid. — Concluded.

LOCATION.		District.	Size.	Length.	Former Size.
<i>Brought forward</i> .....				8,217	
Shelby st.....	At Saratoga st.....	E. B.	6-in.	3	6-in.
" ".....	" " ".....	"	"	4	"
Trenton st.....	" Brooks st.....	"	"	4	"
" ".....	Opposite No. 24.....	"	"	4	"
" ".....	" " 74.....	"	"	4	"
Webster st.....	At Lewis st.....	"	"	3	"
" ".....	Across Lewis st.....	"	"	16	"
Moon Island.....	Boston Harbor.....	B. H.	"	35	"
	Total 6 inch.....			8,290	
Head pl.....	Rear Tremont Theatre.....	C. P.	4-in.	5	4-in.
Newland st.....	Opposite No. 13.....	"	"	5	"
Public Alley No. 444.....	Off Hereford st.....	"	"	3	"
Salt lane.....	At Creek sq.....	"	"	2	"
Parker pl.....	" Terrace st.....	Rox.	"	8	"
Tuckerman st.....	Off Dorchester st.....	So. B.	"	9	"
	Total 4-inch.....			32	

Statement of Private Mains Laid and Abandoned during the Year ending January 31, 1901.

For Whom.	Where.	Size.	Length.
<b>LAID.</b>			
Boston Belting Co.....	Factory yard, cor. Tremont and Linden Park sts., Roxbury.....	3-in.	22 ft.
" " ".....	Factory yard, cor. Tremont and Linden Park sts., Roxbury.....	4-in.	82 ft.
" " ".....	Factory yard, cor. Tremont and Linden Park sts., Roxbury.....	6-in.	315 ft.
Penal Institutions.....	Deer Island, between old line of pipe near sign and new hospital, Ward C,	6-in.	15 ft.
" ".....	Deer Island, between old line of pipe near sign and new hospital, Ward C,	8-in.	257 ft.
<b>ABANDONED.</b>			
" ".....	Deer Island, between old line of pipe near sign and new hospital, Ward C,	6-in.	5 ft.
" ".....	Deer Island, between old line of pipe near sign and new hospital, Ward C,	8-in.	3 ft.

## Statement of Main Pipe Raised, Lowered, and Moved Laterally.

LOCATION.		District.	Size.	Length.	Raised, Lowered, or Moved.
Tremont st.....	Between Boylston and La Grange sts.	C. P.	30-in.	192	Raised and moved.
"	Between Warrenton and Pleasant sts.....	"	"	50	Moved.
Boston st. (west side).....	Between Andrew sq. and Washburn st.....	So. B.	20-in.	210	Raised.
Boston st. (east side).....	Between Andrew sq. and Rawson st...	"	16-in.	150	"
Boylston st. (low service).....	Between Tremont st. and Boylston pl.....	C. P.	12-in.	50	"
Dorchester ave....	At N. Y., N. H. & H. R.R. ....	S. B.	"	70	Lowered.
Frankfort st. ....	Near Maverick st.....	E. B.	"	50	Raised.
West Selden st....	Between Morton and Crossman sts...	Dor.	"	1,520	Lowered.
Woodlawn ave....	At West Selden st.....	"	"	30	"
Washburn st.....	Between Dorchester ave. and Boston st.....	S. B.	8-in.	75	Raised.
Rawson st.....	Between Dorchester ave. and Boston st.....	"	"	125	"
Lauriat st.....	At Callender st.....	Dor.	6-in.	70	Lowered.
Callender st.....	Between Tucker and Lauriat sts.....	"	"	100	"
Wordsworth st....	" Saratoga and Pond sts.....	E. B.	"	344	Raised.
Spice st.....	From Cambridge st.....	Chsn.	"	60	"
Kingston st.....	" ".....	"	"	75	"
Total number of feet.....				3,171	

## Statement of Location, Size, and Number of Feet of Main Pipe Abandoned during the Year ending January 31, 1901.

LOCATION.		District.	Size.	Length.
Clinton road.....	At Dean road.....	B'kline	48-in.	12
" "	" " ".....	"	"	19
" "	" " ".....	"	"	7
" "	" Summer road.....	"	"	5
" "	" " ".....	"	"	5
Total 48-Inch.....				48

Statement of Main Pipe Abandoned. — *Continued.*

LOCATION.		District.	Size.	Length.
Tremont st.....	At Boylston st.....	C. P.	36-in.	9
" ".....	Between Boylston and La Grange sts.....	"	30-in.	9
" ".....	At Castle sq. and over railroad bridge....	"	"	230
" ".....	Opposite Hollis st.....	"	"	12
Cambridge st.....	At Sever st.....	Chsn.	"	19
" ".....	Between Sever and Perkin sts.....	"	"	407
Chelsea bridge ...	South of north draw.....	"	"	75
Perkins st.....	Between Cambridge and Brighton sts.....	"	"	440
Chestnut Hill ave.,	Over Boston & Albany Railroad .....	B'kline	"	94
	Total 30-inch.....			<u>1,286</u>
Boylston st.....	At Berkeley st.....	C. P.	20-in.	20
Huntington ave...	" Exeter st.....	"	"	4
Boston st. (west side).....	Between Andrews sq. and Washburn st...	So. B.	"	838
Boston st. (west side).....	At Washburn st.....	"	"	6
	Total 20-inch.....			<u>868</u>
Atlantic ave.....	Opposite No. 257.....	C. P.	16-in.	16
" ".....	" No. 309.....	"	"	16
" ".....	At Pearl st.....	"	"	20
Charles st.....	" Beacon st.....	"	"	4
Commercial st....	" South Market st .....	"	"	3
Hollis st.....	" Washington st.....	"	"	6
Tremont st.....	" West st.....	"	"	18
Huntington ave...	" Parker st.....	Rox.	"	9
Seaver st.....	" Park View st.....	"	"	3
Terrace st.....	" Alleghany st.....	"	"	4
" ".....	" Tremont st.....	"	"	14
Centre st.....	South line of Lochstead ave.....	W. R.	"	3
Blue Hill ave.....	At Harlem st.....	Dor.	"	4
" " ".....	75 feet south of Morton st.....	"	"	3
" " ".....	35 feet north of Woolson st.....	"	"	3
Talbot ave.....	At Washington st.....	"	"	3
" ".....	" " ".....	"	"	18
Boston st. (east side).....	Between Andrews sq. and Washburn st...	S. B.	"	925
	<i>Carried forward</i> .....			<u>1,072</u>

## Statement of Main Pipe Abandoned.—Continued.

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			1,072
Boston st. (east side).....	At Washburn st.....	S. B.	16-in.	3
Chestnut Hill ave.....	" Commonwealth ave.....	Bri.	"	3
Alford st.....	" Maiden bridge, south of Syphon.....	Chsn.	"	400
Chelsea bridge.....	North draw.....	"	"	75
Malden bridge.....	From south side of Syphon at draw to sea wall.....	"	"	300
East Boston reservoir.....	Brooks-street side.....	E. B.	"	9
Maverick st.....	At London st.....	"	"	5
	Total 16-inch.....			<u>1,807</u>
Albany st.....	At Kneeland st.....	C. P.	12-in.	17
" ".....	" Massachusetts ave.....	"	"	10
Atlantic av. (H.S.).....	" Oliver st.....	"	"	3
" " ".....	Between Oliver and Commercial sts.....	"	"	3,364
" " ".....	At Pearl st.....	"	"	5
" " ".....	" South Market st.....	"	"	6
Beacon st.....	" Beaver st.....	"	"	3
" ".....	Between Clarendon and Berkeley sts.....	"	"	12
" ".....	At Brimmer st.....	"	"	5
" ".....	187 feet west of Clarendon st.....	"	"	3
" ".....	At Hereford st.....	"	"	6
" ".....	Near River st.....	"	"	8
" ".....	Opposite No. 114.....	"	"	3
" ".....	" " 152.....	"	"	5
Blackstone st.....	At Fulton st.....	"	"	5
Boylston st.....	" Head pl.....	"	"	4
" " (H. S.).....	50 feet west of Tremont st.....	"	"	13
Broad st.....	At Atlantic ave.....	"	"	12
Clinton st.....	" Commercial st.....	"	"	4
Commercial st.....	" Battery st.....	"	"	8
" ".....	" Clark st.....	"	"	13
" ".....	" " ".....	"	"	8
" ".....	Near Charter st.....	"	"	8
" ".....	At Clinton.....	"	"	77
" ".....	Between Prince st. and Atlantic ave.....	"	"	<u>3,079</u>
	<i>Carried forward</i> .....			6,681

Statement of Main Pipe Abandoned.—Continued.

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			6,681
Commercial st.....	Between Richmond st. and Commercial wharf.....	C. P.	12-in.	14
Congress st.....	At Franklin st.....	"	"	5
Federal st.....	" Summer st.....	"	"	8
Fleet st.....	" Commercial st.....	"	"	25
Hanover st.....	" " ".....	"	"	30
Harrison ave.....	" Massachusetts ave.....	"	"	7
" ".....	" " ".....	"	"	15
" ".....	" Oak st.....	"	"	13
High st. (H.S.)....	" East line of Oliver st.....	"	"	4
Joy st.....	" Pinckney st.....	"	"	6
Merrimac st.....	" Causeway st.....	"	"	4
Mt. Vernon st.....	" Louisburg sq.....	"	"	3
Newbury st.....	" Hereford st.....	"	"	3
Newton st.....	" James st.....	"	"	6
Newton st. (East and West).....	Across Washington st.....	"	"	16
Northampton st...	" " ".....	"	"	20
North st.....	At Barrett st.....	"	"	6
" ".....	" Ferry st.....	"	"	7
Oliver st. (L.S.)...	Between Atlantic ave. and Franklin st....	"	"	3
Pleasant st.....	At Kirkland st.....	"	"	3
" ".....	" Porter st.....	"	"	90
School st.....	" Washington st.....	"	"	4
Spruce st.....	" Beacon st.....	"	"	6
South Market st...	" Atlantic ave.....	"	"	22
Summer st.....	Between Dewey sq. and South st.....	"	"	128
" ".....	" Federal and Lincoln sts.....	"	"	509
Tremont st.....	At Union Park st.....	"	"	3
" ".....	Opposite Van Rensselaer pl.....	"	"	4
Washington st. (east side).....	At north side Massachusetts ave.....	"	"	5
Washington st. (east side).....	" Canton st.....	"	"	32
Water st.....	" Devonshire st.....	"	"	4
Blue Hill ave.....	" Clifford st.....	Rox.	"	3
" " ".....	" Julian st.....	"	"	10
	<i>Carried forward</i> .....			7,699

## Statement of Main Pipe Abandoned.—Continued.

LOCATION.		District.	Size.	Length.
<i>Brought forward</i> .....				7,699
Brookline ave.....	Near Peabody st.....	Rox.	12-in.	3
Bucknam st.....	Between Lawn and Wensley sts.....	"	"	5
Calumet st.....	At Parker Hill ave.....	"	"	3
Columbus ave.....	" Roxbury st.....	"	"	12
" ".....	" Tremont st.....	"	"	8
Crawford st.....	" Hollander st.....	"	"	3
Creighton st.....	From Centre st.....	"	"	4
" ".....	At Day st.....	"	"	6
" ".....	" Sunnyside terrace.....	"	"	3
Day st.....	" Creighton st.....	"	"	4
" ".....	North line of Creighton st.....	"	"	3
" ".....	At Hutchins ave.....	"	"	12
" ".....	Between Minden and Round Hill sts.....	"	"	97
Dewey st.....	At Blue Hill ave.....	"	"	8
Edgewood st.....	" " " ".....	"	"	3
Fort ave.....	Near Highland park.....	"	"	4
Heath st.....	At So. Huntington ave.....	"	"	10
Huntington ave.....	" Kempton st.....	"	"	6
Lawn st.....	Between Hayden and Bucknam sts.....	"	"	3
New Heath st. (so. side).....	At Centre st.....	"	"	3
Northampton st.....	West line of Albany st.....	"	"	3
Parker st.....	Between Ruggles and Ward sts.....	"	"	6
Parker Hill ave.....	Near Calumet st.....	"	"	3
" " ".....	At Fisher ave.....	"	"	3
Roxbury st.....	" Gardner st.....	"	"	22
S. Huntington ave.....	" Heath st.....	"	"	8
Terrace st.....	At Tremont st.....	"	"	43
Tremont st.....	Between Columbus ave. and Parker st.....	"	"	6
Warren st.....	" Clifford st.....	"	"	13
Beech st.....	Between Belgrade and New Park ave.....	W. R.	"	8
Centre st.....	At Grovenor road.....	"	"	3
Gardner st.....	1st Post Hydrant from Baker st.....	"	"	6
" ".....	2d " " " " ".....	"	"	8
" ".....	3d " " " " ".....	"	"	5
<i>Carried forward</i> .....				8,036

Statement of Main Pipe Abandoned.—Continued.

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			8,036
Hyde Park ave....	At Larch pl.....	W. R.	12-in.	6
Keyes st.....	Across South st.....	"	"	10
LaGrange st.....	At Pleasant st.....	"	"	10
Pelton st.....	Near Irving st.....	"	"	7
Pond st.....	At Grovenor road.....	"	"	3
South st.....	" Childs st.....	"	"	3
" ".....	Opposite Keyes st.....	"	"	6
Washington st.....	At Arborway.....	"	"	5
" ".....	" Boylston st.....	"	"	12
" ".....	" Union ave.....	"	"	8
Adams st.....	Near Minot st.....	Dor.	"	34
" ".....	Opposite Wrentham st.....	"	"	3
Centre st.....	At Washington st.....	"	"	7
Dorchester ave....	50 feet south of Mayfield st.....	"	"	3
" ".....	Opposite No. 1021.....	"	"	5
East Cottage st....	At Chase st.....	"	"	4
Geneva ave.....	South line of Holiday st.....	"	"	3
" ".....	90 feet from Holiday st.....	"	"	3
Glenway st.....	At Harlem st.....	"	"	4
Lauriat ave.....	550 feet east of Blue Hill ave.....	"	"	3
" ".....	135 feet east of Blue Hill ave.....	"	"	3
Lawrence ave....	At Lawrence place.....	"	"	4
" ".....	" No. 37.....	"	"	4
Magnolia st.....	" Quincy st.....	"	"	12
Morton st.....	" south line of West Selden st.....	"	"	4
Norfolk st.....	" Harlem st.....	"	"	3
Westville st.....	100 feet west of Ditson st.....	"	"	6
A st.....	At Binford st.....	So. B.	"	13
Boston st.....	" Blake pl.....	"	"	3
Boston st. (west side).....	Between Ellery and Rawson sts.....	"	"	623
Boston st. (west side).....	At Washburn st.....	"	"	3
Boston st. (west side).....	Opposite Washburn st.....	"	"	6
Congress st.....	Between Boston wharf and Sleeper st.....	"		33
	<i>Carried forward</i> .....			8,892

## Statement of Main Pipe Abandoned.—Continued.

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			8,892
Dorchester ave....	Between Howell and Hyde sts.....	So. B.	12-in.	1,266
Summer st.....	At E st.....	"	"	3
Swett st.....	Between Andrews sq. and N. Y., N. H. & H. R.R.....	"	"	532
" ".....	Between N. Y., N. H. & H. R.R. bridge and Magazine st.....	"	"	46
Brooks st.....	At Crosby st.....	Bri.	"	3
Cambridge st....	" Elko st.....	"	"	3
" ".....	100 feet east of Elko st.....	"	"	3
" ".....	Opposite Dustin st.....	"	"	3
" ".....	195 feet west of Eleanor st.....	"	"	3
" ".....	At Rodney st.....	"	"	3
" ".....	80 feet east of Webster st.....	"	"	3
Chestnut Hill ave.	At City Yard.....	"	"	3
Everett st.....	" Aldie st.....	"	"	4
" ".....	" Pearl st.....	"	"	4
Faneuil st.....	" Bothwell road.....	"	"	3
" ".....	" Donnybrook road.....	"	"	3
" ".....	Between Hobart and Parsons sts.....	"	"	3
" ".....	At Newcastle road.....	"	"	3
Harvard ave.....	" Holmes ave.....	"	"	4
Kenrick st.....	Opposite Ice House.....	"	"	3
Market st.....	At Western ave.....	"	"	43
North Beacon st..	" Parsons st.....	"	"	15
Parsons st.....	" Faneuil st.....	"	"	5
Strathmore road..	Across Commonwealth ave.....	"	"	165
Western ave.....	Between Everett and Market sts.....	"	"	2,871
Water st.....	At North line of entrance to Pier No. 4....	Chsn.	"	3
" ".....	" South line of entrance to Pier No. 4....	"	"	3
Bennington st....	273 feet west of Ashley st.....	E. B.	"	7
Breed st.....	At Ashley st.....	"	"	7
Chelsea st.....	North of Putnam st.....	"	"	4
Frankfort st.....	Near Maverick st.....	"	"	7
Lewis st.....	At Sumner st.....	"	"	15
" ".....	Between Sumner and Marginal sts.....	"	"	483
Maverick sq.....	At Sumner st.....	"	"	27
	<i>Carried forward</i> .....			14,445



