

FRAGILE

DO NOT PHOTOCOPY

Photocopies may be made from the copy in hicrotext







Digitized by the Internet Archive in 2010 with funding from Boston Public Library



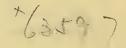


ANNUAL REPORT

OF THE

COCHITUATE WATER BOARD,

FOR 1850.





BOSTON: 1850. JOHN H. EASTBURN, CITY PRINTER. E 1. Ches brough

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:

161 still cut off.

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

off.

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

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 completing 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	estab	lished,	is
In the City proper,	-	-	-	-	-	791
" South Boston,	-	-	***	-	-	154
" East Boston,	-	-	-	-	-	35
" Brookline, -	-	-	-	-	-	1
" Roxbury, -	-	-	-	-	_	5
" Charlestown,	-	-	-	-	-	11
" Chelsea, -	-	-	-	-	-	8
-						
		Total	l, -	-	-	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 suc-

cessors 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 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. 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. 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 meantime 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, 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 Hou	se,	-	\$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	50	15	50		
								\$269 40)
357	Dwelling Hous	ses,	-	15	00	5,355	00	"	
6	do.		-	14	50	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	50		
									_
Amor	unts carried for	rwa	rd,			8,087	25	269 4)

Amounts brought forward, \$8,087 25 \$269 40									
Amou	onts brought jo	าาเง	ıra,	\$11	40	11	40	φ203 - 20	0
11	Dwelling Hou do.	se,	_	11		22	50		
$\frac{2}{2}$.	do.	-	_	11			40		
$\frac{z}{1}$	do.	-	_	11		11	17		
57	do.	_		11			00		
3	do.	_	_	10	60	31	80		
20	do.	_		10	50		00		
1	do.	_		10		10	40		
504	do.		_	10	00	5,040	00		
1	do.		_	9	60	9	60		
$\frac{1}{32}$	do.	_	Ī	9	50		00		
52 6	do.	_		9	40	56			
$\frac{0}{4}$	do.	_	_	9	30		20		
1	do.	_	_	9	20		20		
$\frac{1}{2}$	do.			9	17		34		
108	do.	_		9	00		00		
3	do.	_		8	75		25		
1	do.		_	8	70	8	70		
1	do.	-		8	67		67		
12	do.	-		8	60		20		
31	do.	-	-	8	50		50		
10		-	-	8			00		
10	do. do.	-	-	8		8	33		
1	do.	_	-		25	8	25		
2		-	_	8	20	16	40		
	do.	-	-	8			00		
160	do.	-	-	7	92				
2	do.	-	-	7		15	84		
7	do.	-	**	7	80		60		
1	do.	-	-	7	74	7	74		
14	do.	-	-	7	60	106	40		
52	do.	-	-	7	50		00		
15	do.	-	-		40 34		00		
2	do.	-	-	7			68		
1	do.	-	-	7	30	7			
9	do.	-	-	7	20		80		
1	do.	-	-	7	08	7	08		
114	do.	-	-	7	00	798	00		
15	do.	~	-	6	80	102	00		
1	do.	-	-	6	75	6	75		
10	do.	-	_	6	67	66	70		
30	do.	-	-	6	60	198	00		
									_

Amou	ents brought foru	ard.			\$19,238	85	\$269	40
	Dwelling House		\$6	50	292		ж	
29	do	~,	6	40	185	60		
2	do	_	6	37		74		
2	do	_	6	30		60		
1	do	_	6	33		33		
4	do	_			25			
19	do	_		20		80		
1	do	_	6	05	6	05		
263	do	-	6	00	1,578	00		
1	do	-	5	94	5	94		
1	do	_	5	84	5	84		
5	do	-	5	83	29	15		
31	do	_	5	80	179	80		
1	do	-	5	63	5	63		
1	do	_	5	62	5	62		
54	do	-	5	60	302	40		
90	do. 4 -	_	5	50	495	00		
72	do	-	5	40	388	80		
3	do	_	5	33	15	99		
1	do	_	5	32	5	32		
1	do	-	5	30	5	30		
2	do	-	5	25		50		
52	do	-	5	20	270	40		
1	do	- '	5	17	5	17		
7083	do	-	5	00	35,415	00		
1	do	_		94		94		
1	do	-	4.	80	4	80		
1	do	-	4	67	4	67		
27	do	_	4	58	123	66		
6	do	_	4	50	27	00		
2	do	-	4	40		80		
1	do	-		38		38		
2	do	_	4	30		60		
1	do	-	4	25		25		
41	do	-	4	17	170	97		
1	- do	-	4	13	4	13		
1	. do	-	4	08	4	08		
2	do	-		00		00		
98	do	_	3	75	367			
2	do	-	3	72	. 7	44		
1	do	-	3	67	3	67		
Amou	ents carried forwa	ard,			59,378	22	269	40

