



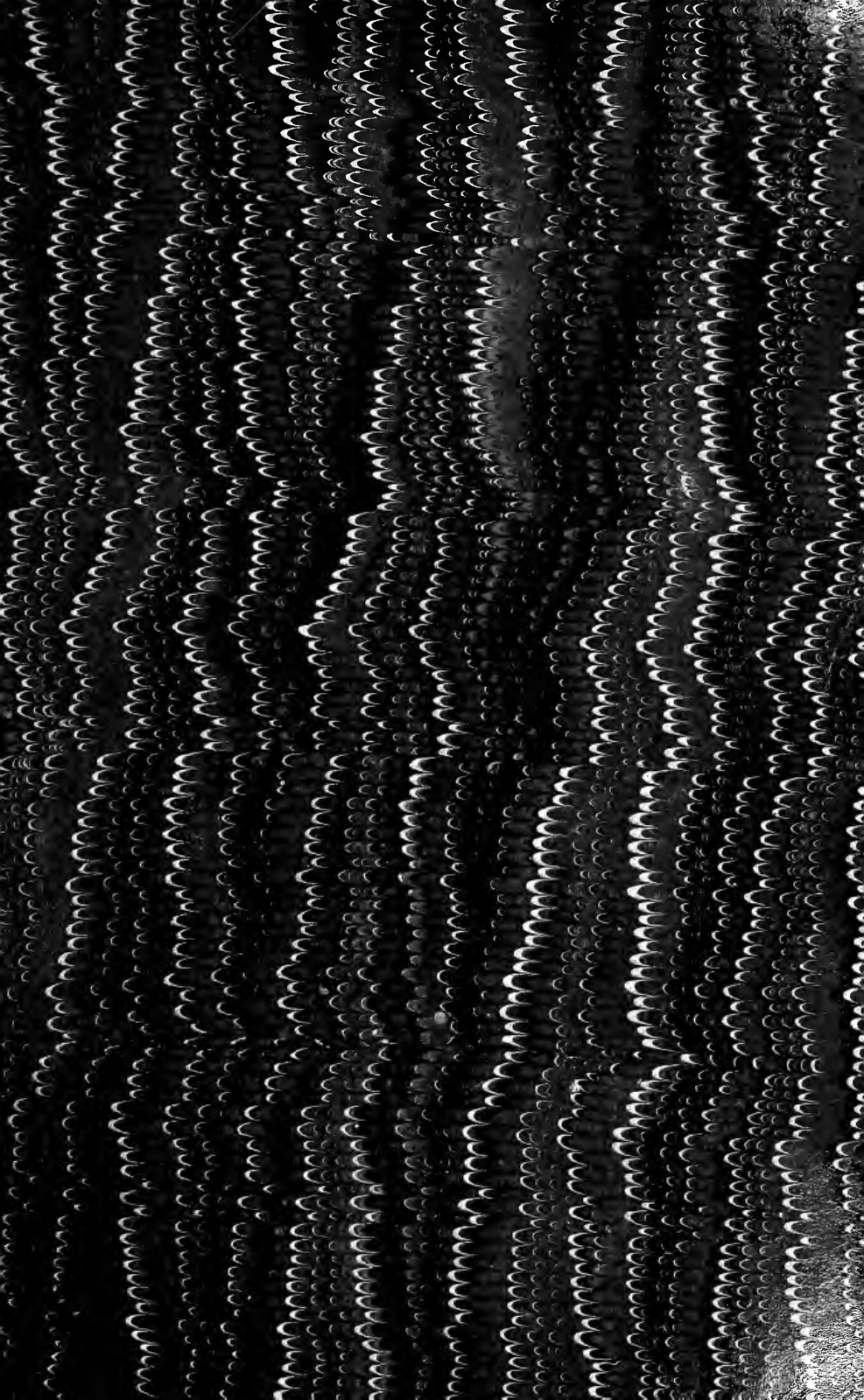
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1908



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Boston. Street Department.





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COMPLIMENTS OF . . .

GUY C. EMERSON,

Superintendent of Streets.

PLEASE EXCHANGE.





# ANNUAL REPORT

OF THE

# STREET DEPARTMENT

FOR THE

YEAR 1908



CITY OF BOSTON  
PRINTING DEPARTMENT  
1909



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ANNUAL REPORT  
OF THE  
STREET DEPARTMENT  
FOR THE  
YEAR ENDING JANUARY 31, 1909.

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BOSTON, February 1, 1909.

HON. GEORGE A. HIBBARD,  
*Mayor of the City of Boston:*

SIR,—In compliance with the Revised Ordinances, the annual report of the operations and expenses of the Street Department for the year ending January 31, 1909, is herewith respectfully submitted.

ORGANIZATION.

The work of the department has been carried on during the year according to the reorganization created by chapter 3 of the Ordinances of 1908. The present organization is similar to that established in 1891 and amended in 1895, except that the then existing Lamp Department is now a division of the Street Department. The several divisions of the department are as follows:

Central Office,  
Bridge Division,  
Ferry Division,  
Lamp Division,  
Paving Division,

Sanitary Division,  
Sewer Division,  
Street Cleaning and  
Watering Division,  
Boston and Cambridge  
Bridges.

NOTE.—The Boston and Cambridge Bridges Division, so called, is not properly a division of the Street Department, as this work is in charge of a commission of two, one member appointed by the Mayor of Boston and the other by the Mayor of Cambridge, under the provisions of chapter 467 of the Acts of 1898 and chapter 412 of the Acts of 1904; but on account of the fact that the present Superintendent of Streets is the Boston member of this commission and also because one-half of the expenses of this commission is defrayed from the appropriation for the Bridge Division of this department, it is here treated as a division of this department.

#### APPROPRIATIONS.

The money assigned for the work of the Street Department during the year was made available from the following sources:

*First.*—Maintenance appropriation, derived from the income of the city raised by taxation. Before the commencement of each financial year, February 1, the department estimates of the amounts necessary for the proper maintenance of the various divisions are submitted to the Mayor, who makes such recommendation as he may deem proper to the City Council. The maintenance appropriations, as passed by the City Council and approved by the Mayor, were as follows:

Central Office . . . . .	*
Bridge Division . . . . .	\$200,000 00
Ferry Division . . . . .	225,000 00
Lamp Division . . . . .	800,000 00
Paving Division . . . . .	850,000 00
Sanitary Division . . . . .	750,000 00
Sewer Division . . . . .	350,000 00
Street Cleaning and Watering Division . . . . .	570,000 00
Boston and Cambridge Bridges . . . . .	†

*Second.*—Appropriation from tax levy for permanent street improvements. (Paving Division.)

Balance February 1, 1908 (loan) . . . . .	\$5,052 31
Appropriation (tax levy) . . . . .	249,000 00
Revenue . . . . .	615 00
	<hr/>
Total . . . . .	\$254,667 31
Amount expended during year . . . . .	177,566 28
	<hr/>
Balance February 1, 1909 . . . . .	<u>\$77,101 03</u>

\* Paid from appropriations for Paving and Sewer Divisions.  
 † Paid from appropriation for Bridge Division.

*Third.*— Loan inside the debt limit for building new streets assessable on abutting property, authorized by chapters 214 and 393 of the Acts of 1906. (Paving Division.)

Amount expended during the year . . . . .	<u>\$99,412 74</u>
---	--------------------

*Fourth.*— Loans inside the debt limit under the provisions of chapter 426 of the Acts of 1897, as amended by chapter 204 of the Acts of 1908, from which all sewerage works are built, except those in the Charles River Basin watershed. (Sewer Division.)

Balance February 1, 1908 . . . . .	\$73,778 09
Loan . . . . .	300,000 00
<hr/>	
Total . . . . .	\$373,778 09
Expended during the year . . . . .	322,482 32
<hr/>	
Balance February 1, 1909 . . . . .	<u>\$51,295 77</u>

*Fifth.*— Loan under the the provisions of chapter 383 of the Acts of 1903, as amended by chapter 485 of the Acts of 1907 and by chapter 514 of the Acts of 1908, authorizing the expenditure in each of the years from 1908 to 1912, inclusive, of one-twentieth of one per cent of the city's taxable valuation on the separate system of drainage. (Sewer Division.)

Balance February 1, 1908 . . . . .	\$176,597 47
Loan (\$255,000 inside, \$400,000 outside, the debt limit) . . . . .	655,000 00
<hr/>	
Total . . . . .	\$831,597 47
Expended during the year . . . . .	599,973 76
<hr/>	
Balance February 1, 1909 . . . . .	<u>\$231,623 71</u>

#### GENERAL REMARKS.

The department has been conducted during the year along the lines established during previous years. The policy of doing the work of maintenance and repairs by the day labor force has been continued, and, in general, new construction has been done by contract. Efforts have been made to economize along certain lines, and some reduction has been made in the labor force. Analysis of the work done shows a greater amount of work performed by the smaller force, at a lower price per unit, than by the larger force during the

previous year. The result demonstrates conclusively that the employment of inefficient and incompetent men, with duties insufficient for regular employment, had resulted in a demoralization of the entire force and an expense beyond the actual compensation of the employees in question. It is probably a fact that the efficiency of the average city laborer is considerably less than that of the average laborer in private employ. In comparing the cost of day labor work with that of contract work, it should be taken into consideration that the city laborer is handicapped in the matter of efficiency by circumstances not altogether of his own making. Some of these are as follows:

The working of the Civil Service law, notwithstanding its merits, places the department at a disadvantage by furnishing, in certain lines, men who, on account of age or lack of previous experience, are incompetent and inefficient. Especially is this true of that part of the law known as the "Veterans' Preference Act"; and it is particularly unfortunate that men furnished under its provisions are usually of the grade of foremen, thereby lessening to a great degree the efficiency of the subordinates under them.

The various executive orders regarding payment to be allowed for holidays reduces the working time of the force by about 10½ per cent, as compared with contract work, and entail upon the department a yearly expenditure of approximately \$170,000 for which no service is rendered. The wages of city laborers average about 25 per cent above those paid by contractors for similar work, and entail a further excess cost of about \$320,000 per year to the four divisions of this department employing a force of common laborers, viz., the Paving, Sanitary, Sewer and Street Cleaning Divisions.

Some extension of the contract system has been made during the year, as follows:

In the matter of hired teams, the petty patronage on this account had approached the condition of a nuisance. During the early part of the year, the department had upward of one thousand applications from persons wishing to furnish teams at the standard price of \$6 per day. This price was considerably greater than that paid by outside parties, and it was determined to secure teams by open competition, with the result that the bills for teaming for the year have been reduced \$144,035.98 from the amount paid during the preceding year, and this with a considerable increase in the amount of work done and without increase in the number of teams owned directly by the department. These contracts, which did not include watering carts, took effect between July 22 and

August 12, 1908, so that the saving given is only for the last six months of the year. It is intended to extend the contract system to the street watering service during the ensuing year.

The contract system has also been extended, with considerable success, to the matter of snow removal. It does not appear, however, that it is advisable to undertake the entire work of snow removal by contract. As an auxiliary to the force of city teams the contract system has seemed at present to be desirable.

In accordance with the recommendations of the Finance Commission, all the stone-crushers owned by the city have been sold or their services otherwise dispensed with, and crushed stone has been secured by advertisement in the open market, resulting in a very material saving.

The matter of cleaning catch-basins and sewers has been undertaken by contract after public competition, and this has resulted in a considerable reduction in the cost of doing the work.

In the Sanitary Division, the contract system has been extended to the collection of ashes in the East Boston and Brighton districts, with a saving of approximately 50 per cent of the cost of doing the work by day labor.

The Lamp Division in all its branches has reverted to the contract system.

An analysis of the figures given above indicates that the Street Department expends in certain ways a very large sum of money for a purpose that, for the need of a better word, may be designated as charity. It is worthy of serious consideration whether steps should not be taken to prevent the extension of the day labor system under present conditions and to allow the money expended under it to be economically used for the benefit of the general public according to contract methods. With this end in view few additions to the labor service have been made during the past year, except in so far as it has been necessary to appoint new men in the clerical and engineering force to perform duties in connection with the day labor force already employed and with the contract work.

The present report is made with the object of giving desirable information in greater detail and with a greater regard to unit costs than has been presented in reports of recent years. While the result has been accomplished to some extent, it has been found impossible to give such information as completely as desired, owing to the fact that the accounts for the early portion of the year were in the same form as in

previous years, and necessary data were therefore not available. It is intended that the report for the ensuing year shall be more satisfactory in this respect.

The following are some of the general details regarding the operation of the divisions constituting the Street Department. The appropriations, as given, include also revenues and, in the case of special appropriations, balances on hand February 1, 1908.

---

#### BRIDGE DIVISION.

Appropriation and revenue . . . . .	\$200,595 00
Expenditures . . . . .	198,797 30
	_____
Unexpended balance . . . . .	\$1,797 70

The appropriation for the Bridge Division has been devoted entirely to the maintenance and necessary general repairs by day labor methods. Many of the bridges are in need of extensive minor repairs, cleaning, painting, etc., and an increase should be made in the appropriation for the ensuing year, to allow this work to be done, after which, the usual appropriation should be ample for their maintenance in satisfactory condition.

---

#### FERRY DIVISION.

Appropriation and revenue . . . . .	\$225,044 85
Expenditures . . . . .	249,068 39
	_____
Deficit . . . . .	\$24,023 54

In the Ferry Division, the work has been continued along the lines of former years. Some slight reduction and re-arrangement of the force has been made in the interests of economy and efficiency; but, in general, the organization remains the same. Increases of wages by executive order during 1907, coupled with the decreased appropriation for the past year, have rendered a curtailment of service necessary by dispensing with the service of one boat for a portion of the time.

The contract for delivering coal from the coal pockets to the boats was let by public competition, instead of by the former method of giving this contract to a favored contractor without competition. The result has been a saving of \$1,001.08 for the year.



Slight labor troubles developed early in the year on account of the demands of the engineer force for vacations or increases in salaries, resulting in an incipient strike on the part of the engineers and necessitating the discharge and replacement of the entire force. Since the discharge of this force, the conditions of service on the ferries have materially improved.

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LAMP DIVISION.

Appropriation and revenue . . . . .	\$800,023 75
Expenditures . . . . .	809,510 06
	<hr/>
Deficit . . . . .	\$9,486 31

The appropriation for this division for the past year was materially reduced from that of the preceding year, and was somewhat exceeded, as shown above.

A new contract for the gas lighting of the city was entered into with the Rising Sun Street Lighting Company for a period of one year, beginning September 15, 1908. Previous to this time, the work of maintenance was done directly by city laborers, the lamps being leased from the Rising Sun Street Lighting Company. This contract has resulted in a considerable economy over the previous method and in much more satisfactory service.

---

PAVING DIVISION.

	Maintenance.	Street. Improvements.
Appropriations and revenue . . . . .	\$863,565 09	\$254,667 31
Expenditures . . . . .	833,981 43	177,566 28
	<hr/>	<hr/>
Unexpended balances . . . . .	\$29,583 66	\$77,101 03

The expenditures for this division, except the expenditures on account of streets laid out under chapter 323 of the Acts of 1891, and amendments thereof, and a balance of about \$5,000 remaining from the loan of 1907 for Street Improvements, have been entirely from appropriations from the tax levy. As has been the custom, the greater portion of this expenditure has been by day labor methods on account of maintenance and repairs. The remarks regarding the cause of the inefficiency of the city laborer probably apply more directly to this division than to any other division of the Street Department. The same is true of the remarks regard-

ing the excess paid for hired teams. Considerable increase of efficiency has been noted, and conditions are far more satisfactory at the present time.

The percentage of macadam streets in the city is excessive, and the requirements of automobile traffic have made the question of maintenance a serious one. It can be mathematically demonstrated that a great saving could be made by placing suitable permanent pavement upon the greater portion of residential streets; and in the interests of economy steps should be taken as rapidly as possible to reduce the area of macadam pavement.

During the year experiments have been made with various bituminous binders for macadam pavements, and it is anticipated that different forms of bituminous macadam will be extensively laid during the ensuing year, replacing the present macadam pavements.

A reduction has been made in the number of districts and district foremen by the combination of Districts 2 and 3 and of Districts 5 and 11, under one foreman in each case. Otherwise the organization remains the same as for previous years. Further combinations and reductions are anticipated during the ensuing year.

---

#### SANITARY DIVISION.

Appropriation and revenue . . . . .	\$750,329 00
Expenditures . . . . .	745,200 90
	<hr/>
Unexpended balance . . . . .	\$5,128 10

This division has shown the most gratifying increase in efficiency during the year of any division of the Street Department, although the appropriation was somewhat smaller than for the preceding year and the increase in the amount of work done was normal. The cost of doing the work has materially decreased, and the division finishes the year with a substantial surplus remaining from its appropriation. The division was perhaps more greatly overloaded with superfluous employees than any other, and dispensing with the services of such employees, coupled with the increase in the size of the loads hauled and the amount of work done, has been responsible for the decrease in cost. As in the other divisions, the entire economy has been effected during the last eight months of the fiscal year; and conditions are such that during the ensuing year much greater economies will be

accomplished. Additions have been made to the working plant, and improved apparatus and a considerable number of teams purchased during the year.

On account of the expiration of the contract with the City Refuse Utilization Company (which terminated on September 15, 1908) for the disposal of city waste, and also because of the growing scarcity of inland dumps for the disposal of refuse, extensive investigations have been made during the present year, with the idea of finding in the near future a more acceptable method for the disposal of the city waste. Bids for incinerators for the disposal of a large part of the city refuse were asked for, but the returns were unsatisfactory, indicating a cost beyond an amount that could be reasonably considered by the city at the present time. Investigations are still in progress, and it is hoped that some satisfactory general scheme may be outlined in the near future.

---

#### SEWER DIVISION.

	Maintenance.	Sewerage Works.	Separate System.
Appropriations and revenue . . . . .	\$352,142 14	\$373,778 09	\$831,597 47
Expenditures . . . . .	351,162 41	322,482 32	599,973 76
Unexpended bal- ances . . . . .	\$979 73	\$51,295 77	\$231,623 71

This division has been conducted along the same lines as for previous years. The amount of the force has been somewhat reduced, and the division finished the year within its appropriation and at a considerable reduction from the expenses of the previous year.

---

#### STREET CLEANING AND WATERING DIVISION.

Appropriation and revenue . . . . .	\$570,050 50
Expenditures . . . . .	573,955 81
Deficit . . . . .	\$3,905 31

The appropriation for this division was materially reduced from those of previous years, and the division somewhat exceeded it. As the work of this division is more closely under observation by the public than that of any other and most nearly affects the comfort and convenience of the

citizens, it is recommended that an increased appropriation be made for the ensuing year, in order that the work of the division may be extended.

During the year, extensive experiments have been made with various dust-laying compounds, and as a result the use of calcium chloride has been adopted to a considerable extent on suburban streets, and an emulsion of crude petroleum has been found most suitable upon streets where the traffic is considerable. These materials are greatly superior to water as dust preventatives, and although the oil emulsion has some disadvantages, they are more than compensated for by the advantages obtained. It is the intention to extend the use of these materials very greatly during the ensuing year.

Beginning early in December, 1908, the force of the division was placed in uniforms, the regulation government khaki being adopted for the purpose. This change has resulted in greater neatness in the appearance of the force, and seems also to have been productive of increased efficiency.

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#### BOSTON AND CAMBRIDGE BRIDGES.

Appropriation	:	:	:	:	:	:	—
Expenditures	:	:	:	:	:	:	\$18,524 29

As has been the custom, the work of the Boston and Cambridge bridges has been directly under the charge of the Cambridge member of the commission, Mr. William H. Joyce, and to him belongs in a great measure the credit for the very excellent work accomplished.

No appropriation was made for this work during the year, and the expenditures given at the head of this paragraph were taken from the general appropriation for the Bridge Division, and are included under the expenditures given for that division.

Following are appendices containing detailed reports and information regarding the conduct of the various divisions.

The expenditures under the several appropriations for the year 1908 were as follows:

Maintenance . . . . .	\$3,761,676 30
Street Improvements . . . . .	177,566 28
Highways, Making of . . . . .	99,412 74
Separate Systems of Drainage . . . . .	599,973 76
Sewerage Works . . . . .	322,482 32
Bridge, Specials . . . . .	2,668 83
Paving, Specials . . . . .	7,577 39
Total . . . . .	<u>\$4,971,357 62</u>

**Recapitulation of Expenditures for the Twelve Months ending  
January 31, 1909.**

OBJECT OF APPROPRIATION.	Current Expenses.	Special Appropriations.	Totals.
<b>Street Department:</b>			
Bridge Division . . . . .	\$198,797 30	\$2,668 83	\$201,466 13
Ferry Division . . . . .	249,068 39		249,068 39
Lamp Division . . . . .	809,510 06		809,510 06
Paving Division . . . . .	833,981 43	7,577 39	841,558 82
Sanitary Division . . . . .	745,200 90		745,200 90
Sewer Division . . . . .	351,162 41	922,456 08	1,273,618 49
Street Cleaning and Watering Division . . . . .	573,955 81		573,955 81
Street Improvements . . . . .		177,566 28	177,566 28
Highways, Making of . . . . .		99,412 74	99,412 74
Totals . . . . .	\$3,761,676 30	\$1,209,681 32	\$4,971,357 62

### Financial Statement of the Street Department Appropriation.

February 1, 1908, to January 31, 1909.

#### Maintenance.

APPROPRIATION.	Appropriations and Transfers during 1908-09.	Revenue.	Total Credits.	Expenditures for the twelve months ending January 31, 1909.	Balances of Divisions Jan. 31, 1909.*
Street Department:					
Bridge Division.....	<sup>1</sup> \$198,202 30	\$595 00	\$198,797 30	\$198,797 30	\$1,797 70
Ferry Division.....	<sup>2</sup> 249,023 54	44 85	249,068 39	249,068 39	.....
Lamp Division.....	<sup>3</sup> 809,500 00	23 75	809,523 75	809,510 06	13 69
Paving Division.....	<sup>4</sup> 820,476 68	13,565 09	834,041 77	833,981 43	83 66
Sanitary Division....	<sup>5</sup> 744,871 90	329 00	745,200 90	745,200 90	5,128 10
Sewer Division.....	<sup>6</sup> 349,020 27	2,142 14	351,162 41	351,162 41	979 73
Street Cleaning and Watering Division..	<sup>7</sup> 573,905 31	50 50	573,955 81	573,955 81	.....
Totals.....	\$3,745,000 00	\$16,750 33	\$3,761,750 33	\$3,761,676 30	\$8,002 88

<sup>1</sup> Appropriation . . . . .	\$200,000 00	
Revenue . . . . .	595 00	
Transferred to Ferry Division . . . . .	1,797 70	<u>\$198,797 30</u>
<sup>2</sup> Appropriation . . . . .	\$225,000 00	
Revenue . . . . .	44 85	
Transferred from City Treasury . . . . .	24,023 54	<u>\$249,068 39</u>
<sup>3</sup> Appropriation . . . . .	\$800,000 00	
Revenue . . . . .	23 75	
Transferred from City Treasury . . . . .	9,500 00	
Transferred to City Treasury . . . . .	13 69	<u>\$809,510 06</u>
<sup>4</sup> Appropriation . . . . .	\$850,000 00	
Revenue . . . . .	13,565 09	
Transferred to Ferry Division . . . . .	20,023 32	
Transferred to Lamp Division . . . . .	9,500 00	
Transferred to City Treasury . . . . .	60 34	<u>\$833,981 43</u>
<sup>5</sup> Appropriation . . . . .	\$750,000 00	
Revenue . . . . .	329 00	
Transferred to Street Cleaning and Watering Division . . . . .	3,905 31	
Transferred to Ferry Division . . . . .	1,222 79	<u>\$745,200 90</u>
<sup>6</sup> Appropriation . . . . .	\$350,000 00	
Revenue . . . . .	2,142 14	
Transferred to Ferry Division . . . . .	979 73	<u>\$351,162 41</u>
<sup>7</sup> Appropriation . . . . .	\$570,000 00	
Revenue . . . . .	50 50	
Transferred from City Treasury . . . . .	3,905 31	<u>\$573,955 81</u>

\* For detail of distribution see foot of table.