Statement of Main Pipe Abandoned. — *Continued.*

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			14,445
Maverick st.....	East of Orleans st.....	E. B.	12-in.	3
Meridian st.....	At London st.....	"	"	11
Porter st.....	" " ".....	"	"	3
Shelby st.....	" Saratoga st.....	"	"	3
Sumner st.....	" Lewis st.....	"	"	3
" ".....	" " ".....	"	"	50
" ".....	" London st.....	"	"	8
" ".....	" " ".....	"	"	3
	Total 12-inch.....			<u>14,529</u>
Congress st.....	At Franklin st.....	C. P.	10-in.	6
Colberg st.....	Between Rexhame and Arden sts.....	W. R.	"	5
Spring st.....	At Gould st.....	"	"	3
Newcastle road....	Between Faneuil st. and Hobson road....	Br.	"	5
	Total 10-inch.....			<u>19</u>
Battery st.....	At Commercial st.....	C. P.	8-in.	5
Boylston st. (H. S.)	" Bumstead ct.....	"	"	25
" ".....	" Hereford st.....	"	"	3
" ".....	Between Tremont st. and Boylston pl.....	"	"	255
Central st.....	At Atlantic ave.....	"	"	19
Central wharf (so. side).....	" " ".....	"	"	30
Clark st.....	" Commercial st.....	"	"	12
Commercial whf. (north and east side).....	East of Atlantic ave.....	"	"	28
Commercial st.....	At Clark st.....	"	"	10
Dedham st.....	" Newland st.....	"	"	6
Henchman st.....	" Commercial st.....	"	"	48
Mercantile st.....	" Clinton st.....	"	"	5
Myrtle st.....	" Anderson st.....	"	"	9
North st.....	" Commercial st.....	"	"	70
Richmond st.....	" Atlantic ave.....	"	"	30
" ".....	" Commercial st.....	"	"	48
State st.....	" Atlantic ave.....	"	"	24
South st.....	" Summer st.....	"	"	19
	<i>Carried forward</i> .....			<u>646</u>

## Statement of Main Pipe Abandoned.—Continued.

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			646
Beacon st.....	Between Charlesgate West and Raleigh st.	Rox.	8 in.	37
Blue Hill ave.....	“ Edgewood and Maywood sts. ....	“	“	556
Calumet st.....	At Darling st.....	“	“	3
Charlesgate West.....	“ Beacon st.....	“	“	48
Chestnut ave. ....	“ Wyman st.....	“	“	15
Day st.....	South line of Arcola st. ....	“	“	3
“ “.....	Between Hutchins ave. and Arcola st. ....	“	“	165
“ “.....	At Hutchins ave.....	“	“	6
“ “.....	Opposite No. 88.....	“	“	3
Elmwood st.....	Near Linden Park st. (over Stony brook)	“	“	23
Granby st.....	At Bay State road.....	“	“	3
Harrishof st.....	Between Harold st. and Humboldt ave....	“	“	8
Hillside st.....	At Darling st.....	“	“	5
Mozart st.....	“ Roys st.....	“	“	3
Vila st.....	“ Kenwood road.....	“	“	7
Wyman st.....	“ Chestnut ave.....	“	“	7
Anawan ave.....	“ Irving st.....	W. R.	“	12
Birch st.....	“ Penfield st.....	“	“	29
Boylston ave.....	Over Stony brook.....	“	“	79
Chestnut ave.....	At Boylston st.....	“	“	13
“ “.....	“ Paul Gore st.....	“	“	5
Lawn st.....	“ Mt. Hope st.....	“	“	7
Morton st.....	“ Union terrace.....	“	“	9
“.....	“ Washington st.....	“	“	6
Mt. Hope st.....	Between Folsom st. and Bradstreet ave....	“	“	25
“ “ “.....	At Lawn st.....	“	“	3
Perkins st.....	“ Day st.....	“	“	6
Temple st.....	Opposite No. 124.....	“	“	3
“ “.....	“ “ 194.....	“	“	3
“ “.....	“ “ 233.....	“	“	5
Tower st.....	Between Hyde Park ave. and Forest Hills Cemetery.....	“	“	8
Union terrace.....	From Morton st.....	“	“	5
Adams st.....	Opposite No. 690, near Beaumont st.....	Dor.	“	5
Ballou ave.....	Near Mascot st.....	“	“	5
	<i>Carried forward</i> .....			1,766

Statement of Main Pipe Abandoned. — Continued.

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			1,766
Ballou ave.....	Opposite No. 60.....	Dor.	8 in.	3
Elmhurst st.....	Between Norfolk st. and Southern ave.....	"	"	3
Florida st.....	Opposite Edwin st.....	"	"	3
Homes ave.....	" No. 10.....	"	"	12
Kenwood st.....	At Washington st.....	"	"	8
Lyons st.....	" Callender st.....	"	"	12
Magdala st.....	Between Van Winkle and Codman st.....	"	"	12
" ".....	" " " " " " " ".....	"	"	12
Marsh st.....	From Granite ave.....	"	"	5
Melville ave.....	At Silloway st.....	"	"	8
" ".....	" Washington st.....	"	"	8
Quincy st.....	Between Columbia road and Magnolia st.....	"	"	850
Robin Hood st.....	At Folsom st.....	"	"	3
Speedwell st.....	Near Morton st.....	"	"	5
Templeton st.....	At Dawson st.....	"	"	3
" ".....	Between Dawson and Florida sts.....	"	"	5
" ".....	At Florida st.....	"	"	3
" ".....	Near " ".....	"	"	6
" ".....	200 feet west of Florida st.....	"	"	3
Wainwright st.....	At Brent st.....	"	"	19
West Park st.....	130 feet west of Washington st.....	"	"	3
Newman st.....	At Champney st.....	So. B.	"	3
Rawson st.....	Between Dorchester ave. and Boston st.....	"	"	222
Washburn st.....	" " " " " " " ".....	"	"	154
Austin st.....	Opposite No. 111.....	Chsn.	"	3
Cambridge st.....	At Brighton st.....	"	"	64
" ".....	Between Rutherford ave. and Carter st.....	"	"	158
Front st.....	7 ft. east of Lowry hydrant, junction of Union st.....	"	"	4
Perkins st.....	Between Cambridge and Haverhill sts.....	"	"	5
Union st.....	Between Front and Washington sts.....	"	"	190
Chiswick road.....	At Commonwealth ave. (south side).....	Bri.	"	12
Commonwealth ave.....	" Idlewild st.....	"	"	3
Corey road.....	" Cummings road.....	"	"	3
Strathmore road.....	Across Commonwealth ave.....	"	"	145
	<i>Carried forward</i> .....			3,718

Statement of Main Pipe Abandoned.— *Continued.*

LOCATION.		District.	Size.	Length.
<i>Brought forward</i> .....				3,718
Strathmore road..	Between Commonwealth ave. and Chickwick road.....	Brl.	8-in.	10
Ashley ave.....	Opposite No. 25.....	E. B.	"	7
Decatur st.....	At London st.....	"	"	9
Deer Island.....	" Shirley Gut.....	B. H.	"	14
Point Shirley.....	" ".....	Winthr'p	"	72
Total 8-inch.....				3,830
Anderson st.....	Between Pinckney and Revere sts.....	C. P.	6-in.	264
Battery st.....	At Commercial st.....	"	"	40
Beacon st.....	Between Charles and Joy sts.....	"	"	1,202
Blackstone st.....	" Hanover st.....	"	"	2
Blagden st.....	" Exeter st.....	"	"	4
Boylston st.....	" Hereford st.....	"	"	6
" " (H. S.)	Between Tremont and Washington sts.....	"	"	96
" " (L. S.)	" " " " " ".....	"	"	565
Broadway.....	Between Washington and Harrison ave..	"	"	8
Bumstead ct.....	At Boylston st.....	"	"	6
Canton st. (East and West).....	Across Washington st.....	"	"	131
Charter st.....	At Commercial st.....	"	"	21
" ".....	" " ".....	"	"	4
Chestnut st.....	Between Spruce and Willow sts.....	"	"	98
Clarendon st.....	At St. James ave.....	"	"	8
Clark st.....	Between North and Commercial sts.....	"	"	172
Clinton st.....	" Atlantic ave. and Commercial st..	"	"	659
" ".....	At Atlantic ave.....	"	"	32
Clinton st.....	" Commercial st.....	"	"	70
Commerce st.....	" Atlantic ave.....	"	"	25
Commercial wharf (north side).....	East of Atlantic ave.....	"	"	280
Commercial wharf (north and east sides).....	" " ".....	"	"	91
Commercial st.....	At Clark st.....	"	"	3
Commonwealth ave.....	Opposite No. 122.....	"	"	6
Corning st.....	Between Wheeler and Porter sts.....	"	"	320
<i>Carried forward</i> .....				4,113

Statement of Main Pipe Abandoned. — *Continued.*

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			4,113
Devonshire st. . . .	Between State and Water sts.....	C. P.	6-in.	456
Eastern ave.	Opposite Cold Storage Building.....	"	"	2
Eastern ave. (north side).....	At Commercial st.....	"	"	40
Eastern ave. (south side).....	" " ".....	"	"	43
East Brookline st..	At Washington st.....	"	"	67
East Concord st. . .	" " ".....	"	"	59
East Springfield st	" " ".....	"	"	60
Franklin st. (L.S.)	Across Oliver st.....	"	"	53
Ferry st.....	At Fulton st.....	"	"	21
Fort Hill sq. (L.S.)	Across Oliver st.....	"	"	18
Foster st.....	At Commercial st.....	"	"	56
Fulton st.....	" Barrett st.....	"	"	6
" ".....	Between Clinton and Lewis sts.....	"	"	1,234
Greenough lane... .	At Commercial st.....	"	"	47
Harrison ave.....	" Asylum st.....	"	"	6
Harvard st.....	" Utica st.....	"	"	10
Head pl.....	" Boylston st.....	"	"	18
Hereford st.....	Between Beacon and Boylston sts.....	"	"	1,206
High st. (L. S.)... .	At Summer st.....	"	"	81
" ".....	Between Summer and Federal sts.....	"	"	6
Hull st.....	At Commercial st.....	"	"	22
Huntington ave... .	" Blagden st.....	"	"	6
India sq.....	" Atlantic ave.....	"	"	27
James st.....	" Newton st.....	"	"	6
Kneeland st.....	Between Utica and Summer sts.....	"	"	365
Kirkland st.....	At Corning st.....	"	"	117
Lincoln st.....	" Kneeland st.....	"	"	35
" ".....	" Summer st.....	"	"	25
Marlboro' st.....	" Hereford st.....	"	"	3
" ".....	" " ".....	"	"	6
Massachusetts av.	Between Albany and Washington sts.....	"	"	1,360
Massachusetts av. (north side).....	Across Washington st.....	"	"	124
Massachusetts av. (south side).....	At east side of Washington st.....	"	"	46
	<i>Carried forward</i> .....			9,744

## Statement of Main Pipe Abandoned.—Continued.

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			9,744
Massachusetts av. (south side).....	At West side of Washington st.....	C. P.	6-in.	48
Newland st.....	" Dedham st.....	"	"	20
North Anderson st.....	" Parkman st.....	"	"	12
North Grove st....	Between Cambridge and Parkman st.....	"	"	6
Northfield st.....	Near Camden st.....	"	"	11
Oliver st. (L.S.)...	Between Atlantic ave. and Franklin st...	"	"	658
Parkman st.....	At North Anderson st.....	"	"	11
Pinckney st.....	Between Joy and Anderson sts.....	"	"	335
" ".....	Opposite Louisburg sq.....	"	"	4
Porter st.....	At Pleasant st.....	"	"	53
Purchase st. (L.S.)	Across Oliver st.....	"	"	54
Quincy row.....	At Clinton st.....	"	"	5
" ".....	" South Market st.....	"	"	3
Revere st.....	Between Anderson and Garden sts.....	"	"	8
Rowe's wharf.....	At Atlantic ave.....	"	"	4
Rutland st.....	" Washington st.....	"	"	67
Sargent's wharf...	" Commercial st.....	"	"	6
South Market st...	Between Atlantic ave. and Commercial st.	"	"	756
St. James ave.....	At Clarendon st.....	"	"	3
Union wharf.....	" Commercial st.....	"	"	12
Union Park st....	Between Shawmut ave. and Tremont st...	"	"	1,128
Utica st.....	" Kneeland and Harvard sts.....	"	"	568
Van Rensselaer pl. (L.S.).....	Off Tremont st.....	"	"	12
Village st.....	At Dover st.....	"	"	6
Washington st...	Nearly opposite Flagg st.....	"	"	10
Washington st. (east side).....	Between Northampton and East Canton st.....	"	"	2,192
Washington st. (east side).....	At Canton st.....	"	"	12
West Brookline st.	" Washington st.....	"	"	58
West Concord st...	" " ".....	"	"	57
Wheeler st.....	" Corning st.....	"	"	5
Willow st. (L.S.)..	Between Chestnut and Mt. Vernon sts....	"	"	27
West Springfield st.....	At Washington st.....	"	"	57
	<i>Carried forward</i> .....			15,952

Statement of Main Pipe Abandoned. — *Continued.*

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			15,952
Worcester st.....	Across Washington st.....	C. P.	6-in.	116
Aberdeen st.....	At Boston & Albany R.R.....	Rox.	"	5
Akron st.....	Between Alpine and Circuit sts.....	"	"	3
Alleghany st.....	" Parker and Pontiac sts.....	"	"	16
" ".....	" " " Terrace sts.....	"	"	5
Batavia st.....	At St. Stephen st.....	"	"	8
Beacon st.....	Between Charlesgate West and Raleigh st.	"	"	548
Bickford ave.....	At Heath st.....	"	"	4
Bickford st.....	" Minden st.....	"	"	6
Cardington st.....	" Fenner st.....	"	"	3
Cedar st.....	" Centre st.....	"	"	12
Centre st.....	" Cedar st.....	"	"	12
" ".....	" Gardner st.....	"	"	8
" ".....	" New Heath st.....	"	"	3
Clifford st.....	Between Blue Hill ave. and Warren st....	"	"	1,206
Creighton st.....	From Centre st.....	"	"	347
Dale st.....	At Warren st.....	"	"	4
Day st.....	" Grotto Glen.....	"	"	3
Dimock st.....	" Notre Dame st.....	"	"	4
Dunford st.....	" Fenner st.....	"	"	3
Echo st.....	" Centre st.....	"	"	5
Field st.....	Opposite No. 21.....	"	"	8
Fullerton st.....	Between Fairhaven st. and Brookline ave.	"	"	3
Gardner st.....	At Centre st.....	"	"	4
" ".....	" Roxbury st.....	"	"	18
Gayland ave.....	Between West Cottage and Judson sts....	"	"	3
Greenwick st.....	Near Westminster st. (opposite No. 21)....	"	"	3
Grotto Glen.....	At Day st.....	"	"	6
Hammond st.....	" Warwick st.....	"	"	3
" ".....	" Westminster st.....	"	"	7
Heath st.....	Between Bickford ave. and Parker st....	"	"	562
" ".....	At Bickford ave.....	"	"	8
Hutchings st.....	" Graham st.....	"	"	3
Kempton st.....	Between Huntington ave. and Kenwood road.....	"	"	47
	<i>Carried forward</i> .....			18,948

Statement of Main Pipe Abandoned. — *Continued.*

LOCATION.		District.	Size.	Length.
<i>Brought forward</i> .....				18,948
Kenwood road....	At unnamed st., 1st right from Huntington ave.....	Rox.	6-in.	3
King st.....	Near Crossin pl.....	"	"	3
Maywood st.....	At Blue Hill ave.....	"	"	32
Minden st.....	" Heath pl.....	"	"	2
" ".....	" Posen st.....	"	"	3
" ".....	Opposite No. 24.....	"	"	6
Mt. Pleasant ave..	" " 60.....	"	"	6
New Heath st. (north side).....	At Centre st.....	"	"	3
Parker st.....	" Alleghany st.....	"	"	3
Park View st.....	Between Seaver and Hutchings sts.....	"	"	8
Sawyer st.....	Opposite Parnell st.....	"	"	3
Sterling st.....	At Warwick st.....	"	"	15
" ".....	Across Westminster st.....	"	"	58
Swett st.....	Between Albany st. and Massachusetts ave.....	"	"	22
Tremont st.....	Between Columbus ave. and Parker st....	"	"	610
Wait st.....	" Huntington ave. and Pequot st.....	"	"	7
" ".....	At Pequot st.....	"	"	3
Warwick st.....	" Cabot pl.....	"	"	3
" ".....	Opposite Greenwich st.....	"	"	11
" ".....	At Hammond st.....	"	"	3
" ".....	" Sterling st.....	"	"	60
" ".....	" Weston st.....	"	"	3
" ".....	" " ".....	"	"	12
" ".....	" Windsor st.....	"	"	15
Waumbeck st.....	Between Harold st. and Humboldt ave....	"	"	8
Westminster st....	At Hammond st.....	"	"	3
" ".....	" Windsor st.....	"	"	9
" ".....	Between Williams and Sterling sts.....	"	"	224
Windsor st.....	At Warwick st.....	"	"	6
Woodcliff st.....	" Blue Hill ave.....	"	"	6
Wyman st.....	" Chestnut ave.....	"	"	13
Brookfield st.....	" South Fairview st.....	W. R.	"	4
Burnett st.....	" the bend in the st.....	"	"	7
<i>Carried forward</i> .....				20,132



