

AUDITOR'S  
FIFTY-SECOND  
ANNUAL REPORT  
OF THE  
RECEIPTS AND EXPENDITURES  
OF THE  
CITY OF BOSTON,  
AND THE  
COUNTY OF SUFFOLK,  
FOR THE FINANCIAL YEAR  
1863-64.

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1863, MAY 1, (BOTH INCLUDED,) APRIL 30, 1864.

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CITY DOCUMENT.—No. 65.

BOSTON:  
J. E. FARWELL AND COMPANY, PRINTERS TO THE CITY,  
37 CONGRESS STREET.  
1864.

## CITY EXPENDITURES

### ENGINE AND HOOK AND LADDER HOUSES.

*Repairs on the various Houses, including cost of building a New Hook and Ladder and Hose House on Wareham Street, in addition to payments made on account of said House last year.*

*Amount carried forward,* \$ 552,712 51

\* The salaries of the Engineer and his Assistant are charged to Salaries.

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CITY EXPENDITURES — 1863-64.

<i>Amount brought forward,</i>	\$ 552,712 51
Mason's Work and Stock,	\$ 207 52
Carpenters' Work and Stock,	2,210 36
Painting and Glazing,	812 81
Repairing Paving in front of Houses,	2 50
Slating and repairing Roofs,	20 42
Plumbing and Copper Work,	159 05
Gas Pipe and Fixtures,	206 05
Plastering and Whitewashing,	188 41
Iron Work and Iron Collars for Stable Stalls in Steam Fire Engine Houses, and repairing Stalls in Stables,	67 50
Teaming,	92 50
Locksmithing,	4 75
Wire Window Nettings,	63 75
Paper Hanging,	60 32
	\$ 4,095 94

### HOSE AND HOOK AND LADDER HOUSE, WAREHAM STREET.\*

Balance paid to Contractors,	\$ 568 23	
Painting and Glazing,	43 00	
Plumbing,	43 00	
Carpenter Work and Stock,	39 29	
Gas Fixtures,	43 33	
Hardware and Iron Work,	5 98	
Wire Window Screens,	5 25	
Tables (20 feet),	20 50	
Labor,	5 25	
	773 83	
		\$ 4,869 77
<i>Amount carried forward,</i>		\$ 557,582 28

\* Total Cost of this House (including \$ 5,952 60 paid last year) \$ 6,726 43.

<i>Amount brought forward,</i>	\$ 557,582 28
<i>Amount Paid by Treasurer, per item No. 17 of his account,</i>	\$ 4,844 44
<i>Add, Transfer by Auditor from Public Buildings,</i>	25 33
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	\$ 4,869 77
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## FIRE ALARMS.

*Expense of carrying on the Telegraphic System  
of Fire Alarms, including payments made  
thus far on account of the East and South  
Boston extensions, viz : —*

### FIRE ALARM DEPARTMENT PROPER.

Salary of Superintendent,	\$ 1,200 00	
Salary of Assistants,	4,654 98	
One Magnetic Electric Machine,	600 00	
Other Instruments, and repairs of same,	208 26	
Lumber and Carpenter's Work, including cost of fitting up a Store-room for use of this Dept. at Hook and Ladder House No. 3,	160 23	
Iron Castings,	156 60	
Iron Brackets and Blacksmithing,	75 49	
Plumbing,	75 42	
Washing Clothing and Bedding,	71 97	
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<i>Amounts carried forward,</i>	\$ 7,202 95	\$ 559,170 11

<i>Amounts brought forward,</i>	\$ 7,202 95	\$ 559,170 11
Paid for two heavy Carbines and case for same, for use of office during the Riot of July last,	69 20	
Water used as a Motive Power,	65 00	
Mason work, setting Signal Boxes,	54 87	
Porous Cups, 409 at 12½ cents each,	51 12	
Damages. — Paid for repairing damage at Hollis St. Church, occasioned by the fall of a weight connected with the striking machine,	50 00	
Hardware and tools for Repairs,	45 22	
Printing and Stationery for office,	43 87	
Wire and expenses on same,	43 12	
Carting,	40 55	
Omnibus fares, and small cash disbursements of persons connected with the Fire Alarm Department, not charged elsewhere,	37 31	
Painting, and Glazing Skylights, and other small damages occasioned by the Telegraphic Wires,	28 31	
Small supplies and Incidental expenses,	10 97	
Soap,	10 64	
Locks and Keys,	10 45	
Office Furniture,	7 12	
Fluid,	6 75	
Tin Signs to designate places of deposit of Signal-box Keys,	6 00	
<i>Total Expenditures for Fire Alarm Department, exclusive of East and South Boston Expenses,</i>	<u>\$ 7,783 45</u>	
EAST BOSTON EXTENSION. Part of cost of extending a line to East Boston, the Alarm		
<i>Amount carried forward,</i>		<u>\$ 559,170 11</u>