Comparative Table Showing Cost of Maintenance of the Street Department since 1899.

DIVISION.	1899-1900.	1900-1901.	1901-1902.	1902-1903.	1903-1904.	1904-1905.	1905-1906.	1906-1907.	1907-1908.	1908-1909.
Central office.....	\$18,799 41	\$19,994 66	\$24,999 83	\$20,386 04	\$21,092 06	\$20,853 21	\$21,902 91	\$188,235 55	\$199,342 12	\$180,273 01
Bridge....	120,408 72	138,580 56	170,866 18	164,082 13	171,789 52	185,269 84	184,564 54			
Boston and Cambridge Bridges.....	15,998 18	17,353 27	18,994 97	16,400 04	16,715 12	16,263 90	20,878 84	11,609 64	11,230 57	18,524 29
Ferry.....	211,822 87	236,999 91	248,754 06	227,688 29	254,535 23	258,126 20	273,995 90	265,463 83	294,357 82	249,068 39
Lamp.....	705,482 68	753,562 34	837,831 07	780,236 39	785,946 38	808,604 99	874,636 88	860,246 89	831,113 67	775,838 06
Paving.....	154,625 18	29,138 38	93,518 45	121,899 66	114,395 94	264,840 43	187,115 89	77,023 96	144,117 96	58,143 37
Removal of snow.....	567,107 81	609,664 67	623,000 50	675,319 63	654,975 87	706,529 89	703,382 08	767,859 76	790,243 78	745,200 90
Sanitary.....	347,133 64	345,669 05	345,669 05	301,743 69	288,679 26	324,360 72	381,687 78	374,075 92	402,389 90	351,162 41
Sewer.....	322,951 15	339,747 23	356,445 72	392,802 09	403,626 11	434,172 62	448,837 79	465,005 94	501,688 67	419,275 91
Street Cleaning.....	174,625 97	174,742 45	164,259 36	160,147 25	164,104 74	165,071 08	189,347 50	153,423 07	152,235 45	154,679 90
Totals.....	\$2,638,905 61	\$2,681,843 71	\$2,883,739 19	\$2,860,705 22	\$2,875,850 23	\$3,184,092 88	\$3,236,350 11	\$3,989,748 57	\$4,166,736 87	\$3,761,676 30

Hired Team Contracts.

DISTRICT.	Awarded to.	Dated.	Single, Per Day.	Double, Per Day.	Extra, Men, Per Day.	From.	To.	Paving Division.	Sewer Division.	Street Cleaning Division.	Total.
No. 1. South Boston*	David D. McDermott.	July 28, 1908	\$3 20	\$5 35	\$2 15	Aug. 1, 1908	Feb. 1, 1909	\$936 48	\$1,064 66	\$4 80	\$2,005 94
No. 2. East Boston*	J. P. O'Riordan.	July 28, 1908	3 25	5 50	2 25	Aug. 1, 1908	Feb. 1, 1909	1,320 62	340 50	nothing	1,661 12
No. 3. Charlestown*	J. P. O'Riordan.	July 28, 1908	3 25	5 50	2 25	Aug. 1, 1908	Feb. 1, 1909	93 50	nothing	2,605 52	2,699 02
No. 4. Brighton*	Joseph McGreevey.	Aug. 4, 1908	3 00	4 90	2 00	Aug. 10, 1908	Feb. 1, 1909	4,181 96	208 55	nothing	4,390 51
No. 5. West Roxbury*	James E. Noble.	July 22, 1908	3 50	5 00	2 25	Aug. 1, 1908	Feb. 1, 1909	4,042 25	2,070 75	nothing	6,113 00
Nos. 6-12. Dorchester†	John T. Keogh & Bro.	July 30, 1908	3 25	5 00	2 00	Aug. 1, 1908	Feb. 1, 1909	3,515 88	1,433 00	nothing	4,948 88
No. 7. Roxbury†	Mrs. Mary Doyle.	June 19, 1908	3 15	4 48	2 00	July 1, 1908	Feb. 1, 1909	1,988 62	336 84	1,975 58	4,301 04
No. 8. South End†	John W. Collins.	Aug. 12, 1908	3 15	4 50	2 00	Aug. 12, 1908	Feb. 1, 1909	3,086 10	888 88	4,807 92	7,982 40
No. 9. Back Bay*	John A. Janse.	July 22, 1908	3 00	4 90	2 00	Aug. 1, 1908	Feb. 1, 1909	3,732 50	644 90	792 95	5,170 35
No. 10. North and West Ends §	Bernard E. Grant.	July 22, 1908	3 00	4 85	2 00	Aug. 1, 1908	Feb. 1, 1909	1,522 63	445 76	1,094 95	3,063 34

\* Advertised and awarded to lowest bidder.  
 † Advertised and awarded to second lowest bidder on doubles and third lowest bidder on singles.  
 ‡ Advertised and awarded to lowest bidder on doubles and fifth lowest bidder on singles.  
 § Advertised and awarded to lowest bidder on singles and second lowest bidder on doubles.  
 ¶ Previous to award of above, teaming contract prices were: Singles, \$3.50 per day; doubles, \$6 per day; extra men, \$2.25 per day.

The following tables show the snowfall and rainfall since 1903:

### Snowfall (inches).

MONTH.	1903-04.	1904-05.	1905-06.	1906-07.	1907-08.	1908-09.
November.....	2.2	.....	.....	1.1	.....	.....
December.....	10.6	12.0	3.5	15.5	7.0	3.5
January.....	35.7	21.3	6.1	16.1	4.3	11.2
February.....	16.5	8.0	6.1	25.5	9.3	2.3
March.....	8.9	3.6	21.9	6.6	4.8	3.1
April.....	1.4	.....	.....	.....	0.8	.....
Totals.....	75.3	44.9	37.6	64.8	26.2	20.1

### Rainfall (inches).

	1903.	1904.	1905.	1906.	1907.	1908.
January.....	3.43	4.80	4.09	2.96	2.54	2.47
February.....	3.90	2.49	1.59	2.66	1.88	2.96
March.....	5.95	2.43	2.25	5.45	1.66	2.97
April.....	4.43	9.14	2.14	2.15	3.31	1.70
May.....	0.32	3.38	1.47	4.91	3.12	3.78
June.....	7.19	2.06	5.23	2.57	2.56	1.08
July.....	2.99	1.23	1.00	5.38	1.09	3.17
August.....	3.33	2.19	3.39	1.58	1.10	4.35
September.....	2.43	5.57	5.10	2.64	7.43	0.68
October.....	3.95	2.13	0.82	3.88	2.54	3.70
November.....	1.48	1.70	1.77	2.55	6.02	0.74
December.....	2.57	2.52	3.23	3.96	4.31	2.47
Totals.....	41.97	39.64	32.08	40.60	37.56	30.07

In this rainfall is included the precipitation during the winter months, which equals one-tenth of an inch to one inch of snowfall.

### Nova Scotia Coal.

*Importations of Coal from Nova Scotia at the Port During the Year Ending January 31, 1909.*

MONTHS.	Tons.	Value.
February, 1908.....	57,300	\$111,735
March.....	44,600	86,972
April.....	33,000	64,350
May.....	15,100	29,543
June.....	33,300	64,935
July.....	23,600	46,020
August.....	26,750	52,162
September.....	21,550	42,023
October.....	22,500	43,877
November.....	31,950	62,304
December.....	26,200	54,091
January, 1909.....	26,200	51,092
Total.....	362,050	\$709,104



The Following Table Shows the Area of Pavement in Square Yards by Districts.

DISTRICTS.	Asphalt.	Granite Block.	Wooden Block.	Plank on Bridges.	Brick.	Cobble.	Bitulithic.	Macadam.	Gravel.	Not Graded.	Totals.
Year 1907, report.....	332,024	2,158,673	44,073	43,887	4,070	2,212	115,075	6,348,389	480,917	189,031	9,715,351
<i>February 1, 1909.</i>											
City Proper.....	246,434	950,082	44,805	15,943	3,863	1,315	71,336	609,551	1,449	.....	1,944,778
Charlestown.....	5,284	260,040	.....	5,473	.....	.....	.....	171,313	275	.....	442,385
East Boston.....	1,925	135,534	.....	2,763	251	897	620	450,881	16,357	503	609,731
South Boston.....	25,021	396,561	.....	8,579	.....	.....	17,784	365,184	18,672	106,082	937,883
Roxbury.....	52,988	281,876	4,140	1,417	.....	.....	25,374	1,137,238	43,325	16,616	1,562,974
West Roxbury.....	.....	14,186	.....	2,061	.....	.....	.....	1,304,683	71,951	23,828	1,416,709
Dorchester.....	.....	129,664	850	4,659	493	.....	.....	1,632,537	187,554	20,360	1,976,117
Brighton.....	130	.....	.....	4,094	.....	.....	.....	734,859	140,536	4,815	884,484
Totals.....	1,331,782	2,2167,943	49,795	44,989	4,607	2,212	115,114	3 6,406,246	480,169	172,204	9,775,061

Total area of pavements on public streets, 9,775,061 square yards.

NOTE.—In the above table the city is subdivided substantially on the boundary lines between the districts as they existed when annexed to Boston. Territory annexed from Brookline is included in city proper.

1. Of this amount 715 square yards equal asphalt blocks.
2. Of this amount 471,716 square yards equal granite block paving on concrete base.
3. Of this amount 1,801 square yards equal Hassam pavement, and 946 square yards equal Blome granitoid concrete blocked pavement.

24,341 square yards public alleys laid out under chapter 298 of the Acts of 1898 included in this table.

286,743 square yards public streets in charge of Park Department included in this table.

In addition to this table there are 4,395 square yards accepted foot passageways.

The following changes in pavements were made during the year:

- 0.01 mile or 41 square yards asphalt changed to wood block.
- 0.01 mile or 187 square yards granite block changed to asphalt.
- 0.31 mile or 5,181 square yards granite block changed to wood block.
- 0.00 mile or 40 square yards granite block changed to brick.
- 0.02 mile or 174 square yards granite block changed to macadam.
- 0.01 mile or 500 square yards plank on bridge changed to wood block.
- 0.01 mile or 216 square yards plank on bridge changed to brick.
- 0.02 mile or 298 square yards plank on bridge changed to macadam.
- 0.42 mile or 7,076 square yards macadam changed to granite block.
- 0.03 mile or 448 square yards macadam changed to not graded.
- 2.89 miles or 46,724 square yards gravel changed to macadam.
- 0.10 mile or 4,562 square yards not graded changed to granite block.
- 0.05 mile or 1,766 square yards not graded changed to plank on bridge.
- 0.04 mile or 2,308 square yards not graded changed to macadam.

Streets laid out or discontinued by the Street Commissioners during the year show:

- Plank on bridges increased 0.01 mile or 99 square yards.
- Macadam increased 0.17 mile or 2,435 square yards.
- Gravel increased 2.58 miles or 41,961 square yards.
- Not graded increased 0.05 miles or 1,687 square yards.

Streets laid out and constructed by Massachusetts Highway Commission during the year show:

- Washington street, Lagrange street to Dedham line:
- Macadam increased 16,194 square yards.
- Not graded decreased 8,306 square yards.

Corrections on account of revision and other causes show:

- Asphalt decreased 0.01 mile or 388 square yards.
- Granite block decreased 0.05 mile and increased 3,214 square yards.
- Plank on bridges increased 0.01 mile or 251 square yards.
- Brick increased 0.00 mile or 281 square yards.
- Bitulithic increased 0.00 mile or 39 square yards.
- Macadam decreased 0.09 mile or 2,752 square yards.
- Gravel increased 0.01 mile or 4,015 square yards.
- Not graded increased 0.00 mile or 980 square yards.

**Length of Pavements.**  
*The Following Table Shows Length in Miles and Character of Pavement on Accepted Streets February 1, 1909.*

Districts.	Asphalt.	Granite Block.	Wooden Block.	Plank on Bridges.	Brick.	Cobble.	Bitulithic.	Macadam.	Gravel.	Not Graded.	Totals.
Year 1907, report.....	21.69	96.50	1.77	2.07	0.38	0.29	6.18	346.02	31.30	5.40	511.60
February 1, 1909.											
City Proper.....	16.47	42.39	1.88	0.67	0.35	0.15	3.59	28.12	0.11	.....	93.73
Charlestown.....	0.33	11.32	.....	0.23	.....	.....	.....	11.61	0.02	.....	23.51
East Boston.....	0.11	6.29	.....	0.19	.....	0.14	0.03	21.23	0.79	0.03	28.81
South Boston.....	1.99	17.73	.....	0.38	.....	.....	1.04	19.87	0.90	3.11	45.02
Roxbury.....	2.78	12.16	0.19	0.05	.....	.....	1.52	65.50	3.08	0.52	85.80
West Roxbury.....	.....	0.64	.....	0.10	.....	.....	.....	77.38	4.78	0.84	83.74
Dorchester.....	.....	6.10	0.03	0.22	0.04	.....	.....	93.10	11.66	0.64	111.79
Brighton.....	.....	.....	.....	0.26	.....	.....	.....	31.81	9.66	0.15	41.88
Total.....	*21.68	†96.63	2.10	2.10	0.39	0.29	6.18	‡348.62	31.00	5.29	514.28

TOTAL LENGTH OF PAVEMENTS ON PUBLIC STREETS, 514.28 MILES.

NOTE.— In the above table the city is subdivided substantially on the boundary lines between the districts as they existed when annexed to Boston. Territory annexed from Brookline is included in city proper.

\* Of this amount 0.06 mile equals asphalt blocks.

† Of this amount 17.07 miles equals granite block paving on concrete base.

‡ Of this amount 0.12 mile equals Hassam pavement, and 0.06 mile equals Blome granitoid concrete blocked pavement.

4.71 miles public alleys, laid out under chapter 298 of the Acts of 1898, included in this table.

6.80 miles public streets in charge of Park Department included in this table.

In addition to this table there are 0.85 mile accepted foot passageways.

Public streets laid out by the Street Commissioners during the year show pavements increased 2.84 miles or 46,568 square yards; public streets discontinued show pavements decreased 0.03 mile or 386 square yards.

Corrections to previous measurements on account of revision and other causes show pavements decreased 0.13 mile or increased 5,640 square yards.

Total net increase — 2.68 miles or 59,710 square yards pavements on public streets.

The rate of increase, from year to year, is shown in the following table:

	Miles.	Miles.	Miles.		
1859.....	111.50	1884.....	374.10	1897.....	459.12
1871.....	201.32	1885.....	379.60	1898.....	471.19
1872.....	207.40	1886.....	383.55	1899.....	479.47
1873.....	209.24	1887.....	390.30	1900.....	489.55
1874.....	313.90	1888.....	392.72	1901.....	491.85
1875.....	318.58	1889.....	397.84	1902.....	496.90
1876.....	327.50	1890.....	404.60	1903.....	499.85
1877.....	333.20	1891.....	409.60	1904.....	500.39
1878.....	340.39	1892.....	434.59	1905.....	502.20
1879.....	345.19	1893.....	443.34	1906.....	502.80
1880.....	350.54	1894.....	447.65	1907.....	510.04
1881.....	355.50	1895.....	452.12	1908.....	511.60
1882.....	359.85	1896.....	456.11	1909.....	<b>514.28</b>
1883.....	367.99				

Respectfully submitted,

GUY C. EMERSON,

*Superintendent of Streets.*

PART II.

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APPENDICES.



## APPENDIX A.

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### REPORT OF THE DEPUTY SUPERINTENDENT OF BRIDGE DIVISION.

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BOSTON, MASS., February 1, 1909.

MR. GUY C. EMERSON,

*Superintendent of Streets:*

DEAR SIR, — I respectfully submit herewith the annual report of the Bridge Division for the fiscal year ending January 31, 1909.

There are in the City of Boston 163 bridges, not including culverts. Seven of these, namely, Brookline street, Cambridge, Cambridge street, Harvard, North Harvard street, Prison Point, and Western avenue to Cambridge, all connecting Boston and Cambridge, are in charge of two commissioners, one of whom is appointed by the Mayor of the City of Boston and the other by the Mayor of the City of Cambridge. The Charles River dam, on the site of the old Craigie Bridge, is in charge of the Charles River Basin Commission. One hundred and twenty-three bridges are supported wholly or in part by the City of Boston, twenty-seven of these being tide water bridges provided with a draw. Forty bridges are supported wholly by railroad corporations.

There are fourteen important drawbridges maintained by the City of Boston, namely, Broadway, Chelsea (south), Congress street, L street, and Warren, operated by steam, Atlantic avenue, Charlestown, Chelsea (north), Dorchester avenue, Dover street, Malden, Meridian street, and Summer street, operated by electricity; and Northern avenue, operated by compressed air, the compressors run by electricity.

Hearings have been held by the United States engineers regarding the removal of Mt. Washington Avenue Bridge, and it is anticipated that the United States authorities will require the removal of the structure of the old bridge in the near future.

The Chelsea Street Bridge was destroyed in the Chelsea fire of April 12, 1908. A special appropriation has been provided, and a new bridge is now being built, under the supervision of the Engineering Department.

The Northern Avenue Bridge was opened to travel October 26, 1908, and the maintenance of this bridge will entail an expense of about \$15,000 during the coming year.

The Congress Street Bridge has had extensive repairs both to the approaches and to the draw; and the machinery operating the draw has been overhauled and put in good order. The bridge is now in good condition, with the exception of the draw pier and fender guard.

The Massachusetts Avenue Bridge over the Boston & Albany Railroad has been rebuilt during the past year, and the surface of the Everett Street Bridge, Brighton, has been renewed.

Four hundred feet of the southerly end of the Cottage Street Footbridge, East Boston, has been removed, on account of the progress of the filling in of the flats on that end of the bridge.

The sluiceway on the westerly side of the railroad bridge on Southampton street has been filled in solid. The easterly sluiceway is in very bad condition, and the bridge and bulkheads should be rebuilt.

The elimination of grade crossings in East Boston has added the Sumner Street Bridge and the Webster Street Footbridge (both over the Boston & Albany) to the bridges in charge of this division of which Boston maintains the wearing surface.

The progress of the work on the Stony brook improvement has done away with the Linden Park street, Williams street, Keyes street, and Elmwood street bridges, which have been arched over, and the street built over them.

Many of the bridges are in very bad condition, and must have considerable attention during the coming year in order that they may be kept passable. On the Meridian Street Bridge, the roadway planking, water ways and pier are all in a very bad condition, and should be renewed. A new draw pier and draw landings should be built. As the repairs needed on this bridge are very extensive, a special appropriation should be provided for the purpose.

The Chelsea North Bridge will have to have special attention during the coming year; the sidewalk on the main bridge should be renewed, and also the sidewalk and roadway planking on the draw. The draw should have new machinery; the sides of the water ways and the fender guards should be removed; and the entire bridge should be painted. At least \$5,000 will be required to put this bridge in any fair kind of condition.



The entire Charlestown Bridge, together with the draw-tender's house, should be painted, which will mean an expenditure of about \$8,500.

The Huntington Avenue Bridge has been considered unsafe for heavy traffic for some time past. A special appropriation has been provided for this work, and the bridge will probably be rebuilt during the coming year.

There is a bill in the Legislature providing for the construction of a new bridge at Neponset. The draw now in use is too heavy to operate by hand, and the bridge is so old that it would not be economy to install operating machinery.

The North Beacon Street Bridge is in bad condition, and should be replaced by a drawless bridge.

Respectfully submitted,

THOMAS H. SEXTON,

*Deputy Superintendent.*

## STATEMENT OF EXPENDITURES.

## ADMINISTRATION.

## Office expenses:

Salaries, superintendent and office force . . . . .	\$5,504 72
Salaries, supervisors . . . . .	2,307 79
Telephones . . . . .	336 04
Printing, stationery and postage . . . . .	908 70
Furniture and furnishings . . . . .	45 74
Advertising . . . . .	25 80
Traveling expenses . . . . .	53 10
Medical inspector . . . . .	9 00

Total, administration . . . . .	<u>\$9,190 89</u>
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## MAINTENANCE EXPENSES.

Administration . . . . .	\$9,190 89
On tide-water bridges . . . . .	141,698 56
On inland bridges . . . . .	14,999 77
* North Yard and stable . . . . .	1,686 18
South Yard and stable . . . . .	12,697 61

Total, Boston yards and bridges, . . . . .	\$180,273 01
Boston and Cambridge bridges . . . . .	18,524 29

Total, maintenance . . . . .	<u>\$198,797 30</u>
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## FINANCIAL STATEMENT.

Appropriation, 1908-09 . . . . .	\$200,000 00
Received from sale of old material . . . . .	595 00

Total, appropriation and revenue . . . . .	<u>\$200,595 00</u>
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Expended February 1, 1908, to January 31, 1909, . . . . .	\$198,797 30
Balance . . . . .	1,797 70

	<u>\$200,595 00</u>
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\* Combined with South Yard April 25, 1909.

## Special Appropriations in Charge of the Bridge Division.

NAME OF APPROPRIATION.	Appropriation and Balance.	Expended February 1, 1908, to January 31, 1909.
Chelsea Bridge, South Draw, Reconstruction of..	\$656 75	\$656 75
Meridian Street Bridge, Improvement of.....	2,012 08	2,012 08
	<u>\$2,668 83</u>	<u>\$2,668 83</u>

Amount expended and charged to maintenance appropriation . . . . . \$198,797 30  
 Amount expended and charged to specials . . . . . 2,668 83

Grand total of expenditures from February 1, 1908, to January 31, 1909 . . . . . \$201,466 13

## INCOME.

The total amount received by the City Collector on account of the Bridge Division during the fiscal year was \$632.95, which includes an item of \$1.50 on account of the Boston and Cambridge bridges. The items are as follows:

For sale of old material . . . . . \$597 95\*  
 Rent . . . . . 35 00

\$632 95

\* Includes \$1.50 on account of Boston and Cambridge bridges.