## Statement of Main Pipe Abandoned.—Continued.

LOCATION.		District.	Size.	Length.
<i>Brought forward</i> .....				20,132
Carolina ave. ....	Between Lee and South sts. ....	W. R.	6-in.	9
Cohasset st. ....	At Corinth st. ....	"	"	14
Corinth st. ....	Between Birch and Washington sts. ....	"	"	492
" " ....	At Cohasset st. ....	"	"	13
Grovenor road...	From Centre st. ....	"	"	5
Larch pl. ....	Off Hyde Park ave. ....	"	"	245
Myrtle st. ....	At Park pl. ....	"	"	3
Oakview terrace..	Opposite No. 47. ....	"	"	8
Orange st. ....	Between Cornell and Brooks sts. ....	"	"	3
Paul Gore st. ....	At Chestnut ave. ....	"	"	15
School st. ....	Between Copley and Amory sts. ....	"	"	3
Union ave. ....	Opposite No. 20 ....	"	"	6
Barry st. ....	Between Hamilton and Richfield sts. ....	Dor.	"	167
Bowdoin st. ....	At Draper ct. ....	"	"	3
Burt st. ....	175 feet west of Ashmont st. ....	"	"	7
Buttonwood st...	At Buttonwood ct. ....	"	"	6
Church pl. ....	" Washington st. ....	"	"	8
Coleman st. ....	Between Draper ct. and Quincy st. ....	"	"	4
Ditson st. ....	130 feet north of Branch ave. ....	"	"	6
Draper ct. ....	Between Bowdoin and Clarkson sts. ....	"	"	4
" st. ....	At Homes ave. ....	"	"	4
Drayton st. ....	" Quincy st. ....	"	"	3
Folsom st. ....	From Robin Hood st. ....	"	"	15
Fowler st. ....	Between Glenway and McLellan sts. ....	"	"	6
Gibson st. ....	Junction of Adams st. ....	"	"	9
Johnson terrace..	Off Lauriat ave. ....	"	"	12
Harlem st. (H.S.),	Between Glenway and Greenwood sts ....	"	"	4
Mather st. ....	At Silloway st. ....	"	"	3
Moultrie ave. ....	Junction of Seaborn st. ....	"	"	15
Rosedale st. ....	245 feet from Washington st. ....	"	"	3
Seaborn st. ....	Between Kenwood st. and Moultrie ave. ....	"	"	5
Selden st. ....	" Morton and Nelson sts. ....	"	"	38
Shafter st. ....	" Faxon and Waterlow sts. ....	"	"	6
Sumner st. ....	At Conrad st. ....	"	"	3
Taylor st. ....	" N. Y., N. H. & H. R.R. ....	"	"	131
<i>Carried forward</i> .....				21,410



Statement of Main Pipe Abandoned.—Continued.

LOCATION.		District.	Size.	Length.
<i>Brought forward</i> .....				24,918
Haverhill st.....	At Perkins st.....	Chsn.	6-in.	185
Kingston st.....	From Cambridge st.....	"	"	221
Perkins st.....	Between Brighton and B. & M. R.R.....	"	"	127
" ".....	" Cambridge and Haverhill sts.....	"	"	195
Sever st.....	At Haverhill st.....	"	"	4
Spice st.....	From Cambridge st.....	"	"	219
Soley st.....	Opposite No. 37.....	"	"	4
Union st.....	At Washington st.....	"	"	4
Bennington st.....	East of Neptune st.....	B. B.	"	3
" ".....	West " " ".....	"	"	3
London st.....	Between Sumner and Bennington sts.....	"	"	2,726
Paris st.....	Corner of Brooks st.....	"	"	4
Princeton st.....	West of Shelby st.....	"	"	4
" ".....	Opposite No. 26.....	"	"	4
" ".....	" No. 48.....	"	"	4
Saratoga st.....	East of Prescott st.....	"	"	3
Shelby st.....	At Saratoga st.....	"	"	3
" ".....	" " ".....	"	"	4
Trenton st.....	" Brooks st.....	"	"	4
" ".....	Opposite No. 24.....	"	"	4
" ".....	" No. 74.....	"	"	4
Webster st.....	At Lewis st.....	"	"	3
" ".....	Across Lewis st.....	"	"	16
Moon Island.....	Boston Harbor.....	B. H.	"	35
Total 6-inch.....				<u>28,701</u>
Acorn st.....	Between West Cedar and Willow sts.....	C. P.	4-in.	258
Barrett st.....	" North and Fulton sts.....	"	"	309
Battery st.....	" Commercial st. and North Ferry.....	"	"	349
Commercial wharf (north side).....	At Atlantic ave.....	"	"	46
Commercial wharf (south side).....	" " ".....	"	"	37
Commercial wharf (north side).....	Between Commercial st. and Atlantic ave.....	"	"	223
Commercial wharf (south side).....	" " " " " ".....	"	"	272
<i>Carried forward</i> .....				<u>1,494</u>

Statement of Main Pipe Abandoned. — *Concluded.*

LOCATION.		District.	Size.	Length.
	<i>Brought forward</i> .....			1,494
Ferry st. ....	Between North and Fulton sts. ....	C. P.	4 in.	295
Fiske's wharf. ....	At Commercial st. ....	"	"	24
Fulton pl. ....	" Fulton st. ....	"	"	22
Head pl. ....	" Boylston st. ....	"	"	8
" " .....	" " " .....	"	"	18
" " .....	Rear Tremont Theatre. ....	"	"	5
India st. ....	At Atlantic ave. ....	"	"	41
John st. ....	Between North and Fulton sts. ....	"	"	305
Lincoln wharf. ....	At Commercial st. ....	"	"	40
Lowell pl. ....	Off Tamworth st. ....	"	"	13
Newland st. ....	At Dedham st. ....	"	"	9
" " .....	Opposite No. 13. ....	"	"	5
Northampton st. ..	At N. Y., N. H. & H. R.R. ....	"	"	9
Porter st. ....	" Pleasant st. ....	"	"	20
Public Alley No. 444. ....	Off Hereford st. ....	"	"	3
Salt lane .....	At Creek sq. ....	"	"	2
Salutation st. ....	" Atlantic ave. ....	"	"	42
Spruce st. ....	Between Beacon and Chestnut sts. ....	"	"	307
Stillman pl. ....	Off Stillman st. ....	"	"	5
Tamworth st. ....	Between Boylston and LaGrange sts. ....	"	"	159
Van Rensselaer pl. (L. S.) .....	Off Tremont st. ....	"	"	228
Willow st. (L. S.) ..	Between Chestnut and Acorn sts. ....	"	"	137
" " " .....	" " " Mt. Vernon sts. ....	"	"	100
Alleghany st. ....	" Parker and Terrace sts. ....	Rox.	"	325
Parker pl. ....	At Terrace st. ....	"	"	8
Bolton st. ....	Between B and Dorchester sts. ....	So. B.	"	2,532
Tuckerman st. ....	Off Dorchester st. ....	"	"	12
Tudor st. ....	Between B and D sts. ....	"	"	1,097
Brigham st. ....	" Ruth and Webster sts. ....	E. B.	"	98
Ruth st. ....	" Brigham and Webster sts. ....	"	"	265
	Total 4-inch. ....			7,928

**Maintenance Work of Miscellaneous Character Performed  
during the Year ending January 31, 1901.**

	Total Number during the Year.
Boxes covering main pipe on bridges repaired . . . . .	70
Brick gate chambers built (replacing wooden boxes) . . . . .	34
Brick gate chambers extended . . . . .	31
Calked joints for Metropolitan Water Board . . . . .	1
Dead ends blown off on account of bad water . . . . .	701
Fountain repairs . . . . .	450
Gate boxes cleaned of mud and water . . . . .	429
Gate boxes renewed in service . . . . .	216
Gate boxes repaired in service . . . . .	1,017
Gate covers salted in cold weather . . . . .	8,549
Gates oiled in service . . . . .	524
Gates removed in service on account of street railway tracks . . . . .	2
Gates renewed in service on account of deterioration . . . . .	2
Gates repaired in service an account of broken gates . . . . .	6
Gates repaired in service on account of defective screw . . . . .	8
Gates repaired in service on account of leaking gates . . . . .	136
Gates repaired in service on account of nuts worn out, . . . . .	19
Gates repaired in shop — renovation of old gates . . . . .	62
Gate spindles painted in service . . . . .	8
Gate stems extended on gates in service . . . . .	6
Gate stem extensions strengthened by brackets and clamps, while in service . . . . .	52
Gates in service tested for efficiency . . . . .	7,165
Hay removed from hydrant boxes . . . . .	402
Hydrant barrels changed in service for various reasons, . . . . .	210
Hydrant boxes cleared of mud and water . . . . .	1,747
Hydrant boxes renewed in service . . . . .	80
Hydrant boxes repaired in service . . . . .	569
Hydrants hayed as a protection in cold weather . . . . .	499
Hydrant inspections in cold weather . . . . .	179,103
Hydrants oiled in service . . . . .	1,147
Hydrants painted in service . . . . .	2,370
Hydrants repaired in service . . . . .	541
Hydrants in service tested for general efficiency . . . . .	6,511
Investigations made where nothing further was done by this Department . . . . .	907
Joints made for Sewer Division . . . . .	2
Labor expended to the amount of \$852.58 in watching mains on account of blasting.	
Location of gates marked . . . . .	3,286
Mains emptied . . . . .	2
Main pipe repairs caused by:	
Action of tide water . . . . .	5
Air cock broken . . . . .	3

	Total Number during the Year.
Air cock leaking . . . . .	8
Blasting . . . . .	4
Cap blown out . . . . .	2
Clamp sleeve leaking . . . . .	1
Clogged with rust . . . . .	1
Corrosion . . . . .	1
Culvert overflowing — settlement . . . . .	1
Defective pipe . . . . .	8
Frozen . . . . .	3
Insecure caps . . . . .	3
Insufficient support for large main . . . . .	1
Joints blown out . . . . .	6
Joints leaking — settlement . . . . .	113
Joints leaking — settlement of sewer . . . . .	2
Joints leaking — vibration of bridge . . . . .	5
Joints leaking — vibration of streets . . . . .	2
Joints leaking — vibration of tracks . . . . .	3
Joints weeping . . . . .	2
Leak — rust . . . . .	1
Pick hole . . . . .	3
Pile driver . . . . .	1
Rust hole in cement pipe . . . . .	7
Settlement . . . . .	29
Set screws loose . . . . .	1
Split . . . . .	10
Subway — settlement . . . . .	1
Syphon leaking . . . . .	2
Syphon required strengthening . . . . .	1
Worn out . . . . .	12
Main uprights established on old services . . . . .	79
Post hydrant blind outlets made serviceable . . . . .	96
Post hydrant tops changed from old to new pattern . . . . .	88
Service-pipe repairs caused by :	
Action of soil . . . . .	10
Blasting . . . . .	2
Broken by steam-roller . . . . .	8
Broken by foundation-wall . . . . .	65
Defective joints . . . . .	66
Defective pipes . . . . .	79
Defective packing . . . . .	32
Defective stop cocks . . . . .	389
Defective couplings . . . . .	92
Electrolytic action . . . . .	8
Frozen . . . . .	72
Gnawed by rats . . . . .	7
In way of various corporations . . . . .	292
Main cocks required renewal . . . . .	140
Pipe stolen . . . . .	9
Pipe worn out . . . . .	26

	Total Number during the Year.
Settlement of earth . . . . .	478
Sewer construction . . . . .	83
Sidewalk cocks required renewal . . . . .	249
Sidewalk uprights above or below grade . . . . .	8,858
Sidewalk uprights in way of edgestone . . . . .	98
Stopped by dirt . . . . .	123
Stopped by fish . . . . .	36
Stopped by gasket . . . . .	13
Stopped by rust . . . . .	576
Struck by pick . . . . .	237
Widening of streets . . . . .	62
Service pipes changed from iron to lead . . . . .	31
Service pipes extended on account of street widening, . . . . .	24
Sewer broken by this Department repaired . . . . .	1
Sidewalk cocks established upon old services . . . . .	64
Sidewalk uprights established upon old services . . . . .	64
Stand pipe at Mt. Bellevue cleaned inside . . . . .	1
Stand pipe at Orient Heights cleaned inside . . . . .	1
Street repairs . . . . .	1,268
Syphons pumped out . . . . .	4
Temperature in exposed pipe taken . . . . .	1
Water in large mains turned off and on . . . . .	28
Water in service pipes turned off and on for repairs . . . . .	274
Water post repairs . . . . .	1,057
Warning sign built at Rainsford Island . . . . .	1

STATEMENT OF STOCK MANUFACTURED FROM THE ROUGH,  
IN THE MACHINE AND CARPENTER SHOPS, DURING THE  
YEAR ENDING JANUARY 31, 1901.

MACHINE SHOP.

Valves:									
3-inch . . . . .	5				Water post couplings:				
4 " . . . . .	47				2-inch . . . . .	200			
6 " . . . . .	106				Plugs:				
8 " . . . . .	102				$\frac{5}{8}$ -inch . . . . .	336			
10 " . . . . .	23				$\frac{3}{4}$ " . . . . .	213			
12 " . . . . .	145				1 " . . . . .	3			
					$1\frac{1}{4}$ " . . . . .	1			
				428					
Corporation cocks:					Lowry hydrants . . . . .	553			
$\frac{5}{8}$ -inch . . . . .	2,394				Boston Lowry hydrants . . . . .	105			
$\frac{3}{4}$ " . . . . .	30				Ordinary post hydrants . . . . .	29			
1 " . . . . .	53				Ordinary post hydrants . . . . .	135			
$1\frac{1}{2}$ " . . . . .	97				Bachelor post hydrants . . . . .	131			
				2,574	Boston hydrants . . . . .	2			
Air cocks, 2-inch . . . . .				1	Hydrant wastes . . . . .	553			
Water post cocks:					Lowry hydrant bolts . . . . .	464			
$1\frac{1}{2}$ -inch . . . . .				2	Post hydrant bolts . . . . .	721			
Nipples:					Boston Lowry hydrant bolts . . . . .	200			
$\frac{5}{8}$ -inch . . . . .	25				Post hydrant extension bolts . . . . .	87			
$\frac{3}{4}$ " . . . . .	29				Lowry hydrant extension bolts . . . . .	40			
$1\frac{1}{2}$ " . . . . .	30			84	Post hydrant nipples . . . . .	44			
Meter nipples:					Fountain bolts . . . . .	3			
$\frac{3}{4}$ -inch . . . . .	78				Sidewalk uprights . . . . .	1,269			
$1\frac{1}{2}$ " . . . . .	20			98	Reducers, 3 x 2 . . . . .	52			
Coupling nuts:					Bent tubes, $1\frac{1}{2}$ -inch . . . . .	30			
$\frac{5}{8}$ -inch . . . . .	4,030				Set screws, $\frac{3}{4}$ -inch . . . . .	2,086			
$\frac{3}{4}$ " . . . . .	88				Hose packing, $2\frac{1}{2}$ -inch . . . . .	202			
1 " . . . . .	112				Washers, 2-inch . . . . .	146			
$1\frac{1}{4}$ " . . . . .	19				Washers, 3-inch . . . . .	146			
$1\frac{1}{2}$ " . . . . .	155				Hose tags . . . . .	41			
2 " . . . . .	124			4,528	Screws for gates, $\frac{9}{32}$ -inch . . . . .	3,110			
Coupling tubes:					Tee bolts for pumps . . . . .	25			
$\frac{5}{8}$ -inch . . . . .	4,865				Puddling head cocks, $1\frac{1}{2}$ -inch . . . . .	3			
$\frac{3}{4}$ " . . . . .	308				Gooseneck cocks, $2\frac{1}{2}$ -inch . . . . .	2			
1 " . . . . .	50				Jointers:				
2 " . . . . .	110			5,333	4-inch . . . . .	8			
Male couplings:					6 " . . . . .	31			
$\frac{5}{8}$ -inch . . . . .	701				8 " . . . . .	22			
$\frac{3}{4}$ " . . . . .	57				10 " . . . . .	15			
1 " . . . . .	170				12 " . . . . .	23			
$1\frac{1}{2}$ " . . . . .	121				16 " . . . . .	11			
2 " . . . . .	40			1,089	30 " . . . . .	1			
					48 " . . . . .	1			
									112

CARPENTER SHOP.

Stop-cock boxes . . . . .	757	Boston Lowry hydrant boxes . . . . .	57
Post hydrant boxes . . . . .	294	Boston hydrant boxes . . . . .	11
Lowry hydrant boxes . . . . .	105		

BLACKSMITH SHOP.

Picks, repointed . . . . .	16,480	Picks, resteeled . . . . .	148
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SCHEDULE OF STOCK ON HAND IN THE DISTRIBUTION DIVISION OF THE BOSTON WATER DEPARTMENT, JANUARY 31, 1901.

STOCK.

MAIN PIPE AND SPECIALS.

No.	Size.	Lbs.	Lbs.	Per Lb.	Value.
45	3-inch B Pipes.....		7,110	\$0.015	\$106 65
68	4 " B " .....	17,612			
2260	6 " B " .....	960,500			
731	8 " B " .....	442,255			
251	10 " B " .....	199,545			
735	12 " A " .....	701,925			
735	12 " B " .....	776,454			
318	16 " A " .....	458,874			
150	16 " B " .....	245,250			
52	20 " B " .....	119,080			
6	24 " A " .....	15,834			
82	24 " B " .....	236,617			
61	30 " A " .....	231,068			
17	30 " B " .....	74,715			
4	36 " A " .....	20,324			
5	40 " B " .....	36,245			
23	42 " B " .....	150,098			
13	48 " A " .....	105,781			
2	60 " B " .....	24,000			
			4,816,177	0.0102	49,125 00

MAIN PIPE IN PIECES.

