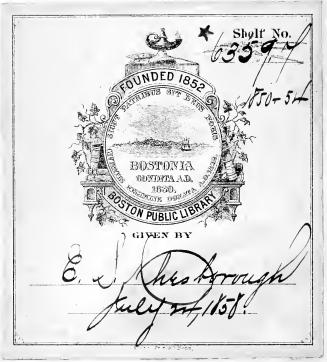


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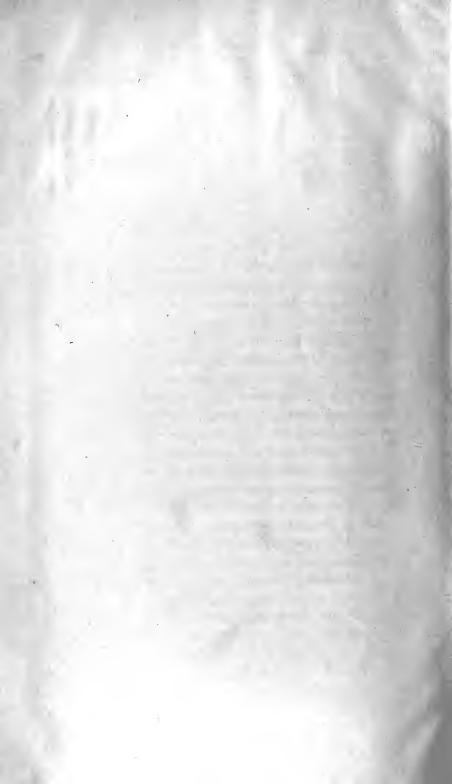






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City Document.—No. 45.

ANNUAL REPORT

OF THE

COCHITUATE WATER BOARD,

FOR 1850.





BOSTON: 1850. JOHN H. EASTBURN, CITY PRINTER.

In Common Council, December 12, 1850.

Laid on the table, and ordered to be printed.

Attest:

W. P. GREGG, Clerk C. C.

To the Honorable the Board of Mayor and Aldermen and the Common Council.

GENTLEMEN:

off

In conformity with the 14th section of the ordinance of Dec. 31, 1849, establishing the Cochituate Water Board; the following report is made.

The total number of water takers whose supply was cut off for non-payment of rates is 496, of these 335 afterwards paid and had the water let on again; leaving 161 still cut off.

For a detailed account of the above receipts for water and the different classes of water takers, see Appendix A. For receipts from other sources, see Appendix B.

The expenditures of the department during the same period, have been for the extension of the works to East Boston, - - - - - - \$283,715 82

Expended last year on the same account, by the Water Commissioners, - 29,170 40

Probable amount required for complet-

ing the same, say. - - - 30,000 00

\$342,886 22

This amount includes not only the cost of taking the 20 inch main to East Boston, but also that of the Reservoir, lands and distribution. For further details see

Appendix C.

The expenditures for all other purposes, including the settlement of land claims and damages, salaries, wages, repairs of aqueduct and pipes, completing the Beacon Hill Reservoir and maintaining the receiving and compensating reservoirs in the country, &c., &c., have been, - - - \$47,095 28

For further details, see Appendix D.

The total amount expended by the City to Dec. 4th, on account of the Water Works, not including interest paid by the Treasurer, is - - \$4,321,794 26 See Appendix E.

The total estimated value of water used for City purposes, and bringing in no revenue, is \$2,405 20. This does not include anything for fire hydrants and fountains, which are of undoubted importance to the City; but the value of which there is no rule for estimating.

For a detailed account of City Buildings, &c., supplied with water, see statement F in the Appendix.

The total length of distribution pipes laid since January 4th, is

In Boston proper, - - 260 feet. "South Boston, - - 1 mile 1702 "

" East Boston, including length of main from the Haymarket

Square, - - - 12 miles 1146 "

Amount, 13 miles 3108 feet.

The total length laid from the commencement of the works to the present time, in all parts of the City and

in Brookline, Roxbury, Charlestown and Chelsea is 96 miles 4301 feet. This does not include the service pipes, of which there are 15,143 in number, an increase of 1812 since last year.

The number of fire	hyd	rants	now	establ	lished,	is
In the City proper,	-	-	-	-	-	791
" South Boston,	-	-	-	-	-	154
" East Boston,	-	-	-	-	-	35
" Brookline, -	-	-	-	-	-	1
" Roxbury, -	-	-	-	-	-	5
" Charlestown,	-	-	-	-	-	11
" Chelsea,	-	-	-	-	-	8
/						
		Total		_	-	1005

The extension of the works to East Boston has progressed very nearly to completion; and it is believed the Cochituate water will be introduced into the Reservoir on Eagle Hill by or before the close of the current year.

The main pipe for the supply of East Boston is 20 inches in diameter, and commences at the Haymarket Square. It crosses Charles River on the lower side of the Warren Bridge partly on independent pile work, passing the draw by means of an inverted Syphon which leaves sufficient space for the largest class of vessels that can pass this bridge. Thence it passes through the Square and Chelsea street in Charlestown, and thence across Mystic River on independent pile work by the upper side of Chelsea Bridge. In passing this stream, two inverted Syphons were placed opposite the draws in Chelsea Bridge, one near the Charlestown shore, and the other near the Chelsea shore. The latter leaves a clear space of 50 feet, which is considerably more than

the width of the draw opposite. The enlargement was made on account of the possibility of a larger class of vessels being built at Medford than has been constructed there heretofore. The main then passes along the Salem Turnpike and though Williams and Marginal Streets in Chelsea, and about 400 feet beyond the grounds of the U. S. Marine Hospital it turns and crosses Chelsea Creek to the Reservoir on Eagle Hill. The channel of this creek is passed by a flexible pipe, instead of a pile bridge and Syphon near the East Boston Free Bridge, as was originally contemplated.

This change was made with the concurrence of the Water Committee, and it is believed will result in a saving of \$30,000 in the first cost of the work, besides shortening the length of the main 1 1-5 miles, and consequently making a material increase in its capacity to discharge water into the East Boston Reservoir. This reservoir is 30 feet deep, and will hold, when filled to a level 3 feet below its top, 5,591,816 wine gallons.

To the main pipe there has been attached 11 fire hydrants in Charlestown and 8 in Chelsea. These are to be used only on the occurrence of fires, and not for any other purposes.

During the year two general examinations of the interior of the aqueduct have been made. On the upper portion of the line a great many small leaks into the aqueduct exist. Those have been there, with but little exception, from the commencement, and it was impossible to keep them out at first, without very great expense, and serious delay in the completion of the work. As similar springs were known to exist in some portions of the Croton Aqueduct, without injuring the stability of that structure, it was believed that they would be equally harmless here; and the result of our experience

thus far, confirms this belief. Occasionally a spring is known to bring in sand or other material from the outside of the conduit. Whenever this occurs, it is deemed important to stop the spring; but in no case so far, has there been any difficulty; and those places which at first caused some anxiety on this account, have ceased to do so.