<i>Amount brought forward,</i>		\$ 559,170 11
System not having as yet been in operation in that locality, viz : —		
One mile of Submarine Cable and Insurance on same from New York,	\$ 2,386 00	
Wire,	517 87	
Brackets and Iron Work,	402 00	
Instruments,	208 05	
Three Alarm Gongs for Engine Houses, at \$ 50 each,	150 00	
Castings,	96 22	
Spikes,	78 65	
Labor,	62 68	
Expenses of Supt. to New York in relation to Cable, &c.	58 61	
Insulators,	52 29	
One Bell Standard,	11 58	
Carriage Hire and Carting,	6 78	
Locks for Signal Boxes, &c.	6 00	
Lumber,	5 60	
<i>Total on account of East Boston } Extension,</i>	<u>\$ 4,042 33</u>	

SOUTH BOSTON EXTENSION. Expended this  
year on this account, viz : —

Iron Work, Brackets, &c.	<u>\$ 96,00</u>
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#### RECAPITULATION.

Fire Alarm Department proper,	\$ 7,783 45	
East Boston Extension,	4,042 33	
South Boston Extension,	96.00	
	<u>11,921 78</u>	
<i>Amount paid by Treasurer, per item No. 19 of his account,</i>	\$ 11,910 00	
<i>Add, amount not yet called for,</i>	11 78	
	<u>\$ 11,921 78</u>	
<i>Amount carried forward,</i>		\$ 571,091 89

*Amount brought forward,*

\$ 571,091 89

**FIRE DEPARTMENT.**

*Expenses of this Department, exclusive of the Fire Alarm System, Engine and Hook and Ladder and Hose Carriage Houses; also exclusive of the Salaries of the Chief Engineer, and the Clerk of the Board of Engineers, which are charged under the head of Salaries.*

*The rates of pay of the officers and members, and much other information on the business of the Department, will be found in the Appendix, under the head of FIRE DEPARTMENT.*

Annual compensation to the Nine Assistant Engineers, and to the Officers and Members of the various Engine, Hook and Ladder, and Hose Companies,      \$ 60,707 92

One new first-class Steam Engine No. 10, and Suction Hose for same, \$ 2,750 00

Freight on same from

Manchester,                      11 34

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2,761 34

Two new Steam Engine Hose Carriages,                      385 00

Repairs of Engines, Hose Carriages, Hook and Ladder Carriages; Fuel Wagons, and other apparatus, exclusive of the Hose belonging to the Department,                      7,254 25

Paid for 5,466½ feet new Leading and Suction Hose,                      7,194 02

Grain, Hay, Meal, Straw, &c. for the Horses,                      4,918 37

Cost of connecting the Cochituate Water Pipes with 28 Reservoirs,                      2,571 96

Fuel for the Engine Houses,                      2,080 64

*Amounts carried forward,*

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\$ 87,873 50      \$ 571,091 89

<i>Amounts brought forward,</i>	\$ 87,873 50	\$ 571,091 89
New Horses, and difference of exchange of old ones,	1,865 00	
Fuel for the Steam Engines,	1,695 47	
New Hose-Pipes, Caps, and Badges,	1,427 14	
Repairs on the Leading and Suction Hose, Caps, Badges, and other work in that branch,	1,422 61	
Incidental Expenses of the Committee,	1,337 49	
Hire of Horses to draw the Engines and Hooks and Ladders to and from fires,	1,322 69	
Harnesses, and repairs on same,	1,133 18	
Furniture, Utensils, Bedding, &c. for Engine Houses,	1,062 91	
Shoeing Horses, and Medicine and attendance on Sick Horses,	993 79	
Gas for Engine Houses,	926 56	
Filling and cleaning Reservoirs,	863 11	
Expense of collecting apparatus after fires; and carting machines to and from workshops for repairs; and other miscellaneous expenses of the Department not charged elsewhere,	693 35	
Travelling Expenses, including Visits to New York and to Manchester, N. H., on official business,	560 50	
Water for the various Engine Houses,	526 00	
Washing Bedding,	414 72	
Warming Apparatus for Engine Houses,	412 34	
Iron Frames and Covers for Reservoirs,	375 25	
Neatsfoot Oil and Leather Preservative for Engine Hose; and Sperm Oil for the Engines,	358 07	
<i>Amount carried forward,</i>	\$ 105,263 68	\$ 571,091 89