25 feet	3-inch B Pipe ..		325	0.015	4 88
43	" 4 " B " ..	946			
125	" 6 " B " ..	4,375			
156	" 8 " B " ..	7,800			
108	" 10 " B " ..	7,236			
141	" 12 " B " ..	12,267			
63	" 16 " B " ..	8,379			
46	" 20 " B " ..	8,510			
14	" 24 " B " ..	3,416			
27	" 30 " A " ..	8,181			
6	" 36 " A " ..	2,472			
68	" 48 " A " ..	46,104			
			109,686	0.0102	1,118 80

FLEXIBLE PIPE.

17	6-inch Pipes.....	9,741 at \$29 40 per long ton	127 85
4	8 " " .....	3,084 " 31 40 " " "	43 24
10	12 " " .....	18,090 " 29 60 " short "	267 73

1-4 CURVES.

4	3-inch .....	244
12	4 " .....	957
38	6 " .....	4,712
11	8 " long.....	3,025
13	8 " short.....	2,470

Carried forward..... 11,408

\$50,794 15

No.	Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i> .....		11,408	.....	.....	\$50,794 15
7	10-inch long	1,925			
20	10 " short	5,740			
9	12 " long	3,123			
14	12 " short	4,718			
5	16 " .....	3,400			
		<hr/>			
8	20 " .....	7,600	30,314	\$0.0257	779 07
2	24 " .....	3,285			
1	30 " .....	2,640			
		<hr/>	13,525	0.0102	137 96

1-8 CURVES.

23	3-inch	1,242			
34	4 " .....	2,006			
46	6 " .....	5,474			
17	8 " long	4,420			
68	8 " short	10,268			
15	10 " .....	3,030			
86	12 " .....	22,102			
25	16 " .....	12,450			
12	20 " .....	10,476			
15	24 " .....	19,995			
		<hr/>	91,463	0.0257	2,350 60
15	30-inch	25,800			
17	36 " .....	47,685			
1	40 " .....	3,378			
4	42 " .....	13,956			
2	48 " .....	8,680			
		<hr/>	99,499	0.0102	1,014 89

1-12 CURVES.

1	30-inch	.....	1,686	0.0102	17 20
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1-16 CURVES.

43	3-inch	1,505			
26	4 " .....	1,482			
80	6 " .....	7,840			
71	8 " .....	9,656			
31	10 " .....	4,960			
55	12 " .....	11,825			
27	16 " .....	11,124			
10	20 " .....	8,900			
17	24 " .....	21,267			
		<hr/>	78,559	0.0257	2,018 96
7	30 " .....	12,418			
2	36 " .....	5,610			
2	40 " .....	6,740			
3	42 " .....	10,554			
3	48 " .....	12,974			
		<hr/>	48,296	0.0102	492 62

1-32 CURVES.

2	36-inch	5,530			
1	40 " .....	3,198			
1	42 " .....	3,259			
1	48 " .....	4,600			
		<hr/>	16,587	0.0102	169 19
<i>Carried forward</i> .....					<hr/>
					\$57,774 64

		1-64 CURVES.			
No.	Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i> .....					
1	40-inch	2,756			\$57,774 64
2	48 "	7,957			
			10,713	\$0.0102	109 27
 SLEEVES.					
40	3-inch	1,600			
76	4 "	3,420			
226	6 "	16,500			
72	8 "	7,561			
42	10 "	5,586			
154	12 "	31,882			
16	16 "	4,710			
7	20 "	2,800			
			74,059	0.0257	1,903 31
10	24 "	4,450			
8	30 "	5,496			
13	36 "	12,344			
6	40 "	5,960			
4	42 "	3,760			
9	48 "	12,510			
1	60 "	1,700			
			46,220	0.0102	471 44
 CAPS.					
22	3-inch	396			
30	4 "	1,120			
63	6 "	2,331			
80	8 "	5,920			
46	10 "	4,692			
72	12 "	9,770			
12	16 "	2,796			
			27,025	0.0257	694 54
11	20 "	4,334			
10	24 "	5,740			
6	30 "	4,122			
3	36 "	3,018			
1	40 "	1,000			
2	48 "	4,120			
1	60 "	2,500			
			24,834	0.0102	253 31
 3-WAY BRANCHES.					
700	various sizes		252,632	0.0257	6,492 64
67	" "		142,827	.0102	1,456 84
 4-WAY BRANCHES.					
155	various sizes		77,455	0.0257	1,990 59
33	" "		73,613	.0102	750 85
 3-WAY HYDRANT BRANCHES.					
48	various sizes		21,860	0.0257	561 80
 3-WAY BLOW-OFF BRANCHES.					
32	various sizes		17,664	0.0257	453 96
48	" "		47,488	.0102	484 38
<i>Carried forward</i> .....					\$73,397 57

" Y " BRANCHES.

No.	Size.	Lbs.	Per Lb.	Value.
<i>Brought forward</i> .....				
14	various sizes.....	45,147	\$0.0102	\$73,397 57
4	30-inch x 20-inch (lugged) ..	10,092	.0315	460 50 317 90

REDUCERS.

261	various sizes.....	41,882	0.0257	1,076 37
37	" " .....	58,614	.0102	597 86

OFFSETS.

245	various sizes.....	41,433	0.0257	1,064 82
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SIPHON PIPE.

65	various sizes.....	28,040	0.0102	286 01
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SIPHON BENDS.

2	24-inch .....	4,390	0.0102	44 87
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BRANCH OPENINGS.

22	various sizes.....	5,044	0.0102	51 45
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MANHOLE COVERS.

1	30-inch (for 30-inch manhole curve) .....	191	0.0102	1 95
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MAIN PIPE PLUGS.

169	various sizes.....	3,379	0.0102	34 47
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CLEANING SLEEVES.

24	various sizes.....	2,464	0.0102	25 13
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CLAMP SLEEVES.

258	various sizes.....	8,326	0.0257	213 98
1	20-inch (for cement pipe) .....	120	}	370
1	30-inch (for cement pipe) .....	250		
1	30-inch special.....	847	.03	25 41

BRANCH SLEEVES.

2	12-inch x 4-inch.....	750	0.0257	19 28
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SMITH SLEEVES AND VALVES.

1	6 x 2-inch.....	@	....	14 23
1	6 x 3 " .....	"	....	15 47
1	6 x 4 " .....	"	....	19 80
2	8 x 4 " .....	"	22.27	44 54
1	10 x 4 " .....	"	....	27 23
1	12 x 4 " .....	"	....	28 46
1	12 x 6 " .....	"	....	34 65
2	20 x 4 " .....	"	33.41	66 82
1	6 x 3 " .....	"	....	15 47

*Carried forward*..... \$77,888 01

No.	Size.		Value.
<i>Brought forward</i> .....			\$77,888 01
5	6 x 4-inch	@	\$19.80
5	6 x 6 "	"	25.99
1	8 x 3 "	"	.....
5	8 x 4 "	"	22.27
5	8 x 6 "	"	28.46
2	10 x 3 "	"	22.27
10	10 x 4 "	"	27.23
10	10 x 6 "	"	33.41
2	12 x 3 "	"	22.27
10	12 x 4 "	"	28.46
8	12 x 6 "	"	34.65
2	16 x 3 "	"	29.70
10	16 x 4 "	"	32.18
10	16 x 6 "	"	42.08
2	20 x 3 "	"	30.93
10	20 x 4 "	"	33.41
10	20 x 6 "	"	43.31
			433 10

SPECIAL CLAMP.

1	Turtle Back	"	36 67
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BOLT ENDS FOR STRAPPING.

3	1-inch	@	0.18	54
20	1 1-8-inch	"	.31	6 10
16	1 1-4 "	"	.55	8 80
19	1 3-8 "	"	.55	10 45

WROUGHT-IRON STRAPS.

3,821	pounds	@	0.08	305 68
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PIG LEAD.

40,940	pounds	"	0.0448	1,834 11
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GASKET.

2,215	pounds	"	0.04	88 60
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FIREWOOD.

34	1-4 cords	"	6.50	222 63
10	"	"	1.60	16 00

BLOCKING.

1,515	feet	"	0.018	27 27
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WEDGES.

342	wedges	"	0.02	6 84
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CLAY.

1,590	pounds	"	0.003	4 77
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GATES (COMPLETE).

6	36-inch	@	438.50	2,631 00
4	30 "	"	312.50	1,250 00
10	24 "	"	178.00	1,780 00
5	20 "	"	142.00	710 00

<i>Carried forward</i> .....			\$90,215 74
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No.	Size.		Value.
<i>Brought forward</i> .....			\$90,215 74
25	16-inch	@	\$86.00
12	12 "	"	57.10
8	10 "	"	46.70
15	8 "	"	29.70
28	6 "	"	23.40
6	4 "	"	14.20
30	3 "	"	9.90
			2,150 00
			685 20
			373 60
			445 50
			655 20
			85 20
			297 00

## COMPOSITION PARTS OF GATES (FINISHED).

## 3-INCH GATES.

22	valves, No. 2 metal	@	1.00	22 00
52	body rings, No. 3 metal	"	.32	16 64
210	small collars, No. 2 metal	"	.09	18 90
3	screws, No. 1 metal	"	1.43	4 29
6	valves, No. 2 "	"	1.19	7 14
8	glands, No. 2 "	"	.56	4 48
14	rings, No. 2 metal	"	.18	2 52

## 4-INCH GATES.

6	valves, No. 2 metal	"	1.44	8 64
11	screws, No. 1 "	"	1.65	18 15
2	glands, No. 2 "	"	.63	1 26
328	small collars, No. 2 metal	"	.13	42 64
164	bolts, No. 1 metal	"	.08	13 12

## 6-INCH GATES.

32	screws, No. 1 metal	"	2.48	79 36
17	valves, No. 2 "	"	3.95	67 15
111	body rings, No. 3 metal	"	.36	39 96
6	glands, No. 2 metal	"	.85	5 10
75	small collars, No. 2 metal	"	.11	8 25
119	stuffing-box bolts, No. 1 metal	"	.11	13 09
694	" " nuts, No. 2 "	"	.04	27 76
61	stuffing-boxes (old style), No. 2 metal	"	1.33	81 13

## 8-INCH GATES.

38	body rings, No. 3 metal	"	0.52	19 76
53	valves, No. 2 metal	"	5.29	280 37
6	screws, No. 1 "	"	3.03	18 18
2	valve nuts, No. 2 metal	"	.93	1 86
28	stuffing-boxes (old style), No. 2 metal	"	1.33	37 24

## 10-INCH GATES.

12	body rings, No. 3 metal	"	0.95	11 40
2	screws, No. 1 metal	"	4.73	9 46

## 12-INCH GATES.

20	screws, No. 1, metal	"	5.79	115 80
2	valve rings, No. 3 metal	"	1.06	2 12
17	body rings, No. 3 "	"	1.10	18 70
9	valve nuts, No. 2 "	"	1.08	9 72
3	glands, No. 2 metal	"	1.73	5 19
216	stuffing-box bolts, No. 1 metal	"	.22	47 52
332	" " nuts, No. 2 "	"	.09	29 88

*Carried forward* ..... \$95,996 22

16-INCH GATES.

No.	Size.		Value.
	<i>Brought forward</i> .....		\$95,996 22
4	screws, No. 1 metal.....	@ \$7.87	31 48
3	valve nuts, No. 2 metal.....	" 1.15	3 45
5	valve rings, No. 3 metal.....	" 1.81	9 05
111	small collars, No. 2 metal.....	" .27	29 97

CAST-IRON PARTS OF GATES (FINISHED).

3-INCH GATES.

6	tops.....	@ 0.80	4 80
20	bodies with rings.....	" 3.30	66 00

4-INCH GATES.

27	tops.....	" 0.86	23 22
4	stuffing boxes.....	" .47	1 88
32	sides with rings.....	" 2.06	65 92

6-INCH GATES.

98	tops.....	" 1.56	152 88
2	sides with rings.....	" 3.34	6 68
40	stuffing boxes.....	" .53	21 20

8-INCH GATES.

22	tops.....	" 2.41	53 02
11	stuffing boxes.....	" .53	5 83
25	sides with rings.....	" 4.94	123 50

10-INCH GATES.

3	valves.....	" 3.84	11 52
11	sides with rings.....	" 7.23	79 53

12-INCH GATES.

14	stuffing boxes.....	" 0.85	11 90
7	tops.....	" 3.98	27 86
13	valves.....	" 4.82	62 66
20	sides with rings.....	" 8.00	160 00
12	bodies with rings.....	" 13.89	166 68

MALLEABLE IRON GATE NUTS.

1,237	.....	@ 0.144	178 13
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9 32-INCH BRASS ROD.

98	pounds.....	@ 0.192	18 82
2,000	9-32-inch brass screws.....	" .015	30 00

UNFINISHED COMPOSITION.

3,297	pounds No. 1.....	@ 0.21875	721 22
2,536	" No. 2.....	" .20875	529 39
875	" No. 3.....	" .16	140 00

UNFINISHED CAST IRON.

28,479	pounds.....	@ 0.0257	731 91
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*Carried forward* ..... \$99,464 72





GASKETS.

No.	Size.		Value.
<i>Brought forward</i> .....			\$113,037 04
135	Lowry	@	\$0.35 47 25
159	Boston Lowry	"	.18 28 62
288	Post	"	.32 92 16
36	Boston	"	.22 7 92

POT BOLTS.

218	Malleable iron for Lowry	"	0.18 39 24
97	" " " Boston Lowry	"	.18 17 46
386	" " " Post	"	.18 69 48
58	" " " Boston	"	.18 10 44
126	" " " extension for Lowry	"	.24 30 24
132	" " " " Post	"	.24 31 68
1,040	washers (cast iron), 432 pounds	"	.0257 11 10

RUBBER VALVES.

	Lbs.	Lbs.	Per Lb.	
90 7-inch Lowry	223			
61 9-inch " "	158			
25 Boston " "	17			
47 Burnett	12			
117 Post	110			
202 Bachelder Post Main	233			
250 Bachelder Post, 2½-inch	35			
487 Bachelder Post, 4½-inch	84			
29 Boston	8			
		880	0.825	726 00

COMPOSITION PARTS (FINISHED).

LOWRY.

23 valve seats, No. 3 metal	@	0.64 14 72
6 7-inch screws, No. 1 metal	"	2.13 12 78
43 9 " " " "	"	2.05 88 15
155 7-inch screw nuts, No. 2 metal	"	1.14 176 70
37 small Burnett valve rings, No. 3 metal	"	.12 4 44
44 Burnett valve check nuts, No. 2 " "	"	.40 17 60
9 24-inch extensions, No. 1 metal	"	2.81 25 29
4 26 " " " " "	"	3.02 12 08
122 bolts, No. 1 metal	"	.22 26 84
4 nuts, No. 2 " "	"	.06 24

BOSTON LOWRY.

28 screws, No. 1 metal	"	1.59 44 52
5 screw nuts, No. 2 metal	"	.93 4 65
35 valve seats, No. 2 " "	"	.46 16 10
9 bolts, No. 1 metal	"	.17 1 53
9 nuts, No. 2 " "	"	.06 54

POST (ORDINARY).

4 main screws, No. 1 metal	"	1.47 5 88
47 main screw nuts, No. 2 metal	"	1.20 56 40

*Carried forward* ..... \$114,657 09

No.	Size.		Value.
<i>Brought forward</i> .....			
91	valve seats, No. 2 metal	@ \$0.54	\$114,657 09
61	4½-inch nipples, No. 2 metal	" 1.90	49 14
13	2½ " " " "	" .56	115 90
68	stuffing boxes, No. 2 " " " "	" .76	7 28
190	small collars, No. 2 " " " "	" .11	51 68
210	¾-inch screws, No. 2 " " " "	" .05	20 90
			10 50

## BACHELDER POST.

38	main screws, No. 1 metal	" 1.47	55 86
12	4 1-2 inch screws, No. 1 metal	" .81	9 72
10	2 1-2 " " " "	" .62	6 20
81	2 1-2 " spindles, No. 1 metal	" .63	51 03
8	4 1-2 " " " "	" .94	7 52
14	2 1-2 " nipples, No. 2 " " " "	" 1.01	14 14
21	4 1-2 " " " " " "	" 2.43	51 03
12	4 1-2 " body valves, No. 2 metal	" 2.38	28 56
6	2 1-2 " " " " " "	" 1.54	9 24
22	2 1-2 " valves, No. 2 metal	" .34	7 48
50	4 1-2 " " " " " "	" .50	25 00
74	4 1-2 " washers, " " " "	" .26	19 24
38	2 1-2 " No. 2 metal	" .17	6 46
12	stuffing boxes, No. 2 metal	" .41	4 92
58	valve seats, No. 2 metal	" 1.22	70 76
99	small collars, No. 2 metal	" .11	10 89
268	glands, No. 2 metal	" .24	64 32
68	nuts for rods, No. 2 metal	" .34	23 12
170	nuts for 2 1-2 inch and 4 1-2 inch valves, No. 2 metal	" .07	11 90

## BACHELDER POST (LATEST).

14	2 1-2 inch screws, No. 1 metal	@ 0.60	8 40
1	4 1-2 " " " " " "	" .84	84
20	4 1-2 " nipples, No. 2 " " " "	" 1.61	32 20
3	nuts for rods, No. 2 metal	" .28	84

## CAST IRON PARTS (FINISHED).

## LOWRY.

2	4-foot 6 inch barrels	@ 15.18	30 32
7	4 " 3 " " "	" 14.88	104 16
5	4 " barrels	" 14.65	73 25
12	3 " 9-inch barrels	" 13.90	166 80
2	3 " 6 " " "	" 13.13	26 26
1	3 " 3 " " "	" 12.80	12 80
9	valves	" .92	8 28
21	cross-bars	" .42	8 82
164	cross-bar caps	" .28	45 92
44	valve washers	" .20	8 80
17	Burnett valve bottoms	" .72	12 24
75	" " guides	" .23	17 25
54	" " tops	" .75	40 50

## BOSTON LOWRY.

57	valves	" 0.17	9 69
95	valve washers	" .10	9 50
15	cross-bars	" .33	4 95
20	cross-bar caps	" .35	7 00

*Carried forward*..... \$116,018 70

POST (ORDINARY).