Several portions of the aqueduct were built on puddled embankments. Though a very economical mode of construction, it was looked upon as somewhat of an experiment. But the result shows that where these embankments were made of sand and gravel the aqueduct has already come to a firm bearing, and has given very little trouble with regard to repairs. Where the aqueduct was built upon puddled clay the result has not been so satisfactory; but even with these it has not been necessary to make any repairs during the year, except in one place; and then the amount expended was very small.

The external structures along the line of the works are all in good order. The excessive rains of the past season have washed the embankments very little. Owing to the lateness of the season at which the Beacon Hill reservoir was finished last year, it was not advisable to point the joints of the masonry then. This caused some leakage, which, though trifling in amount, gave an unsightly appearance to portions of the structure. During the past season, the pointing or cementing, of the joints has been thoroughly done; and the leakage has almost entirely disappeared.

Of about thirty claims for land and damages to land, &c., remaining unsettled when the late Water Commissioners left the work, we regret to say that only about one half have been adjusted since; and most of those

still unsettled are very difficult cases. Nothing but tedious legal processes can bring them to an end, unless the City will submit to what we think very exhorbitant demands. A few of these claims are in a fair way to be settled by the close of the current year; but we fear that about ten will have to be left for our successors in office to adjust.

The amount of water wasted from Lake Cochituate, and not allowed to enter the aqueduct at all, since January 4th, cannot be estimated very accurately; but enough is known to enable us to state that it is a little over an average of 15,000,000 wine gallons for every day. No estimate has yet been made of the entire quantity consumed in the City; but occasional trials show that the daily draught from the Brookline reservoir varies from 4,000,000 to 6,000,000 gallons. This would show that the Lake might have supplied during the past season an average of 20,000,000 gallons, could it all have been saved. This, however, was not the case, the capacity of the Lake for retaining the large quantities which occasionally fell in a few days, being insufficient.

Notwithstanding the experience of this and of last year satisfactorily shows the safety of the estimate of the Commissioners of 1845, that the Lake may be relied upon to furnish 10,000,000 gallons a day, we think that its capacity for supplying the City in dry seasons should not be estimated beyond this amount. The average daily consumption by the City during the next year when the Cochituate water will be introduced into East Boston, will probably be near 6,000,000 gallons,—or 60 per cent. of the estimated reliable capacity of the Lake. This naturally suggests that at no very distant day 10,000,000 gallons will be required. In the mean-

time it should be remembered that much over 6,000,000 gallons a day cannot be drawn from the Brookline Reservoir, through the pipes already laid, without injuriously affecting the service in the elevated portions of the City. This will make it necessary to enforce rigidly the regulations of the 27th section of the new water ordinance, in order to prevent any unnecessary waste. As one means of doing this, the introduction of Water Meters has been commenced. But these are so expensive, that no practical benefit can be derived from them except in cases where large quantities of water are consumed. The great amount of waste will be found to arise from carelessness in private houses, stores and offices.

The compensating reservoirs were filled to overflowing in the spring, and have undoubtedly supplied as much water as it was necessary for the City to furnish to the Mills at Billerica and below. No complaint whatever on this account has come to the knowledge of the Board.

In view of the Water Tariff, and the Water Ordinance, which are to take effect from the first proximo, we do not deem it advisable to include in this report any further "opinions and recommendations."

Which is respectfully submitted.

E. S. CHESBROUGH, W. S. WHITWELL, J. AVERY RICHARDS, Cochituate Water Board.

Boston, Dec. 10, 1850.



APPENDIX.

A

STATEMENT showing the number of Houses, Stores, Steam Engines, &c., in the City of Boston, supplied with Cochituate Water to the 5th of December, 1850,—with the amount of Water Rates paid for 1850.

1	Boarding Hous	е, -	-	\$45	00	\$45	00		
1	do.		-	26	00	26	00		
1	do.		-	25	00	25	00		
1	do.		-	24	00	24	00		
1	do.		-	22	00	22	00		
3	do.		-	20	00	60	00		
1	do.		-	18	00	18	00		
1	do.		-	17	90	17	90		
1	do.		-	16	00	16	00		
1	do.		-	15	5 0	15	5 0		
								\$269	40
357	Dwelling House	es, ·	-	15	00	5,355	00	"	
6	do.		-	14	5 0	87	00		
46	do.		-	14	00	644	00		
1	do.		-	13	75	13	75		
8	do.			13	5 0	108	00		
1	do.			13	40	13	40		
67	do.			13	00	871	00		
8	do.		-	12	50	100	00		
65	do.			12	00	780	00		
1	do.			11	60	11	60		
9	do.		•	11	50	103	5 0		
Amo	unts carried for	ward,				8,087	25	269	40

Amo	unts brought foru	25	\$269	40				
1	Dwelling House,		\$11		11	40	Ψ	
2	do	_		25	22	50		
2	do	_	11			40		
1	do	•	11	17	11	17		
57	do	_	11	00	627			
3	do	_	10	60	31	80		
20	do	_		50		00		
1	do	_	10		10	40		
$50\overline{4}$	do	_	10	00	5,040	00		
1	do	_	9	60	9	60		
32	do	_	9	50		00		
6	do	_	9	40		40		
4	do	_	9	30	37			
1	do	_	9	20		20		
2	do	_	9			34		
108	do	_	9	00	972	00		
3	do	_	8	75		25		
1	do	_	8		8	70		
1	do		8			67		
12	do		8	60	103			
31	do	_	8		263			
10	do	_		40		00		
10	do	_	8	33	8	33		
1	do	_		25		25		
2	do	_	8	20	16	40		
160	do	_	8		1,280			
2	do	_	7	92	1,200	84		
7	do	-	7	80		60		
í	do	_	7	74		74		
$1\overline{4}$	do	_	7	60	106			
52	do	_	7	50	390			
15	do	_	7	40	111			
2	do	_	7	34		68		
1	do	_	7	30		30		
9	do	_	7			80		
1	do	_	7	08		08		
114	do	_	7		798			
15	do	_	6	80	102	00		
15	do	_	6	75	6	75		
10	do	-	6	67	66	70		
30	do	-	6	60	198	00		
50	uo	-	υ	UU	198			