Amoura	to hr	ought f	iormare	1.		\$5		22	\$269	40
1 D	wallir	ig Hou	se.		\$3	63	3	63		
1 D	W CITIL	do.	_	_	"3	55		55		
3		do.	_	_		50		50		
2		do.	_	_		34		68		
101		do.	_	_	3	33		33		
1		do.	_	_	3	27		27		
1.		do.	_	-	3	17	. 3	17		
12		do.	_	-		00	36	00		
91		do.	_	_	2	92		72		
1		do.	_	_	2	87		87		
3		do.	_	-	2	75		25		
1		do.	_	_	2	70	2	70		
ĩ		do.	_	-	2	67	2	67		
110		do.	_	-	2	50	297	50		
1		do.	_	-	2	33	2	33		
1		do.	_	-	2	16	2	16		
82		do.	-	_	2	08	170			
6		do.	-	-	2	00	12	00		
84		do.		-	1	67	140	28		
2		do.	_	-	1	66	3			
1		do.	-	_	- 1	64	1	64		
1		do.	-	-	1	50	1	50		
1		do.	-	-	1	45	1			
1		do.	-	-	. 1	33	1			
80		do.	-	-	1	25	100	00		
1		do.	-	-	1	17	1	17		
2		do.	-	-	1	10				
1		do.	-	-	1	08	1			
2		do.	-	-	1	00	2			
44		do.	-	-	0	83		52		
1		do.	-	-	0	67		67		
1		do.	-	-	0	63	0			
1		do.	-	-	0	55	0			
1		do.	-	-	0	50	0			
1		do.	-	-	0	42	0	42	0000	0.00
						0.5			60,843	37
1	Stor		-	-	50	00	50	00		
2	do.		-	-	30	00	60	00		
1	do.		-	-	27	50	27	50		
1	do.		_	-	24	50	24			
1	do.	-	-	-	22	92	22	92		
Amore	nto co	erried fo	ranard				194	92	61 112	77

Amounts carried forward,

^{184,92 61,112 77}

Amo	unts brou	ight f	forward,			\$184	92	\$61,112 77
1	Store,	_		\$17	50	17		W,
1	do.	_	1	16	50		50	
6	do.	_	_		00		00	
1	do.	_	_	14			50	
1	do.	-	_	14			00	
2	do.	-	_	13	00		00	
1	do.	_	_	12	67	12	67	
3	do.	-	-	12			50	
1	do.	-	-	12		12		
7	do.	-	-	12	00		00	
4	do.	-	-	11	00	44	00	
1	do.	-	-	10	50	10	50	
1	do.	-	-	10			40	
27	do.	-	-	10		270		
1	do.	-	~	10			25	
2	do.	-	-		50		00	
18	do.	-	-		00	162	00	
5	do.	-	~		75	43	75	
1	do.	-	-		64	8	64	
2	do.	-	-		50	17	00	
1	do.	-	-		33	8	33	
10	do.	-	-		00		00	
40	do.	-	-		50	300	00	5
1	do.	-	-		25		25	
24	do.	-	-		00	168		
4	do.	-	-		75	27		
9	do.	-	-		50	58	50	
4	do.	-	-		25	25		
83	do.	-	-		00	498		
5	do.	-	-		75	28		
1	do.	-	-	5		5	62	
16	do.	-	-	5		88		
1	do.	-	-	5		5	25	
1	do.	-	-	5		5	17	
1	do.	-	-	5			12	
298	do.	-	-		00	1,490	00	
2	do.	-	-	4		9	74	
3	do.	-	-	4		14		
1 1	do.	~	•	4			62	
	do.	~			58 50		58	
32	do.	-	-	4	อบ	144	00.	

Amounts carried forward,

^{4,082 47 61,112 77}

		*	7	# 1	,082 47 \$6	1,112 77
Amour		ght forwa	ra,	4 40	4 40	-,
1	Store,	-	-	4 37	4 37	
1	do.	•••	-	4 33	4 33	
1	do.	-	-	$\begin{array}{c} 4 & 35 \\ 4 & 25 \end{array}$	42 50	
10	do.	-	-	$\frac{4}{4} \frac{25}{20}$	4 20	
1	do.	-	-		4 17	
1	do.	om	-		364 00	
91	do.	-	-		3 87	
1	do.	***	-		67 50	
18	do.	-	-	3 75	3 63	
1	do.	-	-	3 63		
2	do.	-	-	3 62		
1	do.	-	-	3 60	3 60	
45	do.	••	-	3 50	157 50	
1	do.		-	3 38	3 38	
2	do.	-	-	3 37	6 74	
1	do.	-	-	3 34	3 34	
8	do.	-	-	3 33	26 64	
17	do.	-	-	3 25	55 25	
1	do.	-	-	3 23	3 23	
2	do.	-	-	3 12	6 24	
791	do.	-	-	3 00	2,373 00	
6	do.		-	292	17 52	
1	do.	-	**	2 81	2 81	
6	do.	_	-	2 75	16 50	
6	do.	_	***	2 67	16 02	
2	do.	_	_	2 60	5 20	
15	do.	_	***	2 50	37 50	
1	do.		_	244	2 44	
2	do.	_	_	2 33	4 66	
14	do.	_	-	2 25	31 50	
1	do.	_	_	2 17	2 17	
2	do.	_	_	2 08	4 16	
22	do.	_	_	2 00	44 00	
6	do.	_	_	1 75	10 50	
1	do.	_	_	1 67	1 67	
10	do.		_	1 50	15 00	
10	do.	_	_	1 33	1 33	
1	do.	_		1 30	1 30	
13	. do.		_	1 25	16 25	
			_	1 17	1 17	
1	do.		_	1 08	1 08	
1	do.	-	-	1 00	1 00	