FIRE DEPARTMENT.

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<i>Amounts brought forward,</i>	\$ 105,263 68	\$ 571,091 89
Stable Furniture, Hardware, Tools, and Utensils for the Stables and Engines,	331 52	
Ladders and Crotch Poles. — Purchase of new and repairs of old,	317 68	
Soap and Sponge,	255 26	
Kerosene, Fluid, and Wicking for Torches,	218 08	
Carriage Hire for the Com- mittee,	211 00	
Cotton Waste for cleaning Steam Engines,	185 33	
Signs for Hydrants in streets,	169 20	
New Lanterns and repairing old ones,	146 14	
Printing and Stationery for the Department,	143 72	
New Ropes for Hose Carriages,	68 86	
Refreshments furnished to mem- bers of the Department at large fires,	55 60	
Varnish, Rotten Stone, and sundry small items,	36 64	
Rent of rooms in rear of Niles' Block, used for Stables and Sleeping Rooms, for Steam Engine No. 4, 20 days from April 1 to April 20, 1863,	33 33	
Tallow and Grease for the En- gines,	29 32	
Repairing Reservoirs, Paving around same,	28 00	
Ringling Alarm Bells at East Boston one year,	25 00	
New Sign for Engine House No. 4,	12 00	
Removing night soil,	4 00	
<i>Total for Fire Department, exclusive of } Fire Alarm Telegraph,</i>		107,534 36
<i>Amount carried forward,</i>		\$ 678,626 25

<i>Amount brought forward,</i>	\$ 678,626 25
<i>Amount paid by Treasurer, per item No. 18 of his account,</i>	\$ 107,364 85
<i>Add, amount not yet called for,</i>	169 51
	<u>\$ 107,534 36</u>



George W. Bird, Chief Engineer,	\$ 1,500 00
George H. Allen, Secretary to Board of Engineers,	800 00

*The Salaries of Assistant Engineers, at \$ 250 per annum each, are charged to the appropriation for the Fire Department.*

*Per item No. 92 of Treasurer's account.*

In Boston proper, 964; South Boston, 317; East Boston, 188; Brookline, 3; Roxbury, 12; Charlestown, 11; Chelsea, 7. Total, 1,502.

## POLICE DEPARTMENT.

**FIRE POLICE.** — Previous to the year 1860 special officers, distinct from the regular force, were appointed to do Police duty at fires. Since that date the regular Police have performed that service. Under the present regulations, a certain number of officers at each Police Station are regularly detailed to do Fire Police duty on their respective stations.

Officers who are on duty on two or three certain beats at opposite extremes of their Station, whether by day or night, are under instructions to repair at the earliest possible moment, to any fire occurring on the Station ; and others, if necessary, are sent from the Station House as soon as practicable. The regulations require the officers on adjoining beats to cover the beats left vacant by officers at the fire, so that none of the territory is left unprotected.

## FIRE DEPARTMENT.

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The Total Expenditures incidental to the System of Extinguishing Fires for the year 1863-4, have amounted to \$ 124,325.91, viz : —

For Steam Engines, Men, Horses, Hose, Hose Carriages, and other incidentals of the Department proper . . . . .	\$ 107,534 36
Engine and Hose Carriage Houses, <i>per page</i> 53, . . . . .	4,869 77
Fire Alarm System, <i>per page</i> 56, . . . . .	11,921 78
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	\$ 124,325 91
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All the Engines, Hose Carriages, Hook and Ladder Carriages, Fuel Wagons, and other property connected with this Department, belong to the City, and are under the control of the Chief Engineer and a Standing Committee of the Board of Aldermen.