Amou	ints brought forwa	rd			\$19,238	85	\$269	40
	Dwelling Houses,		\$6	50	292		п	
29	do	~	$\overset{\varphi}{6}$	40	185			
2	do	_		37		74		
$\tilde{2}$	do	_	6	30	12			
1	do	_				33		
$\overline{4}$	do	_		25	25			
19	do	_		20	117			
1	do	_		05		05		
263	do	_		00	1,578			
1	do	_		94		94		
1	do	_		84		$8\overline{4}$		
5	do	_		83		15		
31	do	-		80	179			
1	do	_		63		63		
1	do	_		62		62		
54	do	_		60	302			
90	do. " -	_	5	50	495			
72	do	_	5	40	388			
3	do	_		33		99		
1	do	_		32		32		
1	do	_		30		30		
2	do	_		25		50		
52	do	_		20		40		
1	do			17		17		
7083	do	-	5	00	35,415	00		
1	do	_		94		94		
1	do	_		80		80		
1	do	_		67	. 4	67		
27	do	_		58	12 3	66		
6	do	-		5 0	27	00		
2	do	-	4	40	8	80		
1	do	_	4	38	4	38		
2	do	•	4	30	8	60		
1	do	-	4	25	4	25		
41	do	-	4	17	170	97		
1	- do	-	4	13		13		
1	do	-	4	08		08		
2	do	-		00		00		
98	do	-		75	367			
2	do	-	3	72	. 7			
1	do	-	3	67	3	67		
Amou	unts carried forwar	d,			59,37 8	22	269	40

Amour	nts bro	mghtf	: orwar	d,			59,378	22	\$269	40
1 D	welling	g Hous	se.	_	\$3	63		63		
1	, vv Ollini	do.	_	_	" 3	55		55		
3		do.	_	_		50		50		
		do.	_	_	3	34	6	68		
2			_	_	3	33	336	33		
101		do.	-	_		27	3	27		
1		do.	-	-	3	17		17		
1		do.	-	-	3	00	36			
12		do.	-	-				72		
91		do.	-	-	2	92				
1		do.	-	-	2	87	2	87		
3		do.	-	-		75	8	25		
1		do.	-	-		70		70		
1		do.	-	-	2	67		67		
110		do.	-	-	2	50	297			
1		do.	-	-	2	33	2	33		
1		do.	-	_	2	16	2	16		
82		do.	-	_	2	08	- 170	56		
6		do.	_	_	2	00	12	00		
84		do.	_	-	1	67	140	28		
2		do.	_	_	1	66	3	32		
$\tilde{1}$		do.	_	_	- Ī	64	1	64		
1		do.	_	_	1	50	1	50		
1		do.	_	_	$\overline{1}$	45	1			
1		do.	_	_	• 1	33	1			
80		do.	_	_		25	100			
1		do.	_	_	1	17	1	17		
		do.	_	_	$\tilde{1}$	10		20		
2			-	_	$\dot{1}$	08	$\tilde{1}$			
1		do.	-	-	1	00		00		
2		do.	-	-		83		52		
44		do.	-	-	0			67		
1		do.	-	_	0	67				
1		do.	-	-	0	63				
1		do.	-	-	0	55	0			
1		do.	-	-	0	50		50		
1		do.	-	-	0	42	0	42		
									60,843	37
1	Store	, -	-	-	50	00		00		
2	do.	-	-	-	30	00	60			
1	do.	-	_	_	27	50	27	50		
1	do.		_	_	24	50	24	50		
1	do.	-	**	-	22	92	22	92		
4		. 7 6		7			104	00	C1 110	my my

Amounts carried forward,

184,92 61,112 77

Amc	unts brou	ght	forward,			\$1 84	92	\$61,112 77
1	Store,	_	_	\$17	50	17	50	,
1	do.	_	-	"16		16	50	
6	do.	-	-		00		00	
1	do.	_	-		50		50	
1	do.	-	-		00		00	
2	do.	-	-	13	00		00	
1	do.	-	_	12	67	12	67	
3	do.	-	-		50	37	50	
1	do.	-	_	12	16	12	16	
7	do.	-	-	12	00		00	
4	do.	-	-	11		44	00	
1	do.	-	-		50	10	50	
1	do.	-	-	10	40	10	40	
27	do.	-	-	10	00	270	00	
1	do.	-	-	10	25	10	25	
2	do.	-	-	9	50	19	00	
18	do.	-	-		00	162	00	
5	do.	-	-		75	43	75	
1	do.	-	-		64	8	64	
2	do.	-	-		50	17	00	
1	do.	-	-	8		8	33	
10	do.	-	-	8	00	- 80	00	
40	do.	-	-	7	50		00	•
1	do.	-	-	7	25	7		
24	do.	-	-	7		168	00	
4	do.	-	-	6	75	27		
9	do.	-	-		50	58	50	
4	do.	-	-		25	25	00	
83	do.	-	-		00	498		
5	do.	-	-		75	28	75	
1	do.	-	-		62	5	62	
16	do.	-	-		50		00	
1	do.	-	-		25	5	25	
1	do.		-		17		17	
1	do.	-	-	5	12	5	12	
298	do.	-	-		00	1,490	00	
2	do.	-	-		87	9	74	
3	do.	-	-		75		25	
1	do.	-	-		62		62	
1	do.	-	-		58		58	
32	do.	-	-	4	50	144	00.	

Amounts carried forward,

^{4,082 47 61,112 77}

	to beaut	rht forme	ard	\$4,082 47 \$61,112 77
	its broug	tht forwa	-	4 40 4 40
1	Store,	_	_	4 37 4 37
1	do. do.	_	_	4 33 4 33
1		_	_	4 25 42 50
10	do.	-	_	4 20 4 20
$1 \\ 1$	do. do.	_	_	4 17 4 17
		_	_	4 00 364 00
91	do. do.	_	_	3 87 3 87
1	do.	-	_	3 75 67 50
18		<u>-</u>	_	3 63 3 63
1	do. do.	_	_	3 62 7 24
$\frac{2}{1}$	do.	-	_	3 60 3 60
		_	-	3 50 157 50
45	do.	_	_	3 38 3 38
. 1	do.	-	_	3 37 6 74
2	do.	-		3 34 3 34
1	do.	-	_	3 33 26 64
8	do.		_	3 25 55 25
17	do.	-	_	3 23 3 23
1	do.	-		3 12 6 24
2	do.	-		3 00 2,373 00
791	do. do.	-	_	2 92 17 52
$\frac{6}{1}$	do.	-	_	2 81 2 81
	do.	_	_	2 75 16 50
6	do.	_	_	2 67 16 02
6	do.	-		2 60 5 20
2		_	_	$\frac{5}{2}$ $\frac{50}{50}$ $\frac{37}{50}$
15	do.	-	_	2 44 2 44
1	do. do.	_	_	2 33 4 66
2	do.	_	_	2 25 31 50
14 1	do.		_	2 17 2 17
	do.	-	_	2 08 4 16
$\frac{2}{22}$	do.	_	_	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
6	do.	_	_	1 75 10 50
1	do.	_	_	1 67 1 67
		_		1 50 15 00
10	do. do.	-	_	1 33 1 33
1 1	do.	_	_	1 30 1 30
13		<u>-</u>	-	1 25 16 25
	do.	-	-	1 17 1 17
1 1	do.	-	_	1 08 1 08
1.	do.	-	_	1 00