Amo	$unts$ $brou_{arepsilon}$	ght for	ward,		ģ	\$7,464	38	\$61,112 7	77
6	Stores,	_		\$1	00		00	π	
1	do.	_	_	Ψ-	83	o o			
$\overline{2}$	do.		-	0	75	1	50		
1	do.	_	_		63	0	63		
1	do.	_	_		58		58		
4	do.	~	-	0	50		00		
1	do.	-	_	0	42		_42		
								7,476	34
2	Shops,	-	-	10	00	20	00		
1	.do.	-		8	00	8	00		
3	do.	-	-	6	00	18	00		
30	do.	-	-	5	00	150	00		
1	do.	-	-		00	4	00		
1	do.	-	-	3	75	3	75		
1	do.	-	-	3	50	3	50	*	
181	do.	-	-	3	00	543	00		
1	do.	-	- '	2	75	2	75		
4	do.	_	-	2	50	10	00		
. 1	do.	-	-	2	34	2	34		
3	do.	-	-	2	25	6	75		
13	do.		-	2	00	26	00		
3	do.	-	-	1	75	5	25		
1	do.	-	-	1	67	. 1	67		
10	do.	-	~	1	50	15	00		
1	d٠.	-	-		25	1	25		
-4	do.	-	-	1	00	4	00		
2	do.	-	-	0	75	1	50		
2	do.	-	-	0	50	1	00		
								827 7	6
1	Office,	-	-		00		00		
2	do.	-	-		00	20			
1	do.	-	-		00		00		
2	do.	-	-		00	16	00		
2	do.	-	-		50	15			
4	do.	-	-		00	24			
1	do.	-	-		63	5			
5	do∴	-	-		00	25			-6
2	do.	-	-		50		00		
1	do.	-	· -	4	17	4			
1	do.	-	-	4	12	4	12		
1	do.	-	-	3	33	3	33		
Amo	unts carri	ed for	ward,			165	25	69,416 8	37

Ann	ou	nts broug	rht foru	ard.		\$165 25 \$6	59,416 87
27		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	
ĵ		do.	_	-	27 00	27 00	
1		do.	-	-	25 00	25 00	
1		do.	-	-	$20 \ 00$	$20 \ 00$	
1		do.	-	-	16 75	16 75	
]		do.	ca	_	11 00.	11 00	
	Ĺ	do.	-	-	10 00	10 00	
	Ĺ	do.	_	-	5 00	5 00	
	Ĺ	do.	~	-	3 00	3 00	
	ĺ	do.	~	-	1 05	1 05	
	l	do.	-	_	. 0 75	0 75	
	~	0.01					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	
	î	do.	~	-	111 25	111 25	
	1	do.	_	~	100 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	,
	$\frac{1}{2}$	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	
	3	do.	-	-	20 00	60 00	
	2	do.	-	-	18 00	36 00	
9	26	do.	-	-	15 00	390 00	
A	mo	ounts car	ried for	ward,		2,519 65	69,829 42

Amo	unt brought	forwa	rd.		5	\$2.519	65	\$69,829	42
1	Hotel,	_	,	\$13		13	33	Ψ/	
1	do.	_	_		00		0.0		
1	do.	_	_		25		25		
	αο.	_		Ü	20		20	2,549	23
1	Restorator,	_	_	30	00	30	00	74,0 20	,
1	do.	_	_	20			00		
2	do.			15			00		
2	do.	_	_	12	00		00		
1	do.	_	-		00		00		
9	do.	-	_		00		00		
1	do.	- °	-	6	00		00		
30	do.	_	-		00				
1	do.	_	/_	4	17	4	17		
2	do.	-	_	3	75	7	50		
2	do.	_	-	2	92	5	84		
2	do.	-	-		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	40	00		
1	do.	-	-	6	00	6	00		- 1
1	do.	-	-	5	00	5	00		
1	do.	-	-	2	25	2	25		
								116	25
1	Saloon,	-	-	45	00	45	00		
1	do.	-	-	15	00	15	00		
4	do.	-	-	8	00	32	00		
1	do.	-	-	7	50	7	50		
1	do.	-	OR .	7	00	7	00		
1	do.	-	-	6	00	6	00		
40	do.	-	-	5	00	200	00		
1	do.	-	-	4		4			
1	do.	-	-	3			33		
2	do.	-	-		00	6	00		
2	do.	-	-	2		- 5	00		
1	do.	-	-	2		2	92		
1	do.	-	-	2	00	2	00	004	00
_	D 11 6			* ^	0.0		-00	336	33
3	Bowling Sa	loons,	-		00	30			
1	do.		-	9	67	9	67	-	
4		7 C	7			20	67	72 100	00
Amo	ounts carried	t forwa	ra,			39	07	73,198	00