## CONTRACTS.

The following contracts were made by this division during the year:

DATE.	Contract.	Awarded to.	Progress.	Estimate.	Extras.	Total Paid.
*June 24..	Driving piles North Beacon Street Bridge.	W. H. Ellis..	Finished in 1908.	\$262 23	\$24 43	\$287 23
†July 2..	Planking Everett Street Bridge, Brighton.	Lawler Bros..	Finished, July 25, '08	\$432 00	24 28	474 66
‡Aug. 26..	Rewiring power room, Charlestown Bridge.	Lord Electric Company.	Finished in 1908.	40 00	.....	40 00

\* Not advertised, bids invited; awarded to lower of two bidders furnishing new piles.

† Not advertised, bids invited; awarded to lowest of six bidders.

‡ Not advertised, bids invited; three bidders; awarded to one of two lowest who bid the same.

§ Approximate; paid \$450.28.

The following is a summary of the principal repairs made during the year:

#### TIDE-WATER BRIDGES.

*Broadway.*— Patched sheathing three times; sheathed once and put in new headers; repaired latch and center and put in new screw and oak headers; painted gates.

*Charlestown.*— Repaired waterways; repaired bulkhead four times; built locker; repaired headers twice; patched sheathing; sheathed once.

*Chelsea North.*— Patched sheathing seven times; repaired gate; repaired deck and motor; repaired float stage; patched sidewalk twice; put in new headers; patched deck twice; repaired latch; repaired draw and rests; put in new truck.

*Chelsea South.*— Patched sheathing 3 times; patched headers; sheathed downstream side; rebuilt sidewalk; sheathed entire once.

*Commercial Point.*— Sheathed both roadways.

*Congress Street.*— Sheathed twice; put in oak headers; patched sheathing twice; patched deck and paving; built fence; repaired headers once.

*Chelsea Street.*— Patched sheathing once.

*Dorchester Avenue.*— Repaired headers; patched sheathing three times; sheathed entire once; patched downstream side; repaired pier and house; bolts in gearing.

*Dover Street.*— Repaired sidewalk twice; repaired boat; painted gates; patched sheathing; sheathed downstream side.

*Granite.*— Patched sheathing.

*L Street.*— Patched sheathing twice; repaired and painted boat; repaired gate and rails; repaired sidewalk; sheathed upstream side.

*Malden.*— Repaired headers twice; patched deck twice; patched sheathing twice; sheathed once.

*Meridian Street.*— Repaired sidewalk; sheathed draw; repaired latches; put in new gate, fence and oak headers; put in two gate posts.

*Mt. Washington Avenue.*— Built fence; stripped draw.

*Neponset.*— Sheathed draw; repaired gate; painted boat; patched sheathing three times; repaired waterway; patched deck; rebuilt flaps; repaired iron strap.

*North Beacon Street.*— Repaired flap twice; repaired gear; patched sheathing three times; patched deck four times; sheathed twice.

*Northern Avenue.*— Built sand box.

*Summer Street.*— Sheathed both sides twice; patched deck twice; patched sheathing three times; patched oak headers.

*Warren.*— Patched deck three times; patched sheathing four times; repaired headers four times; repaired latch-block; sheathed upstream side; patched downstream side; sheathed downstream side twice; renewed deck once; fastened tracks

of draw; put in new gate post; sheathed entire once; repaired gate; put in new latches; planked pier.

*Western Avenue* (to Watertown).— Patched sidewalk; patched deck twice; patched sheathing twice.

*Winthrop*.— Patched deck four times; patched sheathing four times.

#### INLAND BRIDGES.

*Albany Street* (B. & A.).— Patched sheathing; sheathed; painted iron fence.

*Allston* (B. & A.).— Patched sheathing twice.

*Ashland Street Railroad*.— Sheathed.

*Ashland Street* (*Stony Brook*).— Decked and sheathed.

*Athens Street* (*Plymouth Division*).— Repaired fence.

*Beacon Street* (B. & A.).— Painted iron beams; rebuilt sidewalk; sheathed uptown side; repaired wheel guard; repaired sidewalk.

*Bennington Street* (B., R. B. & L.).— Sheathed downtown side.

*Berkeley Street* (B. & A.).— Patched deck twice; patched sheathing twice; sheathed.

*Berwick Park* (*Footbridge*).— Cleaned; painted twice; repaired steps; new top walk.

*Boston Street* (*Plymouth Division*).— Patched sheathing; repaired sidewalk.

*Broadway* (B. & A.).— Sheathed downtown side twice; painted ironwork; painted fence; patched sheathing five times.

*Brookline Avenue* (B. & A.).— Sheathed.

*Brooks Street*.— Painted steps.

*Byron Street* (B., R. B. & L.).— Built sidewalk.

*Canterbury Street* (*Stony Brook*).— Decked and sheathed.

*Central Avenue*.— Patched sheathing three times; patched deck twice.

*Columbus Avenue*.— Patched sheathing once; sheathed once; painted ironwork.

*Cottage Street* (*Footbridge*).— Moved house.

*Dartmouth Street* (B. & A.).— Patched sheathing.

*Dorchester Avenue* (*Railroad*).— Repaired sidewalk.

*Everett Street* (B. & A.).— Patched sheathing; repaired fence.

*Ferdinand Street*.— Patched sheathing; repaired fence; sheathed; rebuilt sidewalk; cleaned and painted iron girders.

*Florence Street* (*Stony Brook*).— Patched deck twice; patched sheathing twice; rebuilt.

*Gainsboro Street* (*Footbridge*).— Painted ironwork.

*Harvard Street* (*Midland Division*).— Sheathed north roadway.

*Irrington Street* (*Footbridge*).— Built fences; painted.

*Linden Park Street* (*Stony Brook*).— Patched deck; patched sheathing.

*Massachusetts Avenue* (B. & A.)— Patched deck three times; patched sheathing four times; rebuilt.

*Massachusetts Avenue* (B. & P.).— Sheathed; painted ironwork; repaired sidewalk.

*Milton*.— Repaired sidewalk.

*Norfolk Street (North)*.— Sheathed.

*Norfolk Street (South)*.— Repaired sidewalk.

*Perkins Street (Footbridge)*.— Painted fence; painted stairs; built new steps.

*Rutland Square (Footbridge)*.— Cleaned and painted.

*Southampton Street (E.)*.— Patched deck twice; patched sheathing twice; braced bulkhead.

*Southampton Street (Railroad)*.— Patched sheathing three times; patched deck twice; sheathed.

*Summer Street (over A Street)*.— Painted.

*Summer Street (over B Street)*.— Painted.

*Summer Street (over C Street)*.— Painted.

*West Fourth Street*.— Patched sheathing five times; sheathed downtown side; repaired bulkhead.

*West Newton Street*.— Sheathed.

*South Stable*.— Built lockers.

## Expenditures on Tide-water Bridges from February 1, 1908, to January 31, 1909.

BRIDGE	MAINTENANCE.		REPAIRS.			Totals.
	Salaries of Drawtenders.	Miscellaneous: Light and Power, Fuel, Supplies, etc.	Labor.	Lumber.	Ironwork and General Repairing.	
Atlantic avenue.....	\$8,532 08	\$172 13	\$9 25		\$380 67	\$9,094 13
Broadway.....	8,571 32	338 54	269 71	\$366 21	691 15	10,236 93
Charlestown.....	11,094 06	867 48	1,489 26	722 43	298 19	14,471 42
Chelsea North.....	8,322 79	209 19	548 14	203 37	820 37	10,103 86
Chelsea South.....	8,189 34	485 77	172 51	183 95	484 98	9,516 55
Chelsea street.....	189 75		682 78			872 53
Commercial Point.....	50 00		22 75	78 90	64	152 29
Congress street.....	7,136 15	543 80	744 47	970 63	434 19	9,829 24
Dorchester avenue.....	8,101 44	155 45	404 26	238 70	100 65	9,000 50
Dover street.....	8,169 39	129 56	179 36	418 07	207 34	9,103 72
Granite.....	243 80	3 85	37 75	27 69	36 12	349 21
L street.....	7,768 68	459 38	304 38	244 78	909 08	9,686 30
Malden.....	7,976 68	154 21	105 13	171 19	140 45	8,547 66
Meridian street.....	8,033 64	189 46	294 01	138 36	947 87	9,603 34
Mt. Washington avenue.....		120 00	251 76		6 00	377 76
Neponset.....	406 51	50	245 12	107 83	216 47	976 43
North Beacon street.....	203 25		139 00	153 89	328 03	824 17
Northern avenue.....	2,345 62	394 28	3 00			2,742 90
Summer street.....	8,655 04	170 11	484 15	756 65	529 25	10,595 20
Warren.....	8,079 52	1,094 29	738 79	1,036 18	430 27	11,379 05
Western avenue to Water-town.....	203 26	2 75	196 90	68 80	21 93	493 64
Winthrop (care taker).....	100 00		177 23	418 73		695 96
Public landings.....			125 00	14 75	12 00	151 75
Sundry bridges.....		1,883 96		1,010 06		2,894 02
Totals.....	\$112,372 32	\$7,374 71	\$7,624 71	\$7,331 17	\$6,995 65	\$141,698 56

EXPENDITURES ON INLAND BRIDGES, FROM FEBRUARY 1, 1908,  
TO JANUARY 31, 1909.

Albany street . . . . .	\$324 34
Allston . . . . .	138 69
Ashland street (over Providence Division) . . . . .	115 84
Athens street . . . . .	9 75
Beacon street (over Boston & Albany Railroad) . . . . .	829 41
Beacon street (water way) . . . . .	3 72
Bennington street . . . . .	101 45
Berkeley street (over Boston & Albany Railroad) . . . . .	152 38
Berwick park (footbridge) . . . . .	295 82
Blue Hill avenue . . . . .	4 50
Bolton street . . . . .	47 07
Boston street . . . . .	17 38
Boylston street (over Boston & Albany Railroad) . . . . .	535 49
Broadway (over Boston & Albany Railroad) . . . . .	914 47
Brookline avenue . . . . .	322 90
Brooks street . . . . .	61 20
Byron street . . . . .	111 38
Cambridge street (over Boston & Maine Railroad) . . . . .	14 99
Central avenue . . . . .	294 19
Canterbury street . . . . .	248 71
Columbus avenue (over Boston & Albany Railroad), . . . . .	202 48
Cottage Farm . . . . .	3 00
Cottage street (footbridge) . . . . .	1,043 35
Dartmouth street (over Boston & Albany Railroad), . . . . .	41 78
Dorchester avenue (over Plymouth Division) . . . . .	134 42
Everett street (over Boston & Albany Railroad, Brighton) . . . . .	3,011 74
Ferdinand street . . . . .	546 50
Florence street . . . . .	207 67
Gainsborough street . . . . .	63 50
Gold street . . . . .	3 25
Harvard street (over Midland Division) . . . . .	68 54
Huntington avenue . . . . .	2 87
Hyde Park avenue . . . . .	12 85
Irvington street (footbridge) . . . . .	640 64
Leyden street . . . . .	34 50
Linden Park street . . . . .	146 50
Massachusetts avenue (over Boston & Albany Railroad) . . . . .	1,140 59
Massachusetts avenue (over Providence Division) . . . . .	32 63
Milton . . . . .	11 87
Norfolk street (north) . . . . .	221 38
Norfolk street (south) . . . . .	9 70
Perkins street (footbridge) . . . . .	103 54
Southampton street (east) . . . . .	568 43
<i>Carried forward</i> . . . . .	<u>\$12,795 41</u>



<i>Brought forward</i> . . . . .	\$12,795 41
Southampton street (over railroad) . . . . .	211 81
Summer street (over B street) . . . . .	34 50
West Fourth street (over N. Y., N. H. & H. R.R., Plymouth Division) . . . . .	958 60
West Newton street . . . . .	147 59
Removing snow and dirt, various inland bridges . . . . .	851 86
<b>Total expenditures on inland bridges. . . . .</b>	<b><u><u>\$14,999 77</u></u></b>

## NORTH AND SOUTH YARDS, MAINTENANCE.

## \*North Yard and stable:

Employees . . . . .	\$1,191 48
Repairs . . . . .	40 60
Gas . . . . .	24 39
Stable expenses . . . . .	429 71

Total, North Yard . . . . . \$1,686 18

## South Yard and stable:

Employees . . . . .	\$9,637 67
Repairs . . . . .	449 25
Fuel . . . . .	137 58
Electric light . . . . .	74 47
Stable expenses . . . . .	2,398 64

Total, South Yard . . . . . 12,697 61

Total, North and South Yards and stables . . . . . \$14,383 79

\* Combined with the South Yard April 25, 1909.

## Street Department, Bridge Division.

Traffic Account, September 11, 1908.

	CARS.			TEAMS.			FOOT PASSENGERS.		
	To Boston.	From Boston.	Total.	To Boston.	From Boston.	Total.	To Boston.	From Boston.	Total.
Atlantic avenue . . . . .				814	744	1,558	3,724	4,457	8,181
Broadway . . . . .	152	152	304	548	629	1,177	2,490	3,746	6,236
Charlestown . . . . .	752	747	1,499	2,019	2,538	4,607	4,458	4,914	9,372
Chelsea North . . . . .	525	498	1,023	842	888	1,730	1,102	1,138	2,240
Congress street . . . . .				3,952	3,410	7,362	3,086	2,426	5,512
Dorchester avenue . . . . .	742	744	1,486	1,216	1,462	2,672	1,564	1,480	3,044
Dover street . . . . .	316	321	637	591	605	1,196	2,663	3,310	5,973
L street . . . . .				600	598	1,198	1,316	1,421	2,737
Malden . . . . .	742	718	1,460	788	780	1,568	743	630	1,373
Meridian street . . . . .	150	144	294	634	623	1,257	1,229	1,244	2,473
Summer street . . . . .	78	78	156	1,225	1,187	2,412	8,751	7,115	15,866
Warren . . . . .	164	161	325	3,684	2,888	6,572	3,237	2,518	5,755

## LIST OF BOSTON BRIDGES.

## I.—BRIDGES WHOLLY MAINTAINED BY BOSTON.

[In the list those marked with an asterisk (\*) are over navigable waters, and are each provided with a draw.]

*In Charge of Bridge Division.*

- Allston, over Boston & Albany Railroad at Cambridge street, Brighton.
- Ashland street, over N. Y., N. H. & H. Railroad, Providence Division, West Roxbury.
- Athens street, over N. Y., N. H. & H. Railroad, Midland Division.
- \* Atlantic avenue, over Fort Point channel.
- Baker street, at Brook Farm, West Roxbury.
- Beacon street, over outlet to Back Bay Fens.
- Beacon street, over Boston & Albany Railroad.
- Bennington street, over Boston, Revere Beach & Lynn Railroad.
- Berkeley street, over Boston & Albany Railroad.
- Berwick park (footbridge), over N. Y., N. H. & H. Railroad, Providence Division.
- Blakemore street, over N. Y., N. H. & H. Railroad, Providence Division.
- Bolton street, over N. Y., N. H. & H. Railroad, Midland Division.
- Boylston street, over Boston & Albany Railroad.
- \* Broadway, over Fort Point channel.
- Broadway, over Boston & Albany Railroad.
- Brookline avenue, over Boston & Albany Railroad.
- Brooks Street Bridge, Brighton.
- Byron street, over Boston, Revere Beach & Lynn Railroad.
- Charlesgate, over Ipswich street.
- \* Charlestown, from Boston to Charlestown.
- \* Chelsea [South], over south channel, Mystic river.
- \* Chelsea street, from East Boston to Chelsea.
- Columbus avenue, over Boston & Albany Railroad.
- \* Commercial Point, or Tenean, Dorchester.
- \* Congress street, over Fort Point channel.
- Cottage Farm, over Boston & Albany Railroad, at Commonwealth avenue.
- Cottage street (footbridge), over flats, East Boston.
- Dartmouth street, over Boston & Albany Railroad.
- \* Dorchester avenue (formerly Federal street), over Fort Point channel.
- \* Dover street, over Fort Point channel.
- Ferdinand street, over Boston & Albany Railroad.
- Florence street, over Stony brook, West Roxbury.
- Gainsborough street (footbridge), over N. Y., N. H. & H. Railroad, Providence Division.

- Gold street (footbridge), over N. Y., N. H. & H. Railroad, Midland Division.
- Huntington avenue, over Boston & Albany Railroad.
- Hyde Park avenue, over Stony brook, West Roxbury.
- Ipswich street, over waterway.
- Irrington street (footbridge), over N. Y., N. H. & H. Railroad, Providence Division.
- \* L street, over reserved channel at junction of Summer and L streets.
- \* Malden, from Charlestown to Everett.
- Massachusetts avenue, over Boston & Albany Railroad.
- Massachusetts avenue, over N. Y., N. H. & H. Railroad, Providence Division.
- \* Meridian street, from East Boston to Chelsea.
- \* Northern avenue, over Fort Point channel.
- Shawmut avenue, over Boston & Albany and N. Y., N. H. & H. Railroad, Providence Division.
- Southampton street, east of N. Y., N. H. & H. Railroad, Midland Division.
- Summer street, over A street.
- Summer street, over B street.
- Summer street, over C street.
- \* Summer street, over Fort Point channel.
- \* Warren, from Boston to Charlestown.
- West Newton street, over N. Y., N. H. & H. Railroad, Providence Division.
- West Rutland square (footbridge), over N. Y., N. H. & H. Railroad, Providence Division.
- Winthrop, from Breed's Island to Winthrop.

*In Charge of Bridge Division and Park Department.*

- Columbia road, over N. Y., N. H. & H. Railroad, Plymouth Division.
- Columbia road, over Shoreham street.

*In Charge of Park Department.*

- Agassiz, in Fens.
- Arborway, in Arborway, over Stony brook.
- Audubon, in Riverway, over Boston & Albany Railroad.
- Bernier Street Footbridge, over Muddy river.
- Boylston, in Fens, over water way.
- Bridle path, in Riverway, over Muddy river.
- \* Castle Island, in Marine Park, South Boston to Castle Island.
- Charlesgate, in Fens, over Boston & Albany Railroad.
- Circuit drive, over Scarboro pond, in Franklin Park.
- Commonwealth avenue, in Fens, over water way.
- Ellicott Arch, in Franklin Park.
- Fens, in Fens.
- Forest Hills, in Franklin Park.

Leverett pond (foot), in Leverett Park.  
 Neptune, in Wood Island Park, over Boston, Revere Beach &  
 Lynn Railroad.  
 Scarboro pond (foot), in Franklin Park.  
 Wood Island (foot), in Wood Island Park.

*In Charge of Public Grounds Department.*

Public Garden (footbridge).

II.— BRIDGES OF WHICH BOSTON MAINTAINS THE PART WITHIN  
 ITS LIMITS.

*In Charge of Bridge Division.*

Central avenue, from Dorchester to Milton.  
 \* Chelsea [North], from Charlestown to Chelsea.  
 \* Granite, from Dorchester to Milton.  
 Milton, from Dorchester to Milton.  
 \* Neponset, from Dorchester to Quincy.  
 \* North Beacon street, from Brighton to Watertown.  
 Spring street, from West Roxbury to Dedham.  
 \* Western avenue, from Brighton to Watertown.

*In Charge of Park Department.*

Bellevue street, in the Riverway, over Muddy river.  
 Bernier Street Footbridge, over Muddy river.  
 Brookline avenue, in the Riverway, over Muddy river.  
 Huntington avenue, in the Riverway, over Muddy river.  
 Longwood avenue, in the Riverway, over Muddy river.

III.— BRIDGES OF WHICH BOSTON PAYS A PART OF THE COST  
 OF MAINTENANCE.

*In Charge of Bridge Division.*

Albany street, over Boston & Albany Railroad (over freight  
 tracks).  
 Ashmont street, junction Dorchester avenue and Talbot avenue,  
 over N. Y., N. H. & H. Railroad, Plymouth Division (75 feet  
 south of northerly end).  
 Harvard street, over N. Y., N. H. & H. Railroad, Midland  
 Division.  
 Norfolk street, over N. Y., N. H. & H. Railroad, Midland  
 Division, near Dorchester station.

*In Charge of Commissioners for Cambridge Bridges.*

Brookline street, from Brighton to Cambridge.  
 Cambridge, from Boston to Cambridge.  
 \* Cambridge street, from Brighton to Cambridge.  
 \* Harvard, from Boston to Cambridge.  
 \* North Harvard street, from Brighton to Cambridge.

\* Prison Point, from Charlestown to Cambridge.

\* Western avenue, from Brighton to Cambridge.

IV.— BRIDGES OF WHICH BOSTON MAINTAINS THE WEARING SURFACE.

*In Charge of Bridge Division.*

Bennington street, over the Boston & Albany Railroad.

Blue Hill avenue, over N. Y., N. H. & H. Railroad, Midland Division.

Boston street, over N. Y., N. H. & H. Railroad, Plymouth Division.

Brookline street, Brighton to Cambridge, portion over the Boston & Albany Railroad.

Cambridge street, over Boston & Maine Railroad.

Chelsea Bridge, over Boston & Maine Railroad.

Curtis street, over the Boston & Albany Railroad.

Dorchester avenue, over N. Y., N. H. & H. Railroad, Plymouth Division.

Everett street, over Boston & Albany Railroad, Brighton.

Maverick street, over Boston & Albany Railroad.

Norfolk street, over N. Y., N. H. & H. Railroad, Midland Division, near Mattapan station.

Oakland street, over N. Y., N. H. & H. Railroad, Midland Division, Mattapan.

Perkins street (footbridge), over Boston & Maine Railroad.

Porter street, over Boston & Albany Railroad.

Prescott street, over Boston & Albany Railroad.

Prison Point, Charlestown to Cambridge, portion over the Boston & Maine Railroad.

Saratoga street, over Boston & Albany Railroad.

Silver street, over N. Y., N. H. & H. Railroad, Midland Division.

Southampton street, over N. Y., N. H. & H. Railroad, Plymouth Division.

Summer street, over N. Y., N. H. & H. Railroad, Midland Division.

Sumner street, East Boston, over Boston & Albany Railroad.

Webster street, East Boston (footbridge), Boston & Albany Railroad.

West Fourth street, over N. Y., N. H. & H. Railroad, Plymouth Division.

V.— BRIDGE MAINTAINED BY CHARLES RIVER BASIN COMMISSION.

Craigie's, Boston to Cambridge.

VI.— BRIDGE MAINTAINED BY METROPOLITAN PARK COMMISSION.

Mattapan Bridge.

## VII.—BRIDGES MAINTAINED BY RAILROAD CORPORATIONS.

*1st.— Boston & Albany Railroad.*

Albany street (over passenger tracks).  
 Harrison avenue.  
 Market street, Brighton.  
 Tremont street.  
 Washington street.

*2d.— Boston & Maine and Boston & Albany Railroads.*

Main street.  
 Mystic avenue.

*3d.— Boston & Maine Railroad, Eastern Division.*

Wauwatosa avenue, East Boston.

*4th.— Boston, Revere Beach & Lynn Railroad.*

Everett street.

*5th.— New York, New Haven & Hartford Railroad, Midland Division.*

Dorchester avenue.  
 Morton street, Dorchester.  
 Washington street, Dorchester.  
 West Broadway.  
 West Fifth street.  
 West Fourth street.  
 West Second street.  
 West Sixth street.  
 West Third street.