Amo	unts broug	ght for	rward,			\$7,464	38	\$61,112 7	7
6	Stores,	_	_	\$1	00		00		
1	do.	~	-	0	83	0	83		
2	do.	· _	-		75	1	50		
1	do.	-	-		63	0	63		
1	do.	-	_		58		58		
4	do.	-	-	0	50	2	00		
1	do.	_	-	0	42	0	_42		
								7,476 3	4
2	Shops,	-	-		00	20			
1	.do.	-	•	8	00		00		
3	do.	-	-		00	18			
30	do.	-	-		00	150			
1	do.	-	-		00	4			
1	do.	-	-	3	75	3	75		
1	do.	-	-	3	50		50		
181	do.	-	-		00	543			
1	do.	-	-	2	75	2	75	`	
4	do.	-	-	2	50		00		
. 1	do.	-	-		34		34		
3	do.	-	-		25	6			
13	do.		-		00	26			
3	do.	-	-		75		25		
1	do.	-	-		67	1	67		
10	do.	-	-	1	50		00		
1	d).	-	-		25		25		
-4	do.	-	-	1	00		00		
2	do.	-	-	0	75	1	50		
2	do.	-	-	0	50	1	00		
			•					827 7	3
1	Office,	-	-	30		30			
2	do.	-	-		00	20			
1	do.	-	-		00		00		
2	do.	-	-		00		00		
2	do.	-	-	7	50	15			
4	do.	-	-	6	00	24			
1	do.	-	-		63		63		
5	do:	-	-		00	25			.6
2	do.	-		4.	50		$\begin{array}{c} 00 \\ 17 \end{array}$		
1	do.	-	-				$\frac{17}{12}$		
1	do.	-	-	$\frac{4}{3}$	12 33		33		
1	do.	-	-	3	55	3	99		
Amo	unts carri	ed for	ward,			165	25	69,416 87	7

A	ກາດນ	nts brou	oht foru	ard.		\$165 25 \$6	69,416 87
		Offices,	_		\$3 00	81 00	
-	3	do.	_	_	$^{*}0.75$	0 75	
	1	do.	_	-	2 00	6 00	
	1	uo.			-		253 00
	1	Bank,	-	_	$40 \ 00$	40 00	
	1	do.		-	27 00	27 00	
	$\hat{1}$	do.	-	_	$25 \ 00$	25 00	
	1	do.	_	-	$20 \ 00$	$20 \ 00$	
	1	do.	_	-	16 75	16 75	
	1	do.	çai.	-	11 00.	11 00	
	1	do.	-	-	10 00	10 00	
	$\overline{1}$	do.	-	-	5 00	5 00	
	1	do.	-	-	3 00	3 00	
	$\overline{1}$	do.	-	-	$1 \ 05$	$1 \ 05$	
	1	do.	-	-	. 0 75	0 75	
	~						$159\ 55$
	1	Hotel,	-	-	285 00	285 00	
	1	do.	-	-	225 00	$225 \ 00$	
	1	do.	-	-	$200 \ 00$	200 00	
	1	do.	-	-	115 00	115 00	
	1	do.	-	-	111 25	111 25	
	1	do.	-	-	1 00 00	100 00	
	1	do.	-	-	75 00	75 00	
	1	do.	_	-	$65 \ 00$	$65 \ 00$	
	1	do.	_	-	$60 \ 00$	$60 \ 00$	
	1	do:	-	-	55 00	$55 \ 00$	0
	2	do.	-	-	$50 \ 00$	100 00	•
	6	do.	-	-	45 00	270 00	
	1	do.	-	-	$43 \ 00$	$43 \ 00$	
	1	do.	-	-	35 00	35 00	
	4	do.	-	-	30 00	1 20 00	
	1	do.	-	-	$28 \ 40$	$28 \ 40$	
	1	do.	_	-	$28 \ 00$	28 00	
	1	do.	_	_	26 00	26 00	
	1	do.	-	· _	25 00	25 00	
	1	do.	-	-	24 00	24 00	
, -	1	do.	_	-	$22 \ 00$	$22 \ 00$	
	1	do.	-	-	21 00	21 00	
	$\bar{3}$	do.	-		$20 \ 00$	60 00	
	2	do.	-	-	18 00	36 00	
	26	do.	-	-	15 00	390 00	

Amounts carried forward,

2,519 65 69,829 42

Amo	unt brought	forwar	d,			\$2,519	65	\$69,829	42
1	Hotel,	_	_	\$13	33	13	33		
1	do.		_		00		00		
1	do.	-	-		25		25	0.740	ຄາ
1	Restorator,	_	_	30	00	30	00	2,549	25
1	do.	_	-	20	00	20	00		
2	do.			15	00	30	00		
2	do.	-	-	12	00	24	00		
1	do.	-	-		00	10	00		
9	do.	- ,	-	8	00	72	00		
1	do.	-	-	6		6	00		
30	do.	-		5	00	150	00		
1	do.	_	/_	4	17	4	17		
2	do.	-	-	3	75	7	50		
2	do.	-	_	2	92	5	84		
2	do.	-	-	2	00	4	00		
2	do.	_	-	1	67	3	34		
								366	85
1.	Eating Hou	ise,	-	15	00	15	00		
4	do.	_ ` `	-	12	00	48	00		
4	do.	-	_	10	00		00		
1	do.	_	_	6	00				-4.
1	do.	_	-	5	00	5	00		
1	do.	_	-	2	25	2	25		
								116	25
1	Saloon,	_		45	00	45	00		
1	do.	_	-	15		15	00		
4	do.	_	_	8			00		
1	do.	-	_	7	50	7	50		
1	do.	-		7	00	7	00		
1	do.	-	_	6	00	6	00		
40	do.	_	-	5	00	200	00		
1.	do.	-	-	4	58	4	58		
1	do.	_	-	3	33	3	33		
2	do.	-	_	3	00	6	00		
2	do.	-	_	2		- 5	00		
1	do.	-	-	2	92	2	92		
1	do.	-	-	2	00	2	00		
								336	33
3	Bowling Sa	loons,	-		00		00	*	
1	do.		-	9	67	9	67		
Amc	ounts carried	l forwa	rd,			39	67	73,198	08