Amo	unts brough	t forwe	ard,			\$39	67	\$73,198	08
	Bowling Sa		_	\$8	00	16	00		
4	·do.	,	-	*5	00	20	00		
4	do.			3	75	3	75		
1	do.		-	2	08	2	08		
								81	50
7	Oyster Sho	ps,	-	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 Ha			322	92	322	92		
	Beach Stree	et do		50	00	50	00	0.10	
	~			40 5	0.0			372	92
1	Bath House	,	•	135	00	135	00		
1	do.	-	-	50	00				
1	do.	-	-	45	00	45	00		
1	do.	-	-		00		00		
1	do.	-	-	37					
1	do.	-	-	30		30	00		
1	do.	-	-		00		00		
, 1	do.	-	-	25			00		
1	do.	-	-	15	00	15	00	40C	70
4	Cellars,			E	00	20	00	406	50
26	do.	-	_	5 3	00	78	00		
1	do.	-	-	3	25	3	25		
1	do.		_		00		00		
1	do.	_		1	50	$\tilde{1}$	50		
-	uo.				00			104	75
1	Stable,	_	_	84	00	84	00	104	10
1	do.		_	76	00		00		
1	do.	_	_	72			00		
1	do.	_	_	64			00		
1	do.	_		63			00		
2	do.	-	-	54		108			
1	do.	-	-	52		52	00		
,1	do.	-	_		00	51	00	*	
2	do.	-	-	49	00	98	00		
1	do.	-	-	48	00"		00		
3	do.	-	-	44		132	00		
1	do.	-	-	40	00	40	00		
110	nunts carried	forwa	rd,			888	00	74,216	42

Amor	unt broug	rht 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 9	25	31	25	
1	do.	_	-	31	00	31	00	
1	do.	_	-	30 9	25	30	25	
1	do.	-	-	29	33	29	33	
1	do.	-	_	29	00	29	00	
4	do.	-	-		00	112	00	
4	do.	-	-	27	00		00	
6	do.	-	-		00	156		
2	do.	-	-	25 (50	00	
6	do.	-	-	24 (00	
1	do.	-	-	22 (00	22	00	
1	do.	-	-	21 (00	21	00	
2	do.	-	-	20 (00		00	
6	do.	-	-		00		00	
4	do.	-	-		00		00	
3	do.	-	-		00	51	00	
7	do.	-	-		00	112	00	
1	do.	-	-		25	15	25	
6	do.	-	-		00	90		
9	do.	-	-	14 (00	
1	do.	-	-		50	13	50	
7	do.	-	-		00	91	00	
15	do.	-	-	12 (00	
16	do.	-	-	11 (00	
1	do.	-	-		57		67	
22	do.	-	-		00	220	00	
2	do.	-	-		75		50	
26	do.	-	-		00	234	00	
32	do.	-	-		00	256	00	
31	do.	-	-		00	217	00	
3	do.	-	-		37	20	01	
30	do.	-	-		00	180	00	
3	do.	-	-		33		99	
3	do.	-	-	5 (00	
3	do.	-	-		57		01	
1	do.	-	-	4 4			50	
2	do.	-			17	8	34	
1	do.	-	-	4	15	4	15	

Amounts carried forward,

4,218 75 74,216 42

	, ,	7 t f	7	₽ .1	,218 75	\$74,216 42
	nts broug	nt jorwe	ara,	\$4 08	4 08	Ψ. 2,220
	Stable,	-	-	4 00	24 00	
$\frac{6}{1}$	do. do.	_	_	3 50	3 50	
$\frac{1}{2}$	do.	_`	_	3 33	6 66	
9	do.	_	-	3 00	27 00	
3	do.	_	_	2 50	7 50	
1	do.	-	_	2 25	$2\ 25$	
$\bar{4}$	do.	-	-	2 00	8 00	
1	do.	-	-	1 75	1 75	
1	do.	-	-	1 67	1 67	
1	do.	-	-	1 17	1 17	4.000.00
_				05 90	27 30	4,306 33
	Printing C		-	27 30	27 30 25 50	
1	do.		-	25 50 $20 90$	20 90	
1	do.		-	20 90	40 00	
2	do.		-	18 42	18 42	
1	do. do.		_	15 00	15 00	
1 3	do.		-	14 00	42 00	
5 5	do.		_	12 00	60 00	
2	do.		_	10 00	20 00	
ĩ	do		_	8 00	8 00	
13	do		_	6 00	78 00	
2	do		-	5 00	10 00	
2	do		_	3 00	6 00	
$\tilde{1}$	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	$\begin{array}{cc} 65 & 00 \\ 4 & 00 \end{array}$	
1	do.	-	-	$\frac{4}{3} \frac{00}{00}$	39 00	
13	do.	-	-	5 00	39 00	214 00
2	Churche	e e	_	20 00	40 00	214 00
11	do.	-	_	5 00	55 00	
1	do.	_	_	2 08	2 08	
1	do.	-	_	1 67	1 67	
						98 75
Amo	unt carrie	ed forwa	rd,			79,208 37