*6th.— New York, New Haven & Hartford Railroad, Plymouth Division.*

Adams street.  
 Cedar Grove Cemetery.  
 Freeport street.  
 Medway street.  
 Savin Hill avenue.

*7th.— New York, New Haven & Hartford Railroad, Providence Division.*

Albany street. (New part.)  
 Baker street, West Roxbury.  
 Beech street, West Roxbury.  
 Bellevue street, West Roxbury.  
 Berkeley street. (New part.)  
 Broadway. (New part.)

Canterbury street, West Roxbury.  
 Castle square.  
 Centre and Mt. Vernon streets, West Roxbury.  
 Columbus avenue. (New part.)  
 Dartmouth street. (New part.)  
 Dudley avenue, West Roxbury.  
 Gardner street, West Roxbury.  
 Harrison avenue. (New part.)  
 Park street, West Roxbury.  
 Washington street. (New part.)

## RECAPITULATION OF BRIDGES.

I.	Number wholly maintained by Boston:	
	In charge of Bridge Division . . . . .	55
	In charge of Bridge and Park Departments . . . . .	2
	In charge of Park Department . . . . .	17
	In charge of Public Grounds Department . . . . .	1
		— 75
II.	Number of which Boston maintains the part within its limits:	
	In charge of Bridge Division . . . . .	8
	In charge of Park Department . . . . .	5
		— 13
III.	Number of which Boston pays a part of the cost of maintenance:	
	In charge of Bridge Division . . . . .	4
	In charge of Commissioners for Boston and Cambridge Bridges . . . . .	7
		— 11
IV.	Number of which Boston maintains the wearing surface . . . . .	23
V.	Number maintained by Charles River Basin Commission . . . . .	1
VI.	Number maintained by Metropolitan Park Commission . . . . .	1
VII.	Number maintained by railroad corporations:	
	1. Boston & Albany . . . . .	5
	2. Boston & Maine and Boston & Albany Railroads . . . . .	2
	3. Boston & Maine, Eastern Division . . . . .	1
	4. Boston, Revere Beach & Lynn . . . . .	1
	5. New York, New Haven & Hartford, Midland Division . . . . .	9
	6. New York, New Haven & Hartford, Plymouth Division . . . . .	5
	7. New York, New Haven & Hartford, Providence Division . . . . .	16
		— 39
	Total number . . . . .	163

## PUBLIC LANDING PLACE.

The following public landing place has been built by the city and is maintained and controlled by the Bridge Division:

*Jeffries Point, East Boston.*—Size, 20 x 50. Moored from Fitzpatrick's wharf; \$250 per year.

## CABLE HOUSES AND BOXES.

The following is a list of cable houses and boxes on bridges in charge of this division:

## New England Telephone and Telegraph Company:

- Chelsea [North] Bridge, 1 house.
- Chelsea [South] Bridge, 3 boxes.
- Dorchester Avenue Bridge, 3 houses and 2 boxes.
- Dover Street Bridge, 2 boxes.
- Malden Bridge, 2 houses and 2 boxes.
- Warren Bridge, 4 boxes.

## American Telephone and Telegraph Company:

- Mt. Washington Avenue Bridge, 2 boxes.
- Neponset Bridge, 1 box.

## American District Telegraph Company:

- L Street Bridge, 2 boxes.

## Postal Telegraph Cable Company:

- Chelsea [North] Bridge, 1 box.
- Congress Street Bridge, 2 houses.
- Granite Bridge, 2 boxes.

## Boston Electric Light Company:

- Congress Street Bridge, 2 boxes.

## Boston &amp; Northern Street Railway Company:

- Chelsea [North] Bridge, 7 boxes.
- Chelsea [South] Bridge, 6 boxes.

## Boston Elevated Railway Company:

- Cambridge Street Bridge, 1 house.
- Charlestown Bridge, 2 houses and 9 boxes.
- Dover Street Bridge, 2 houses.
- Dorchester Avenue Bridge, 1 house and 1 box.
- Malden Bridge, 2 houses and 1 box.
- Summer Street Bridge, 2 boxes.
- Warren Bridge, 2 houses.

## Edison Electric Illuminating Company:

- Charlestown Bridge, 2 houses.
- Chelsea [North] Bridge, 1 box.
- Chelsea [South] Bridge, 1 box.
- Dover Street Bridge, 3 houses.



## Automatic Fire Alarm Company:

Summer Street Bridge, 2 boxes.  
Warren Bridge, 1 box.

## Old Colony Street Railway Company:

Neponset Bridge, 4 boxes.

## Boston Fire Department:

Chelsea [North] Bridge, 1 box.  
Chelsea [South] Bridge, 1 box.  
Dover Street Bridge, 1 house, 1 box.  
Malden Bridge, 3 boxes.  
Warren Bridge, 2 boxes.

## LAND AND BUILDINGS IN CHARGE OF BRIDGE DIVISION.

*South Yard and Stable.*— 170 Broadway extension, South Boston — 5,516 feet of land on Broadway extension and Dorchester avenue, on which is a brick building containing an office, workshop and stable.

*Atlantic Avenue Bridge.*— Draw house and motor house.

*Broadway Bridge.*— Draw house and one storehouse.

*Charlestown Bridge.*— Draw house, electrical power room and six storehouses.

*Chelsea [North] Bridge.*— Draw house.

*Chelsea [South] Bridge.*— Draw house and engine house.

*Congress Street Bridge.*— Draw house, storehouse and two shelter houses.

*Cottage Street (footbridge).*— Watchman's house.

*Dover Street Bridge.*— Draw house and two shelter houses.

*Dorchester Avenue Bridge.*— Draw house, tool shed, two motor houses, one controller house.

*L Street Bridge.*— Draw house, engine house.

*Malden Bridge.*— Draw house.

*Meridian Street Bridge.*— Draw house.

*Mt. Washington Avenue Bridge.*— Tool house.

*Neponset Bridge.*— Tool house.

*Northern Avenue Bridge.*— Draw house, containing a power room and storage room for compressed air.

*Summer Street Bridge.*— Draw house, controller house, two shelter houses.

*Warren Bridge.*— Stable, draw house, containing an engine room and boiler room and a tool house.

*Western Avenue Bridge to Watertown.*— Tool house.

List of Small Bridges or Culverts having Wooden Tops, which are Repaired by Bridge Division.—Walls  
Repaired and Openings Cleaned by Sewer Department.

LOCATION.	Span, Feet.	Height of Opening, Feet.	Length, Feet.	Side Walls.	Covering.
Ashland and Canterbury streets, near Calvary Cemetery, West Roxbury.....	7.6	5.5	75	Stone....	Wood.
Beech street, near Anawan avenue, at Central Station, West Roxbury.....	4.0	4.0	50	Stone....	Wood.
Cass street, near Spring Street Station, West Roxbury.....	7.0	3.0	21	Stone....	Wood.
Cohasset street, Roslindale.....	14.0	7.5	60	Stone....	Wood.
Gardner street, near Cow Island, West Roxbury.....	5.0	5.5	33	Wood....	Wood.
Jamaica street, Jamaica Plain.....	10.0	4.0	39	Stone....	Wood.
Park street, west of Dorchester avenue, Dorchester.....	5.0	3.7	50	Stone....	Wood.
Park street, west of New York, New Haven & Hartford Railroad, Dorchester..	8.5	5.0	50	Stone....	Wood.
Spring street, near Spring Street Station, West Roxbury.....	2.7	2.7	63	Stone....	Wood.
Summer street, near Spring Street Station, West Roxbury.....	4.0	4.5	40	Stone....	Wood.
Williams street, at Story brook, West Roxbury.....	5.0	5.0	50	Wood....	Wood.
Woodman street, Jamaica Plain.....	6.3	4.0	65	Stone....	Wood.

Table Showing Width of Bridges, Kind of Roadways, Sidewalks, etc., on Tide-water Bridges, 1908.

NAME OF BRIDGE.	Width of Bridge.		ROADWAY.		SIDEWALKS.	
			Width.	Kind of Roadway.	Number.	Width.
Atlantic avenue.....	<i>Ft. In.</i> 58 0	<i>Ft. In.</i> 38 0	Paved.....	1	<i>Ft. In.</i> 9 6	Granolithic and asphalt.
Broadway.....	60 0	40 0	Plank.....	2	10 0	Coal-tar concrete.
Brookline street.....	60 0	25 0	".....	1	10 0	Plank.
Cambridge.....	105 0	29 0	Paved.....	2	10 0	Granolithic.
Cambridge street....	40 0	32 9	Plank.....	1	6 0	Plank.
Craigie's (temporary)	49 2	40 0	".....	1	8 0	"
Charlestown.....	100 0	127 9 122 0 127 9	".....	2	10 0	Asphalt.
Chelsea [North]....	49 0	40 0	".....	1	8 0	Coal-tar concrete and plank.
Chelsea [South]....	50 3	41 2	".....	1	8 0	Plank.
* Chelsea street.....	about	about				
Commercial Point...	34 0	27 0	".....			
Congress street.....	60 0	44 0	Paved.....	2	8 0	Coal-tar concrete.
Dorchester avenue...	69 0	49 0	".....	2	10 0	Asphalt.
Dover street (over water).	60 0	40 0	".....	2	10 0	"
Granite.....	30 2	24 4	Plank.....	1	5 0	Plank.
Harvard.....	69 4	51 0	".....	2	9 2	"
L street.....	60 0	44 0	Paved.....	2	8 0	Asphalt.
Malden.....	60 0 to 67 6	44 0	".....	2	8 0	Composition.
Meridian street.....	50 0	36 0	".....	2	7 0	Coal-tar concrete.
Neponset.....	30 0	23 10	Plank.....	1	5 5	Plank.
North Beacon street.	31 0	25 2	".....	1	5 0	"
North Harvard street	28 2	26 7	".....			
Northern avenue....	80 0	18 9 18 8 18 9	Paved.....	2	7 11	Asphalt.
Prison Point.....	50 0	36 0	Plank part. Paved part.	2	7 0	Coal-tar concrete.
Summer street.....	100 0	76 0	Paved.....	2	12 0	Asphalt.
Warren.....	80 0	60 0	".....	2	10 0	Coal-tar concrete.
Western avenue to Cambridge.	33 2	26 3	Plank.....	1	6 0	Plank.
Western avenue to Watertown.	33 0	24 2	".....	1	8 0	"
Winthrop.....	24 2	19 10	".....	1	3 7	"

\* Under construction.

Table Showing the Widths of Openings for Vessels in all Bridges  
 Provided with Draws in the City of Boston in January, 1909.

NAME OF BRIDGE.	Location.	Number of Openings.	Width.
Atlantic avenue.....	Over Fort Point channel.....	1	42 feet 6 inches.
Boston & Maine Railroad, Eastern Division.....	Boston to Charlestown.....	1	39 " 8 "
Boston & Maine Railroad, Eastern Division.....	Over Miller's river.....	1	35 " 10 "
Boston & Maine Railroad, Fitch- burg Division.....	Boston to Charlestown.....	1	36 " 7 "
Boston & Maine Railroad, Fitch- burg Division (for teaming freight).....	" ".....	1	36 " 7 "
Boston & Maine Railroad (freight), Southern Division.....	Boston to East Cambridge....	1	39 " 10 "
Boston & Maine Railroad (passen- ger), Southern Division.....	" ".....	1	39 " 8 "
Boston & Maine Railroad, Western Division.....	Boston to Charlestown.....	1	39 " 8 "
Boston & Maine Railroad, Western Division.....	Over Miller's river.....	1	36 " 0 "
Broadway.....	Over Fort Point channel.....	1	42 " 7 "
Cambridge street.....	Brighton to Cambridge.....	1	36 " 4 "
Charlestown (main channel).....	Boston to Charlestown.....	2	50 " 0 "
Charlestown (north channel).....	" ".....	49'	" 9 "
Chelsea (south channel).....	Charlestown to Chelsea.....	1	38 " 9 "
Chelsea (north channel).....	" ".....	1	60 " 0 "
Chelsea street (East Boston side)..	East Boston to Chelsea.....	1	36 " 0 "
Commercial Point (or Tenean)....	Dorchester.....	1	24 " 2 "
Congress street.....	Over Fort Point channel.....	1	50 " 0 "
Craigie's (temporary).....	Boston to East Cambridge....	1	36 " 0 "
Dorchester avenue.....	Over Fort Point channel.....	1	41 " 4 "
Dover street.....	" ".....	1	40 " 0 "
Grand Junction Railroad.....	Brighton to Cambridge.....	1	39 " 0 "
Grand Junction Railroad.....	East Boston to Chelsea.....	1	60 " 0 "
Granite.....	Dorchester to Milton.....	1	36 " 0 "
Harvard (Boston side).....	Boston to Cambridge.....	2	36 " 6 "
Harvard (Cambridge side).....	" ".....	36	" 10 "
L street.....	Over reserved channel, South Boston.....	1	39 " 8 "
Lock.....	Charles River dam.....	1	45 " 0 "
Malden.....	Charlestown to Everett.....	1	50 " 0 "

Table Showing Width of Openings, etc.—*Concluded.*

NAME OF BRIDGE.	Location.	Number of Openings.	Width.
Meridian street (East Boston side)	East Boston to Chelsea.....	2	59 feet 2 inches.
Meridian street (Chelsea side).....	“ “ .....		59 “ 0 “
Mt. Washington avenue (Boston side).....	Over Fort Point channel.....	2	42 “ 2 “
Mt. Washington avenue (South Boston side).....	“ “ .....		50 “ 0 “
Neponset.....	Dorchester to Quincy.....	2	36 “ 0 “
New York, New Haven & Hartford Railroad.....	Over Fort Point channel.....	1	41 “ 9 “
New York, New Haven & Hartford Railway, Y-connection.....	“ “ .....		42 “ 0 “
New York, New Haven & Hartford Railroad, Plymouth Division....	Dorchester to Quincy.....	1	51 “ 0 “
North Beacon street.....	Brighton to Watertown.....	1	30 “ 0 “
North Harvard street.....	Brighton to Cambridge.....	1	36 “ 0 “
Northern avenue.....	Over Fort Point channel.....	2	75 “ 0 “
Prison Point.....	Charlestown to Cambridge....	1	37 “ 6 “
Summer street.....	Over Fort Point channel.....	1	50 “ 0 “
Warren.....	Boston to Charlestown.....	1	36 “ 0 “
Western avenue.....	Brighton to Cambridge.....	1	36 “ 0 “
Western avenue.....	Brighton to Watertown.....	1	35 “ 10 “

### OPENING AND CLOSING HOURS FOR THE DRAWS ON THE BRIDGES.

With the exceptions given below, all draws in bridges of the City of Boston must be open for the passage of vessels on reasonable signal at all hours.

#### *Charlestown Bridge.*

The revised ordinances of 1906 provide that the drawtender “shall not allow any vessel to pass through the draw of the Charlestown bridge, so called, except such vessels as shall be ready to go through at the following times: 6.30 a. m., 9.30 a. m., 11 a. m., 12 m., 1.30 p. m., 3 p. m., 8.30 p. m., 11.30 p. m., and from 11.30 p. m. until 6 a. m.”

*Congress Street Bridge.*

The same ordinances provide, "nor shall any vessel be allowed to pass through the draw of Congress Street Bridge between the hours of 6 a. m., and 8.30 a. m., or between the hours of 4.30 p. m., and 6.30 p. m."

*Malden Bridge.*

By authority of the Secretary of War, dated November 4, 1901, the draw in this bridge shall be opened for the passage of vessels at all hours except between the hours of 6.30 to 8.30 a. m., and 5.30 to 7.30 p. m., during which hours it shall be opened only at 7.15 a. m. and 6.30 p. m. to permit the passage of waiting vessels in either direction, and at 7.20 p. m. to permit the passing of waiting vessels going upstream.

*Chelsea Bridge (North Draw).*

By authority of the Secretary of War dated April 12, 1906, the draw in this bridge shall be opened at all hours for the passage of vessels of 18 feet or greater draft; for vessels of less draft, on week days, the draw must be opened at all hours except between the hours of 6.30 to 8.30 a. m. and 5.30 to 7.30 p. m. during which period the draw shall be opened only at the following times, 7 a. m., 6 p. m. and 7 p. m. On Sundays the draw must be opened upon customary signal for all vessels, at all hours.

*Chelsea Bridge (South Draw).*

Under authority of same date, the same regulations are established for the south draw of Chelsea bridge as the North draw, except that vessels of 13 feet or greater draft may pass at all hours, and an additional opening is provided for waiting vessels at 7.30 a. m.

## DRAWTENDERS' REPORTS.

## Number of Vessels Passing Through the Drawbridges Controlled by the City of Boston February 1, 1908, to January 31, 1909, Inclusive.

	STEAMERS.			SAILING VESSELS.			TUGS.			ALL OTHERS.			TOTAL NUMBER VESSELS.			Total Num-ber of Car-goes.	Total Num-ber of Open-ings.
	By Day.	By Night.	Total.	By Day.	By Night.	Total.	By Day.	By Night.	Total.	By Day.	By Night.	Total.	By Day.	By Night.	Total.		
Atlantic avenue.....	78	31	109	674	74	748	3,490	466	3,956	1,383	116	1,499	5,625	687	6,312	1,159	3,044
Broadway.....	77	28	105	666	81	747	3,294	412	3,706	1,574	132	1,706	5,611	653	6,264	1,238	2,200
Charlestown.....				372	104	476	2,777	736	3,513	1,770	459	2,229	4,919	1,299	6,218	1,259	1,409
Chelsea, North.....	254	22	276	705	45	750	6,676	541	7,217	2,874	207	3,091	10,519	815	11,334	1,735	5,340
Chelsea, South.....	655	50	705	326	29	355	4,131	401	4,532	3,170	219	3,389	8,282	699	8,981	2,069	4,306
Chelsea street*.....							16		16	10		10	26		26	6	14
Congress street.....	164	38	202	777	88	865	5,471	585	6,056	1,880	141	2,021	8,292	852	9,144	1,394	3,713
Dorchester avenue.....	77	33	110	675	75	750	3,511	469	3,980	1,568	123	1,691	5,831	700	6,531	1,170	3,386
Dover street.....	75	21	96	635	74	709	2,974	296	3,270	1,183	89	1,272	4,867	480	5,347	1,036	2,421
Granite.....				12		12	210	2	212	78		78	300	2	302	46	170
L street.....				204	44	248	2,918	231	3,149	2,019	333	2,352	5,141	608	5,749	874	3,868
Malden.....				63	10	73	1,215	81	1,296	745	57	802	2,023	148	2,171	372	1,080
Meridian street.....	1,160	160	1,320	429	24	453	10,126	1,794	11,920	4,066	759	4,825	15,781	2,737	18,518	3,237	10,042
Neponset.....				26		26	370		370	133		133	529		529	74	304
North Beacon street.....							73	37	110	203	116	319	276	153	429	58	112
Northern avenue†.....	37	22	59	192	33	225	2,073	485	2,558	961	256	1,217	3,263	796	4,059	604	1,768
Summer street.....	158	38	196	777	87	864	5,463	584	6,047	1,876	141	2,017	8,274	850	9,124	1,397	4,660
Warren.....	10		10	377	97	474	2,648	661	3,309	1,609	397	2,006	4,644	1,155	5,799	1,079	3,286
Western avenue to Water-town.....	2,745	443	3,188	6,910	865	7,775	57,533	7,781	65,314	27,190	3,545	30,735	94,378	12,634	107,012	18,838	51,170
Totals.....																	

\* February, 1908, only. † November, December and January only.

## APPENDIX B.

REPORT OF THE DEPUTY SUPERINTENDENT OF  
FERRY DIVISION.

BOSTON, February 1, 1909.

MR. GUY C. EMERSON,  
*Superintendent of Streets:*

DEAR SIR,—I respectfully submit report of income, expenditures and operation of the Ferry Division for the financial year ending January 31, 1909. The expenditures for this year show a decrease of \$45,289.43 over last year, despite the additional burden imposed by the one day off in seven law, which necessitates the employment of an extra crew.

This amount includes the payment of bills amounting to \$3,200 of the previous administration. This has been accomplished by reducing the working force without decreasing the efficiency of the service; also, by having our own mechanical force do the repair work much needed repairs, out of the ordinary wear and tear, have been accomplished during the year.

My recommendation for the coming year is that the south pier, North Ferry, Boston side, be rebuilt, also that the repair dock at South Ferry, East Boston side, be repaired; these items will cost \$10,000.

The property in charge of this division is as follows:

*South Ferry, East Boston Side.*— Located at the termination of Lewis street, and covers an area of 58,725 square feet of land and water. On these premises are one head-house, with canopies, one workshop for carpenters, machinists and blacksmith, one storehouse, one new modern coal pocket, three new piers which form the two slips, two drops and tanks, one wharf and dock where boats are laid when not in use or while undergoing repairs.

*South Ferry, Boston Side.*— Located at the termination of Eastern avenue, and covers an area of 38,135 square feet of land and water, on which are one head-house, with canopies, one gate room, three piers which form the two slips, and two drops and tanks.



*North Ferry, Boston Side.*— Located at the termination of Battery street, and covers an area of 45,000 square feet of land and water, on which are one head-house, with canopies, one gate room, three piers which form the two slips, and two drops and tanks.

*North Ferry, East Boston Side.*— Located at the termination of Border street, and covers an area of 62,138 square feet of land and water, on which are one head-house, with canopies, one boiler and oil room, one coal pocket (new), three piers which form the two slips, and two drops and tanks.

The following steam ferryboats are in commission:

NAME.	When Built.	Kind.	Length.
Revere.....	1875	Side-wheel.	148 ft.
D. D. Kelly.....	1879	"	148 "
Hugh O'Brien.....	1883	"	163 "
General Hancock.....	1887	"	148 "
Noddle Island.....	1899	Propeller.	164 " 3 in.
Governor Russell.....	1900	"	164 " 3 "
General Sumner.....	1900	"	164 " 3 "

Respectfully submitted,

H. P. CHRISTIERNIN,

*Deputy Superintendent.*

## STREET DEPARTMENT.—FERRY DIVISION.

CONSOLIDATED FINANCIAL STATEMENT FOR THE YEAR ENDING  
JANUARY 31, 1909.**1. Receipts.**

Total cash receipts during the year . . . . .	\$104,244 46
Cash in hands of tollmen at beginning of year . . . . .	200 00
	<hr/>
	\$104,444 46
Cash paid over to City Collector . . . . .	104,244 46
	<hr/>
Balance of cash on hand at end of year . . . . .	<u>\$200 00</u>

**2. Appropriations and Expenditures.**

Balance unexpended from previous years (loans),	\$15 60
Received from City Treasurer by transfer . . . . .	24,023 54
Received from City Treasurer for revenue during the year . . . . .	44 85
Received from City Treasurer, annual appropriation for this division for 1908-09 . . . . .	225,000 00
	<hr/>
Total appropriations of all kinds . . . . .	\$249,083 99
Total expenditures of all kinds . . . . .	249,068 39
	<hr/>
Balance unexpended (loans) . . . . .	<u>\$15 60</u>

**3. Result of Operations for the Year.**

Receipts for the year (net income) . . . . .	\$104,244 46
	<hr/>
Ordinary expenses . . . . .	\$249,068 39
Interest on ferry debt . . . . .	17,935 00
	<hr/>
	\$267,003 39
Depreciation of boats . . . . .	\$11,807 16
Depreciation of machinery and tools . . . . .	387 31
Decrease in stock of supplies . . . . .	5,662 83
	<hr/>
	17,857 30
	<hr/>
	\$284,860 69
Increase in valuation of real estate by assessors . . . . .	28,000 00
	<hr/>
Net outgo for the year . . . . .	\$256,860 69
	<hr/>
Net loss for the year . . . . .	<u>\$152,616 23</u>

4. Balance Sheet.

End of Fiscal Year, January 31, 1909.