Amo	ounts brought fo	rward,			\$39	67	\$73,198 08
	Bowling Saloo		\$8	00	16	00	
$\tilde{4}$	·do.	-	$\overset{\scriptscriptstyle{\psi_0}}{5}$	00		00	
$\overline{4}$	do.	_	3	75	3	75	
$\tilde{1}$	do.	_	2	08	2	08	
_	401		~				81 50
7	Oyster Shops,	_	5	00	35	00	
1	do	-	4	17	4	17	
4	do	- '	3	00	12	00	
1	do	_	1	50	1	50	
		_					52 67
	Faneuil Hall M		322	92	322	92	
	Beach Street	do .	50	00	50	00	
							372 92
1	Bath House,	***		00	135		
1	do	-		00		00	
1	do	-	45	00	45		
1	do	-		00		00	
1	do	-		50		50	
1	do	-	30	00	30	00	
1	do	-		00		00	
. 1	do	-		00		00	
1	do	-	15	00	15	00	
							406 50
4	Cellars, -	-	5	00	20	00	
26	do	-		00	78	00	
1	do	•		25	3	25	
1.	do		2			00	
. 1	do	-	1	50	1	50	
	/						104 75
1	Stable, -	-		00		00	
1	do	-		00		00	
1	do	-	72		72		
1	do	-	64		64		
1	do	-	63		63		
2	do	-	54		108		
1	do	-	52	00	52	00	
,1	do	-	51		51	00	
$\frac{2}{2}$	do	-	49		98		
1	do	-		00	48	00	
3	do	-	44		132	00	
1	do	~	40	00	40	00	
no	ounts carried for	ward,		-	888	00	74,216 42

Amor	unt broug	ht forw	ard,	P		\$888	00	\$74,216 42
1	Stable,	-	_	\$35	00	35	00	•
4	do.		_	34	00	136	00	
3	do.	-	-	32	00	96	00	
1	do.	-	-	31	25	31	25	
1.	do.	-	-	31	00	31	00	
1	do.	-	-	30	25	30	25	
1	do.	-	-	29	33	29	33	
1	do.	-	-	29	00	29	00	
4	do.	-	-	28	00	112	00	
4	do.	- 1	-	27	00	108	00	
6	do.	-	-	26	00	156	00	
2	do.	_	-	25	00	50		
6	do.	-	-	24	00		00	
1	do.	-	-	22	00	22	00	
1	do.	-	-	21	00	21		
2	do.	-	-		00	4 0	00	
6	do.	-	-	19	00	114	00	
4	do.	-	-	18	00	72	00	
3	do.	-	-	17	00	51	00	
7	do.	-	_	16	00	112	00	
1	do.	-	-	15	25	15	25	
6	do.	-	-	15	00	90	00	
9	do.	-	-	14	00		00	
1	do.	-	-	13	5 0		50	
7	do.	-	-	13	00	91	00	
15	do.	-	-	12	00	180	00	
16	do.	-	-	11	00	176	00	
1	do.	-	-	10	67	10	67	
22	do.	-	-	10	00	220	00	
2	do.	-	-	9	75	19	50	
26	do.	-	-	9	00	234	00	
32	do.	-	-	8	00		00	
31	do.	-	-	7	00	217	00	
3	do.	-	-	6	67	20	01	
30	do.	-	-	6	00	180	00	
3	·do.	-	-	5	33	15		
3	do.	-	-	5	00	15	00	
3	do.	-	-	4	67		01	
1	do.	-	-	4	50	4	5 0	
2	do.	-		4	17	8	34	
1.	do.	-	-	4	15	4	15	

		_	14 A	010 ##	#74 Q16 4Q
	nts brought forw	ard,		,218 75	\$74,216 42
1	Stable, -	-	\$1.08	4 08	
6	do	-	4 00	24 00	
1	do	-	3 50	$\frac{3}{6} \frac{50}{66}$	
2	do	-	3 33	6 66	
9	do	-	3 00	$\frac{27}{50}$	
3	do	-	2 50	7 50	
1	do	-	2 25	$\frac{2}{2}$	
4	do	-	2 00	8 00	
1	do	-	1 75	1 75	
1	do	-	1 67	1 67	
1	do	-	1 17	1 17	4,306 33
1 I	Printing Office,	_	27 30	27 30	-,
1	do.	_	25 50	25 50	
ī	do.	_	20 90	20 90	
$\bar{2}$	do.	-	$20 \ 00$	$40 \ 00$	
$\tilde{1}$	do.	_	$18 \ 42$	$18 \ 42$	
1	do.	-	15 00	$15 \ 00$	
3	do.	_	14 00	42 00	
5	do.	_	12 00	$60 \ 00$	
2	do.	_	10 00	$20 \ 00$	
1	do.	-	8 00	8 00	
13	do.	-	6 00	78 00	
2	do.	-	5 00	10 00	
2	do.	-	3 00	6 00	
1	do.	-	1 00	1 00	
1	do.	-	0 75	0.75	
					372 87
1	Bakery, -	-	37 50	37 50	
1	do	-	13 50	13 50	
1	do	-	12 00	12 00	
3	do	-	9 00	27 00	
2	do	-	8 00	16 00	
13	do	-	5 00	65 00	
1	do	-	4 00	4 00	
13	do	-	3 00	39 00	214 00
2	Churches,	_	20 00	40 00	214 00
11	do	_	5 00	55 00	
1	do	_	2 08	2 08	
1	do		1 67	1 67	
7	40.		_ 0,		98 75
Amo	unt carried forwe	urd,			79,208 37

Amount brought forwar	rd,					\$79,208	37
1 Institution for the B		\$30	00	\$30	00	,	
1 Asylum, -	_	25	00	25			
1 School, -	_		00	15			
1 do	_	6			00		
1 do	_	$\overset{\circ}{5}$	00		00	•	
2 do	_	3	00		00		
2 40.	_	0	00			87	00
1 Theatre, -		20	00	20	00	0,	00
Melodeon, -	_		00	16			
Tremont Temple,	_	15		15			
1 Museum, -	_	13	00	13			
1 Hall, -	_		00		00		
1 do	_	5			00		
Masonic Temple,	_		00	5			
	_	$\frac{3}{2}$	50	_	50		
1 Hall, -	-	2	90	۵	90	84	50
1 Club Doors		15	00	15	00	04	90
1 Club Room,	-	19 5	00		00		
1 do	-	5			-		
1 Gymnasium,	-		00		00		
1 Game House,	-	5	00	5			
1 Billiard Room,	-	5	00		00		
1 do.	-	4	17	4	17	20	1 17
w mm - 1, 1		سو بھو	00	سر بھر	0.0	39	17
1 Hospital,	-	75	00	_	00		
1 Medical College,	-	20	00		00		
1 Custom House,	-	100	00	100			
1 Post Office,	-	20	00		00		
1 State House,	-	20	00	20	00	00.4	
		~ ~				235	00
1 Fountain,	-		00	,	00		
4 do	-		00		00		
6 do	-	10	00		00		
1 do	-	. 9	00		00		
1 do	-		. 50	_	50		
1 do	-	6	50	6			
1 do	-	5		5			
5 do. · -	-	5	00	25	00		
						199	83
3 Hose, -	-	10		30			
1 do	-	6		_	00		
1 do	-	5	33	5	33		
Amounts carried forwa	rd.			41	33	79,853	87