Amount brought forward, \$79,208 37									
	Institution for the B		\$30	00	\$30	00			
1	Asylum, -	_ ′	*25	00	["] 25				
1	School, -	_		00	15				
1	do	_		00		00			
$\bar{1}$	do	_		00		00	·		
2	do	_	3	00	6	00			
,-				7.7			87	00	
1	Theatre, -		20	00	20	00			
	Melodeon, -	_	16	00	16				
	Tremont Temple,	_	15	00	15				
1	Museum, -	_		00	13				
1	Hall, -	_	8	00		00			
1	do	_		00	5				
_	Masonic Temple,	_		00		00			
1	Hall, -	_	2	50		50			
_	11011,		,-				84	50	
1	Club Room,	_	15	00	15	00	0.1		
ĩ	do	_	5	00		00			
$\hat{1}$	Gymnasium,	_		00	5				
1	Game House,	_		00		00			
1	Billiard Room,			00		00			
1	do.		4	17	4	17			
-	u o.		-1	.,			39	17	
1	Hospital,		75	00	75	00			
1		_	20	00	20				
	Custom House,	_	100		100				
	Post Office,	_	20	00	20				
î		_	20	00	20	00			
	Diato House,		750	00			235	00	
1	Fountain,	_	25	00	25	00	,200	0.5	
4		_	15	00	60				
6	·	_	10	00		00			
1			. 9	00		00			
1				50	8				
1		_		50		50			
1				83	5				
5			5		25				
9	u0,		J	00			199	83	
3	Hose, -	-	10	00	30	00			
1	•	-	6	00	6	00			
1	do	-	5	33	5	33			
Am	ounts carried forwa	rd.			41	33	79,853	87	
21110	outillo carrica joraa						,		

Amou	ents brought for	ward			\$41		\$79,853	87
1189	Hose, -	-	\$3		3,567			
7	do	~		50		50		
1	do	-	1	25	1	25		
e							3,620	08
1	Distillery,	-	120		120			
2	do	-		00	144			
1	do	-		41		41		
1	do	-		91		91		
4	do	~	36	00	144	00	wo.4	0.0
							504	32
1	Brewery, -	-	40	00		00		
1	do	-		00		00		
3	do	-		00		00		
1	do	-		00		00		
2	do	-	10	00	20	00		
							146	00
1	Dye House,	-	30		30			
1	do	-		00		00		
1	do· -	-	17	50	17	50		
1	Bleachery,	-	8	00		00		
1	do	-	5	00	5	00		
							80	50
1	Iron Works,	-	200	00	200	00		
1	Turpentine Wo	rks,	48	00	48	00		
1	do	_	42	00	42	00		
1	do.	-	18	00	18	00		
1	Bacon Works	-	5	00	5	00		
	Chemical Work	s, -	1	67	1	67		
	Packing House		10	00	10	00		
1	do	' –	5	00	5	00		
							329	67
1	Wharf, -	_	5	00	5	00		
1	do	_		00		00		
	Carriage Shed,	_		00		00		
	,						15	00
1	Boston Gas Lig	ht Co	300	00				00
	_				1 009	05		
	Railroad Co.	-	1,023		1,023			
1	do	-		00	530			
1	do	-	455		455			
1	do	-	305	00	305	00		
		7			0.010	0.5	04.040	4.4
Amou	ents carried foru	vard,			2,313	25	84,849	44

A		7. 4 .C		•	ď	ka 919	ດະ	#01 010	11
	unts broug		wara			\$2,313		\$84,849	44
1	Railroad C	o. ,	-	\$307		307			
1 1	do.		-		00	120			
2	do.		-	70	00	70 20	00		
2	Freight De	epous,	-	10	00	20	00	2,831	18
	Fast Posts	n For	,,,, Co	388	93	388	23	2,001	10
	East Bosto Chelsea,	nı rer	ry Co.	266	19-	266	19		
1	Steamboat	-		100		100			
1	do.	,		92	00	92	00		
1	do.	_	_		00	80	-		
î	do.	_	_		00	60			
1	do.		_	57		57			
ī	do.	_	_		33	33			
î	do.	1		25		25			
i	do.	-	_	20	00	20	00		
-	40.			~~				1,121	75
1	Factory,	-		69	48	69	48	-,	
1	do.	_	_	23			00		
1	do.	_	_		00		00		
1	do.	_			00	20			
1	do.	_	-		50	13			
1	do.	_	_		00	13	00		
4	do.	_	-	10	00	40	00		
2	do.	_	-	9	00	18	00		
3	do.	_	-	8	00	24	00		
2	do.	_	40	6	00	12	00		
1	do.	-	-	5	83		83		
2	do.	_	-	5	00		00		
1	do.	-	-	3			75		
1	do.	-	-	3	00	3	00		
								277	56
1	Foundry,	-	-	10	00	10	00		
1	do.	-	-	8	33	8	33		
1	do.	-	-	5	00	5	00	20	00
								23	33
1	Steam. En	gine,	<u> </u>	1,700		1,700			
1	do.	-	840	950		950			
1	do.	-	-	109		109			
1	do.	-	-	104		104			
1	do.	-	-	83	43		43		
1	do.	-	-	76	65	76	65		
						2.000	06	80 102	26
Amo	ounts carrie	ed foru	vard,			3,023	90	89,103	20