ASSETS.	LIABILITIES.
<b>AVAILABLE ASSETS:</b> Cash on hand ..... \$200 00 Inventory of supplies, etc., on hand..... 13,307 77  Total available assets..... \$13,507 77 <b>CONTINGENT ASSETS:</b> City treasury, balance of appropriations..... 15 60 <b>FIXED ASSETS:</b> Real estate and buildings <sup>1</sup> ..... 2 606,400 00 Ferryboats <sup>3</sup> ..... 184,978 78 Machinery, tools, etc..... 5,149 45  Total tangible assets..... \$810,051 60 Avenues, etc., East Boston <sup>4</sup> ..... 315,815 68  Deficiency or loss by operation and maintenance of the ferries for fifty-one years to date..... 3,190,998 81  \$4,316,866 09	<b>CURRENT LIABILITIES:</b> None.  <b>CONTINGENT LIABILITIES:</b> Appropriations account..... \$15 60 <b>FIXED LIABILITIES:</b> Capital of the city invested in the ferries, viz.: Total expenditures of all kinds for fifty-one years, including interest on debts..... \$10,776,753 47 Less total receipts..... 6,459,902 98  4,316,850 49  \$4,316,866 09

<sup>4</sup> Cost (net) previous to 1870, per ferry books, viz.:  
 "Expenditures for avenues," \$250,000 00  
 "Expenditures" for improvements..... 65,815 68  
 \$315,815 68

These expenditures were practically subsidies to the East Boston Ferry Company by the city before the ferries were purchased by the latter and should properly be added to the deficiency or loss.

<sup>1</sup> Original purchase of ferries ..... \$276,375 00  
 New buildings, drops, slips, etc. cost to date, 555,523 64  
 Land, Lincoln's Wharf, cost, 1887 ..... 5,562 52  
 Land, Battery Wharf, cost, 1893..... 10,000 00  
 \$847,461 16

<sup>2</sup> Assessors' figures.

<sup>3</sup> Total cost to date per ferry books ..... \$618,070 58  
 Less boats sold, depreciated or destroyed..... 433,091 80  
 \$184,978 78

## 5. Comparison of Receipts, Appropriations and Expenditures for Five Years.

	1904-05.	1905-06.	1906-07.	1907-08.	1908-09.
<b>RECEIPTS.</b>					
From foot passengers (tollmen).....	\$128,902 89	\$64,622 37	\$60,347 28	\$61,211 43	\$61,681 72
“ “ passes (office sales).....	1,073 10	606 10	668 70	578 70	440 30
“ extra passengers on team (gatemen).....	1,610 29	1,566 30	1,518 46	1,454 72	1,488 24
“ team tickets (office sales).....	1,065 00	218 50	463 00	365 00	386 50
“ strip team tickets (tollmen).....	27,322 50	26,091 50	25,813 00	26,492 50	24,088 00
“ teams (gatemen).....	13,567 37	13,514 68	13,910 98	13,836 34	14,730 19
“ City Collector for tickets.....	438 00	453 50	688 00	487 50	370 00
“ free ferries, July 4.....	1 00	1 00	1 00	1 00	1 00
Total from rates.....	\$173,980 15	\$107,073 95	\$103,410 42	\$104,427 19	\$103,185 95
From rents.....	1,324 50	1,217 67	930 66	1,009 00	414 00
“ old materials sold.....	166 25	111 47	74 90	114 00	3 25
“ other sources.....	680 30	75 00	36 96	114 36	641 26
Total ordinary receipts.....	\$176,151 20	\$108,478 09	\$104,452 94	\$105,664 55	\$104,244 46
From cash in hands of tollmen.....	.....	.....	350 00	.....	.....
Total receipts.....	\$176,151 20	\$108,478 09	\$104,802 94	\$105,664 55	\$104,244 46
Less rejected money (counterfeit, etc.).....	2 25	.....	.....	.....	.....
Total receipts turned over to city.....	\$176,148 95	\$108,478 09	\$104,802 94	\$105,664 55	\$104,244 46
<b>APPROPRIATIONS.</b>					
Regular appropriations.....	\$243,600 00	\$243,000 00	\$243,000 00	\$250,000 00	\$225,000 00
Special appropriations:	.....	25,000 00	.....	.....	.....
New coal pocket, North Ferry, East Boston.....	.....	12,000 00	.....	.....	.....
Equipment of ferryboats with life apparatus.....	.....	.....	.....	.....	.....
Total appropriations.....	\$243,600 00	\$280,000 00	\$243,000 00	\$250,000 00	\$225,000 00

EXPENDITURES (ORDINARY).							
Office:							
Superintendent's salary.....	\$3,000 00	\$3,000 00	\$3,000 00	\$3,000 00	\$566 67	\$2,808 79	
Clerks and cashier.....	4,087 50	4,000 00	4,000 00	3,778 33	4,400 00	4,199 97	
Stationery.....	396 89	256 45	256 45	394 79	256 18	307 09	
Printing.....	868 49	734 42	734 42	1,116 86	1,273 53	1,250 05	
Telephones.....	382 52	274 26	274 26	93 90	236 62	253 90	
Keeping horse and repairing vehicle.....	662 56	620 60	620 60	1,379 34	394 82	220 78	
Advertising, etc.....	10 50	22 75	22 75	.....	18 15	40 31	
Examination of accounts, etc.....	.....	.....	.....	200 00	60 00	258 00	
Traveling expenses.....	.....	.....	.....	.....	188 00	170 90	
Premiums, surety companies.....	97 50	107 50	107 50	100 00	.....	.....	
Total office expenditures.....	\$9,506 96	\$9,015 98	\$9,015 98	\$10,063 22	\$7,393 97	\$9,509 79	
Ferryboats and landings:							
Employees.....	164,666 42	161,965 81	161,965 81	158,244 23	169,097 23	166,105 60	
Fuel.....	35,701 13	47,788 67	47,788 67	36,669 13	45,181 13	35,042 86	
Teaming, wheeling coal, etc.....	5,648 45	5,572 80	5,572 80	4,963 80	4,295 80	4,969 73	
Oil, waste and supplies.....	8,446 14	6,972 27	6,972 27	9,433 26	8,329 97	7,329 56	
Gas.....	967 94	867 96	867 96	455 32	392 44	654 06	
Electric light.....	7,176 04	5,593 10	5,593 10	5,326 60	4,426 24	4,255 00	
Towing by horses.....	418 25	.....	.....	.....	.....	.....	
" " electric power.....	354 50	207 40	207 40	243 40	193 34	133 66	
Repairs of boats.....	15,299 12	11,022 02	11,022 02	21,145 72	22,231 94	13,199 81	
" " buildings and drops.....	8,806 41	11,576 12	11,576 12	13,274 19	30,756 60	6,742 86	
Furnishings, electric, etc.....	943 59	579 97	579 97	618 98	437 96	316 21	
Damages.....	17 00	.....	.....	5 00	.....	.....	
Other expenditures.....	175 25	833 80	833 80	.....	1,621 20	809 25	
Total from regular appropriations.....	\$258,126 20	\$261,995 90	\$261,995 90	\$265,463 83	\$294,357 82	\$249,068 39	
<i>Carried forward</i> .....	\$258,126 20	\$261,995 90	\$261,995 90	\$265,463 83	\$294,357 82	\$249,068 39	

<sup>1</sup> Includes repair coal carts.

<sup>2</sup> Includes execution of court, \$4,290.73.

## 5. Comparison of Receipts, etc. — Concluded.

	1904-05.	1905-06.	1906-07.	1907-08.	1908-09.
<i>Brought forward</i> .....	\$258,126 20	\$261,995 90	\$265,463 83	\$294,357 82	\$249,068 39
EXPENDITURES FROM SPECIAL APPROPRIATIONS.					
New coal pocket, North Ferry.....	.....	.....	25,000 00		
Equipment of ferryboats.....	.....	11,719 37			
Total expenditures, regular and special.....	\$258,126 20	\$273,715 27	\$290,463 83	\$294,357 82	\$249,068 39
Transfers to treasury.....	.....	280 63			
Total expenditures, including transfers.....	\$258,126 20	\$273,995 90	\$290,463 83	\$294,357 82	\$249,068 39
Balances in treasury unexpended:					
From special appropriations.....	\$15 60	\$25,015 60	\$15 60	\$15 60	\$15 60

## 6. Comparative Balance Sheets at the Close of each Year for Five Years.

	January 31, 1905.	January 31, 1906.	January 31, 1907.	January 31, 1908.	January 31, 1909.
<i>Assets.</i>					
Cash in hands of tollmen.....	\$550 00	\$550 00	\$200 00	\$200 00	\$200 00
Accounts receivable.....	12 50				
Fuel and supplies on hand.....	4,692 23	10,236 93	4,295 14	18,970 60	13,307 77
City Treasurer (balance of appropriations).....	15 60	25,015 60	15 60	15 60	15 60
Real estate and buildings (assessors' valuations).....	577,400 00	577,400 00	573,400 00	578,400 00	606,400 00
<sup>1</sup> New buildings.....			25,000 00		
Ferryboats (less depreciation)..	236,924 79	222,709 30	209,346 74	196,785 94	184,978 78
Machinery and tools.....	7,595 00	6,835 50	6,151 95	5,536 76	5,149 45
Total tangible assets.....	\$827,190 12	\$842,747 33	\$818,409 43	\$799,908 90	\$810,051 60
<sup>2</sup> Cost of avenues, etc., East Boston (previous to 1870)...	315,815 68	315,815 68	315,815 68	315,815 68	315,815 68
Deficiency of assets (loss).....	2,428,943 34	2,620,543 31	2,823,306 28	3,038,382 58	3,190,998 81
Totals.....	<u>\$3,571,949 14</u>	<u>\$3,779,106 32</u>	<u>\$3,957,531 39</u>	<u>\$4,154,107 16</u>	<u>\$4,316,866 09</u>
<i>Liabilities.</i>					
Capital invested by City of Boston to date.....	\$3,571,933 54	\$3,754,090 72	\$3,957,515 79	\$4,154,091 56	\$4,316,850 49
Appropriations account (credit balances).....	15 60	25,015 60	15 60	15 60	15 60
Total liabilities.....	<u>\$3,571,949 14</u>	<u>\$3,779,106 32</u>	<u>\$3,957,531 39</u>	<u>\$4,154,107 16</u>	<u>\$4,316,866 09</u>

*Detail of Capital Invested by the City of Boston.*

Total expenditures to date, per ferry books.....	\$9,252,299 07	\$9,542,934 34	\$9,849,968 17	\$10,152,247 67	\$10,419,391 06
Interest on debt for the year (per City Auditor).....	16,920 00	16,920 00	18,114 18	18,075 00	17,935 00
Interest previous years, etc. (net debits per Auditor).....	279,148 85	279,148 85	279,148 85	279,148 85	279,148 85
Total expenditures.....	<u>\$9,548,367 92</u>	<u>\$9,839,003 19</u>	<u>\$10,147,231 20</u>	<u>\$10,449,471 52</u>	<u>\$10,716,474 91</u>
Deduct total receipts paid to Collector.....	\$ 5,976,434 38	\$ 6,084,912 47	\$ 6,189,715 41	\$ 6,295,379 96	\$ 6,399,624 42
Excess of expenditure, viz., capital invested by city.....	<u>\$3,571,933 54</u>	<u>\$3,754,090 72</u>	<u>\$3,957,515 79</u>	<u>\$4,154,091 56</u>	<u>\$4,316,850 49</u>

<sup>1</sup> Included in real estate and buildings by assessors.<sup>2</sup> See footnote 4 under Table 4.<sup>3</sup> Auditor's figures for total expenditures and receipts are \$60,278.56 more than above, the difference (capital invested) being the same; \$3,542.50 for additional interest and \$33 counted twice on total of ferry books have also been included in these figures.

**Total Expenditures upon Ferries since 1858-59.**

<sup>1</sup> Expenditures for avenues, paving, interest, etc., previous to purchase of the ferries by the city . . . . .	\$444,101 30
Purchase of ferries, April, 1870 . . . . .	276,375 00
<sup>2</sup> Expenditures for ferryboats since April, 1870, . . . . .	618,070 58
<sup>2</sup> Expenditures for new buildings, piers, drops, etc. . . . .	555,523 64
<sup>2</sup> Expenditures for tools and fixtures . . . . .	14,752 46
Expenditures for land from Lincoln's Wharf in 1887 . . . . .	5,562 52
Expenditures for land from Battery Wharf in 1893 . . . . .	10,000 00
<hr/>	
Total expenditures on capital account . . . . .	\$1,924,385 50
<sup>2</sup> Expenditures for repairs of all kinds . . . . .	918,279 37
<sup>2</sup> Expenditures for fuel . . . . .	1,399,567 74
<sup>2</sup> Expenditures for salaries and wages . . . . .	4,880,195 69
Expenditures for all other purposes . . . . .	1,654,325 17
<hr/>	
	<b>\$10,776,753 47</b>
<hr/>	

**Total Receipts from Ferries since 1858-59.**

Receipts from rents, etc., previous to purchase of ferries . . . . .	\$29,588 56
<sup>2</sup> Receipts from ferry tolls since purchase of ferries . . . . .	6,174,170 87
<sup>2</sup> Receipts from rents since purchase of ferries, . . . . .	62,247 79
<sup>2</sup> Receipts from sales of ferryboats . . . . .	147,331 21
<sup>2</sup> Receipts from all other sources, per ferry books . . . . .	16,211 73
Receipts from all other sources, additional, per auditor . . . . .	30,690 00
<hr/>	
	\$6,460,240 16
Less rejected money destroyed . . . \$104 18	
Less amount counted twice . . . . . 33 00	
Less amount in hands of tollmen . . . . . 200 00	
<hr/>	
	337 18
<hr/>	
Total, per auditor's figures . . . . .	<b>\$6,459,902 98</b>
<hr/>	

<sup>1</sup> See footnote 4 under Table 4.<sup>2</sup> According to books of the Ferry Division.



REGULAR ANNUAL (ORDINARY) AND SPECIAL APPROPRIATIONS  
(EXTRAORDINARY) OF THE FERRY DIVISION OF THE  
STREET DEPARTMENT FOR THE YEAR ENDING JANUARY  
31, 1909.

Appropriation for the year ending January 31, 1909 . . . . .	\$225,000 00
Received by transfer . . . . .	24,068 39
	<hr/>
Total amount . . . . .	\$249,068 39
	<hr/> <hr/>
Amount of expenditures . . . . .	\$249,068 39
	<hr/> <hr/>

SPECIAL APPROPRIATIONS.

Appropriation authorized and issued May 27, 1902, for ferry improvements . . . . .	\$100,000 00
Amount expended from May 27, 1902, to February 1, 1909 . . . . .	99,984 40
	<hr/>
Unexpended balance of appropriation January 31, 1909 . . . . .	\$15 60
	<hr/> <hr/>

STATEMENTS SHOWING RECEIPTS AT EACH FERRY.

*North Ferry.*

FROM TOLLMEN.	Foot Passengers.	Team Tickets.	Total.
East Boston side . . . . .	\$16,886 71	\$9,506 00	\$26,392 71
Boston side . . . . .	17,808 33	5,470 50	23,278 83
	\$34,695 04	\$14,976 50	\$49,671 54

From tollmen . . . . .	\$49,671 54
From gatemen:	
For 82,606 foot passengers at 1 cent,	\$826 06
For cash fares for teams . . . . .	7,371 90
	<hr/>
	8,197 96
	<hr/>
Total at North Ferry . . . . .	\$57,869 50
	<hr/> <hr/>

*South Ferry.*

FROM TOLLMEN.	Foot Passengers.	Team Tickets.	Total.
East Boston side.....	\$13,230 99	\$3,208 00	\$16,438 99
Boston side.....	13,755 69	5,903 50	19,659 19
	\$26,986 68	\$9,111 50	\$36,098 18

From tollmen . . . . .	\$36,098 18
From gatemen:	
For 66,218 foot passengers at 1 cent, .	\$662 18
For cash fares for teams . . . . .	7,358 29
	<u>8,020 47</u>

Total at South Ferry . . . . . \$44,118 65

North and South Ferries, as above . . . . .	\$101,988 15
Tickets paid for at office of City Collector . . . . .	370 00
Tickets paid for at office of Ferry Division . . . . .	826 80
Received in lieu of free ferries July 4, 1908 . . . . .	1 00

Total ferriage receipts . . . . .	\$103,185 95
Rents for the year . . . . .	414 00
Sales of old material . . . . .	\$3 25
Public telephone . . . . .	41 26
Head-house privileges . . . . .	600 00
	<u>644 51</u>

Total cash receipts, as above . . . . . \$104,244 46

STATEMENT SHOWING THE DIFFERENCE OF TRAVEL ON THE  
FERRIES FROM FEBRUARY 1, 1908, TO FEBRUARY 1, 1909.

	North Ferry.	South Ferry.
Foot passengers at 1 cent each . . . . .	3,552,110	2,764,886
Foot passengers by ticket . . . . .	45,716	22,985
Foot passengers free . . . . .	20,380	4,495

Total foot passengers . . . . . 3,618,206      2,792,366

One-horse teams and pleasure car- riages . . . . .	351,632	260,535
Two-horse teams . . . . .	126,411	88,161
Three-horse teams . . . . .	5,993	2,269
Four-horse teams . . . . .	4,669	6,819

Carried forward . . . . . 488,705      357,784

	North Ferry.	South Ferry.
<i>Brought forward</i> . . . . .	488,705	357,784
Two-horse pleasure carriages and hacks,	20,025	10,695
Handcarts, etc. . . . .	4,022	1,036
Drag-wheels . . . . .	13	16
Free teams . . . . .	5,052	693
<b>Total teams</b> . . . . .	<b>517,817</b>	<b>370,224</b>

TOTAL TRAVEL ON BOTH FERRIES FROM FEBRUARY 1, 1904,  
TO FEBRUARY 1, 1909.

	From Feb. 1, 1904, to Feb. 1, 1905.	From Feb. 1, 1905, to Feb. 1, 1906.	From Feb. 1, 1906, to Feb. 1, 1907.	From Feb. 1, 1907, to Feb. 1, 1908.	From Feb. 1, 1908, to Feb. 1, 1909.
One-horse teams . . . . .	650,687	626,518	634,839	608,744	612,167
Two-horse teams . . . . .	254,726	225,361	225,024	238,911	214,572
Three-horse teams . . . . .	9,605	9,169	10,409	8,091	8,262
Four-horse teams . . . . .	12,931	11,678	11,547	16,897	11,488
Two-horse carriages and hacks .	19,968	21,728	18,571	26,381	30,720
Two-cent tolls for handcarts, etc. . . . .	4,560	4,518	4,936	5,251	5,058
Drag-wheels, etc. . . . .	32	88	41	23	29
<b>Total teams at both ferries. . .</b>	<b>952,509</b>	<b>899,060</b>	<b>905,367</b>	<b>904,298</b>	<b>882,296</b>
<b>Total foot passengers. . . . .</b>	<b>13,200,033</b>	<b>6,708,152</b>	<b>6,292,393</b>	<b>6,353,101</b>	<b>6,385,697</b>

TICKET STATEMENT FOR THE YEAR 1908-09.

	Balance outstanding Jan. 31, 1908.	Sold during the year.	Delivered on Requisitions.	Total.	Received and Destroyed.	Balance outstanding Jan. 31, 1909.
Foot passes . . . . .	229,157	44,030	17,250	290,437	68,701	221,736
One-horse team tickets . . . . .	89,962	324,512	1,504	415,978	321,958	94,020
Two-horse team tickets . . . . .	57,465	191,648	384	249,497	190,398	59,099
Three-horse team tickets . . . . .	5,783	6,858	54	12,695	6,896	5,799
Four-horse team tickets . . . . .	7,984	10,380	.....	18,364	10,466	7,898
One-horse carriage tickets . . . . .	22,739	14,200	20	36,959	14,300	22,659
Two-horse carriage tickets . . . . .	2,477	7,820	.....	10,297	7,651	2,646

LIST OF CONTRACTS IN FERRY DIVISION FROM FEBRUARY 1, 1908,  
TO JANUARY 31, 1909.

DATE.	Awarded to	Contract.	Amount Paid.
April 9	Spring Coal Company..	2,314 tons coal.....	\$8,275 50
April 21	William McKie.....	Repairing guards and stern posts of ferryboat "General Sumner".....	525 00
May 1	Atlantic Works.....	Furnishing four manganese bronze propeller blades, machined, ready to install (four old blades in part payment).....	328 00
May 11	Patrick J. Griffin.....	Hauling coal from sheds to boats.....	* 1,514 98
Aug. 16	Atlantic Works.....	Repairing pistons and rods and other machinery on ferryboat "General Sumner".....	325 00
Sept. 8	Isaac Blair & Co.....	Raise up and lower drop at South Ferry, East Boston side.....	90 00
Sept. 23	Atlantic Works.....	New piping from boiler to radiators and new trap in head-house, North Ferry, Boston side.....	237 00
Nov. 23	Betts Brothers & Co...	Raise and float ferryboat "Revere" sunk in dock.....	600 00
Dec. 26	Lawler Brothers.....	Repairing piers at Boston side, North and South ferries.....	230 00
Jan. 9	Frank Ridlon Company,	New controller on motor at South Ferry, Boston side.....	195 00

\* 25 cents per ton.

## APPENDIX C.

REPORT OF THE DEPUTY SUPERINTENDENT OF  
LAMP DIVISION.

BOSTON, MASS., February 1, 1909.

MR. GUY C. EMERSON,

*Superintendent of Streets:*

DEAR SIR,— The annual report of the Lamp Division for the year 1908 is herewith submitted.

This division has supervision of the lighting, care and maintenance of the various types of electric, gas and naphtha lamps in use by the city for illuminating the streets, alleys, parks and squares, the setting up of all new lamps in the streets and the placing of glass street signs and numbers in the lanterns.

There was appropriated for this division for the financial year ending January 31, 1909, the sum of \$800,000, and there was received from revenue credited to the division the sum of \$23.75, but owing to circumstances that were unavoidable this amount was exceeded and a transfer was made from another appropriation to that of this division to the amount of \$9,500, making a total credit of \$809,523.75.