Amou	ents broug	ht forme	ird			\$41	33	\$79,853	87
		ni jorwo	i i w	, \$3	00	3,567		φ, ε,σοσ	•
1189	Hose,	-	-	**	50		50		
7	do.	-	~	1			$\frac{30}{25}$		
1	do.	-	-	1	20	1	20	3,620	ΩQ
•	D'. ('11			120	00	120	00	3,020	00
1	Distillery	,	-		00	144			
2	do.	-	-		41		41		
1	do.	-	-		91		91		
1	do.	-	-		00	144			
4	do.	-	-	50	UU	144	00	504	20
-	D	p=		40	00	40	00	504	J Z
1	Brewery,		-				00		
1	do.	-	-		00		00		
3	do.	-	-		00				
1	do.	-	-	11			00		
2	do.	-	~	10	00	20	00	116	00
_	D 11			20	00	20	00	146	UU
1	Dye Hous	se,	-	30			00		
1	do.	-	-		00		00		
1	go.	-	-	17			50		
1	Bleachery	,	-		00		00		
1	do.	-	-	5	00	5	00	00	× 0
				0.00	0.0	200		80	50
1	Iron Wor	ks,	-	200		200			
1	Turpentin		s,		00		00		
1		do	-		00		00		
1		do'	-		00		00		
	Bacon W		-		00		00		
	Chemical		-	1	67	1			
1	Packing I	House,	-		00		00		
1	do)	-	5	00	5	00		
								329	67
1	Wharf,	-	-		00		00		
1	do.	-	-		00		00		
1	Carriage \$	Shed,	-	7	00	7	00		
						•		15	
1	Boston Ga	as Light	Со	., 300	00			300	00
1	Railroad	Co.	_	1,023	25	1,023	25		
1	do		_	530		530			
1	do		_	455		455			
1	do		_	305		305			
	40			000	0.0				
Amou	nts carrie	d forwar	·d,			2,313	25	84,849	44

4	. 7	7	. 7		4	50 919	0.5	#01 010	1.1
	unts broug	-	wara		•	\$2,313		\$84,849	44
	Railroad C	ο.,	-	\$307		307			
1	do.		-	120		120			
1	do.		-	70			00		
2	Freight De	epots,	-	10	00	20	00	0.001	10
	T . D .	-	~	000	00	200		2,831	18
	East Bosto	n F'er	ry Co		23	388			
-	Chelsea,	-	-	266	19	266			
1	Steamboat	,	-	100		100			
1	do.	-	-		00	92			
1	do.	-	-		00		00		
1	do.	-	-	60	-		00		
1	.do.	-	-	57			00		
1	do.	-	-	33			33		
1	do.	-	-	25			00		
1	do.	_	-	20	00	20	00		
								1,121	75
1	Factory,	-	-		48		48		
1	do.	-	-		00		00		
1	$\mathrm{do.}$	-	-		00		00		
1	do.	-	-		00		00		
1	do.	-	-		50		50		
1	do.	-	-		00		00		
4	do.	-	-	10	00		00		
2	do.	-	-	9	00		00		
3	do.	_	-	8	00	24	00		
2	do.	_		6	00	12	00		
1	do.	-	-	. 5	83	5	83		
2	do.	_	-	5	00	10	00		
1	do.	-	_	3	75	3	75		
1	do.	_	_	3	00	3	00		
								277	56
1	Foundry,	-	-	10	00	10	00		
1	do.	_	_	8	33	8	33		
$\bar{1}$	do.	-	_	5	00	5	00		
_	-							23	33
1	Steam. En	gine.	_	1,700	00	1,700	00		
1	do.	-		950	00	950			
ī	do.	_	-	109		109			
1	do.	_	_	104		104			
1	do.	_	_		43	83	43		
1	do.	_	_	76			65		
	uo.			• 0	., 0				
Amo	ounts carrie	ed foru	vard,			3,023	96	89,103	26

Amou	nts brough	t forwa	rd,	•	\$3	3,023 96	\$8	9,103	26
	Steam Engi		_	\$75	57	75 57			
1	do	. ′	-	70	35	70 35			
1	do	•	-		00	55 00			
1	do	•	-		88	53 88			
1	do. ·	-	-		08	49 08			
· 1	do.	-	-		00	40 00			
1	do.	-	-		60	39 60			
1	do.	-	-		00	36 00			
1.	do.	-			46	35 46			
1	do.	-	-		92	$34 \ 92$			
1	do.	-	-		62	34 62			
1	do.	-	-	31	50	31 50			
1	do.	-	-		00	30 00			
1	do.	-	-		43	28 43			
1	do.	-	•		75	27 75			
. 1	$\mathrm{do.}$	-	-	27		27 50			
1	$\mathrm{do}.$	-	-	25		25 95			
1	$\mathrm{do.}$	-	-	24		24 90			
1	$\mathrm{do.}$	-	~		00	24 00			
1.	do.	-			25	23 25			
1	do.	-	-	22		22 38			
1	do.	-	-	21		21 58			
L	do.	-	-	21		21 39			
1	do.	-	-		40	19 40			
2	do.	-	-		00	30 00			
2	do.	-	-	10		20 00			
1	do.	-	<u>.</u> -	g		9 5			
1	do.	-	-	8		8 0			
1	do.	-	•	7		7 5			
1	do.	-	-	6		6 7			
1	do.	-	~	ŧ		50			
1	do.	-	-	ŧ	5 00	5 0	U	2 000	99
	G1	D		0.	1 00	01.0	_	3,968	5 55
1	Shop and		, -	91		91 8			
1	do.	do.	-	80		86 0			
1	do.	do.	-		5 66	75 6			
1	do.	do.	-		1 74	64 7 $54 0$			
1	do.	do.	-		4 00				
1 1	do.	do.	-		9 80 8 24	$\frac{49}{48} \frac{8}{2}$			
1	do.	do.	-		3 00	48 2 48 0			
1	do.	do.	-	43	5 00	48 0	U		
Ann	ounts carri	ed forw	ard.			518 2	4	93,07	1 59