No.	Size.		Value.
<i>Brought forward</i> .....			\$116,018 70
8	barrels .....	@ \$14.47	115 76
4	valves .....	" .25	1 00
60	valve washers .....	" .16	9 60
91	large tops .....	" 1.24	112 84
1	small top .....	" .39	39
42	4 1-2 inch caps .....	" .54	22 68
45	2 1-2 " " .....	" .18	8 10
29	guides .....	" .26	7 54
328	keys .....	" .015	4 92
202	top nuts .....	" .04	8 08

BACHELDER POST.

24	barrels .....	" 14.85	356 40
12	plates .....	" .99	11 88
17	4 1-2 inch caps .....	" .35	5 95
9	2 1-2 " " .....	" .13	1 17
21	guides .....	" .24	5 04
55	domes .....	" .60	33 00
30	valves .....	" .25	7 50
6	valve washers .....	" .16	96
189	pounds hydrant cap chain .....	" 0.17	32 13
170	"S" hooks for hydrant cap chain, each .....	" .01	1 70
77	numbered tags .....	" .06	4 62
20	Post hydrant rods and nuts .....	" 1.06	21 20
14	Lowry hydrant rods .....	" .43	6 02
124	cast-steel nuts for Bachelder hydrant .....	" .10	12 40
524	pounds Bessemer steel hydrant rods .....	" .03	15 72

UNFINISHED CAST IRON.

	Per Lb.	
49,068 pounds .....	0.0257	1,261 05

UNFINISHED COMPOSITION.

1,085 pounds No. 1 metal .....	0.21875	237 34
1,315 " " 2 " .....	0.20875	274 51
193 " " 3 " .....	0.16	30 88

BOXES.

41	Lowry hydrant boxes .....	@ 4.25	174 25
12	Boston Lowry hydrant boxes .....	" 5.20	62 40
29	Post hydrant boxes .....	" 4.50	130 50
6	Boston hydrant boxes .....	" 4.00	24 00
59	stop-cock boxes (small) .....	" 3.70	218 30
5	" " (large) .....	" 4.40	22 00
6	Deacon meter boxes .....	" 4.40	26 40
48	hydrant box tops .....	" 0.95	45 60
42	stop-cock box tops .....	" .80	33 60
946	inches, hydrant box pieces .....	" .05	47 30
841	" stop-cock box pieces .....	" .04	33 64
46	No. 6 bases for iron stop-cock boxes ..	" 1.10	50 60
71	No. 8 " " " " " " ..	" 1.45	102 95
49	No. 16 " " " " " " ..	" 2.25	110 25
99	No. 70 pieces for iron stop-cock boxes (frames) .....	" 2.00	198 00

*Carried forward* .....

\$119,908 87

No.	Size.		Value.
<i>Brought forward</i> .....			\$119,908 87
22	No. 71 pieces for iron stop-cock boxes..	@	\$0.90 19 80
32	No. 78 " " " " " " ..	"	1.35 178 20
90	No. 79 " " " " " " ..	"	2.25 202 50
46	No. 81 " " " " " " ..	"	1.05 48 30
95	No. 83 " " " " " " ..	"	1.55 147 25
5	No. 84 " " " " " " ..	"	1.05 5 25
366	covers for iron stop-cock boxes .....	"	.80 292 80
7	combination Lowry tops with frames, 2,233 lbs. ....	"	.0257 57 39
12	fountain sidewalk plates, 5,400 lbs. ....	"	.0257 138 78

FRAMES AND COVERS.

	Lbs.	Lbs.	Per Lb.	
96 Lowry frames.....		15,360	0.015	230 40
54 Boston-lowry frames .....	4,806			
73 Post frames.....	4,453			
36 Boston frames.....	2,052			
130 stop-cock frames ..	16,120			
60 gate frames .....	6,540			
2 Deacon meter frames .....	100			
2 reservoir " B.F.D." frames .....	680			
52 Lowry covers.....	9,880			
73 Lowry cover bonnets .....	4,453			
105 Boston Lowry covers.....	7,875			
55 Post covers.....	3,960			
34 Boston covers.....	2,380			
33 Boston covers (large) .....	3,776			
124 stop-cock covers... ..	11,408			
30 stop-cock covers (large) .....	3,540			
19 blow-off covers....	1,672			
32 elevator " ....	2,816			
40 fire-pipe " ....	3,520			
31 high-service covers	2,728			
18 high-service covers (large) .....	1,962			
17 division covers....	1,496			
13 division covers (large) .....	1,365			
26 air-cock covers ....	2,288			
10 reservoir " ....	880			
2 Deacon meters covers .....	150			
2 reservoir " B.F.D." covers.....	404			
	<hr/>	101,304	0.015	1,519 56

BOX LUMBER.

	Per Ft.	
24,000 feet kyanized spruce .....	0.022	528 00
7,000 feet creosote lumber.....	.03707	259 49
<i>Carried forward</i> .....		<hr/> \$123,536 59

GATE CHAMBER SPECIALS.

No.	Size.		Value.
<i>Brought forward</i> .....			\$123,536 59
39	malleable iron steps.....	@ \$0.44	17 16
18	“ “ wall brackets.....	“ .44	7 92

SERVICE PIPE AND SPECIALS.

SERVICE PIPE.

	Per Lb.	
46,984 pounds lead pipe.....	0.048	2,255 23
714 “ tin lined lead pipe.....	.10	71 40
607 feet lead lined iron pipe.....	.1013	61 49
762 pounds block tin pipe.....	.20	152 40

CORPORATION COCKS.

109 1-2 inch.....	@ 0.41	44 69
436 5-8 “.....	“ .49	213 64
117 3-4 “.....	“ .70	81 90
46 1 “.....	“ 1.25	57 50
57 1 1-4 inch.....	“ 1.42	80 94
36 1 1-2 “.....	“ 2.19	78 84

SIDEWALK COCKS.

848 5-8 inch.....	“ 0.375	318 00
124 3-4 “.....	“ .67	83 08
167 1 inch.....	“ .97	161 99
9 1 1-4 inch.....	“ 1.47	13 23
4 1 1-2 “.....	“ 2.25	9 00

ANGLE CORPORATION COCKS.

118 5-8 inch.....	@ 0.57	67 26
5 1 inch.....	“ 1.71	8 55

T-COCKS.

18 5-8 inch.....	“ 0.62	11 16
9 5-8 x 3-4 inch.....	“ .75	6 75
7 5-8 x 1 inch.....	“ .85	5 95
26 5-8 x 1 1-4 inch.....	“ .92	23 92
10 5-8 inch left handed.....	“ .94	9 40
8 5-8 “ right handed.....	“ .94	7 52
3 5-8 inch “Y”.....	“ .62	1 86

WATER POST COCKS.

7 1 1-4 inch.....	@ 2.24	15 68
7 1 1-2 “.....	“ 3.02	21 14

AIR COCKS.

54 1 inch.....	“ 1.24	66 96
7 2 “ light.....	“ 3.30	23 10
6 2 “ heavy.....	“ 5.02	30 12

LEVER HANDLE STOP AND WASTE COCKS.

72 5-8 inch.....	@ 0.75	54 00
1 1 inch.....	“ 1.53	1 53

*Carried forward*..... \$127,599 90

## "T" HANDLE STOP AND WASTE COCKS.

No.	Size.		Value.
<i>Brought forward</i> .....			
29	5-8 inch	@ \$0.77	\$127,599 90
6	3-4 "	".88	22 33
			5 28

## BIBB COCKS.

13	5-8 inch	" 0.375	4 88
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## MALE COUPLINGS.

20	1-2 inch	@ 0.10	2 00
376	5-8 "	".13	48 88
89	3-4 "	".16	14 24
113	1 inch	".23	25 99
155	1 1-4 inch	".42	65 10
44	1 1-2 "	".55	24 20
37	2 inch	".74	27 38

## FEMALE COUPLING NUTS.

26	1-2 inch	@ 0.04	1 04
1,363	5-8 "	".04	54 52
209	3-4 "	".11	22 99
83	1 inch	".13	10 79
71	1 1-4 inch	".20	14 20
64	1 1-2 "	".25	16 00
95	2 inch	".37	35 15

## FEMALE COUPLING TUBES.

119	1-2 inch	@ 0.04	4 79
1,765	5-8 "	".04	70 60
254	3-4 "	".08	20 32
137	1 inch	".11	15 07
98	1 1-4 inch	".15	14 70
187	1 1-2 "	".23	43 01
94	2 inch	".36	33 84

## CHAPMAN VALVES.

17	1 1-2 inch	@ 2.22	37 74
24	2 inch	" 3.685	88 44
78	2 " repaired	".88	68 64

## CHECK VALVES.

6	1 inch	" 1.22	7 32
5	1 1-2 inch	" 2.98	14 90
4	2 inch	" 4.38	17 52
2	8 "	" 30.00	60 00

## PLUGS.

96	1-2 inch	" 0.07	6 72
169	5-8 "	" .07	11 83
199	3-4 "	" .08	15 92
73	1 inch	" .11	8 03
55	1 1-4 inch	" .13	7 15
68	1 1-2 "	" .15	10 20
54	2 inch	" .19	10 26

*Carried forward* ..... \$128,561 84



No.	Size.			Value.
<i>Brought forward</i> .....				
1	1-2 inch brass elbow		@	\$129,634 49
463	lbs. stick solder		"	33
184	" wiping solder		"	74 08
328	" pig tin		"	29 44
8	lead tacks		"	109 06
				60
		Lbs.	Lbs.	Per Lb.
1,146	small service boxes	....	13,776	0.0257
1,000	" " "	....	12,000	.0257
162	large " "	....	4,374	.0257
553	3-ft. tubes	8,848		112 41
364	3-ft. 6-inch tubes	7,644		
998	4-ft. tubes	24,950		
			41,442	.0257
1,354	small caps	5,416		1,065 05
172	large "	1,892		
			7,308	.0257
257	sidewalk bottoms		9,766	.0257
142	1-ft. extensions	1,704		187 81
62	2-ft. "	690		250 99
34	3-ft. "	612		
32	combination up-rights	736		
28	service pipe plates	728		
			4,470	.0257
6,211	sidewalk nuts		@	114 88
98	short tops for sidewalk bottoms		"	0.02
65	long " " "		"	.39
703	sidewalk bushings		"	.44
15,263	lbs. unfinished cast iron		"	.06
4,120	" No. 2 unfinished composition		"	.0257
186	" " 3 "		"	.20875
				392 26
				860 05
				29 76
		Lbs.	Lbs.	Per Lb.
8	fountain tops	5,440		
10	" bases	5,450		
7	" grates	2,275		
			13,165	.0257
20	" check nuts		@	338 64
8	" tubes		"	0.83
3	" coupling nuts		"	.67
13	3-4 inch brass unions		"	.35
60	Doherty cocks		"	.25
36	" cock tops		"	1.125
13	3-4 inch 5-way branches		"	.90
201	yards fountain chain		"	.64
4	fountain bolts		"	.0825
105	feet 3 inch soil pipe		"	.20
85	3 inch soil pipe bends		"	.105
8	" " traps		"	.1925
501	feet 1 inch enamelled pipe		"	.44
1,354	" 3-4 inch enamelled pipe		"	.11
2	fountain coolers		"	.072
30	lbs. sheet brass		"	5.90
145	" copper		"	.30
82	" zinc		"	.255
1,801	" unfinished cast iron		"	.0825
600	" " " (fountain)		"	.0257
				.035
				46 29
				21 00
<i>Carried forward</i> .....				
				\$134,558 70



IRON AND STEEL.

OCTAGON STEEL.

Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i> .....				\$134,558 70
1-2 inch.....	30			
5-8 ".....	20			
7-8 ".....	174			
1 inch.....	36			
1 1-4 inch.....	20			
1 1-2 ".....	99			
2 1-2 ".....	7			
3-inch.....	156			
3 1-2 inch.....	104			
	—	646	\$0.12	77 52

ROUND CAST STEEL.

3-8 inch.....		8	0.13	1 04
1-2 ".....	16			
5-8 ".....	77			
3-4 ".....	47			
	—	140	.12	16 80
1-inch.....		10	.065	65
1 3-8 inch.....		15	.075	1 13
1 1-4 ".....		99	.155	15 35
1 1-2 ".....		122	.16	19 52
1 3-4 ".....		69	.12	8 28
2 1-4 ".....		107	.075	8 03
2 1-2 ".....		65	.06	3 90
2 3-4 ".....		8	.06	48
3 3-4 ".....		9	.06	54

SQUARE CAST STEEL.

1-4 inch.....	3			
3-8 ".....	6			
5-8 ".....	25			
	—	34	0.12	4 08
7-8 ".....	24			
1-inch.....	50			
	—	74	.06	4 44
1 1-8 inch.....		41	.12	4 92
1 1-4 ".....	264			
1 3-8 ".....	93			
	—	357	.16	57 12
1 1-2 ".....		166	.075	12 45
1 3-4 ".....		140	.12	16 80
2-inch.....	167			
2 1-2 inch.....	219			
4-inch.....	54			
	—	440	.075	33 00

CAST STEEL.

1-2 x 1 inch.....	....	79	0.09	7 11
1-2 x 2 ".....	12			
1-2 x 3 ".....	20			
3-8 x 1 ".....	13			
	—	45	.12	5 40

*Carried forward* ..... \$134,857 26

Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i> .....				\$134,857 26
3-8 x 1 3-8 inch.....	95	11	\$0.13	1 43
3-8 x 2 1-2 ".....	24			
5-8 x 1 1-2 ".....	67			
5-8 x 3 ".....		186	.12	22 32
3-4 x 1 1-2 ".....		19	.13	2 47
1 x 1 1-2 ".....		20	.11	2 20
1 x 2 ".....		31	.12	3 72
1 x 3 ".....	64			
1 1-4 x 3 1-2 ".....	37			
2 1-4 x 3 ".....	16			
	76			
		193	.08	15 44

ROUND BESSEMER STEEL.

5-16 inch.....	294			
1 ".....	68			
1 1-4 ".....	183			
1 3-4 ".....	265			
2 3-8 ".....	94			
2 1-2 ".....	140			
6 ".....		1,044	0.03	31 32
		85	.02	1 70

SQUARE BESSEMER STEEL.

3-4 inch.....	84			
7-8 ".....	53			
1 ".....	440			
1 1-4 ".....	208			
1 3-8 ".....	34			
1 1-2 ".....	56			
2 1-4 ".....	81			
3 1-2 ".....	436			
		1,392	0.03	41 76

BESSEMER STEEL.

3-4 inch x 3 1-2 inch.....	95	0.03	2 85
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ROUND NORWAY IRON.

1-4 inch.....	180			
3-8 ".....	200			
1-2 ".....	483	380	0.04	15 20
9-16 ".....	86			
5-8 ".....	279			
3-4 ".....	378			
7-8 ".....	546			
1 inch.....		1,772	0.0375	66 45
1 1-8 inch.....		741	.045	33 35
1 1-4 ".....		715	.0425	30 39
1 3-8 ".....	287			
1 1-2 ".....	395			
1 1-2 ".....	401			
1 3-4 ".....	133			
2 inch.....	150			
		1,366	.04	54 64

Carried forward ..... \$135,182 50

SQUARE NORWAY IRON.

Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i> .....				\$135,182 50
1-2 inch .....	87			
5-8 " .....	52			
3-4 " .....	70			
7-8 " .....	521			
1 inch .....	310			
1 1-8 inch .....	470			
1 1-4 " .....	460			
2 1-2 " .....	67			
2 3-4 " .....	107			
		2,144	\$0.0375	80 40

NORWAY IRON.