The expenditures amounted to \$809,510.06, thus leaving a balance of \$13.69 unexpended.

It had been anticipated that a contract for lighting the gas and naphtha lamps would have been made at a much earlier date than that finally decided upon and that a very substantial reduction in prices would also be made, thus allowing the division to live within the sum appropriated.

After experimenting for a year under the system of lighting the gas and naphtha lamps by means of municipal employees, leasing the lanterns and fixtures and paying for repairs and renewals, purchasing gas direct from the gas company and naphtha from the producers at the market rate, it was deemed advisable, it having been demonstrated that the work could be carried on much cheaper, to return to some form of a contract system.

On June 1, 1908, the following notice was published in various papers and journals throughout the country:

CITY OF BOSTON.— Notice to Bidders.— GAS AND NAPHTHA LIGHTING— The Superintendent of Streets of the City of Boston, Office 47, City Hall, invites proposals for lighting with gas and naphtha incandescent mantle burners on such streets, parks and alleys as may from time to time be designated by the Superintendent for five years, from August 1, 1908. The present number of gas lamps is about 10,500, and the number of naphtha lamps about 1,400. The city will furnish the posts and service pipes. The bidders must state a price per lamp per annum for each of the following lamps or clusters:

- 1 — For single gas incandescent burners.
- 2 — For single gasolene or naphtha incandescent burners.
- 3 — For a lantern with two gas incandescent burners.
- 4 — For a lantern with three gas incandescent burners.
- 5 — For a cluster of two lanterns with one gas incandescent burner each.
- 6 — For a cluster of two lanterns with two gas incandescent burners each.
- 7 — For a cluster of three lanterns with one gas incandescent burner each.
- 8 — For a cluster of three lanterns with two gas incandescent burners each.

In the case of the gas lamps, the bids may include the furnishing of the gas as well as the furnishing, maintenance and lighting of the lamps; or, in the alternative, may be confined to the furnishing, maintenance and lighting of the lamps, the city to furnish the gas. Only proposals obtained at said office, filled out, signed by the bidder and left at said office on or before 12 o'clock m. of WEDNESDAY, July 1, 1908, with a certified check for \$5,000, payable to and to be the property of the city if the proposal is not carried out, will at said hour and place be publicly opened and read. The successful bidder will be required to furnish in the sum of \$100,000 a bond of a surety company authorized to do business in the State of Massachusetts. Samples of the equipment, including lanterns, burners, etc., must be submitted with the bid. The Superintendent reserves the right to reject any and all proposals should he deem it for the interest of the city so to do, and to give preference to the proposals of bidders agreeing to pay the trades unions' rate of wages.

GUY C. EMERSON, Superintendent of Streets.

On the opening of the proposals on July 1 it was found that there were three bidders and a canvass of the proposals resulted as follows:

Lighting the Streets, Parks and Alleys with Gas, Naphtha or Gasolene Incandescent Lamps. Bids Opened Wednesday, July 1, 1908, at 12 m.

NAME OF BIDDER.								
	1.	2.	3.	4.	5.	6.	7.	8.
The Cleveland Street Lighting Company (with gas). . . . . By E. S. Newbold, Vice President, Baltimore, Md.	Single Gas Incandescent Burners. Price per Year. . . . .	Single Gasolene or Naphtha Incandescent Burners. Price per Year. . . . .	A Lantern with Two Gas Incandescent Burners. Price per Year. . . . .	A Lantern with Three Gas Incandescent Burners. Price per Year. . . . .	A Cluster of Two Gas Incandescent Burners. Price per Year. . . . .	A Cluster of Two Gas Incandescent Burners. Price per Year. . . . .	A Cluster of Three Gas Incandescent Burners. Price per Year. . . . .	A Cluster of Three Gas Incandescent Burners. Price per Year. . . . .
Rising Sun Street Lighting Co. (with gas). . . . . By F. J. Fitzgerald, President, Boston, Mass.	25 20	29 20	36 80	49 20	48 00	71 60	69 00	106 80
Sunlight Illuminating Company, By S. S. Lesslie, Jr., President, Pittsburgh, Pa.	* 27 00 † 17 40	* 28 00 .....	* 54 00 † 34 80	* 60 80 † 36 00	* 54 00 † 34 80	* 107 00 † 68 60	* 81 00 † 52 50	* 160 00 † 102 40
								Fire Alarm Lamps, \$40 per Year per Lamp.
								Fire Alarm Lamp, \$25.* Fire Alarm Lamp, \$17.40.†

NOTE.—The Sunlight Illuminating Company further agrees to sell the lanterns erected as part of this contract to the City of Boston at the termination of this contract for 50 per cent of the cost price of said lanterns. Invoices and affidavits to be filed as to said cost immediately upon the completion of the installation of the lanterns, and the acceptance of this provision to be made one year before the termination of said contract should the Sunlight Illuminating Company be the successful bidder.

† Not including gas supply.

	1.	2.	4.	Total.
	10,635. Single Mantle Gas.	1,462. Single Mantle Naphtha.	199. Three Mantle Gas.	
The Cleveland Street Lighting Company,	\$264,811 50	\$44,225 50	\$10,149 00	\$319,186 00*
Rising Sun Street Lighting Company...	268,002 00	42,690 40	9,790 80	320,483 20*
Sunlight Illuminating Company.....	287,145 00	40,936 00	12,099 20	340,180 20*
Street Department, Lamp Division....	303,751 50	43,465 26	11,127 16	358,343 92†

\* With gas.

† Does not include office or inspection expense.

The bids were taken under advisement and after due consideration were rejected. Later on, in view of the facts that more time was needed to arrange for new specifications, that additional time should be given to the investigation of any new type of lamp or improvements that might develop along the line of efficiency or economy in street lighting methods, that the Rising Sun Street Lighting Company had all of its equipment already on the streets and ways of the city and that a saving could be made, a temporary contract was entered upon with the above company under authority of the Mayor, without inviting proposals, for the term of one year from September 15, 1908, deducting the sum of \$9.60, the price paid per lamp per year for gas by the above company, and which is now furnished by the city at a less price under an arrangement with the gas companies.

The schedule of prices agreed upon under this new arrangement is as follows:

#### Schedule of Prices.

KIND OF LAMP.	Price per Annum.
Single gas incandescent burners.....	\$15 60†
Single gasolene or naphtha incandescent burners.....	29 20*
A lantern with two gas incandescent burners.....	17 60†
A lantern with three gas incandescent burners.....	20 40†
A cluster of two lanterns with one gas incandescent burner each.....	28 80†
A cluster of two lanterns with two gas incandescent burners each.....	33 20†
A cluster of three lanterns with one gas incandescent burner each.....	40 20†
A cluster of three lanterns with two gas incandescent burners each.....	49 20†

\* Including naphtha.

† Without gas.



The above schedule of prices, plus the cost of gas per lamp per year, provided by the city, would make the total cost per lamp as follows:

KIND OF LAMP.	PRICE PER ANNUM.	
	Boston Gas.	East Boston Gas and Charlestown Gas.
A lantern with one burner.....	\$24 96	\$26 40
A lantern with two burners.....	36 32	39 20
A lantern with three burners.....	48 48	52 80
Two lanterns with one burner each.....	47 52	50 40
Two lanterns with two burners each.....	70 64	76 40
Three lanterns with one burner each.....	68 28	72 60
Three lanterns with two burners each.....	105 36	114 00

By mutual consent the contract for incandescent lighting between the city and the Edison Electric Illuminating Company which was to have continued until June 1, 1909, was canceled, taking effect on and after April 1, 1908, with the written understanding and condition that bills for service provided for in said contract should, during the remainder of the term, be rendered and settled on the regular municipal lighting schedules of the company, a separate bill to be rendered for each meter. A result of the above change of rates has been a reduction in the cost to the city departments as a whole for this class of lighting.

On April 2, 1909, an arrangement went into effect whereby the Edison Company agreed to maintain and repair the electric light cables owned by the city in the different parkways, also the overhead system at Castle Island, without expense to the city; the company to cancel the unpaid bills against the city for maintenance and repair of the said cables and the city agreeing to pay during the life of the contract, concerning the street and park lighting of the city, the rates fixed by the said contract, without the deduction of one cent per lamp per night which had been made under the former arrangement for such lamps as were connected with the city cables.

In September a notice to contractors for street lighting and manufacturers of street lighting apparatus was published, inviting such parties having apparatus adapted to systems other than the present system of low pressure gas mantles to demonstrate therewith, if they so desired, during the continuance of the present contract for street lighting, with a view to the improvement of the present system upon the expiration of the present contract on September 15, 1909.

Various types of arc, incandescent electric lamps, vertical mantle and inverted mantle gas lamps and automatic lighting devices have been demonstrated with on the streets and are now in process of investigation and being experimented with.

A more brilliant illumination of the important thoroughfares, business streets and public squares is needed, as it is a factor in the improvement in the social, moral and business conditions of the city that should not be overlooked. Considerable correspondence and investigation have been conducted in relation to improved and ornamental posts and fixtures together with other new lighting processes that have been brought to the attention of the division, and a large amount of data has been obtained. A more ornamental lamp-post on certain prominent thoroughfares and squares is desirable. The design of such a post should be the subject of careful study and consideration. A post carefully proportioned and of a decorative but not too ornate design could be used to advantage.

A mast-arm type of post is also needed, or a cross-suspension lamp fixture, at many important street intersections or on such streets where the foliage overhanging both roadway and sidewalk requires a better distribution of light than can be obtained by the use of the ordinary post.

The discontinuance of all of the naphtha street lamps having been determined upon on account of the excessive rate paid per lamp; and in order to obtain a more efficient lighting service in the districts supplied with these lamps, the substitution of either mantle gas lamps, where gas mains were laid, or with the Tungsten series lamps, principally the latter type of lamp, has been in progress. A considerable reduction in the yearly cost of maintenance will be obtained by this change when the work of installation is completed. It has been found that the Tungsten lamp with radial reflector gives a very satisfactory illumination upon those streets in which it has been installed. Tests made on the street to determine the value of the illumination from these lamps have

shown a distinct gain over the former method by an increase in the intensity of the useful light thrown upon the area to be lighted.

In order that the citizens residing in the Germantown District could receive the benefit of gas service, the gas company was prevailed upon to extend its mains throughout that district, including the new state highway. Work was commenced late in the fall on the installation of mantle gas lamps in the above district, and it will be completed this spring.

The work done by the division in the installation of new lamps and repairs and alterations of services and posts has been conducted as follows:

There have been 207 naphtha lamps changed to mantle gas lamps where the gas company have extended their mains. One hundred and eighty-eight new single mantle gas lamps have been set up and one new triple mantle gas lamp installed. Five gas lamps that were out temporarily have been relighted and four have been replaced that were discontinued. Two triple mantle gas have been changed to single mantle gas lamps. One new naphtha lamp has been set up and one replaced. Twelve double mantle naphtha have been changed to single mantle naphtha lamps.

Care has been assumed of four new fire-alarm signal lamps. Thirteen new arc lamps have been installed and temporary arc lamps have been provided during the skating season at Wood Island, North Brighton and Jamaica Pond.

Thirty gas lamps, 74 single mantle and 4 double mantle naphtha lamps and 9 arc lamps have been discontinued and removed.

On account of the extension and repair of the Traverse Street Subway eight 16 c. p. lamps were removed and fifteen 16 c. p. lamps were newly installed.

Twelve 40 c. p., twenty 60 c. p. and one 80 c. p. new Tungsten lamps have been installed on the streets, and ten 32 c. p. carbon lamps have been changed to 60 c. p. Tungsten.

The total number of lamps of all types, set up, relighted and replaced during the year is 427. The total number of lamps discontinued is 287, a total net increase of 140.

Changes in locations of 16 gas, 46 naphtha and 6 arc lamp-posts have been made on account of street construction, building operations or grade changes.

Two hundred and twelve lamp-posts have been set for the various types of lamps, and 48 incandescent fixtures have been put up; 1 naphtha and 33 gas lamp-posts that were

broken by teams or other causes have been removed and new posts set; 4 gas and 3 naphtha lamp-posts have been set in place of bracket fixtures.

Fifty-six gas, 36 naphtha and 7 arc lamp-posts have been straightened; 77 gas, 11 naphtha and 5 arc lamp-posts have been reset to line and grade; 19 gas, 60 naphtha and 2 arc lamp-posts that have been discontinued were removed from the streets; 12 gas brackets have been removed from buildings; 1 lamp-post has had the spindle recalked.

Four hundred and eighteen new service pipes have been laid, and 42 have been removed and cut off from the main pipes; 12 services have been reconnected with new mains, and 159 renewed or relaid that were trapped or otherwise affected by street changes; 56 leaks in services were repaired; 21 risers renewed or shortened; 12 risers were removed, and 501 services were cleared.

The number of glass street signs that have been placed in the lanterns is 796, and also 270 numbers; glass shades have been placed in the gas lanterns when requested.

Tables showing the expenditures of the division, the total number of lamps of various types installed, the contract prices paid per lamp per annum, the increase or decrease of the lamps, an inventory of property, and copies of the lighting contracts, etc., are annexed.

Respectfully submitted,

EDWARD C. WADE,

*Deputy Superintendent.*

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#### GAS LIGHTING.

There are 11,061 single mantle gas lamps in use, 179 triple mantle gas, 19 triple mantle police lamps in front of stations, and 192 open flame fire-alarm signal lamps.

The city furnishes and provides for the setting of the lamp-posts, has service pipes laid from the gas main to the top of the post, maintains all such pipes and posts in good condition and repair, furnishes the gas, contracts for lanterns, burners, other necessary equipment and labor for lighting and care.

The division pays for the cost of gas, lighting and care for the fire-alarm lamps, and the cost of repairs and setting up of posts is assumed by the Fire Department.

## Gas Lamps.

COMPANY.	Number of Lamps.	Type of Lamp.	Rated Candle Power.	Gas Consumed per Lamp per Hour.	Hours of Burning per Annum.	Cost of Gas per M.	Cost of Gas per Lamp per Annum.	Cost per Lamp for Lighting, Care and Repair per Annum.	Total Cost per Lamp per Annum.
Boston Consolidated.....	10,009	Single mantle.	60	3 feet.	4,000	\$0.78	\$9 36	\$15 60	\$24 96
	173	Triple mantle.	180	9 feet.	4,000	.78	28 08	20 40	48 48
	167	Open flame.	.....	4 feet.	3,828	.78	12 36	15 60	27 96
Charlestown.....	521	Single mantle.	60	3 feet.	4,000	.90	10 80	15 60	26 40
	12	Open flame.	.....	3 feet.	4,000	.90	10 80	15 60	26 40
	531	Single mantle.	60	3 feet.	4,000	.90	10 80	15 60	26 40
East Boston.....	6	Triple mantle.	180	9 feet.	4,000	.90	32 40	20 40	52 80
	13	Open flame.	.....	4 feet.	3,828	.90	13 78	15 60	29 38

## NAPHTHA LIGHTING.

There are 1,179 single mantle naphtha lamps in use.

The city furnishes and provides for the setting of the lamp-posts, contracts for lanterns and necessary equipment, naphtha, and labor for lighting and care.

COMPANY.	Number of Lamps.	Type of Lamp.	Rated Candle Power.	Hours Burning per Annum.	Contract Price for Lighting, Care, Repair and Naphtha per Annum.
Rising Sun Street Lighting Company.....	1,179	{ Single mantle. }	60	3,828	\$29 20

## ELECTRIC LIGHTING.

There are 3,800 inclosed arc lamps in use, 43 Tungsten series lamps, 38 carbon filament lamps.

The companies provide and set the lamp-posts, furnish lamps, wires, cables and all other necessary equipment, and maintain them in good condition and repair.

## Arc Lamps.

COMPANY.	Number of Lamps.	Connected.	Type of Lamp.	Type of Circuit.	WATTS.		Lighting Hours.	Cost per Lamp per Annum.
					At Terminal.	At Arc.		
Edison Electric Illuminating Company.....	1,458	Overhead.	Inclosed.	Series 6.6 amp. D. C.	500	483	3,828	\$118 39
	1,728	Underground.	Inclosed.	Series 6.6 amp. D. C.	500	483	3,828	118 39
	15	Underground.	Inclosed.	Multiple 5 amp. D. C.	550	400	3,828	118 39
	3	Underground.	Inclosed.	Multiple 7.5 amp. A. C.	550	443	3,828	118 39
Boston Consolidated Gas Company.....	308	Overhead.	Inclosed.	Series 7.5 amp. A. C.	500	471	3,828	124 10
	23	Underground.	Inclosed.	Series 7.5 amp. A. C.	500	471	3,828	124 10
Charlestown Gas and Electric Company.....	222	Overhead.	Inclosed.	Series 6.6 amp. D. C.	500	483	3,828	127 75
	43	Underground.	Inclosed.	Series 6.6 amp. D. C.	500	483	3,828	127 75

## Incandescent Lamps.

COMPANY.	Number of Lamps.	Type of Lamp.	Type of Circuit.	Watts.	Candle Power.	Lighting Hours.	Cost per Lamp per Annum.
30	Tungsten.	Series 6.6 amp. D. C.	75	60	3,828	23 48	
1	Tungsten.	Series 6.6 amp. D. C.	100	80	3,828	29 71	
15	Carbon.	Multiple 113 volts.	—	16	Meter.	—	
Boston Consolidated Gas Company.....	7	Carbon.	Series 6.6 amp. D. C.	—	32	3,828	23 48
	14	Carbon.	Multiple 113 volts.	—	32	3,828	36 00
Boston & Albany.....	2	Carbon.	Multiple 113 volts.	—	32	Meter.	—

The following table shows the number of lamps of the various types in use on January 1, 1909, as compared with the number in use in January, 1908:

	January, 1909.	January, 1908.	Increase or Decrease.
Mantle gas.....	11,061	10,685	+376
Mantle naphtha.....	1,179	1,446	-267
Electric arc.....	3,800	3,796	+4
Incandescent carbon.....	38	41	-3
Incandescent Tungsten.....	43	.....	+43
Fire alarm.....	192	188	+4
Triple mantle gas.....	179	180	-1
Triple mantle police.....	19	19	.....
Double mantle naphtha.....	.....	16	-16
	16,511	16,371	+140

#### LIGHTING SCHEDULE.

The following table shows the time of lighting and extinguishing the gas lamps for the different months of the year:

DATE.	Light at. P. M.	Put Out. - A. M.	Number of Hours Burning.
January 10 to 14.....	4.15	6.00	13 $\frac{1}{2}$
15 to 21.....	4.30	6.00	13 $\frac{1}{2}$
22 to 31.....	4.45	6.00	13 $\frac{1}{2}$
February 1 to 4.....	4.45	6.00	13 $\frac{1}{2}$
5 to 9.....	5.00	6.00	13
10 to 11.....	5.00	6.00	13
12 to 25.....	5.15	5.45	12 $\frac{1}{2}$
26 to 28.....	5.30	5.30	12
March 1 to 9.....	5.30	5.30	12
10 to 26.....	6.00	5.00	11
27 to 31.....	6.15	4.30	10 $\frac{1}{2}$
April 1 to 9.....	6.15	4.30	10 $\frac{1}{2}$
10 to 23.....	6.30	4.15	9 $\frac{3}{4}$
24 to 30.....	6.45	4.00	9 $\frac{1}{4}$
May 1 to 6.....	6.45	4.00	9 $\frac{1}{4}$
7 to 9.....	7.00	3.30	8 $\frac{1}{2}$
10 to 21.....	7.00	3.30	8 $\frac{1}{2}$
22 to 31.....	7.00	3.00	8
June 1 to 3.....	7.00	3.00	8
4 to 9.....	7.15	3.00	7 $\frac{3}{4}$
10 to 30.....	7.15	3.00	7 $\frac{3}{4}$
July 1 to 9.....	7.15	3.00	7 $\frac{3}{4}$
10 to 31.....	7.15	3.00	7 $\frac{3}{4}$
August 1 to 9.....	7.00	3.15	8 $\frac{1}{4}$
10 to 21.....	7.00	3.15	8 $\frac{1}{4}$
22 to 31.....	6.30	3.45	9 $\frac{1}{4}$



LIGHTING SCHEDULE.—*Concluded.*

DATE.	Light at. P. M.	Put Out. A. M.	Number of Hours Burning.
September 1 to 9.....	6.30	3.45	9 $\frac{1}{4}$
10 to 11.....	6.30	3.45	9 $\frac{1}{4}$
12 to 19.....	6.00	4.00	10
20 to 30.....	5.45	4.15	10 $\frac{1}{2}$
October 1 to 9.....	5.30	4.30	11
10 to 22.....	5.15	4.45	11 $\frac{1}{2}$
23 to 31.....	4.45	5.00	12 $\frac{1}{4}$
November 1 to 9.....	4.30	5.00	12 $\frac{1}{2}$
10 to 25.....	4.15	5.15	13
26 to 30.....	4.15	5.45	13 $\frac{1}{2}$
December 1 to 9.....	4.00	5.45	13 $\frac{3}{4}$
10 to 24.....	4.00	5.45	13 $\frac{3}{4}$
25 to 31.....	4.15	6.00	13 $\frac{3}{4}$
January 1 to 9.....	4.15	6.00	13 $\frac{3}{4}$

## OUTAGES ON STREET LAMPS.

The number of lamps reported not lighted on schedule time or out before the proper time have been as follows: 4,604 electric lamps; 1,593 gas lamps and 2,034 naphtha lamps — a total of 8,231 lamps.

DATE.	Arc.			Totals.
	Edison.	Brookline.	Charlestown.	
February.....	\$110 16	\$11 33	\$3 38	\$124 87
March.....	96 90	3 10	.....	100 00
April.....	174 42	2 36	.....	176 78
May.....	45 22	1 44	8 10	54 76
June.....	40 80	3 01	7 90	51 71
July.....	54 40	.....	.....	54 40
August.....	42 84	89	.....	43 73
September.....	90 44	75	.....	91 19
October.....	.....	.....	.....	.....
November.....	65 96	83	3 63	70 42
December.....	28 90	.....	.....	28 90
January, 1909.....	40 12	97	14 78	55 87
Totals.....	\$790 16	\$24 68	\$37 79	\$852 63

## Underground Work.

	Set for New Lamps.	Set in Place of Broken Ones.	Set in Place of Broken Brackets.	Shift to New Location.	Straight- ened.	Reset to Line and Grade.	Removed.	Repaired.	Laid.	Relaid.	Recon- nected.	Cleared.
Gas posts.....	192	33	4	16	56	77	19	1	—	—	—	—
Naphtha posts.....	2	1	3	46	36	11	60	—	—	—	—	—
Electric posts.....	13	—	—	6	7	5	2	—	—	—	—	—
Gas brackets.....	—	—	—	—	—	—	12	—	—	—	—	—
Incandescent fixtures..	48	—	—	—	—	—	—	—	—	—	—	—
Naphtha brackets....	—	—	—	—	—	—	—	—	—	—	—	—
Fire-alarm posts.....	5	—	—	—	—	—	—	—	—	—	—	—
Services.....	—	—	—	—	—	—	42	56	418	159	12	501
Risers.....	—	—	—	—	—	—	12	—	—	21	—	—

## EMPLOYEES.

There are eight men employed in the division as follows: Deputy superintendent, clerk, messenger, four inspectors and one watchman.