Amo	ounts broug	ght forw	ard,			\$518	24	\$93,071	59
1	Shop and			\$44	5 5	44	55		
1	do.	do.	, -	[#] 39		39			
1	do.	do.	_	36		36			
.1	do.	do.	_	35		35			
1	do.	do.	_		54		54		
1	do.	do.	_		87		87		
ĩ	do.	do.	_		50	23			
$\hat{1}$	do.	do.	_		30	53			
î	do.	do.	_		00		00		
_	uo.	ao.		10	00			800	25
1	Factory a	nd Engi	ne.	75	00	75	00	000	, - 0
1	do.	do.	-	57			33		
$\hat{1}$	do.	do.	_		76		76		
1	do.	do.	_		00		00		
î	do.	do.	_	30			00		
1	do.	do.	_	15			00	*	
1	do.	do.	_		00		00		
î	do.	do.	_	9	17		17		
	uo.	uo.	_	J	Τ,			292	26
1	Foundry	and End	rine	289	71	289	71	~	~
1	do.	do.	-	100		100			
ī	do.	do.	_		70		70		
	uo.	uo.	_	30	• •			446	41
C	ontractors	for suppl	wing					.410	
U	Shipping,			1,089	85			1,089	85
Q	hipping,			1,000	00			1,000	00
D.	Water A	ront	-	481	20			481	20
Q	treet Water		_	353					17
	Last Boston		_	208				208	
				$\frac{200}{120}$	10				10
	Building pu		-	1,080					00
1	Sugar Ho	use,		1,000	00			1,000	
	Amoun	t of Wa	tor R	atos	_	_	_	97,943	14
	Amoun	i or vva	iei II	aics,	_	-	-	01,010	

\mathbf{B}

RECEIPTS, of the Cochituate Water Board, other than Water Rates, from January 4th, 1850, to December 5th.

Rates,	from	Janu	iary 4th, 1850, to December 5th.		
March	7.	For	articles sold by Mr. Vannevar		
			at the Lake,	\$ 46	
44	20.	"	Engine Boiler,	140	
"	20.	"	Compass,	20	
April	18.	"	Sundry articles,		00
- "	18.	"		126	26
66	23.	"	Shutting off water, repairs and		
			laying pipe,	172	
May	3.	"	Sundries,	1	
"	15.	"	Shutting off water,	20	
June	12.	66	Steam Engine and Boilers, -	450	00
66	28.	"	Shutting off water, lead pipe		
			and laying pipe,	139	
July	15.	"	Grass in Needham,		00
Sept.	3.	"	Part pay for a level,	50	00
46	3.	"	Old hose used for supplying	4 4 4	
			shipping,	150	00
"	4.	"	Shutting off water, lead pipe		
			and laying pipe,	51	42
"	30.	66	Shutting off water, lead pipe		
			and laying pipe,	63	90
Oct.	8.	66	Engineer's office and fixtures,	0 40	0.0
			at Newton,	350	
"	12.	"	Office stove,		00
"	18.	"	Iron pipe,		40
	25.	"	Steam Engine,	200	
Nov,	7.	"		250	00
"	12.	"	Shutting off water, lead pipe	100	~ -
66	10		and laying pipe,	189	
	18.	"	Iron pipe,	3,171	34
٤.	22.	"	Engine and boiler and balance	110	00
"	00	"	for level,	115	00
• • •	23,	••	Amount received of City of		
			Roxbury for raising Tre-	1.000	0.0
			mont road,	1,000	00
				ቆ ይ ₹20	CO
P	onts	and	Grass, \$411 52. Timber and	\$6,732	08
10			7 00,	438	50
	LJULI	±, γp≈	. 00,	499	02
				\$7,171	20
				Φ,111	20

 \mathbf{C}

STATEMENT of Expenditures for the Extension to East Boston, from January 4th, to December 5th, 1850.

Blacksmith's	Shop,	-	-	-	-	\$1,063	49
Lanterns,	-	-	-	- .	-	30	71
Proving Yard	d,	-	-	-	-	1,952	41
Plumbing Sho	op,	•	-	~	-	282	
Traveling Ex		-	-	-	-	438	18
Composition	Castings	,	-	-	-	726	85
Wages, (prev	ious to I	Novembe	er 5th,)	-	-	7,859	78
Salaries,	-	-	- "	-	-	5,328	34
Iron Pipe,	-	_	-	-	-	122,065	
Stop Cocks,	-	-	-	-	-	5,461	
Carting,	_	-	_	-	-	3,563	
Printing,	_	-		-	-	100	
Proving Press	3.	-	-	-	-	53	29
Paving,	·,	_	_	-	-	917	
Tools,	_	-	_	-	_	87	
Hydrants,	_	_	=9	_	_	3,692	87
Oil, -	_	_	_	_	_	156	
East Boston	Reservoi	ir.	-	_	_	29,448	
Lead,	_	<u>-</u>	_	_	_	9,875	
Lead Pipe,	-	_	-	-	_	6,665	
Fuel,	_	_	_	_	-		98
Excavation,	_	_	_	_	_	7,855	
Laying Pipe,	_	-	_	_	_	6,705	36 \
Repairs,		_	_	-	_	319	
Boxes,	_	_	_	_	_	5,401	
Wages and c	ontinger	ocies for	Noveml	her	_	6,424	
	ontinger	-	_	-	_	976	
Damages, Ferriage,	-		_	_	_	513	
Ferriage,	-	_	-	_	_	13,867	
Syphons,	_		- -	_	_	37,817	21
Bridging,	- nton Dia	hta	-	_	-	4,750	00
Land and W	ater Mig	ms,	-	-	-	4,750	
						284,461	94
6 1–						204,401	24
Cr.				- 718	07		
Iron Pipe,	-	-	-	- 27			
$\mathbf{Lead},$	-	-	-	- 21	30	715	42
						740	40
						283,715	29
						200,110	

\mathbf{D}

STATEMENT of all Expenditures made by the Cochituate Water Board, from January 5th, to December 5th, 1850, except those for the Extension to East Boston.

Blacksmith S	hop,	-	-	-	_	\$163	09
Lanterns,	•	-		-	-	" 1	40
Proving Yard	l,	-	_	-	-	219	5 9
Plumbing Sh	op,	_	-	-	_	548	69
Traveling Ex	penses,	-		_	-	488	87
Composition	Ĉastings	,		-	_	66	17
Wages,	_	-	-	-	_	6,726	29
Salaries,	-	-	-	_	-	11,012	
Iron Pipe,	-	-	-	_	-	922	
Stop Cocks,	-	-	-	-	-	117	80
Carting,	-	-	-	-	-	908	72
Printing,	-	-	-	_		136	28
Proving Press	s,	-	-	-	-	5	31.
Paving,	-			-	-	451	26
Tools,	-	-	-	-	-	6	00
Hydrants,		-	-	-	-	384	57
Oil, -		-	-	-	_	9	59
Lead,	-	-	-	-	-	50	00
Lead Pipe,	~	-	-	-	-	1,786	44
Fuel, -	-	-		-	-		00
Repairs,	-	-	-	-	-	293	45
Water Meter,	-	-	-	-	-	100	00
Fountains,	-	-	-	-	-	461	32
Whitehall Re	servoir,	-	-	-	-	69	82
Office Expens	ses,	-	-	-	-	552	91
Incidental Ex	penses,	-	-	_	_	387	04
Beacon Hill 1	Reservoi	r,	-	-	_	5,072	02
Supplying Sh	ipping,	-	-	-	_	261	
Stationery,	-	-	-	-	_	84	96
Taxes,	-	-	-	-	_	1,097	45
Aqueduct Rej	pairs and	Expen	ses,	-	_	2,259	
Temporary L	ead Pipe	, East I	Boston,	_	_	746	
-	•		,				
Amount carri	ed forwa	rd,				35,406	34