3-16 x 1-2 inch .....	31			
3-16 x 1 1-2 " .....	13			
3-16 x 2 3-4 " .....	10			
1-4 x 1 1-2 " .....	69			
1-4 x 2 " .....	88			
1-4 x 2 1-4 " .....	16			
3-8 x 5-8 " .....	6			
	<hr/>			
3-8 x 2 " .....	52	233	0.0425	9 91
3-8 x 2 3-8 " .....	122			
	<hr/>			
3-8 x 3 " .....	....	174	.04	6 96
1-2 x 3-4 " .....	9	121	.0325	3 93
1-2 x 1 " .....	106			
	<hr/>			
1-2 x 2 " .....	331	115	.0425	4 89
1-2 x 2 3-4 " .....	1,027			
1-2 x 3 1-4 " .....	33			
1-2 x 3 1-2 " .....	13			
1-2 x 4 " .....	14			
1-2 x 5 " .....	15			
	<hr/>			
5-8 x 1 " .....	....	1,438	.033	47 45
5-8 x 1 1-2 " .....	63	662	.0425	28 14
5-8 x 1 5-8 " .....	300			
5-8 x 1 3-4 " .....	357			
5-8 x 2 " .....	58			
5-8 x 2 1-4 " .....	74			
5-8 x 2 3-4 " .....	564			
5-8 x 3 " .....	1,406			
5-8 x 3 1-4 " .....	110			
5-8 x 3 1-2 " .....	97			
5-8 x 6 " .....	44			
	<hr/>			
3-4 x 1 1-4 " .....	111	3,073	.0375	115 24
3-4 x 2 " .....	136			
	<hr/>			
3-4 x 2 1-2 " .....	759	247	.0325	8 03
3-4 x 2 3-4 " .....	555			
3-4 x 3 " .....	276			
3-4 x 5 " .....	160			
1 x 1 1-2 " .....	205			
	<hr/>			
1 x 2 1-4 " .....	....	1,955	.0375	73 31
		386	.0475	18 34
<i>Carried forward</i> .....				\$135,579 10

Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i> .....				\$185,579 10
1 x 2 1-2 inch.....	914			
1 x 2 3-4 ".....	221			
	<hr/>	1,135	\$0.045	51 08
1 x 3 inch.....	160			
1 1-8 x 3 inch.....	49			
	<hr/>	209	.0475	9 93
1 1-4 x 2 ".....	274			
1 1-4 x 2 1-2 inch.....	950			
1 1-4 x 3 inch.....	69			
1 1-2 x 3 ".....	25			
	<hr/>	1,318	.04	52 72

## ROUND REFINED IRON.

5-8 inch.....	9			
3-4 ".....	38			
7-8 ".....	512			
	<hr/>	559	0.0285	15 93

## REFINED IRON.

1-4 x 3 inch.....	16			
1-4 x 4 ".....	62			
3-16 x 3-4 inch.....	43			
	<hr/>	121	0.018	2 18
3-8 x 1 inch.....	538			
3-8 x 3 ".....	43			
5-8 x 2 1-2 inch.....	183			
	<hr/>	764	.0285	21 78
5-8 x 3 inch.....	....	71	.02	1 42
3-4 x 2 ".....	....	885	.0275	24 34

## BAND IRON.

1-8 x 1 inch.....	229			
1-8 x 1 1-8 inch.....	156			
1-8 x 1 1-4 ".....	76			
1-8 x 1 1-2 ".....	23			
1-8 x 2 inch.....	50			
1-8 x 2 1-2 inch.....	90			
1-8 x 3 inch.....	84			
3-16 x 2 3-4 inch.....	31			
1-4 x 1 1-2 ".....	4			
1-4 x 2 inch.....	6			
	<hr/>	749	0.03	22 47

## ANGLE IRON.

3-4 inch.....	7			
1 ".....	5			
1 1-2 inch.....	111			
2 inch.....	72			
	<hr/>	195	0.035	6 83

## GALVANIZED SHEET IRON.

31 lbs.....		0.0625		1 94
<i>Carried forward</i> .....				<hr/>
				\$135,789 72

SET SCREWS.

No.	Size.		Value.
<i>Brought forward</i> .....			\$185,789 72
69	7-16 x 1 inch.....	@	\$0.0248 1 71
23	1-2 x 3-4 " .....	"	.0225 52
45	1-2 x 1 " .....	"	.0225 1 01
67	1-2 x 1 1-2 inch.....	"	.02 1 34
49	1-2 x 1 1-4 " .....	"	.02 98
24	5-8 x 1 1-2 " .....	"	.0165 40
40	5-8 x 2 1-4 " .....	"	.0192 77
22	3-4 x 1 1-2 " .....	"	.0192 42
1,421	7-8 x 4 inch.....	"	.14 198 94

BOLTS.

11	3-8 x 1 1-2 inch.....	"	0.0126 14
203	1-2 x 1 1-2 " .....	"	.0126 2 56
100	1-2 x 1 3-4 " .....	"	.013 1 30
62	1-2 x 2 inch.....	"	.0193 1 20
270	1-2 x 2 1-2 inch.....	"	.0124 3 35
135	1-2 x 3 inch.....	"	.0132 1 78
127	1-2 x 3 1-2 inch.....	"	.013 1 65
71	1-2 x 4 inch.....	"	.0138 98
88	1-2 x 5 " .....	"	.0162 1 43
50	1-2 x 6 " .....	"	.0233 1 17
100	1-2 x 7 " .....	"	.0233 2 33
110	1-2 x 8 " .....	"	.0233 2 56
35	1-2 x 10 " .....	"	.07 2 45
50	1-2 x 11 " .....	"	.0346 1 73
50	1-2 x 12 " .....	"	.0377 1 89
216	9-16 x 2 inch.....	"	.0242 5 23
365	9-16 x 2 1-4 inch.....	"	.0242 8 83
24	9-16 x 2 3-4 " .....	"	.0242 58
181	9-16 x 5 1-4 " .....	"	.0242 4 38
50	5-8 x 1 1-2 " .....	"	.0165 83
56	5-8 x 2 inch.....	"	.0492 2 76
555	5-8 x 2 1-2 inch.....	"	.01312 7 28
471	5-8 x 2 1-2 " (T Head).....	"	.03 14 13
197	5-8 x 2 3-4 " .....	"	.0492 9 69
1,381	5-8 x 3 inches.....	"	.0285 39 36
1,407	5-8 x 3 1-2 inch.....	"	.0216 30 39
380	5-8 x 3 1-2 " (T Head).....	"	.03 11 40
467	5-8 x 4 " .....	"	.0307 14 34
226	5-8 x 4 1-2 " .....	"	.0224 5 06
229	5-8 x 5 inch.....	"	.0197 4 51
110	5-8 x 6 " .....	"	.0431 4 74
93	5-8 x 7 " .....	"	.0469 4 36
95	5-8 x 8 " .....	"	.0507 4 82
96	5-8 x 10 " .....	"	.0583 5 60
156	5-8 x 12 " .....	"	.04 6 24
256	3-4 x 1 1-2 inch.....	"	.0229 5 86
88	3-4 x 1 3-4 " .....	"	.0229 2 02
748	3-4 x 2 3-4 " .....	"	.0298 22 29
27	3-4 x 3 inch.....	"	.0375 1 01
106	3-4 x 3 " (large head).....	"	.0566 6 00
30	3-4 x 3 1-2 inch.....	"	.0314 94
245	3-4 x 3 3-4 " (large head).....	"	.045 11 03
1,980	3-4 x 4 inch.....	"	.0307 60 79
105	3-4 x 4 1-2 inch.....	"	.0663 6 96
20	3-4 x 5 inch.....	"	.035 70

*Carried forward* ..... \$186,324 46

No.	Size.		Value.
<i>Brought forward</i> .....			
5	3-4 x 5 1-2 inch	@	\$0.0329
85	3-4 x 6 inch	"	.0702
131	3-4 x 7 "	"	.0702
42	3-4 x 8 "	"	.0452
87	3-4 x 9 "	"	.0483
93	3-4 x 10 "	"	.0576
62	3-4 x 12 "	"	.19
78	3-4 x 15 "	"	.19
132	7-8 x 4 "	"	.0546
17	1 x 4 inch	"	.03
9	1 x 4 1-2 inch	"	.03
1	1 x 5 1-2 "	"	.07
19	1 x 6 inch	"	.0486
39	1 1-8 x 5 inch	"	.31
12	1 1-4 x 9 "	"	.312
21	1 1-4 x 10 "	"	.312
10	1 1-4 x 12 "	"	.312
22	1 3-8 x 10 "	"	.312
25	1 3-8 x 12 "	"	.312

\$136,324 46  
16  
5 97  
9 20  
1 90  
4 20  
5 36  
11 78  
14 82  
7 21  
51  
27  
07  
92  
12 09  
3 74  
6 55  
3 12  
6 86  
7 80

TAP BOLTS.

89	3-8 x 1 1-4 inch	"	0.015
49	1-2 x 1 1-4 "	"	.015
81	1-2 x 1 3-4 "	"	.0231
23	1-2 x 2 1-2 "	"	.0198
91	1-2 x 3 inch	"	.0215
50	1-2 x 4 "	"	.03
97	9-16 x 1 3-4 inch	"	.034
96	5-8 x 1 1-2 "	"	.0287
81	5-8 x 2 inch	"	.0307
181	5-8 x 2 1-2 inch	"	.0287
100	5-8 x 3 inch	"	.0307
50	5-8 x 4 "	"	.04
11	3-4 x 2 1-2 inch	"	.04
2	3-4 x 4 inch	"	.04

1 34  
74  
1 87  
46  
1 96  
1 50  
3 30  
2 76  
2 49  
5 19  
3 07  
2 00  
44  
08

SQUARE NUTS.

428	7-16 inch	"	0.01
593	1-2 "	"	.01
574	3-4 "	"	.04
946	7-8 "	"	.055
31	1 "	"	.06
13	1 1-8 "	"	.043
18	1 1-4 "	"	.09
74	1 3-8 "	"	.07
51	1 1-2 "	"	.0914

4 28  
5 93  
22 96  
52 03  
1 86  
56  
1 62  
5 18  
4 66

HEXAGON NUTS.

90	5-8 inch	"	0.0215
53	3-4 "	"	.0215
2,909	7-8 "	"	.0349
15	1 "	"	.0215
329	1 1-8 "	"	.0668
46	1 1-4 "	"	.09
18	1 3-8 "	"	.1156

1 94  
1 14  
101 52  
32  
21 98  
4 14  
2 08

AXLE NUTS.

21		"	0.30
----	--	---	------

6 30

*Carried forward*..... \$136,692 69

WASHERS.

No.	Size.		Value.
<i>Brought forward</i> .....			\$136,692 69
25 pounds	1-4 inch	@	\$0.07 1 75
50	" 5-16 "		.035 1 75
2	" 3-8 "		.06 12
19	" 7-16 "		.065 1 24
26	" 9-16 "		.065 1 69
460	" 11-16 "		.04 18 40
331	" 13-16 "		.03 9 93
299	" 15-16 "		.04 11 96
110	" 1 1-4 inch x 2 3-4 inch		.03 3 30
127	" 1 3-8 " x 3 "		.03 3 81
169	" 1 1-2 " x 3 1-2 "		.03 5 07
94	" 1 5-8 " x 3 1-2 "		.03 2 82

PAINTS.

23 gallons	No. 34	"	1.90	43 70
9	" bottle green	"	1.90	17 10
51 pounds	green paint	"	.12	6 12
10	" wrought-iron paste	"	.04	40
8	" litharge	"	.10	80
8	" lamp black	"	.15	1 20
15	" ivory	"	.26	3 90
12	" ultra marine blue	"	.18	2 16
15	" burnt umber	"	.12	1 80
24	" raw umber	"	.07	1 68
5	" dry umber	"	.07	35
28	" burnt sienna	"	.12	3 36
28	" raw sienna	"	.10	2 80
25	" chrome yellow	"	.20	5 00
52 gallons	P. B. paint	"	.55	28 60
220 pounds	white lead	"	.0612	13 46
92	" red lead	"	.06	5 52
175	" venetian red in oil	"	.16	28 00
28	" vermilion	"	.16	4 48
14 gallons	shellac	"	2.50	35 00
6	" japan	"	.50	3 00
22	" turpentine	"	.42	9 24
75 pounds	putty	"	.0225	1 69
8	" plumbago	"	.13	1 04
4 gallons	varnish	"	1.25	5 00
52	" boiled oil	"	.67	34 84
15	" raw oil	"	.65	9 75
3	" wood alcohol	"	1.00	3 00
5	" mixed paint	"	1.00	5 00

LUMBER.

4,397 feet	spruce timber	"	0.018	79 15
950	" 2-inch spruce plank	"	.015	14 25
3,900	" 1 " " boards	"	.018	70 20
175	" 1-2 inch pine	"	.05	8 75
75	" 7-8 " " "	"	.03	2 25
500	" 7-8 " " barn-boards	"	.025	12 50
575	" 1 " " "	"	.06	34 50
130	" 1 1-8 inch pine	"	.065	8 45
575	" 1 1-2 " " "	"	.065	37 38
200	" 1 7-8 " " "	"	.07	14 00

*Carried forward* ..... \$137,313 95

No.	Size.		Value.
<i>Brought forward</i> .....			
300	feet 2-inch pine	@	\$137,313 95
750	" 2 1-2 inch pine	"	19 50
750	" 3-inch	"	52 50
96	" 7-8 inch pine sheathing	"	52 50
250	" 1 1-4 inch pine sheathing	"	2 88
50	" 7-8 inch pine (hard)	"	16 25
410	" 7-8 inch oak	"	2 00
500	" 3-inch oak	"	57 40
150	" 6 x 8 inch oak	"	40 00
115	" 2-inch ash	"	12 00
100	" 1 1-2 inch mahogany	"	6 90
50	" 2-inch mahogany	"	25 00
25	" 7-8 inch black walnut	"	12 50
30	" 2-inch crown moulding	"	3 38
150	" 3-inch bed moulding	"	60
1	bundle clapboards	"	6 00
			80

## NAILS.

190	pounds 4-d wire nails	"	0.045	8 55
115	" 6-d " " "	"	.0395	4 54
848	" 8-d " " "	"	.0265	22 47
619	" 10-d " " "	"	.026	16 09
999	" 20-d " " "	"	.0255	25 47
739	" 40-d " " "	"	.0255	18 84
105	" 60-d " " "	"	.0255	2 68
57	" 6-d cut " " "	"	.0235	1 34
74	" 8-d " " "	"	.0235	1 74
95	" 10-d " " "	"	.0235	2 23
85	" 20-d " " "	"	.023	1 96
100	" 40-d " " "	"	.023	2 30
93	" 60-d " " "	"	.023	2 14
137	" 6-d finish nails	"	.0385	5 27
100	" 8-d " " "	"	.0385	3 85
61	" 10-d " " "	"	.0385	2 35
182	" 12-d " " "	"	.0385	7 01
40	" 8-inch wire spikes	"	.0185	74
142	" 9 " " " "	"	.0185	2 63

## MISCELLANEOUS.

140	feet 3-inch drain pipe	"	0.0512	7 17
114	" 4 " " " "	"	.08	9 12
100	" 6 " " " "	"	.12	12 00
60	" 8 " " " "	"	.14	8 40
32	" 10 " " " "	"	.24	7 68
12	" 12 " " " "	"	.31	3 72
81	3-inch drain pipe bends	"	.16	12 96
21	4 " " " " "	"	.26	5 46
35	6 " " " " "	"	.44	15 40
20	8 " " " " "	"	.57	11 40
23	10 " " " " "	"	1.02	23 46
4	12 " " " " "	"	1.30	5 20
1	6-inch x 4-inch drain pipe branch	"	.43	43
1	10 " x 6 " " " "	"	.94	94
300	tons beach gravel	"	.73	219 00
42	" gravel	"	.90	37 80
10	" " " " "	"	.875	8 75
14	" cracked stone	"	1.875	26 25

*Carried forward*..... \$138,171 50



No.	Size.		Value.
<i>Brought forward</i> .....			\$138,171 50
3	barrels common cement.....	@ \$1.35	4 05
2	“ Portland “.....	2.35	4 70
84	pounds No. 2 unfinished composition “	.20875	17 54
2,817	“ unfinished cast iron.....	“	63 38
136	staples.....	“ .02	2 72
31	pounds ball wicking.....	“ .17	5 27
60	“ leather board.....	“ .055	3 30
244	“ brass rod, various sizes . . .	“ .23	56 12
77	“ tallow.....	“ .0525	4 04
198	“ leather.....	“ .28	55 44
13	“ phospo bronze wire.....	“ .60	7 80
10	“ oak filler.....	“ .18	1 80
960	“ lead washers, various sizes.	“ .05	48 00
1,200	paving blocks.....	“ .04	48 00
2,200	“ bricks.....	“ .011	24 20
Total.....			<u>\$138,517 86</u>

## APPENDIX C.

## REPORT OF THE ENGINEER.

ENGINEERING DEPARTMENT,  
50 CITY HALL, February 1, 1901.