Amou	nts broug	ht foru	ard.	. \$3	,023 96	\$89,103 26
	team Eng	-		\$75 57	75 57	
1	do.	-	_	70 35	70 35	
1	do.	_	_	55 00	55 00	
1	do.	_	cto	53 88	53 88	
1	do.	_	_	49 08	49 08	
1	do.	_	_	40 00	40 00	
1	do.	_	_	39 60	39 60	
1	do.	-	_	36 00	36 00	
1	do.	***		35 46	35 46	
1	do.	_		34 92	$34 \ 92$	
1	do.	_	-	34 62	34 62	
1	do.	-	_	31 50	31 50	
1	do.	-	_	30 00	30 00	
1	do.	-	-	28 43	28 43	
1	do.	-	_	27 75	27 75	
1	do.	-	-	27 50	27 50	
1	do.	-	-	25 95	25 95	
1	do.	-	-	24 90	24 90	
1	do.	-	_	24 00	24 00	
1	do.	-		$23 \ 25$	23 25	
1	do.	-	-	22 38	22 38	
1	do.	=	-	21 58	21 58	
1	do.	_	-	21 39	$21 \ 39$	
1	do.	_	-	19 40	19 40	
2	do.	-	-	15 00	30 00	
2	do.	-	-	10 00	$20 \ 00$	
1	do.	-		9 59	9 59	
1	do.	-	-	8 00	8 00	
1	do.	-	-	7 50	7 50	
1	do.	-	-	6 70	6 70	
1	do.	-	•	5 07	5 07	
1	do.	-	-	5 00	5 00	2000 27
1	Shop and	Engi	1e	91 80	91 80	3,968 33
ĩ	do.	do.	-	86 00	86 00	
ī	do.	do.	***	75 66	75 66	
ĩ	do.	do.	_	64 74	64 74	
i	do.	do.		54 00	54 00	
ĩ	do.	do.	_	49 80	49 80	
1	do.	do.	_	48 24	48 24	
1	do.	do.	_	48 00	48 00	
			m -			
Anne	ounts carr	ied for	ward.		518 24	93,071 59

Amo	unts broug	ght foru	vard,			\$518	24	\$93,071	59
1	Shop and	Engine	e	\$44	55	44	55		
1	do.	do.	-	[#] 39			00		
1	do.	do.	-	36	00	36	00		
.1	do.	do.	-	35	25	35	25		
1	do.	do.	-	33	54	33	54		
1	do.	do.	-	28	87	28	87		
1	do.	do.	-	23	50	23	50		
1	do.	do.	-	23	30	53	30		
1	do.	do.	-	18	00	18	00		
								800	25
1	Factory a	nd Eng	ine,		00	75	00		
1	do.	do.	-	57	33	57	33		
1	do.	do.	-	56	76	56	76		
1	do.	do.	-	39	00	39	00		
1	do.	do.	-	30	00	30	00	-	
1	do.	do.	-	15	00	15	00		
1	do.	do.	-	10	00		00		
1	do.	do.	-	9	17	9	17		
								292	26
1	Foundry :	and En	gine,	289	71	289		•	
1	do.	do.	-	100	00	100	00		
1	do.	do.	-	56	70	56	70		
								446	41
C	ontractors f	or supp	lying						
	Shipping,	-		1,089	85			1,089	85
S	hipping,	by Ma	arine						
	Water Ag	gent,	-	481	20			481	
	treet Wate		-		17			353	
E	ast Boston	Tank,	-	208	31			208	
В	uilding pu	rposes,	-	120	10				10
1	Sugar Ho	use,	-	1,080	00			1,080	00
	Amoun	t of Wa	ter R	lates,	-	7	-	97,943	14

В

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

Rates,	from	Janu	lary 4th, 1850, to December 5th.		
March	7.	For	articles sold by Mr. Vannevar		
			at the Lake,	\$ 46	47
66	20.	"	Engine Boiler,	140	60
66	20.	66	Compass,	20	00
April	18.	66	Sundry articles,	6	00
"	18.	66	" " " — — —	126	26
"	23.	66	Shutting off water, repairs and		
	,		laying pipe,	172	10
May	3.	66	Sundries,	1	90
"	15.	"	Shutting off water,	20	92
June	12.	66	Steam Engine and Boilers, -	450	00
"	28.	66	Shutting off water, lead pipe		
			and laying pipe,	139	14
July	15.	66	Grass in Needham,	3	00
	3.	66	Part pay for a level,	50	00
46	3.	66	Old hose used for supplying		
			shipping,	150	00
66	4.	"	Shutting off water, lead pipe		
			and laying pipe,	51	42
66	30.	66	Shutting off water, lead pipe		
			and laying pipe,	63	90
Oct.	8.	66	Engineer's office and fixtures,		
			at Newton,	350	38
66	12.	"	Office stove,	12	00
46	18.	"	Iron pipe	2	40
66	25.	"	Steam Engine,	200	00
Nov.	7.	"		250	00
46	12.	66	Shutting off water, lead pipe		
			and laying pipe, Iron pipe,	189	85
"	18.	66	Iron pipe,	3,171	34
6,	22.	"	Engine and boiler and balance	•	
			for level,	115	00
"	23,	"	Amount received of City of		
			Roxbury for raising Tre-		
			mont road,	1,000	00
			_		
				\$6,732	68
R			Grass, \$411 52. Timber and		
	Barı	1, \$2	7 00,	438	52
				44	
				\$7,171	20