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Amount brought forw	ard,				\$35,406	34
Land Damages.	_	-	do:	-	1,565	57
Rents,	-	•	-	_	271	66
Damages, -	-	**	-	-	3,096	79
South Boston Reserve	oir,	-	-	-	413	02
Land and Water Righ	ıts,	-	-	-	7,023	05
Repairing Stop Cocks		-	-	-	70	04
Repairing Hydrants,		-	-	-	261	69
Brookline Reservoir,	-	•	-	~	776	38
Marlboro' Reservoir,	-	•	-	-	250	57
					49,135	11
Cr.						
Damages, -	***	_	371	93		
Land and Water Righ	ıts,	-	142	00		
Iron Pipe, -	-	-	888	64		
Stop Cocks, -	•	-	399	33		
Wages, -	-	-	17	50		
Marlboro' Reservoir,	-	-	18	22		
Lead, -	-	-	55	91		
Whitehall Reservoir,	-	-	146	30		
					2,039	83
					\$47,095	28

 ${f E}$

STATEMENT shewing net Disbursements on account of the Water Works to December 5th, 1850.

Total net disbursements by Water Commissioners to January 5th, 1850, as per Auditor's report for 1849-50, page 102, - \$3,997,715 84

Total amount of disbursements by
Cochituate Water Board to December 5th, 1850, on account of Extension to East Boston, as per Appendix C, - 283,715 82

Total do. by the same, to Dec. 5th, 1850, on all other accounts, as per Appendix D. - 47,095 28

From which should be deducted the amount received as per Appendix B, viz: - \$7,171 20 Less amount credited to

Less amount credited to sundry accounts included in Appendix D, 438 52

6,732 68

\$330,811 10

324,078 42

Total net disbursements by Water Commissioners and Water Board, - \$ \$\frac{\$4,321,794 26}{}\$

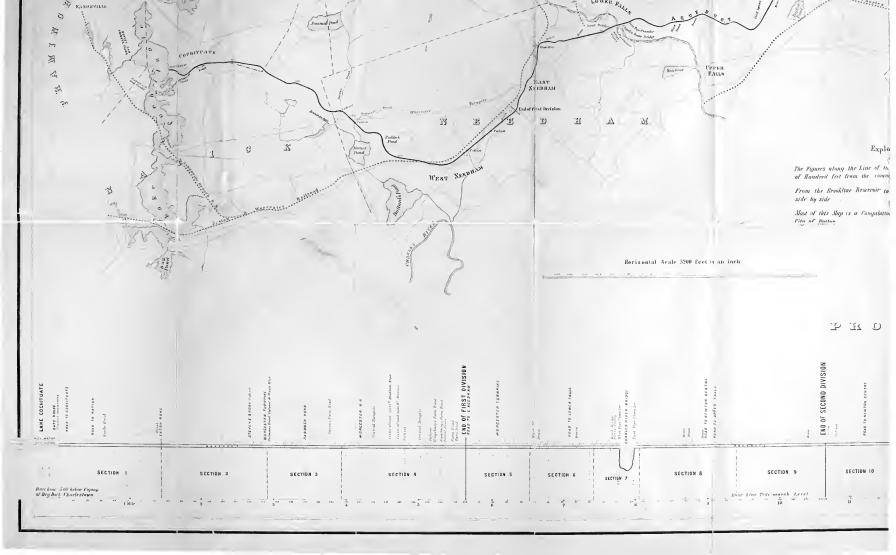
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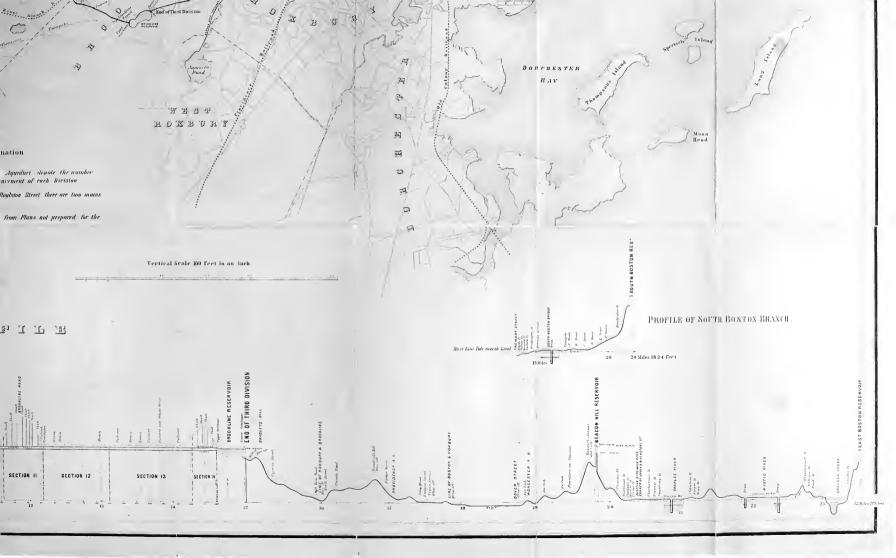
STATEMENT of the number of City Buildings, and other Public Places supplied with Cochituate Water to the 5th of December, 1850, with the value of the same, based upon the tariff of 1849.

	Latin School, - English High School		\$10 10	$00 \\ 00$	\$10 10	00 00		*
	Grammar Schools,		10	00	200	00		
	Primary Schools,		5		805	00		
	,						\$1,025	00
11	Engine Houses,	_	15	00	165	00	Ψ-,	
	Hook and Ladder Ho	use.						
	Hose Carriage Houses		15		60			
		-,					240	00
1	City Stable (Harrison	Av.	60 (00	60	00	7-10	•
1	do (Commerci	al st.	128	00	28			
	(/				88	00
5	Watch Houses, -	_	5	00				00
	House of Correction,	_	404				404	
	Lunatic Hospital,		137	00			137	
	House of Industry,	_	135				135	
	House of Reformation		28				28	
•		-	30				30	
	Court House, -	_	75				75	
	Faneuil Hall Market,						, ,	
	(Urinals,) &c.)	_	75	00			75	00
	Offal Station, -	_	50	00			50	00
	City Hall, -	_	35				35	
	Faneuil Hall, -	_	25				25	
	City Building, -	_	15				15	
	Probate Office, -	_	10				10	
	Armory,	_		00				00
	Office at City Scales,	_		00				00
	,		_	-				
	_		Amount,				\$2,405	20
				,			H. /	==











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