GEN. A. P. MARTIN,  
*Water Commissioner :*

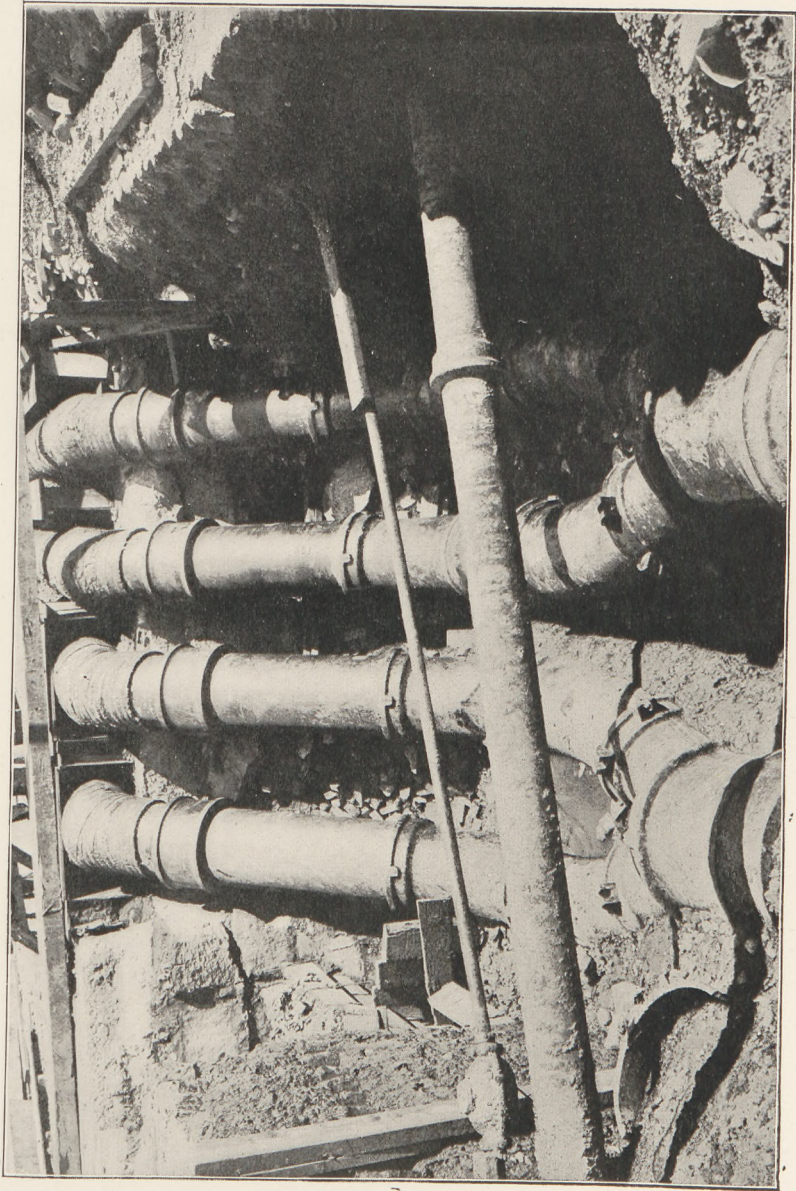
SIR, — I hereby submit the following report of the work done and the records kept during the past year:

During the past year 20.4 miles of main pipe have been laid and 11.1 miles abandoned, making a net increase of 9.3 miles, and a total length in the system of 713.4 miles. The following classification will indicate to some extent the character of the work done:

	Miles.
(1) Extension of large supply mains . . . . .	1.0
(2) Extension of mains for new buildings (by petition) . . . . .	5.6
(3) Relaying old or small mains . . . . .	4.4
(4) Relaying in advance of street construction . . . . .	6.0
(5) Miscellaneous work largely necessitated by other construction . . . . .	3.4

The most important work done during the year is as follows:

The 30-inch high service main was extended in Washington street, Dorchester, from Bowdoin street to Talbot avenue, there connecting with a 16-inch line. A 20-inch main was laid in B street, South Boston, from Danby to Claflin street, thence crossing under twenty-three freight tracks of the N. Y., N. H. & H. R.R. and through Binford street to A street; this line materially improves the fire service in a district where values are rapidly growing. A 24-inch pipe was laid from the 30-inch high service main on the Common to the subway, it there divides into three 16-inch pipes, which pass over the subway roof in channels provided for the purpose, and which are each connected with the 16-inch line in Tremont street.



TWENTY-INCH PIPES CROSSING OVER BRIDGE ON TREMONT STREET AT CASTLE SQUARE.

The new location of the Boston & Providence R.R. made it necessary at Castle square to abandon two lines of 30-inch pipe for a distance of about 120 feet; four lines of 20-inch steel pipes were substituted for them and were carried under the floor of the new highway bridge over the railroad tracks and connected by 30" × 20" Y branches on each end; in addition to being enclosed in tight boxes formed by special bridge construction the steel pipes were covered by Voorhees patent insulation as a further protection from freezing.

The work of abolishing the grade crossing at Cambridge street, Charlestown, carried out by the B. & M. R.R., caused a number of changes in the water pipes in that vicinity — 820 feet of 30-inch wrought-iron cement-lined pipe was abandoned in Cambridge and Perkins streets, and a like amount of 30-inch cast-iron pipe was laid in the same streets to replace it; the old cement-lined pipe, laid in 1869, was found to be remarkably clean on the inside; its wrought-iron shell, originally 0.16-inches thick was reduced in spots by rusting to a thickness of 0.11 inches, and the cement lining and covering showed but slight tensile strength; 3,150 feet of 12-inch pipe was laid in Cambridge street and in other streets affected by the change of grade, replacing in each case pipe of a small size; also 680 feet of 6-inch was relaid in different streets.

The following work was done in connection with the changes of grade on Dorchester avenue, Boston street and Swett street.

1,266	feet of	16-inch	pipe	was	laid	in	Dorchester	ave.,	replacing	12-inch.
154	"	"	8	"	"	"	"	"	Washburn	st.,
75	"	"	8	"	"	"	"	"	raised	in
222	"	"	8	"	"	"	"	"	laid	"
125	"	"	8	"	"	"	"	"	raised	"
290	"	"	6	"	"	"	"	"	laid	"
928	"	"	16	"	"	"	"	"	"	Kemp
150	"	"	16	"	"	"	"	"	"	in
844	"	"	20	"	"	"	"	"	laid	"
210	"	"	20	"	"	"	"	"	raised	"
623	"	"	12	"	"	"	"	"	laid	"
265	"	"	12	"	"	"	"	"	raised	"
532	"	"	16	"	"	"	"	"	laid	"
762	"	"	8	"	"	"	"	"	"	Swett
									"	Ellery

The 12-inch mains in Atlantic avenue and Commercial street, from Oliver to Prince, and the 6-inch main in Clinton street, from Commercial to Atlantic avenue, were relaid with 16-inch pipe, making a great improvement in the fire service of the north-eastern section of the City.

A 16-inch main was laid in Summer street, from Dewey square to the foot of Bedford street, replacing a 12-inch pipe.

The 16-inch main in Western avenue, Brighton, was extended from Everett street to Market street, replacing a 12-inch main.

A 16-inch main was laid in Blue Hill avenue, Dorchester, from Gaston to Edgewood street, replacing an 8-inch pipe.

A 16-inch main was laid in Corinth street, West Roxbury, from Birch to Washington street, replacing a 6-inch pipe.

A 12-inch main was laid on each side of Washington street, from Canton street to Northampton street, replacing a single line of 6-inch pipe and reinforcing the supply in a district where the fire supply was altogether inadequate.

A number of other streets in different parts of the City were relaid with 12-inch, 10-inch and 8-inch pipe, to improve the existing service; about one-half the total amount of work done throughout the year was of this class.

In relaying practically no leaks have been found in the joints of the old pipes, and the fact that no considerable amount of water is wasted in this way is a tribute to careful and effective work.

Considerable attention has been given to improving the designs of the gates and hydrants; the old B. W. W. type of gate, with body in three pieces, and with heavy lead joints, is being given up as fast as new drawings, patterns, etc., can be made. The type of gate adopted is equally durable, much lighter, and consequently more economical. The Bachelder independent valve hydrant is now being manufactured exclusively, from drawings made in this office; each outlet is controlled by its own valve, making it possible, without shutting off the water, to connect a second and third engine to a hydrant already in use.

The patterns owned by the Water Department (400 in number comprising 2,100 different parts) have been marked with composition letters and listed in a "Pattern Book;" a room has been set apart for their storage with stalls, shelves, etc., suitably marked.

#### ELECTROLYSIS.

While the water-pipe system of the City has not suffered from electrolysis in the past to so great an extent as was feared, there is reason to believe that the conditions are growing worse, and that something must be done or the pipe system will suffer serious damage.

The accompanying report of Messrs. Stone and Webster shows the special work which has been done during the past year to determine the electrical condition of the pipe system

and in addition to this special work a large number of observations were made when pipes were exposed in excavations; these observations cover every section of the City, and show that serious damage is being done to services in some places.

WILLIAM JACKSON, Esq., *City Engineer*,

CITY HALL, BOSTON, MASS. :

DEAR SIR, — In our report on the electrolysis of water pipes for the year 1899 we considered in detail the voltmeter readings in various sections of the City, paying much attention to a comparison with what we had found the preceding year. In our investigations for 1900 we have not deemed it essential to take so many readings or to make so detailed a comparison, for the reason that we find the conditions varying so little from year to year. Therefore, in this report we make but a general comparison of the conditions in 1899 and 1900, emphasizing only such points as we believe of particular importance, notably the serious conditions that still prevail in the Field's Corner District.

In 1899 we made two electrical surveys of the City, taking about 450 voltmeter readings each time; in 1900 we took hardly more than 250 such readings, a sufficient number, however, to enable us to report with much certainty upon the general conditions. From the accompanying tables it will be seen that the grand averages of the two years are about the same, 1 volt being the positive average for 1899, and 1.1 for 1900; 1 and 1.1 the negative averages for 1899, and 1.3 for 1900. So also with the maximum readings, +6 being the highest positive reading for 1899 and +6 for 1900; — 10 the highest negative reading for 1899 and — 12 for 1900. Therefore, we consider the conditions about the same for the two years, with certainly no general improvement for 1900. In considering the Boston Elevated Railway system apart from the others, it will be seen that likewise the conditions for the two years were about the same. Owing to a new line having been opened on Commonwealth avenue to Chestnut Hill Reservoir there is a local increase in the size of the readings in Brighton, and we should expect this slight difference on account of the unusually heavy grade on that avenue.

The other roads, taken by themselves, show, on an average, conditions somewhat for the worse.

We use in making up our averages only the maximum readings; therefore where we took but a single reading in any district this will be the average as well as the maximum. In one instance (Lynn & Boston Railroad, on Breed's Island), the fluctuation was from — .5 to — 9.5, according to the position of the cars. But we used only — 9.5 in making up our averages. We may further add that where there is the most uninterrupted traffic, and consequently the most continuous flow of current, the readings are apt to be the steadiest, the maximum, minimum and average

tending to become one and the same. Much variation in voltage generally indicates an inferior return circuit, but the greatest fluctuations are apt to be in districts where the traffic is light, hence are not a sure sign that there is any very large flow of current on to the pipe system. The above case is where a single car caused almost the entire movement of the needle, and, being in a negative district, we do not consider it cause for alarm. The troubles to pipe caused by the Lynn & Boston Railroad are likely to be on some other water system than that belonging to the City of Boston.

The West Roxbury & Roslindale Street Railway has comparatively light traffic, and, although we found — 12 volts on Oakland street, the needle only shot up to that figure momentarily, so we are not prepared to say that serious trouble is imminent because of this reading.

High + readings on River street, in the Mattapan district of the Norfolk-Suburban Street Railway, still maintain, and there we expect that trouble will soon be apparent.

We come now to a point to which your attention should be particularly called, namely, corrosion along Park street, Dorchester avenue, and Neponset avenue, in the Field's Corner district of Dorchester. We have been accustomed to ask for special excavations in order to examine the service pipes of this district, and last year we reported the notes that we made on several of these investigations. So evident is it now, however, that the lead services in this locality are being seriously injured that we no longer think it worth while to have special excavations made beyond those that are necessitated by the frequent cases of bursted pipes.

Since our last report, breaks at the following places have occurred, all of which cases we attribute to electrolysis:

June 8, 1900, No. 1294 Dorchester avenue, between Linden and Leedsdale streets.

July 20, No. 208 Neponset avenue, opposite Boutwell avenue.

January 25, 1901, No. 117 Park street.

February 21, Neponset avenue and King street.

March 1, No. 105 Park street.

March 7, Park street, near corner of Geneva avenue.

These vary in distance from the power station from one-half mile to one mile. Within these limits we should expect to find corrosion on almost any of the services.

Believing that the mains themselves were probably affected, we had six excavations made on July 23, 1900, all on Park street, between Adams street and Dorchester avenue, the short section where the services have suffered the most injury. We found, however, almost no corrosion beyond the usual surface rust, except in one instance. There, on the bell of the joint, the graphite formation could be shaved to a slight depth with a knife. Although the mains have, so far as we know, shown no marked corrosion, we should be surprised to learn that they are absolutely free. We happen to have found almost no signs of electrolytic

injury to mains in that district, but of course this does not prove that the injury is not going on in sections adjacent to where we made our inspections.

In other localities there have been cases of bursting pipes, but only in the case, at the corner of Harrison avenue and Massachusetts avenue, do we attribute the trouble to electrolysis. Along here we had four excavations made in order to examine the conditions. Only slight traces of corrosion were found.

There was during the winter a break on Clinton street, another on Atlantic avenue, corner Summer street, another on Causeway street, between Friend and Portland streets, none of which do we think were due to electrolysis, unless it took place years ago, for the voltmeter readings have for several years past indicated that in these localities the current flows on to the pipes and not off of them, and there is no indication that the bursting was due to corrosion at the joints.

**General Summary of Voltmeter Readings for Years 1899 and 1900.**

STREET RAILWAYS.	1900.		1899.			
			Spring.		Autumn.	
Boston Elevated Railway... {	Max. +3.5	- 6	+4	- 4	+3	-6
	Av. +0.8	- 1.1	+0.9	- 0.9	+0.18	-1
Other roads..... {	Max. +6	-12	+6	-10	+6	-6
	Av. +1.9	- 3.3	+1.5	- 1.4	+1.3	-1.8
All combined..... {	Max. +6	-12	+6	-10	+6	-6
	Av. +1.1	- 1.3	+1	- 1	+1	-1.1

Yours very truly,

(Signed) STONE & WEBSTER.

**IN GENERAL.**

During the year there has been an unusual number of breaks in large mains. On August 8 the easterly 30-inch main in Tremont street broke about 70 feet south of Boylston street. At this point the original line of main pipe, laid about 1850, had been supported during the construction of the subway, the excavation for which extended 17 feet below the pipe; when uncovered a rigid support in brickwork was found a few feet south of the break, while northerly no rigid support was found for a distance of 24 feet. The pipe was of normal thickness, and the iron of excellent quality. This main was uncovered for a distance of 220 feet between Boylston and Eliot streets, its position in relation to the subway being practically the same as at the point



where the break occurred; the supports were found to vary in character, at one point the pipe being in immediate danger of failing, the old supports were removed and new ones of a uniform character were built under the pipe for the entire distance. A further examination of the conditions under this main should be made still further south of Tremont street. The easterly 30-inch main on Tremont street again broke on September 5, opposite Hollis street. At this point the pipe had been supported during the construction of the subway below it; when the broken pipe was removed it was found to have rested directly upon a short upright piece of 8 x 8-inch spruce, imbedded in cement at the point where the break occurred. Between October 19 and December 5 six breaks occurred in the 48-inch main which runs from Chestnut Hill reservoir to Boylston street, Brookline, connecting with the three large mains from the Brookline reservoir; this main was laid in 1868, and up to the time of the first break had been connected directly with Chestnut Hill reservoir, and consequently had been subjected to a head not exceeding 15 pounds; the immediate cause of the development of the breaks was an increased pressure on the low service of the City furnished by the Metropolitan Water Board, which increase, the main, if of normal condition, should have easily withstood. The broken pieces indicated in two or three cases at least the existence of old cracks, and in most of the samples tested the iron was found to be of inferior quality. The line is now in service under a pressure of over 30 pounds. The following is a statement of tests made of pieces cut from broken pipes:

Tests of 48-inch Pipe Broken in Clinton Road, Brookline, October 19 to December 5, 1900.