#1 DG2 40

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 Yar	d,	-	-	-	-	1,952	41
Plumbing Sh		-	-	~		282	19
Traveling Ex		-	-	-	-	438	
Composition	Castings	,	-	-	-	726	
Wages, (prev	ious to I	Novembe	er 5th,)	-	-	7,859	78
Salaries,	-	-	- "	-	-	5,328	
Iron Pipe,	-	-	-	-	-	122,065	19
Stop Cocks,	-	-	-	-	-	5,461	56
Carting,	-	-	-	-	-	3,563	53
Printing,	-	-		-	-	100	00
Proving Pres	s,	-	-	-	-	5 3	
Paving,	-	-	-	-	-	917	
Tools,	-	-	-	-	-	87	16
Hydrants,	-	-	-,	'-	-	3,692	87
Oil, -	-	-	-	_	-	156	
East Boston	Reservoi	ir,	-	-	-	29,448	77
Lead,	-	-	-	-	-	9,875	
Lead Pipe,	-	-	-	-	- (6,665	
Fuel,	_	-	-	- ·	-		98
Excavation,	-	-	-	-	-	7,855	22
Laying Pipe,	, -	-	-	-	-	6,705	
Repairs,	-	-	-	-	-	319	
Boxes,	-	-	-	-	-	5,401	
Wages and o	continger	ncies for	Noveml	ber,	-	6,424	
Damages,	-	-	-	-	-	976	
Ferriage,	-	-	-	-	-	513	
Syphons,	-	-	-	-	-	13,867	95
Bridging,	-	-	-	-	-	37,817	
Land and W	ater Rig	hts,	-	-	-	4,750	00
						-	
						284,461	24
Cr.							
Iron Pipe,	-	-	-	- 718			
Lead,	-	-	- '	- 27	35		
						745	42
						002 717	- 00
						283,715	82

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 Shop,	-	-	-	-	\$163	09
Lanterns, -	-		-	-	¨ 1	40
Proving Yard,	-	-	-	-	219	59
Plumbing Shop,	-	-	-	-	548	69
Traveling Expenses,	-	_	_	-	488	87
Composition Casting	s,	- ·	-	_	66	
Wages, -	-	-	-	-	6,726	29
Salaries, -	-	-	-	-	11,012	81
Iron Pipe, -	-	-	-	-	922	17
Stop Cocks, -	-	-	-	-	117	80
Carting, -	-	-	-	-	908	72
Printing, -	-	-	-	-	136	28
Proving Press,	-	-	-	-	5	31.
Paving, -	***	-	-	-	451	26
Tools,	-	-	-	-	6	00
Hydrants, -	-	-	-	-	384	57
Oil,	-	-	-	-	9	59
Lead, -	-	-	-	•	50	00
Lead Pipe, -	-	•	-	-	1,786	44
Fuel,	-		-	-	16	
Repairs, -	-	-	-	-	293	45
Water Meter, -	••	-		-	100	00
Fountains, -	-	-	-	-	461	32
Whitehall Reservoir,	-	-	-	-	69	82
Office Expenses,	-	-	-	-	552	91
Incidental Expenses,	, -	~	-	-	387	04
Beacon Hill Reservo	ir,	-	-	-	5,072	02
Supplying Shipping,	-		-	-	261	
Stationery, -	-	-	_	-	84	
Taxes, -	-	-	-		1,097	45
Aqueduct Repairs an	d Ex	penses,	_	_	2,259	
Temporary Lead Pip	e, Ea	st Boston,	-	-	746	
		Í				
Amount carried forw	ard,				35,406	34

1000. ULLY DUCUMENT, NO. 4	1850	.7	CITY	DOCUMENT.—N	0. 45
------------------------------	------	----	------	-------------	-------

Amount brought forward,			\$35,406 34
Land Damages	-		1,565 57
Rents,	-		271 66
Damages,	-		3,096 79
South Boston Reservoir,	-		413 02
Land and Water Rights,	-		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 Rights,	-	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

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 sundry accounts included in Appendix D, 438 52