The Department consists of a Chief Engineer, nine Assistant Engineers, a Secretary to the Board of Engineers, and twenty-two companies, viz : —

Ten Steam Fire Engine Companies,  
Eight Horse Hose Companies,  
One Hand Hose company, and  
Three Hook and Ladder Companies.

Each Engine Company has one Engineer, one Fireman, one Driver, and eight Hosemen ; and the apparatus is drawn by two or more Horses.

The Engineer, the Fireman, and the Driver are all the time on duty in or about the Engine Houses; and the Horses are at all times ready for immediate service.

One of the Hosemen designated by the Board of Engineers is recognized as *Foreman of the Hose*.

The Engineer has the whole charge of the Engine and its appurtenances, and is responsible for the care, good order, and well-working of the Engine; and is accountable for the proper performance of all the duties required of the Firemen and Driver.

The Fireman, besides his duties as such, is also to discharge the duty of Steward of the Company.

The Driver has charge of the Stable and Horses, and all that belongs to that Branch of the service, and is to assist the Fireman in the discharge of his duties as Steward.

The *Foreman of the Hose* is to perform the duties of placing the Engine at Fires, taking command of the Hosemen, and also to act as Clerk of the Company.

All the Hose Carriages drawn by horses, are constructed to carry *eight hundred feet* of two and one half inch hose. Nine men, including the driver, are employed for each Hose Carriage, the driver being in constant attendance in the capacity of Steward and Clerk of the Company.

#### PAY OF THE DEPARTMENT.

That of the Chief Engineer is \$ 1,500 per annum.

That of the Assistant Engineers is \$ 350 each per annum.

Engineers of Steam Engines receive \$ 70 00 per month.

Firemen, 60 00

Drivers of Apparatus, 55 00

Foremen of Hose, 175 00 per year.

Hosemen, 150 00

Foremen of Hook & Ladder Companies, 175 00

Assistant Foremen, Clerks, Stewards, Axemen, and Rakemen, \$ 125 per annum; Members, \$ 125 per annum, — all payable

quarterly with the exception of those who are constantly employed on Steam Engines, who receive their salaries monthly.

The Hand Hose Company is located at Washington Village, South Boston, and its members are required to do duty only in that section, except in cases of large fires. It is composed of eight members, and their compensation is as follows :—

Foreman	.	.	.	.	.	\$ 50 00 per year.
Steward	.	.	.	.	.	50 00
Hosemen	.	.	.	.	.	30 00

#### FIRE ALARMS.

All the Apparatus connected with this Department is under the care and control of the Superintendent of Fire Alarms and a Joint Standing Committee of the City Council.

A constant watch is kept at the Office in Court Square, night and day, by the operators. Each operator serves two alternate terms of three hours each, as principal, and the same as assistant operator ; so that twelve hours' service at the office out of every twenty-four is required from each operator. No operator is permitted to sleep during his watch, unless expressly relieved by some one else, and by consent of the Superintendent.

Each operator is accountable to the Superintendent for any omissions or mistakes that may occur at the Office during his hours of duty.

An accurate account is kept of the time of giving each alarm, and of the Station from which it originates, and all other necessary information.

There are now sixty-one Signal Boxes or Stations.

Alarms are transmitted to the Office from the signal Stations or Boxes, by turning a crank in the Box. Alarms are usually given in less than a minute from the time the crank is turned in any Box. The Police Officers and one other person only, resident near each Box, have keys to the same.

#### THE MERIDIAN BELLS.

Forty-seven Bells, at their various locations on Churches, School Houses, Engine Houses, and Police Stations, are struck from the Fire Alarm Office *precisely* at noon every day. Care is taken to secure the utmost accuracy in the time, for which purpose a first-rate chronometer and a transit instrument of the best quality are used, and observations of the Sun are made as often as is necessary.

## CITY PROPERTY

**FLATS.** — About 8,940 feet of flats on the west side of Charles Street, at the foot of Mount Vernon Street, part of which is occupied by the Engine House for Engine Company No. 4.