	First Break.	Second Break.	Third Break.	Fourth Break.	Fifth Break.
Graphitic Carbon.....	3.06 per cent.	2.62 per cent.	2.19 per cent.	2.70 per cent.	2.69 per cent.
Combined Carbon.....	0.08 "	0.06 "	0.99 "	0.14 "	0.30 "
Silicon.....	4.18 "	4.127 "	2.32 "	2.64 "	1.96 "
Sulphur.....	0.027 "	0.051 "	0.076 "	0.098 "	0.082 "
Phosphorus.....	0.90 "	0.928 "	1.27 "	1.083 "	1.33 "
Manganese.....	0.93 "	0.86 "	0.34 "	0.34 "	0.24 "
Tensile strength per square inch (1).....	12,730 pounds.	13,080 pounds.	15,100 pounds.	17,111 pounds.	16,106 pounds.
" " " (2).....	15,980 "	13,490 "	14,770 "	17,419 "	16,488 "
Transverse strength for 26-in. x 2-in. x 1-in. (1) ...	1,549 lbs.def., .307 in.	1,745 lbs.def., .394 in.	1,816 lbs.def., .054 in.	2,090 lbs.def., .545 in.	1,950 lbs.def., .418 in.
" " " " (2).....	1,271 "	1,585 "	1,561 "	2,080 "	1,865 "
" " " " (3).....	910 "	1,455 "	-	-	.442 "
" " " " (4).....	1,600 "	1,470 "	.277 "	-	-

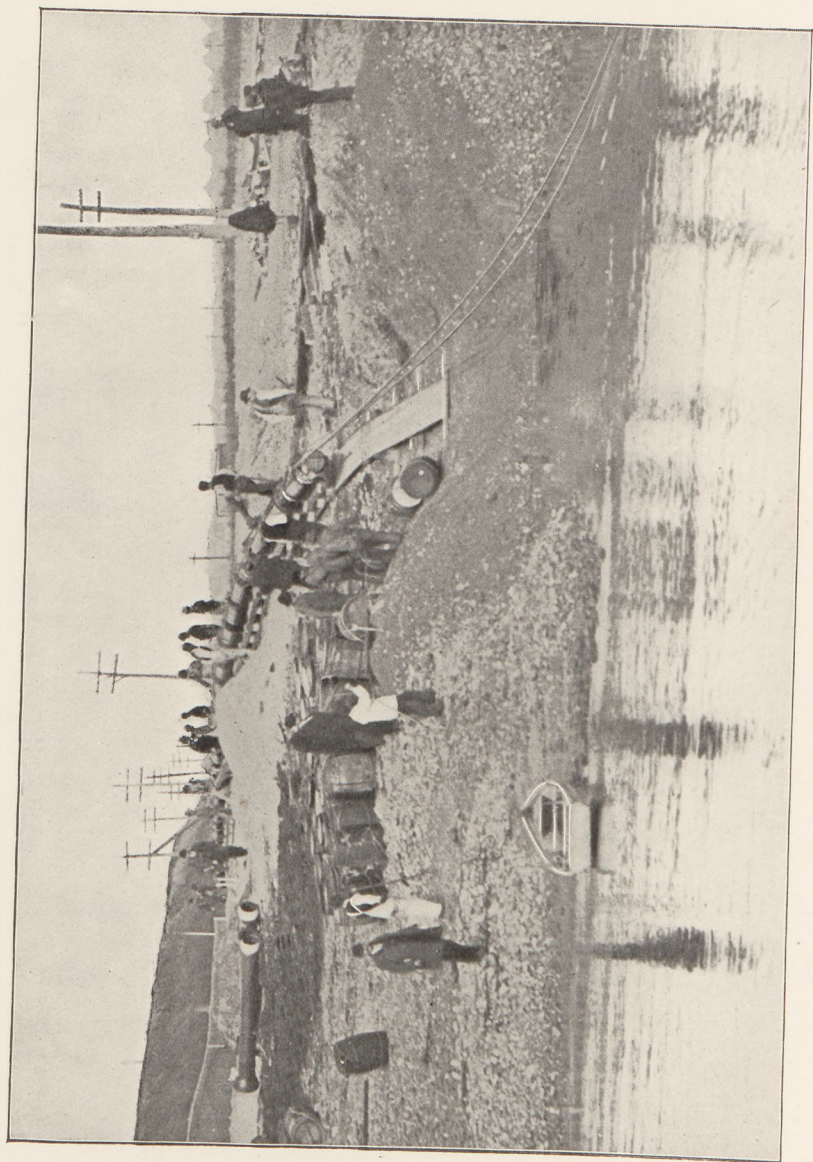
In view of the dangerous and uncertain conditions existing at Shirley Gut it was decided to lay a second main under the Gut to Deer Island. The new line was located about 350 feet west of the 8-inch line laid in 1896, at a point where the channel is 150 feet wide at low water mark. After a trench had been dredged across the channel a line of 12-inch flexible pipe, which had previously been made up on rolls on the Winthrop shore, was hauled across the channel by steam power, the friction of the pipe on the bottom of the channel being reduced by empty oil casks attached to the pipe. The trench was then refilled. A test showed the line to be practically tight. The pipe used, shown in cut on opposite page, was of special design; the fact that the lead must remain in the bell, whatever position the pipe assumes, is believed to be of advantage in sub-aqueous work.

On May 10 the Metropolitan Water Board made a taking of the lines which formerly supplied East Boston and Chelsea, from the Boston side of the Mystic draw, through Chelsea and across Chelsea creek to East Boston, a total length of about 10,600 feet of pipe. A 24-inch siphon is now being laid under the Mystic river by the Metropolitan Board, they having removed the old 24-inch and 30-inch siphons, both of which were broken.

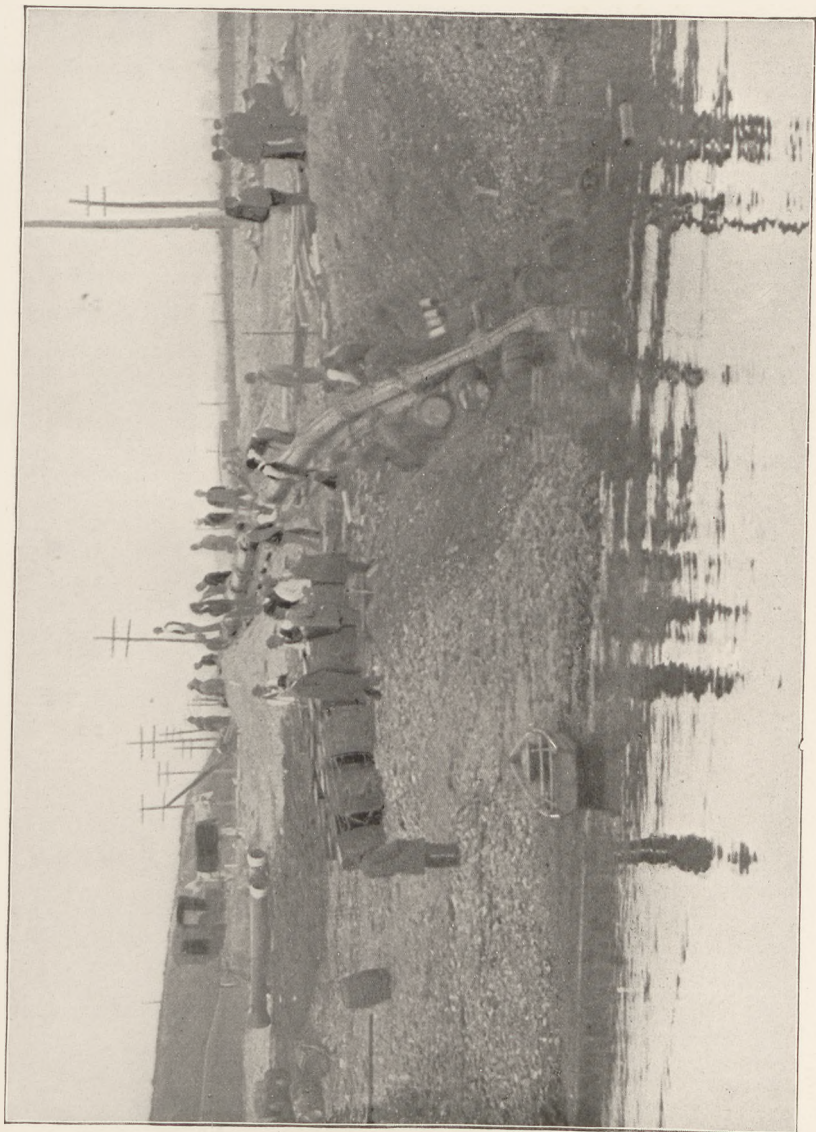
Respectfully submitted,

WILLIAM JACKSON,  
*City Engineer.*





HAULING 12-INCH FLEXIBLE PIPE ACROSS SHIRLEY GUT.



HAULING 12-INCH FLEXIBLE PIPE ACROSS SHIRLEY GUT.



HAULING 12-INCH FLEXIBLE PIPE ACROSS SHIRLEY GUT.

## GENERAL STATISTICS.

## BOSTON WATER DEPARTMENT.

Daily average amount used through meters, gallons . . . . .	15,760,400
Number of services . . . . .	87,525
Number of meters . . . . .	4,445
Number of motors . . . . .	120
Number of elevators . . . . .	545
Length of supply and distributing mains, in miles . . . . .	713.4
Number of public fire hydrants in use . . . . .	7,321
Yearly revenue from annual water rates . . . . .	\$1,295,719 91
Yearly revenue from metered water . . . . .	\$901,250 20
Percentage of total revenue from metered water . . . . .	41.0
Yearly expense of maintenance . . . . .	\$507,163.96



*Monthly Rainfall in Inches During 1900 in Various Places in Eastern Massachusetts.*

PLACES.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Frammingham .....	4.64	8.82	6.24	2.48	4.22	2.91	2.24	2.25	3.41	3.78	5.37	2.54	48.90
Dam 4, Ashland .....	4.94	9.12	6.17	2.43	4.06	3.27	2.50	2.45	3.31	3.65	5.97	2.81	50.68
Cordaville .....	5.24	9.78	6.67	2.83	4.72	3.01	2.25	2.21	3.48	4.18	5.90	3.10	53.37
Lake Cochituate .....	4.96	8.59	5.82	2.24	4.77	3.02	2.65	3.58	3.84	3.65	5.52	2.67	51.31
Chestnut Hill Reservoir .....	4.38	8.74	5.08	2.24	5.41	2.90	2.68	2.15	4.12	3.79	5.30	2.85	49.59
Spot Pond .....	4.95	7.44	4.81	1.96	4.98	2.26	1.87	2.18	3.58	3.50	4.59	2.29	44.41
Gibson street, Dorchester .....	3.37	7.17	5.09	2.10	5.82	2.11	2.67	2.07	4.49	4.26	5.89	2.09	47.13
Cambridge Observatory .....	4.71	8.18	4.86	1.60	4.33	2.47	2.24	2.76	4.54	3.71	5.24	2.48	47.72
Waltham, Boston Manufacturing Company .....	4.92	8.00	5.23	2.28	4.78	2.70	2.52	2.20	4.97	4.13	5.26	2.78	49.77
Lowell, Locks and Canals Company .....	5.45	10.12	6.57	2.16	3.78	2.71	2.65	3.73	4.20	3.32	6.18	3.01	53.88
Average of above ten places .....	4.756	8.506	5.649	2.232	4.747	2.736	2.427	2.558	3.994	3.797	5.622	2.662	49.676

*Rainfall in Inches and Hundredths at Gibson-street Pipe Yard, Dorchester, for the Year 1900.*

1900.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1.....	0.58									0.02		0.02
2.....			1.85									
3.....				0.48	2.58	0.04	0.08			0.04		
4.....					0.10	0.53						
5.....		0.89										1.45
6.....			0.23									0.03
7.....			0.20				0.04			0.06		
8.....	0.10				0.10			0.32			0.18	
9.....		0.60			0.34	0.04		0.04		0.90	0.14	
10.....	0.03									1.30	0.51	
11.....										0.30		
12.....	1.02									0.12		
13.....		1.64		0.62			0.50	0.08				
14.....								0.28		0.65		
15.....	0.10				0.38	0.07				0.10		
16.....	0.10		2.29					0.50	1.30		0.01	0.02
17.....								0.39	0.35	0.13	0.04	
18.....		0.50			0.03				2.15			
19.....			0.02	0.65	1.07		0.02	0.10	0.07		0.03	
20.....	0.23		0.20		1.12				0.08		0.20	
21.....	0.10								0.08		0.12	
22.....					0.10				0.16		0.04	
23.....		2.03		0.19		1.11					0.09	
24.....				0.15			0.01	0.01	0.03	0.09		0.19
25.....		1.51									0.38	
26.....	0.34						1.62				2.48	
27.....			0.23				0.40				0.82	
28.....								0.35		0.10	0.05	
29.....	0.77					0.30			0.07	0.45		0.08
30.....				0.01		0.02			0.20		0.80	
31.....			0.07									0.30
Totals...	3.37	7.17	5.09	2.10	5.82	2.11	2.67	2.07	4.49	4.26	5.89	2.09

Total rainfall during the year, 47.13 inches.

*Rainfall in Inches and Hundredths at Albany-street Pipe Yard, Boston,  
for the Year 1900.*

1900.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1.....	0.60											
2.....			1.70									
3.....				0.40		0.50						
4.....					2.50							
5.....		0.60										1.40
6.....												
7.....			0.45					0.27				
8.....	0.09											
9.....		0.50			0.20						0.48	
10.....	0.03							0.15				
11.....										2.42		
12.....	1.30						0.50					
13.....	0.13	1.50		0.52								
14.....								0.32		0.45		
15.....								0.25				
16.....	0.03		2.05		0.32			0.51	1.34	0.05		
17.....												
18.....		0.60					0.29		2.65			
19.....				0.45				0.20				
20.....			0.15		2.02						0.18	
21.....	0.69											
22.....									0.50			
23.....		1.80				0.90					0.08	
24.....				0.39								0.23
25.....		1.40										
26.....	0.48						1.80					
27.....			0.18								2.80	
28.....						0.53				0.45		0.04
29.....	0.75											
30.....									0.25		1.21	
31.....												0.49
Totals..	4.10	6.40	4.53	1.76	5.04	1.93	2.59	1.70	4.74	3.37	4.75	2.16

Total rainfall during the year, 43.07 inches.



Statement showing Total Number of Employees, with Salaries or Wages, on February 1, 1900, and on January 31, 1901.

	SALARY OR WAGES.	February 1, 1900.	January 31, 1901.
Commissioner.....	\$5,000 per annum.....	1	1
Assistant Commissioners.....	\$3,000 " " .....	1	2
Superintendents .....	\$3,000 " " .....	2	2
Assistant Superintendents.....	\$2,000 " " .....	4	2
Clerks .....	\$2,000 and over per annum.....	4	4
Clerks.....	Under \$2,000 per annum.....	32	30
Messengers .....	\$1,000 and under per annum.....	5	5
Engineers.....	\$1,400 to \$2,400 per annum.....	3	3
Inspectors .....	\$1,100 to \$1,800 " " .....	29	30
Electrician .....	\$1,200 per annum.....		1
Pattern maker.....	\$1,300 " " .....		1
Yard master.....	\$1,800 " " .....	1	1
Yard man.....	\$1,100 " " .....	1	1
Master machinist.....	\$1,600 " " .....	1	1
Foremen .....	\$1,200 to \$2,000 per annum.....	12	13
Foremen .....	\$3.00 to \$3.50 per diem.....	13	13
Mechanics .....	\$2.00 to \$3.25 " " .....	28	27
Skilled laborers.....	\$2.10 to \$3.00 " " .....	201	201
Laborers .....	\$2.00 per diem... ..	436	405
Boys.....	\$1.25 to \$1.75 per diem .....	14	10
		788	753

<sup>1</sup>BOSTON WATER BOARD.

ORGANIZED JULY 31, 1876.

TIMOTHY T. SAWYER, from July 31, 1876, to May 5, 1879; and from May 1, 1882, to May 4, 1883.  
 LEONARD R. CUTTER, from July 31, 1876, to May 4, 1883.<sup>2</sup>  
 ALBERT STANWOOD, from July 31, 1876, to May 7, 1883.<sup>2</sup>  
 FRANCIS THOMPSON, from May 5, 1879, to May 1, 1882.<sup>2</sup>  
 WILLIAM A. SIMMONS, from May 7, 1883, to August 18, 1885.  
 GEORGE M. HOBBS, from May 4, 1883, to May 4, 1885.  
 JOHN G. BLAKE, from May 4, 1883, to August 18, 1885.  
 WILLIAM B. SMART, from May 4, 1885, to March 18, 1889.  
 HORACE T. ROCKWELL, from August 25, 1885, to April 25, 1888.  
 THOMAS F. DOHERTY, from August 26, 1885, to May 5, 1890; and from May 4, 1891, to July 1, 1895.  
 ROBERT GRANT, from April 25, 1888, to July 18, 1893.  
 PHILIP J. DOHERTY, from March 18, 1889, to May 4, 1891.  
 JOHN W. LEIGHTON, from May 5, 1890, to July 1, 1895.<sup>2</sup>  
 WILLIAM S. McNARY, from August 15, 1893, to November 5, 1894.  
 CHARLES W. SMITH, from January 23, 1895, to July 1, 1895.

<sup>1</sup>WATER COMMISSIONERS.

CHARLES W. SMITH, from July 1, 1895, to January 20, 1896.<sup>3</sup>  
 JEREMIAH J. MCCARTHY (Acting), from January 20 to February 1, 1896.  
 JOHN R. MURPHY, from February 1, 1896, to October 17, 1899.<sup>3</sup>  
 BENJAMIN W. WELLS (Acting), from October 17, 1899, to December 28, 1899.  
 AUGUSTUS P. MARTIN, from December 28, 1899, to present time.

*Assistant Water Commissioners.*

JEREMIAH J. MCCARTHY, from July 1, 1895, to January 20, 1896.  
 EDWARD C. ELLIS, from February 17, 1896, to November 1, 1900.  
 MELVIN P. FREEMAN, from February 7, 1900, to present time.  
 WILLIAM H. OAKES, from November 1, 1900, to present time.

*Chief Clerk and Secretary.*

WALTER E. SWAN.

*General Superintendent Income Division.*

JOS. H. CALDWELL.

*Superintendent Distribution Division.*

WILLIAM J. WELCH.

*City Engineer and Engineer of the Department.*

WILLIAM JACKSON.

<sup>1</sup> Under Chap. 449 of the Acts of 1895, the Boston Water Board was abolished, and the Water-Supply and Water-Income Departments consolidated and placed under the charge of one Water Commissioner.

<sup>2</sup> Deceased.

<sup>3</sup> Resigned.



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