6,732 68

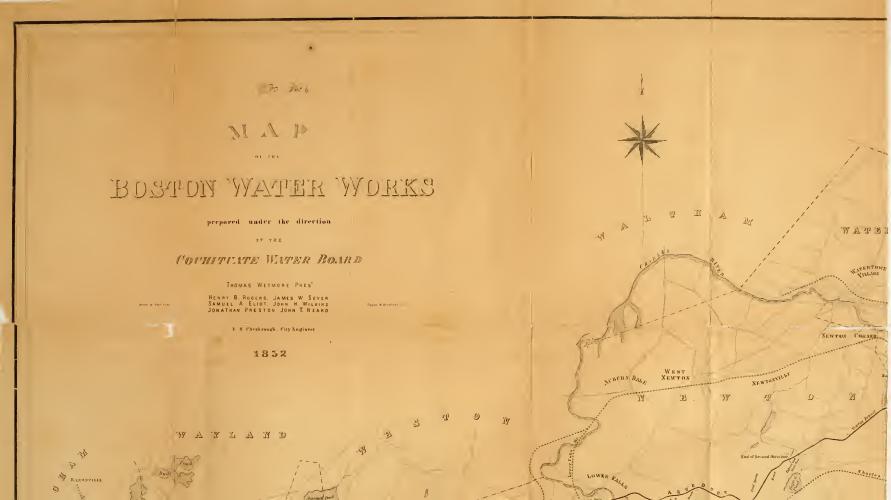
324,078 42

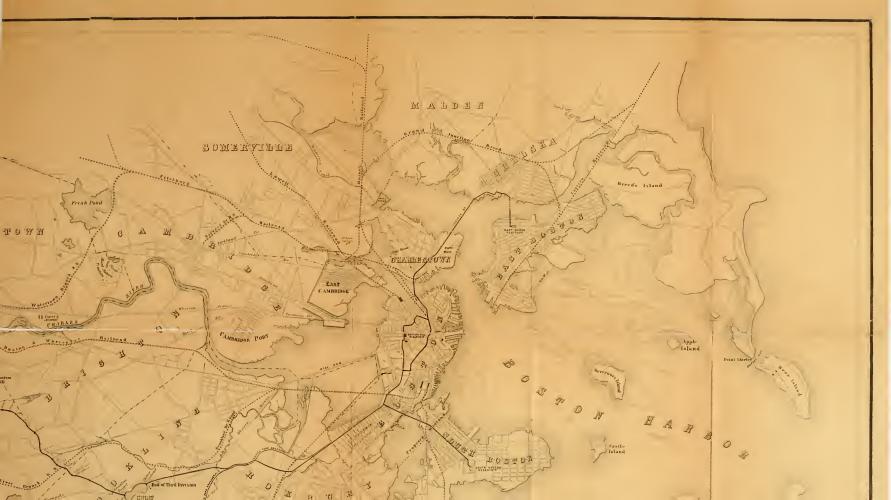
Total net disbursements by Water Commissioners and Water Board, - \$ \$4,321,794 26

 \mathbf{F}

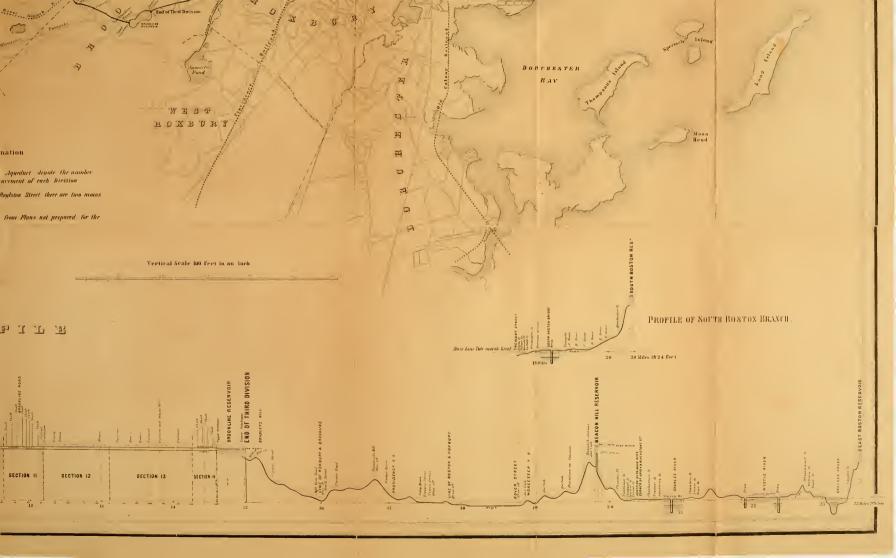
STATEMENT of the number of City Buildings, and other Public Places supplied with Cochituate Water to the 5th of December, 1850, with the value of the same, based upon the tariff of 1849.

1	Latin School,	\$10	00	\$10 00) .
1	English High School,	10		10 00	
20	Grammar Schools, -	10	00	200 00)
	Primary Schools, -	5	00	805 00)
	•				- \$1,025 00
11	Engine Houses, -	15	00	165 00	
1	Hook and Ladder House,	15	00	15 00)
4	Hose Carriage Houses,	15	00	60 00)
					- 240 00
1	City Stable (Harrison Av.	.) 60	00	60 00)
1	do (Commercial st	.) 28	00	28 00	
					88 00
5	Watch Houses,	5	00		25 00
	House of Correction, -	404	20		404 20
	Lunatic Hospital, -	137	00		137 00
	House of Industry, -	135	00		135 00
	House of Reformation,	28	00		28 00
`	Jail,	30	00		30 00
	Court House,	75	00		75 00
	Faneuil Hall Market,				
	(Urinals,) &c.) -	75	00		75 00
	Offal Station,	50	00		$50 \ 00$
	City Hall,	35			$35 \ 00$
	Faneuil Hall,	25			25 00
	City Building,	15			15 00
	Probate Office,	10			10 00
	Armory,	5			5 00
	Office at City Scales, -	3	00		3 00
	_	Amo	ount,	1	\$2,405 20











FRAGILE

DO NOT PHOTOCOPY

Photocopies
may be made
from the copp
in Microtext