**CITY BUILDING,** corner of Court Square and Williams Court, covering about 2,035 feet of land.

*This Building is occupied by the Second Police Station ; the Chief Engineer of the Fire Department ; the Magnetic Telegraph Fire Apparatus and attendants ; Superintendent of Lamps ; City Physician ; and is also used as a Ward Room for the Citizens of Ward Four, on Election Days.*

### POLICE DEPARTMENT.

*The following property is in charge of the Chief of Police, and kept for use in his department.*

**STATION HOUSES,** viz : —

No. 6. Brick House, Broadway, South Boston. This building also accommodates Engine Company No. 2.

### FIRE DEPARTMENT.

**STEAM FIRE ENGINES.** — Ten, located as follows, viz : six in City proper, two at East and two at South Boston.

**HORSE HOSE CARRIAGES.** — Eight, located as follows, viz : six in City proper, one each in East and South Boston.

**HAND HOSE CARRIAGES.** — One at Washington Village.

**HORSES.** — Thirty.

**FUEL WAGONS.** — Two in Engine House, East Street, and one on Paris Street, East Boston ; one in Engine House No. 1 ; one in Engine House No. 2, at South Boston.

**FIRE HOOKS.** — Nine.

**FIRE LADDERS.** — Eighty-eight, of different sizes.

**HOSE.** — About Eighteen Thousand Feet of Leading and Suction.

**STEAM FIRE ENGINE HOUSES.** — Ten, located as follows, viz :  
Broadway, near Dorchester Street ; Fourth, near K Street ; Washington, near Dover Street ; Scollay's Building ; Marion Street, E. B. ; Wall Street ; Purchase Street ; North Bennet Street ; Paris Street, E. B. ; Foot of Mount Vernon Street.

**HOSE CARRIAGE HOUSES.** — Nine, viz : Salem Street ; Hudson Street ; Fruit Street ; Northampton Street ; Shawmut Avenue ; Chelsea Street, E. B. ; Warren Street ; B Street ; Washington Village.

**HOOK AND LADDER HOUSES.** — Three, viz : one on Harrison Avenue, corner of Wareham Street ; one on Friend Street ; and one on Paris Street, E. B.

**SPARE APPARATUS.** — Two Steam Fire Engines ; one Hook and Ladder Carriage ; three Hand Engines ; about Eight Hundred feet of three-inch leather Hose. There is one Hose Carriage with Four Hundred feet of Hose, located on the Mill Dam. This hose is only used by the residents of that location.

**RESERVOIRS.** — One Hundred and Thirty-two, of which thirteen are located at East Boston ; nineteen at South Boston ; and the Balance in the different Wards of the City. They contain from 300 to 400 hogsheads each, and are mostly supplied by rain water from the roofs of buildings. Fifty-seven of these Reservoirs are now connected with the Cochituate Water Pipes.

**THE ENGINES, HOSE, CAPS, AXES, LADDERS,** and all the other Apparatus used by the Fire Department, are owned by the City, and are under the care and control of the Chief Engineer of the Fire Department.

**HYDRANTS.** — For supplying water in case of fire, 1,469, viz :  
in the City proper, 964 ; at South Boston, 317 ; at East Boston, 188 ; an increase of 29 over last year. The Hydrants are located at an average distance of 250 feet from each other.

TELEGRAPHIC FIRE ALARMS.

*The following property is in charge of the Superintendent : —*

**MAGNETIC FIRE ALARM APPARATUS**, in the City Building, the whole cost of which is over \$35,000.

**WORKING LINES OF WIRE**, about seventy-five miles.

**SIGNAL BOXES**, in use, sixty-one.

**STRIKING MACHINES**, twenty-eight, four of which are not in use.

**ENGINE HOUSE ALARM GONGS**, fifteen.

**ENGINE HOUSE SIGNAL GONGS**, seventeen.

**CLOCKS**. — One Electric Watch Clock. One Repeating Clock for striking signals ; one do. for tapping-box signals.

**MAGNETO-ELECTRIC MACHINES**, for striking bells, two.

**RELAY MAGNETS**, thirteen.

**OFFICE FURNITURE**. — One Switch-Board, one large Galvanometer, for Alarm Battery, five small do. for Signal Batteries ; 4,000 feet new Iron Wire ; 600 Insulators ; 50 Iron Brackets ; lot of old Machinery and old Iron, useless except for repairing other machinery, or to sell as old material ; Office Furniture, Bedsteads, Bedding, and sundry other articles, as per Schedule on file in the Auditor's Office.