The lamplighters are all employed by the lighting company having the contract with the city.

## INVENTORY OF PROPERTY ON HAND JANUARY 1, 1909.

- 1 horse.
- 2 sets of single harness.
- 1 buggy.
- 1 democrat wagon.
- 2 whips.
- 1 rubber mat.
- 4 blankets.
- 5 robes.
- 1 halter.
- 1 test meter.
- 1 lot of small tools.
- 1 100-foot tape measure.
- 200 stakes.
- 5,000 flat glass street signs.
- 1,137 bent glass street signs for No. 38 lantern.
- 64 bent glass street signs for No. 37 lantern.
- 232 bent glass street signs for No. 190 lantern.
- 736 glass street numbers.
- 100 lantern shade holders.
- 300 number holders.
- 1 typewriter and desk at office.
- 1 oak roll-top desk at shop.
- 4 oak chairs at shop.
- 1 table at shop.
- 1 umbrella stand at shop.
- 1 umbrella rack at shop.
- 1 ice water cooler at shop.
- 11 settees at shop.
- 1 stove at shop.
- 2 coal hods at shop.
- 1 clock at shop.
- 11,434 iron lamp-posts on street.
- 995 iron brackets on street.
- 10 iron lamp-posts in gas companies' yards.
- 25 iron brackets in yard.
- 2 bridge lamp-posts.
- Street plans, maps and atlases.

## Expenditures for Year 1908-1909.

*Electric Lighting:*

Edison Electric Illuminating Com- pany . . . . .	\$375,565 46	
Boston Consolidated Gas Com- pany . . . . .	41,550 15	
Charlestown Gas & Electric Com- pany . . . . .	32,755 81	
New York, New Haven & Hart- ford Railroad Company . . . . .	32 52	
	<hr/>	\$449,903 94

*Gas Lighting:*

Boston Consolidated Gas Com- pany . . . . .	\$98,036 34	
Charlestown Gas & Electric Com- pany . . . . .	5,602 97	
East Boston Gas Company . . . . .	5,988 81	
	<hr/>	
Total for gas . . . . .	\$109,628 12	
Rising Sun Street Lighting Com- pany:		
Rentals, repairs and labor . . . . .	120,260 75	
Lamplighters:		
Seven and one-half months . . . . .	70,248 36	
	<hr/>	300,137 23

*Naphtha Lighting:*

Naphtha . . . . .	\$12,036 87	
Rising Sun Street Lighting Com- pany:		
Rentals, repairs, labor and naphtha . . . . .	18,674 28	
Lamplighters:		
Seven and one-half months . . . . .	9,501 02	
	<hr/>	40,212 17

*Salaries and Wages:*

Superintendent and clerks . . . . .	\$4,769 19	
Inspectors . . . . .	4,316 71	
Foreman, messenger, watchman and stenographer . . . . .	2,370 25	
	<hr/>	11,456 15

*Construction:*

Underground work . . . . .	\$3,451 62	
Wrought-iron work . . . . .	37 00	
Electric changes . . . . .	71 22	
Lamp-posts . . . . .	1,710 50	
Painting lamp-posts . . . . .	14 67	
	<hr/>	5,285 01

*Carried forward* . . . . . \$806,994 50

<i>Brought forward</i> . . . . .	\$806,994 50
Horse keeping, shoeing and repairs . . . . .	607 58
Glass signs and numbers . . . . .	465 73
Printing, stationery and periodicals . . . . .	501 19
Traveling expenses and car fares . . . . .	201 50
Telephones . . . . .	149 56
Advertising . . . . .	386 16
Messenger service . . . . .	66 48

*Shop Expenses:*

Fuel, water, cleaning and repairs . . . . .	137 36
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Total . . . . .	<u>\$809,510 06</u>
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**Revenue.**

Rent of shop . . . . .	\$775 00
Rebate on car tickets . . . . .	23 75
Sale of torches . . . . .	6 00

Total . . . . .	<u>\$804 75</u>
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CONTRACT FOR LIGHTING WITH GAS AND NAPHTHA INCANDESCENT MANTLE LAMPS CERTAIN STREETS, PARKS AND ALLEYS IN THE CITY OF BOSTON.

The City of Boston having herewith entered into a contract for lighting with gas and naphtha incandescent mantle lamps certain streets, parks and alleys in said city upon the conditions set forth in the annexed specifications, the undersigned Rising Sun Street Lighting Company declares that the only persons interested in this contract as principals are named herein; that no official of the city, and no person acting for or employed by the city, is directly or indirectly interested therein or in any contract which may be made thereunder, or in any expected profits to arise therefrom; that he has carefully examined the annexed specifications; and he hereby bids in accordance therewith and agrees to do all the work set forth in said specifications at the following prices, excluding the furnishing of gas:

Schedule of Prices.

KIND OF LAMP.	Price per Annum.
Single gas incandescent burners.....	\$15 60
Single gasolene or naphtha incandescent burners.....	29 20
A lantern with two gas incandescent burners.....	17 60
A lantern with three gas incandescent burners.....	20 40
A cluster of two lanterns with one gas incandescent burner each.....	28 80
A cluster of two lanterns with two gas incandescent burners each.....	33 20
A cluster of three lanterns with one gas incandescent burner each.....	40 20
A cluster of three lanterns with two gas incandescent burners each.....	49 20

The full names and residences of all the persons interested in this contract as principals are as follows:

Rising Sun Street Lighting Company, Boston, Mass.  
Peter J. Fitzgerald, *President and General Manager*.  
Robert J. Gove, *Treasurer*.

NOTICE.— Give first and last names in full, and in case of corporations give the names of president, treasurer and manager or local agent, if any.

The corporation is of the State of Maine.

The name and address of the surety company who will sign the bond are:

Massachusetts Bonding and Insurance Company, Boston, Mass.

Signed this twentieth day of August, 1908.

Signature of contractor:

RISING SUN STREET LIGHTING COMPANY,  
By PETER J. FITZGERALD, *President*.

Accepted. CITY OF BOSTON,

By GUY C. EMERSON, *Superintendent of Streets*.

Form of contract and bond approved:

THOMAS M. BABSON, *Corporation Counsel*.

Approved:

GEORGE A. HIBBARD, *Mayor*.

#### BOND.

The undersigned surety company binds itself, its successors and assigns to pay to the City of Boston the sum of twenty-five thousand (25,000) dollars.

This obligation is upon the condition that if the party to the contract hereto annexed, therein called the contractor, shall faithfully perform the said contract in accordance with the terms thereof, and do everything of him therein required, and shall fully protect the city against any infringements of patents, or any other suits in connection with or growing out of the performance of said contract, then this obligation shall become of no effect. Otherwise, it shall continue in full force.

Signed, sealed and delivered August 20, 1908.

MASSACHUSETTS BONDING AND INSURANCE COMPANY.

T. J. FALVEY, *President*.

WILLIAM M. DOWLING, *Assistant Secretary*.

The Corporation is of the State of Massachusetts.

The president is T. J. Falvey.

The treasurer is John T. Burnett.

The place of business in Boston is 77-78 State street.

#### SPECIFICATIONS.

1. By the city is meant the City of Boston, acting through the Superintendent of Streets or such subordinate or other officer as may have charge of street lighting in said city. By the contractor is meant the Rising Sun Street Lighting Company.

2. *Work to be Done.*—The work to be done under this contract shall consist of supplying all the material, labor and equipment necessary and required (except the posts and service pipes) to light with gas, gasolene or naphtha incandescent lamps such streets, parks, alleys and public places as may from time to time be designated by the city during the continuance of this contract, for a period of one year from September 15, 1908. He must also light, extinguish and keep clean such open-flame fire-alarm signal lamps as the city may from time to time establish.

3. *Plant to be Furnished by Contractor.*—The contractor must furnish his own plant to do the work, and is required to furnish and erect and put in service, at his own cost, to the satisfaction of the city, all lanterns, burners and other appurtenances, contrivances and fixtures which are necessary to operate and maintain the said lamps, and thereupon the contractor shall forthwith proceed to do the lighting. The necessary equipment shall be placed upon such gas posts as may be furnished and from time to time indicated by the city. The said plant and all appurtenances so furnished by the contractor shall remain his property and must be removed by him at the expiration of the contract at his own expense.

If in the opinion of the city the contractor does not exercise due diligence in the erection of said plant, or if the materials furnished therefor are not to the satisfaction of the city, the city may give the contractor notice in writing of such dereliction, and then if the contractor fails within thirty days thereafter to obey any proper order of the city in connection with the work of erecting and furnishing the plant, the said superintendent, with the consent in writing of the Mayor, may declare the contract forfeited.

4. *Lamp-posts.*—The posts on which the contractor is to place and operate his lanterns will, together with the service



pipes, be furnished by the city free of expense to the contractor. They shall be neatly painted by the contractor such color as the city may designate, and shall be repainted from time to time whenever, in the opinion of the city, it shall be deemed necessary. The posts must be kept free from dirt and must not be used for advertising purposes. The city will set, connect and keep the posts in good repair and plumb.

The contractor must furnish cross-arms on such posts as the city may designate, arranged to take two or three lanterns as may be required by the city.

5. *Lanterns.*— The lanterns must be of boulevard pattern, and identical in construction with the sample lantern submitted with the bid. The lamps and ventilators must be so constructed that the lights therein will be protected against insects and wind and weather.

6. *Burners and Mantles.*— The burners to be used must be first-class in material and workmanship, furnishing at all times when in service a steady, clear, white light, free from smoke, of the required candle power.

If the burners shall not give continuously the required candle power they must be replaced by the contractor with burners that will. No incandescent mantle will be permitted to be used unless composed of the best material and standard weave and of first-class quality in all respects.

No incandescent mantle shall be used by the contractor which will shrink beyond reasonable dimensions from the standard required; and all broken, smoked or blackened, ragged or frayed mantles must be at once replaced with new mantles by the contractor.

7. *Time of Lighting.*— The lamps must be lighted and extinguished in accordance with a schedule to be furnished by the city, said schedule not to exceed four thousand burning hours per lamp per year. The lamps must be lighted within one hour from the time fixed in the schedule as the time for beginning, and must be extinguished within one hour from the time fixed in the schedule as the time for beginning to extinguish.

In order that the city may determine whether the gas or naphtha lamps are lighted and extinguished in accordance with the official schedule or time table hereinbefore mentioned, the contractor shall furnish the said official with maps or lists showing the number and geographical location of each lamp in the district of each lamplighter, and designating the particular lamp at which each lamplighter commences to light and also the lamp at which he completes the lighting; and in extinguishing the lamps the lamplighter shall begin

and finish at the same lamps as are designated for beginning and finishing points on any lamp district during the term of contract.

The lamplighters or other employees of the contractor will not be permitted to climb the lamp-posts for the purpose of lighting the lamps, or for any other purpose, except by use of a ladder.

For every light that does not burn continuously at the proper candle power throughout the hours prescribed each night, a sum equal to  $\frac{2}{3 \times 65}$  of the contract price per lamp per year, for each night's failure, will be deducted from the amounts due the contractor and forfeited to the city. These "outs" will be reported by the Police Department at its respective police stations daily, in writing, open to the contractor, and shall be regarded as final and binding upon the contractor, errors proven or admitted excepted.

8. *Repairs and Maintenance.*—The contractor must at his own expense keep the entire plant in good repair and maintain same to the satisfaction of the city. Upon failure of the contractor to promptly make any and all necessary repairs (including repainting of lanterns and posts) the city may cause same to be done and deduct the cost thereof from any amounts that may become due to the contractor. All glass must be cleaned at least once a week, and oftener if necessary to do so, in order not to retard or diminish the candle power of the lamps. All broken or displaced glass, and all broken or defective mantles, must be replaced forthwith, and all street lamps must be constructed so that present signs may be attached, and shall, after each cleaning, be replaced, with the signs facing the proper street. All broken or displaced glass shall be removed forthwith by the contractor.

The contractor shall report, in writing, at the office of the official in charge of street lighting, on Thursday of each week, the number of each kind of lamps lighted on each of the preceding seven nights, and on the tenth day of each month the number of each kind lighted, as aforesaid, on each night subsequent to the last report, stating in each report the name of each person lighting the lamps, and the locations of any and all lamps added to or removed from the district of each lamplighter, and is to notify said official, in writing, of any damage to or repair needed to the posts or service pipes.

The contractor will be allowed the entire use of the Lamp Department shop, No. 690 Albany street, at a rent of \$100 per month.

9. *Removal of Lamps.*—Whenever ordered to do so by the city, the contractor must change the location of lamps,

weather permitting, from one place to another (posts to be furnished by the city ready to receive lamp), at his own cost and expense.

10. *New Lamps.*—The city may, from time to time, order the erection and maintenance of new or additional lamps, at such locations as it may deem proper, and it shall be the duty of the contractor, at his own cost and expense, to properly erect upon said posts furnished, placed and connected by the city, and put into operation such additional lamps and maintain the same in all respects as called for in these specifications. All additional lamps ordered shall be put in service within ten days after they are ordered and posts set and connected; and notice that the same are in service shall be given by the contractor to the city.

11. *Discontinuance of Lamps.*—The city shall have the right to increase or diminish the number of lamps furnished under the contract, but it is understood that the total number of gas and naphtha lamps to be furnished under this contract shall not at any time be less than 7,500.

Naphtha or gasolene lamps may be changed to gas lamps at the discretion of the city when the gas post and service connections are ready therefor. When orders to discontinue lamps are given, in accordance with the above, the contractor must put them out of service within five days, and notify the City of Boston in writing; payment for the same shall cease on such discontinuance, and when the contractor removes a gas lantern without substituting another therefor, he shall properly plug the service pipe so that the gas will not escape therefrom.

12. *Candle Power.*—All the burners, whether of gas, gasolene or naphtha, must be maintained continuously when in service at not less than 60 actual candle power. The city shall have the right at any time to test the lights in the usual accepted manner by standard photometric tests, and if there is found any deficiency the contractor must proceed at once to remedy the defects and raise the burners to the required candle power.

13. *Supply of Gas.*—The city shall furnish all the gas required for the lamps, but is not to light it.

The city agrees to furnish at the mouth of the riser pipes in the gas posts the required amount of gas for street lighting, of the quality and at the pressure furnished in said city for residence consumption; and the contractor will be required to produce at all times a sixty (60) candle power light on a consumption of not to exceed 3 feet of gas per lamp per hour. Any excess consumption over and above an average of

3 feet per lamp per hour shall be paid for by the contractor at the rate of eighty (80) cents per thousand cubic feet, which excess shall be determined as hereinafter provided. After the determination, said amount shall become due and payable by the contractor, or on failure of payment may be deducted by the city from any amounts due or thereafter to become due the contractor.

Tests to ascertain such consumption shall be made when requested by either party in the following manner: representatives of the parties hereto shall select at random from various parts of the city not less than thirty (30) and not more than fifty (50) burners, noting the pressure at the particular post from which each burner is taken. Such burners shall then be tested by the representatives of the parties hereto for the consumption under the same conditions of pressure as that obtained at the particular places where the burners were in use.

If by such tests it shall appear that the said burners are consuming gas at a rate greater than 3 cubic feet per hour on an average, then it shall be assumed that all burners in the city are consuming gas at the same rate as such average rate, and the amount of excess gas consumed shall be arrived at by multiplying the number of lighting hours by the excess amount over the rate as shown by the test. The rate of consumption so determined shall govern until another test is made.

14. *Naphtha or Gasolene.*—The contractor shall furnish all the gasolene or naphtha which may be necessary to supply incandescent mantle gasolene or naphtha street lamps at such locations as the city may from time to time direct, and furnish with posts for the purpose.

The contractor will be required to supply each lamp each night with a sufficient quantity of gasolene or naphtha to insure the standard of light herein contracted for at all times during the hours of burning.

The gasolene or naphtha used in supplying the lamps must be of the very best grade, free from water, gum, glue or other impurities.

15. *Payments.*—Payment for the work performed under this contract shall be made by the city monthly, in the same manner as other city work is paid for, at the rates specified in the contract and subject to appropriations.

16. *Miscellaneous.*—The contractor shall allow his employees to lodge, board and trade wheresoever and with whomsoever they may choose, and shall give preference in employment, first, to citizens of the City of Boston, second, to citizens of Massachusetts, and shall save the city and its

agents and employees harmless from any and all claims against them or any of them arising from any act, omission or neglect of the contractor, his agents or employees in carrying on the contract, and no workman, laborer or mechanic employed on this work within the Commonwealth shall be requested or required to labor more than eight hours in any one calendar day.

Any assignment, subletting or otherwise permitting the work herein specified to be done by any one other than the contractor, or encumbering the work or plant by mortgage or in any way, will be sufficient cause for the abrogation of the contract by the city.

## APPENDIX D.

REPORT OF THE DEPUTY SUPERINTENDENT OF  
PAVING DIVISION.

BOSTON, MASS., February 1, 1909.

MR. GUY C. EMERSON,

*Superintendent of Streets:*

DEAR SIR,—The annual report of the expenditures and income of the Paving Division of the Street Department for the financial year ending January 31, 1909, is herewith submitted, showing the nature of the work, the number and variety of permits issued and the details of the expenditures involved in paving, macadamizing, regulating and constructing various streets.

The Paving Division has charge of the following work:

The maintenance and rebuilding of street surfaces and sidewalks.

The placing of street signs.

The numbering of buildings.

The issuing of permits to open or occupy the streets, or for such other purpose as may be required under the ordinances.

The removal of snow and ice from the streets, gutters and plankwalks.

The cleaning of streets in the outlying sections of the city not covered by the Street Cleaning Division.

The division is in charge of a deputy superintendent, with a clerical force under the direction of a chief clerk and an engineering force under the direction of a chief engineer.

The important work was the construction of several of the streets in the downtown section and South Boston, as follows:

Granite block paving on a concrete base, with pitch and pebble joints:

Scollay square.

Bromfield street.

Kneeland street.

Eliot street, Tremont to Pleasant street.

A street, Congress street to Mt. Washington avenue.

Wooden blocks on concrete base:

Church street, Boylston to Providence street.  
Providence street, Church street to Park square.  
West street.  
Summer street, Washington to Hawley street.  
Washington street, Court avenue to Cornhill.  
State street, north and south of old State House.

On the first four streets the contracts were awarded in 1907, the specifications calling for a 3-inch by 3½-inch gum block. The 1908 contracts, the last two, called for a 4-inch by 4-inch hard pine block.

The asphalt pavement laid this year was confined to the resurfacing of several small areas of old asphalt streets, with the exception of Cooper street, which was awarded last year. The asphalt patching was advertised and awarded to the lowest bidder, the Warren Brothers Company being the successful contractors.

#### CRUSHED STONE.

In previous years the crushed stone used by the division was produced wholly by the city crushers at a cost considerably in excess of what it could be bought for in the open market. This condition having been shown clearly, it was decided to dispense with the city crushing plants located on leased ledges, and five (5) were sold to the highest bidders. There are now three (3) plants which are located on city property and still used by the city, one at Codman street, Dorchester, one at Chestnut Hill avenue, Brighton and one at Dimock street, Roxbury.

#### STEAM ROLLERS.

Eleven 15-ton and one 3-ton steam rollers constitute the steam roller outfit of the division. These rollers were overhauled during the winter, the necessary-repairs made, painted, etc., and turned out for the season's work in good condition. As these rollers do a great deal of picking in the repair of the macadam, the constant shake and jar loosen the bolts and wear the bearings unevenly, so that after a season's use there is quite an amount of work to be done to put them in proper repair.

#### PERSONAL PROPERTY.

The personal property of the division, consisting of tools, hardware, appliances, etc., is in fair condition, the report at the end of the year showing a valuation in the neighborhood of \$63,000.

## YARD AND WHARF ROOM.

Each district is well provided for in the matter of yard room, the North Yard particularly having an excess in two locations, one at Hecht's wharf and one at Burnham's wharf, which are very expensive and could be dispensed with without detriment to the division. The property occupied by the division for yards, stables, etc., is owned by the city, with the exception of the East Boston and South Boston districts, which are leased.

## GENERAL WORK.

The division force has been employed on the general work of maintenance, such as paving, macadam reconstruction, edgestone and sidewalk construction, new and old, and fence and bulkhead repairs, as follows:

Macadam resurfacing . . . . .	419,824 square yards.
Edgestone set (new) . . . . .	12,818 linear feet.
Edgestone reset . . . . .	11,216 linear feet.
Granite block paving, gravel base and joints . . . . .	32,656 square yards.
Granite block paving, gravel base and joints (new) . . . . .	943 square yards.
Brickwalks (new) . . . . .	3,319 square yards.
Brickwalks relaid . . . . .	6,736 square yards.
Crushed stonewalks . . . . .	1,534 square yards.
Excavation . . . . .	2,148 square yards.

These quantities do not include a great number of small areas patched in the macadam surface and pavement on which exact measurements cannot very readily be obtained, as well as pieces of edgestone reset in different places in connection with gutter paving, etc.

Under the provisions of chapter 323 of the Acts of 1891, and the acts in amendment thereof and addition thereto, twenty-five new streets were constructed.

Respectfully submitted,

JAMES H. SULLIVAN,  
*Deputy Superintendent.*



	Old (reset).	New (first setting).
Edestones set . . . . .	17,489 linear feet.	23,573 linear feet.
Concrete base laid . . . . .	10,220 square yards.	1,043 square yards.
Granite block paving laid, on a concrete base, with pitch and pebble joints . . . . .	1,984 "	11,744 "
Granite flagging laid, on a concrete base, with pitch and pebble joints . . . . .	97 "	491 "
Granite block paving laid, on a gravel base, with gravel joints . . . . .	14,080 "	7,204 "
Granite flagging laid, on a gravel base, with gravel joints . . . . .	292 "	570 "
Wood block pavement laid . . . . .		4,549 "
Asphalt surface laid . . . . .	4,441 square yards.	
Asphalt patching . . . . .	9,050 "	
Brick sidewalks laid . . . . .	6,647 "	4,466 "
Artificial stone sidewalks laid . . . . .	1,489 "	21,585 "
Crushed stone sidewalks laid . . . . .	404 "	7,383 "
Loam furnished and laid . . . . .		4,323 "
Telford base laid . . . . .		41 "
Macadam surface placed . . . . .	4,320 square yards.	30,543 "
Vitrified brick paving laid on a concrete base (crosswalks) . . . . .		287 "
Vitrified brick paving laid on a gravel base (gutters) . . . . .		3,591 "
Artificial stone curbing laid . . . . .	100 linear feet.	8 linear feet.
Coal-tar concrete sidewalk laid . . . . .	2,431 square yards.	
Granitoid blocked pavement laid . . . . .		946 square yards.
"Tarvia" furnished and applied . . . . .		41,538 "
Rubble wall built . . . . .		325 cubic yards.
Portland cement retaining wall built . . . . .		108 linear feet.

### Total of the Amount of Work Done by the Street Department Forces.

	Old, Linear Feet.	New, Linear Feet.	Old, Square Yards.	New, Square Yards.	Square Yards.	Cubic Yards.
Macadam . . . . .					419,824	
Edestone . . . . .	11,216	12,818				
Granite block paving on a gravel base, with gravel joints . . . . .			32,656	943		
Brick sidewalks . . . . .			6,736	3,319		
Crushed stone sidewalks . . . . .					1,534	
Excavation . . . . .						2,148

The following is a description of the most important work done during the year, under the supervision of the Chief Engineer.

#### PAVING.

A street, from Congress street to 175 feet south of Binford street, about 1,610 feet in length, was repaved with large granite blocks on a six (6) inch Portland cement concrete base, with pitch and pebble joints, by the F. S. & A. D. Gore Corporation, under contract, who also did the excavating and regulating. The old paving blocks were hauled away by the contractor; some to Lexington street, East Boston; some to the Massachu-

setts avenue lot; some to City square Charlestown; and some were sold to the contractor. The bricks, flagging and edgestone were furnished by the city on the line of the work. The crushed stone for the concrete was furnished by the city at the Columbia road crusher and was hauled by the contractor. The new paving blocks and the cement for the concrete were furnished by the contractor. The former surface was granite blocks on a gravel base, with gravel joints, and was in a very bad condition.

*Bromfield street*, from Tremont street to Washington street, about 515 feet in length, was repaved with large granite blocks on a six (6) inch Portland cement concrete base, with pitch and pebble joints. The work was done under contract by John I. Fitzgerald, who also did the excavating and regulating. The crushed stone for the concrete was furnished by the city and hauled by the contractor. The paving bricks were furnished by the city on the line of the work. The new paving blocks, flagging and other materials, necessary for the paving and concrete base, were furnished by the contractor. The old paving blocks and flagging were hauled to the North End Yard and to the Revere Street Yard, by the contractor. The former surface was granite blocks on a gravel base.

*Chelsea street*, from forty (40) feet south of Scott's court to Chelsea bridge south, about 393 feet in length, was repaved, with the exception of the track location, with the existing granite blocks on a gravel base, with gravel joints, by Cornelius J. Duggan, under contract, who also did the excavating and regulating. This work was necessitated by a general settlement of the street.

*Eliot street*, from Tremont street to Pleasant street, about 707 feet in length, was repaved with new large granite blocks on a six (6) inch Portland cement concrete base, with pitch and pebble joints. The work was done, under contract, by John I. Fitzgerald, who also did the excavating and regulating. The existing concrete base was cleaned off and brought to the proper grade for the new pavement with Portland cement concrete. The old paving blocks were hauled to the Albany Street Yard by the contractor. The crushed stone for the concrete base was furnished at the Columbia road crusher and hauled by the contractor. The new paving blocks and the cement for the concrete base were furnished by the contractor. The edgestone and flagging were furnished by the city at the South End Paving Yard and hauled by the contractor. The sidewalk bricks were furnished by the city on the line of the work. The former pavement was granite block on a concrete base, from the rail to the edgestone, with pitch joints. The track location was formerly paved on a gravel base, with gravel joints and was repaved on a concrete base by the Boston Elevated Railway Company.

*Kneeland street*, from Washington street across Harrison avenue, about 416 feet in length, was repaved with new large granite blocks, on a six (6) inch Portland cement concrete base,

with pitch and pebble joints. The work was done, under contract, by John Donley Company, who also did the excavating and regulating. The old paving blocks were removed and hauled to Lawn street, Roxbury, and to the Massachusetts avenue lot, by the contractor. The new paving blocks and the cement for the concrete base were furnished by the contractor. The edgestone and flagging were furnished by the city at the South Yard and were hauled by the contractor. The crushed stone for the concrete base was furnished by the city at the Columbia road crusher and hauled by the contractor. The sidewalk bricks were furnished by the city on the line of the work. The track area was paved by the Boston Elevated Railway Company. The former pavement was granite blocks on a gravel base with gravel joints.

*Court street*, from Cornhill to Sudbury street, about 530 feet in length, and Hanover street, from Scollay square northeasterly, about 65 feet in length, were repaved with new large granite blocks on a six (6) inch Portland cement concrete base, with pitch and pebble joints. The work was done, under contract, by John I. Fitzgerald, who also did the excavating and regulating. The old paving blocks and flagging were hauled to the South Yard and to the Massachusetts avenue lot by the contractor. The crushed stone for the concrete base was furnished by the city at the Columbia road crusher and hauled by the contractor. The sidewalk bricks were furnished by the city on the line of the work. The new paving blocks and new flagging were furnished by the contractor. The track area was paved by the Boston Elevated Railway Company. The former pavement was granite blocks on a gravel base.

*Summer street*, from the bridge over A street to the bridge over the N. Y., N. H. & H. Railroad, about 372 feet in length, was repaved with the existing granite blocks on a gravel base with gravel joints. The work was done, under contract, by James P. Collins, who also did the necessary regulating. This work was necessitated by a settlement of the roadway, which was repaved from the tracks of the elevated company to the edgestone, nothing being done between the tracks. The plank sidewalk was relaid by the Street Department force.

#### ASPHALT.

*Beacon street*, from Brimmer street, across Arlington street, about 364 feet in length, was resurfaced by Jones & Meehan, under a ten (10) year maintenance guarantee, with two (2) inches of American rock asphalt wearing surface and one (1) inch of asphaltic cement binder upon the existing concrete base, which was cleaned off and brought to within three (3) inches of the finished surface of the roadway with Portland cement concrete or asphaltic cement binder. The contractor also did the regulating required.

*Cooper street*, from Washington Street North, across Endicott street, about 243 feet in length, was resurfaced by the Barber Asphalt Paving Company, under a ten (10) year maintenance guarantee, with one and one-half ( $1\frac{1}{2}$ ) inches of Trinidad asphalt wearing surface and one and one-half ( $1\frac{1}{2}$ ) inches of bituminous concrete binder upon the existing concrete base, which was cleaned off and brought to within three (3) inches of the finished surface of the roadway with Portland cement concrete. The old base had been badly cut up on account of the many trenches dug in the street and it required considerable new concrete to bring it to the proper grade. The regulating of the edgestone, brick sidewalks and flagging was done by the contractor. The sidewalk bricks were furnished by the city on the line of the work.

*Corning street*, from Washington street to Shawmut avenue, about 338 feet in length, was resurfaced by the Warren Brothers Company, under a ten (10) year maintenance guarantee, with one and one-half ( $1\frac{1}{2}$ ) inches of Acme asphalt wearing surface and one and one-half ( $1\frac{1}{2}$ ) inches of bituminous concrete binder upon the existing concrete base, which was cleaned off and brought to within three (3) inches of the finished surface of the roadway with Portland cement concrete base. The contractor also did the excavating and regulating. The sidewalk bricks were furnished by the city on the line of the work. The former surface was Trinidad asphalt on a six (6) inch concrete base.

*Kilby street*, between Central street and Milk street, about 375 feet in length, was resurfaced by Jones & Meehan, under a ten (10) year maintenance guarantee, with two (2) inches of American rock asphalt wearing surface and one (1) inch of asphaltic cement binder upon the existing concrete base, which was cleaned off and brought to within three (3) inches of the finished surface of the roadway with Portland cement concrete or asphaltic cement binder. The contractor also did the regulating required. The former surface was Trinidad asphalt on a six (6) inch concrete base.

#### WOOD BLOCK PAVING.

*Church street*, from Boylston street to Providence street, about 160 feet in length, was paved with wood blocks on a six (6) inch Portland cement concrete base, with cement grout bed and joints, by the United States Wood Preserving Company, under a ten (10) year maintenance guarantee. The track area was paved by the Boston Elevated Railway Company. The regulating of the edgestones and sidewalks was done by the contractor. The sidewalk bricks were furnished by the city on the line of the work. The old paving blocks were hauled by the contractor to the South Yard and to the Massachusetts avenue lot. The former pavement was granite blocks on a gravel base with gravel joints.

*Providence street*, from the west side of Church street 170 feet easterly, was paved with wood blocks on a six (6) inch Portland cement concrete base, with cement grout bed and joints, by the United States Wood Preserving Company, under a ten (10) year maintenance guarantee. The track area was paved by the Boston Elevated Railway Company. The regulating of the edgestones and sidewalks was done by the contractor. In the rear of Hotel Thorndike the brick sidewalk was replaced with flagging laid in cement mortar. The old paving blocks were hauled by the contractor to the South Yard and to the Massachusetts avenue lot. The former pavement was granite blocks on a gravel base with gravel joints.

*Summer street*, between Washington street and Hawley street, about 240 feet in length, was paved with wood blocks on the existing concrete base, which was cleaned off and brought up to the proper grade with Portland cement concrete, with cement grout bed and joints, by the United States Wood Preserving Company, under a ten (10) year maintenance guarantee. The track area was paved by the Boston Elevated Railway Company. The contractor also laid a vitrified brick crosswalk at Washington street and the bricks for the same were furnished by the city on the line of the work. The old paving blocks were hauled by the contractor to the South Yard and to the Massachusetts avenue lot. The former pavement was granite blocks on a concrete base with grout joints. The sum of six hundred and fifteen dollars (\$615) has been charged to the Transit Commission as its proportionate share of the expense of repaving this street.

*Washington street*, from Cornhill to about 78 feet south of Court avenue, about 513 feet in length, and State street, on the north side of the Old State House, about 117 feet in length, and State street, on the south side of the Old State House, about 123 feet in length, were paved with wood blocks, on a six (6) inch Portland cement concrete base, with cement grout bed and joints, by James Doherty, under a ten (10) year maintenance guarantee. The track area was paved by the Boston Elevated Railway Company. This work is a continuation of the work done last year on Washington street, thus completing the laying of the wood block from Beach street to Cornhill, all of which work was necessitated on account of the work done in connection with the building of the Washington Street Tunnel. The regulating was done at the expense and under the supervision of the Transit Commission. The old paving blocks and flagging were hauled by the contractor to the South Yard and to the Massachusetts avenue lot. The former pavement was granite blocks on a concrete base with pitch and pebble joints, but on account of the tunnel operations this pavement was taken up and the roadway was temporarily repaved with granite blocks on a gravel bed. The sum of four thousand eight hundred sixty-seven and eighty one-hundredths

dollars (\$4,867.80) has been charged to the Transit Commission as its proportionate share of the expense of repaving these streets.

*West street*, from Washington street to Tremont street, about 470 feet in length, was paved with wood blocks on the existing concrete base, which was cleaned off and brought up to the proper grade with Portland cement concrete, with cement grout bed and joints, by the United States Wood Preserving Company, under a ten (10) year maintenance guarantee. The old paving blocks were hauled by the contractor, some to Lexington street, East Boston; some to the East Boston Paving Yard, and the balance to the Massachusetts avenue lot. A vitrified brick crosswalk was laid by the contractor at Washington street, the bricks for the same being furnished by the city on the line of the work. The former pavement was granite blocks on a concrete base with grout joints.

#### GRANITOID CONCRETE BLOCKED PAVEMENT.

This is a patent pavement composed of crushed stone and Portland cement. It is laid seven (7) inches deep and consists of five and one-quarter ( $5\frac{1}{4}$ ) inches of concrete and one and three-quarters ( $1\frac{3}{4}$ ) inches of surface blocking. The concrete is composed of one (1) part Portland cement, three (3) parts sand and four (4) parts of crushed stone. After the concrete has been placed, and before it has begun to set, there is deposited thereon the Granitoid blocking, which is composed of two (2) parts of Portland cement and three (3) parts of fine hard crushed stone. After the initial set this is worked into brick shapes of approximately four and one-half ( $4\frac{1}{2}$ ) inches by nine (9) inches, having rectangular surface similar to paving blocks. An expansion joint of composition is made across the street at such intervals as may be necessary. This pavement was laid by the Rudolph S. Blome Company, under a five (5) year maintenance guarantee, in *Zeigler street*, between Washington street and Warren street, about 315 feet in length. The contractor did the excavating and furnished the materials for the pavement. The surplus material was hauled by the contractor to the Dimock street lot. The regulating was done by the city. The former surface of the street was macadam.

#### ASSESSMENT STREETS.

The following streets have been constructed or are in the process of construction under the provisions of chapter "323" of the Acts of 1891, and the acts in amendment thereof or in addition thereto. *Ashland street*, from Mill street to Everdean street, is about 289 feet in length. The contract for constructing the surface of this street was awarded to Philip Doherty November 19, 1907. Work was begun June 1, 1908, and

completed June 18, 1908. It is a thirty-eight (38) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks, granite edgestone and seven (7) foot crushed stone sidewalks. The existing macadam roadway and crushed stone sidewalks were found to be in good condition and required only reshaping to conform with the present construction. The straight edgestones and flagging were furnished by the city and hauled by the contractor. The circular edgestone and paving blocks were furnished by the city on the line of the work. The crushed stone and screenings for reshaping were furnished by the contractor.

*Avenue Louis Pasteur*, between the Fenway and Longwood avenue, about 1,371 feet in length, is being filled in and graded. The filling is obtained from various sources. William J. Barry, under his contract dated October 2, 1908, is at present delivering filling. A large part of the fill is over low, marshy ground, and on account of the consequent settlement the work proceeds rather slowly.

*Bayswater street*, from Saratoga street, across Austin avenue, is about 1,120 feet in length. The contract for constructing the surface of this street was awarded to James Doherty October 8, 1907. Work was begun October 15, 1907, and suspended December 6, 1907. It was resumed March 26, 1908, and completed April 2, 1908. It is a fifty (50) foot street with a 6-inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks, granite edgestones and eight (8) foot crushed stone sidewalks. The work this season consisted principally of completing the macadam roadway and crushed stone sidewalks, the crushed stone for the same being furnished by the contractor.

*Bellevue street*, from Hamilton street to Kane street, is about 493 feet in length. The contract for constructing the surface of this street was awarded to John McCourt November 23, 1907. Work was begun April 18, 1908, and completed July 16, 1908. The greater part of this street is thirty-five (35) feet in width, with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks, granite edgestone and six (6) foot crushed stone sidewalks. A small part of the street is forty (40) feet in width, with seven (7) foot sidewalks, and is of the same construction as above. The straight edgestone and flagging were furnished by the city and hauled by the contractor. The circular edgestone and paving blocks were furnished by the city on the line of the work. The crushed stone and screenings were furnished by the contractor.

*Bernard street*, from Talbot avenue to the New England Railroad, is about 946 feet in length. The contract for constructing the surface of this street was awarded to William J. Barry June 23, 1908. Work was begun June 30, 1908, and completed September 9, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot brick block gutters, brick crosswalks on a concrete base with grout joints,

granite edgestones and seven (7) foot crushed stone sidewalks. The edgestone, bricks for crosswalks and gutters, sand, cement and crushed stone for the concrete base for crosswalks, paving blocks for brows of crosswalks and the crushed stone for the roadway and sidewalks were furnished by the contractor.

*Bruce street*, from Dracut street to Wrentham street, is about 135 feet in length. The contract for constructing the surface of this street was awarded to Daniel E. Lynch November 11, 1907. Work was begun November 29, 1907, and suspended December 26, 1907. It was resumed July 23, 1908, and completed September 2, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks, granite edgestones and seven (7) foot crushed stone sidewalks. The work done this season consisted of completing the roadway and the crushed stone sidewalks, the crushed stone for the same being furnished by the city and hauled by the contractor.

*Corona street*, from Bowdoin street to Geneva avenue, is about 1,001 feet in length. The contract for constructing the surface of this street was awarded to William J. Barry June 23, 1908. Work was begun August 7, 1908, and completed October 14, 1908. It is a thirty-five (35) foot street with a six (6) inch macadam roadway, three (3) foot brick gutters, brick and flagging crosswalks and six (6) foot artificial stone sidewalks. The new edgestone, brick blocks and crushed stone were furnished by the contractor. Such of the existing material on the street as was found suitable was used in the present construction. The contract for constructing the artificial stone sidewalks was awarded to Jeremiah J. Sullivan September 3, 1908. Work was begun October 28, 1908, and suspended December 19, 1908. The sidewalk on the south side was completed for nearly the entire length of the street. The remaining sidewalks were excavated and filled with cinders and left in a passable condition for the winter. Work will be resumed early in the spring.

*Cottage street*, from Maverick street across Gove street, is about 630 feet in length. The contract for constructing the surface of this street was awarded to James Doherty November 14, 1907. Work was begun April 23, 1908, and suspended May 28, 1908. It was resumed July 28, 1908, and completed July 31, 1908. It is a fifty (50) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks and granite edgestone. The sidewalks, which are eight (8) feet in width, are of brick except along the playground, where they are of crushed stone. The edgestone, paving blocks and sidewalk bricks were furnished by the city on the line of the work. The flagging was furnished by the city and hauled by the contractor. The crushed stone for the macadam and sidewalks was furnished by the contractor.

*Cotton street*, from Walter street to Fairview street, is about 721 feet in length. The contract for constructing the surface



of this street, with the exception of the artificial stone sidewalks, was awarded to Peter F. Connolly July 3, 1908. Work was begun July 16, 1908, and suspended August 24, 1908. It was resumed October 2, 1908, and completed October 22, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot brick block gutters, brick and flagging crosswalks and granite edgestone. The sidewalks, seven (7) feet in width, have an artificial stone walk four and one-half ( $4\frac{1}{2}$ ) feet wide and a seeded loam space 1 foot 11 inches wide. The edgestone, bricks for crosswalks and gutters, sand, cement and crushed stone for concrete base for brick crosswalks, paving blocks for brows to crosswalks and the crushed stone for the roadway were furnished by the contractor. The contract for constructing the artificial stone sidewalks was awarded to Thomas A. Nolan July 23, 1908. Work was begun August 18, 1908, and completed September 15, 1908. These walks are laid under a ten (10) year maintenance guarantee. Underdrains were laid connecting the cinder foundation of the walks with the catch-basins, the object being to prevent the accumulation of water at the low end of the walks and a consequent upheaval which might be occasioned by the action of frost in the ground.

*Dakota street*, from Greenbrier street to Geneva avenue, is about 1,453 feet in length. The contract for constructing the surface of this street, with the exception of the artificial stone sidewalks, was awarded to William J. Barry June 23, 1908. Work was begun July 20, 1908, and completed October 15, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot brick block gutters, brick and flagging crosswalks, granite edgestone and seven (7) foot artificial stone sidewalks. The new edgestone, brick blocks and the crushed stone were furnished by the contractor. Such of the existing material on the street as was found suitable was used in the present construction. The contract for constructing the artificial stone sidewalks was awarded to Jeremiah J. Sullivan September 16, 1908. Work was begun October 12, 1908, and completed November 28, 1908. These sidewalks are laid under a ten (10) year maintenance guarantee.

*Everdean street*, from Ashland street to Green Hill street, is about 397 feet in length. The contract for constructing the surface of this street was awarded to John W. Collins November 29, 1907. Work was begun May 11, 1908, and completed June 20, 1908. It is a forty (40) foot street with a macadam roadway, three (3) foot granite block gutters, flagging crosswalks, granite edgestone and eight (8) foot crushed stone sidewalks. The existing macadam roadway and crushed stone sidewalks were found to be in good condition and were allowed to remain. The straight edgestone and flagging were furnished by the city and hauled by the contractor. The circular edgestone and the paving blocks were furnished by the city on the line of the work.

*Everdean street*, from Green Hill street to Preston street, is about 411 feet in length. The contract for constructing the surface of this street was awarded to Philip Doherty November 19, 1907. Work was begun March 31, 1908, and completed June 20, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks and granite edgestone. The sidewalks are nine (9) feet wide on the east side of the street and nine and one-half ( $9\frac{1}{2}$ ) feet wide on the west side. This arrangement was made in order to preserve several large shade trees. The straight edgestone and flagging were furnished by the city and hauled by the contractor. The paving blocks and circular edgestone were furnished by the city on the line of the work. The crushed stone was furnished by the contractor.

*Evergreen street*, from South Huntington avenue about 443 feet easterly, is about 456 feet in length. The contract for grading this street was awarded to Maik H. Lynch December 11, 1908. Work was begun December 16, 1908, and at the present time it is about two-thirds ( $\frac{2}{3}$ ) done. The work consists of cutting through two (2) good sized hills, a large part of which are rock, and filling the low sections of the street, so that when the work is finished the street will have been graded to the proper sub-grade, ready for construction.

*Frankfort street*, from Maverick street across Gove street, is about 608 feet in length. The contract for constructing the surface of this street was awarded to James Doherty November 14, 1907. Work was begun April 3, 1908, and completed May 29, 1908. It is a fifty (50) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks and granite edgestone. The sidewalks, eight (8) feet in width, are of brick except along the playground, where they are of crushed stone. The edgestone was furnished by the city, part of which was hauled by the contractor and part delivered on the line of the work by the city. The paving blocks and sidewalk bricks were furnished by the city on the line of the work. The flagging was furnished by the city and hauled by the contractor. The crushed stone for the roadway and sidewalks was furnished by the contractor.

*Harlem street*, from Glenway street to Greenwood street, is about 582 feet in length. The contract for constructing the surface of this street, with the exception of the artificial stone sidewalks and curbs, was awarded to James Doherty June 22, 1908. Work was begun August 10, 1908, and completed September 19, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot brick block gutters, brick crosswalks on a concrete base with grout joints. Granite edgestone was set at the Greenwood street end of this street. The existing artificial stone sidewalks and curb were allowed to remain. The edgestone, bricks for gutters and crosswalks, cement, sand and crushed stone for the concrete base for the

crosswalks, and the crushed stone for the roadway were furnished by the contractor.

*Kilton street*, from Harvard street to Park street, is about 842 feet in length. In connection with the work of constructing this street about 105 feet of Athelwold street was rebuilt to conform to the new grade. The contract for constructing the surface of these streets was awarded to Philip Doherty October 8, 1907. Work was begun October 16, 1907, and suspended December 14, 1907. It was resumed May 2, 1908, and completed May 6, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks, granite edgestone and seven (7) foot crushed stone sidewalks. On a part of this street artificial stone sidewalks seven (7) feet in width had been built previous to construction. These were in good condition and were allowed to remain. The straight edgestone and flagging were furnished by the city and hauled by the contractor. The circular edgestone, paving blocks and crushed stone were furnished by the city on the line of the work.

*Larchmont street*, from Waldeck street to Greenbrier street, is about 1,077 feet in length. The contract for constructing the surface of this street, with the exception of the artificial stone sidewalks, was awarded to the D. E. Coleman Company November 1, 1907. Work was begun April 9, 1908, and suspended May 30, 1908. It was resumed July 14, 1908, and completed July 17, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks, granite edgestone and seven (7) foot sidewalks, four and a half ( $4\frac{1}{2}$ ) feet of which is artificial stone and the balance loam space. The straight edgestone and flagging were furnished by the city and hauled by the contractor. The circular edgestone and the paving blocks were furnished by the city on the line of the work. The crushed stone was furnished by the contractor. The contract for constructing the artificial stone sidewalks was awarded to Warren Brothers Company November 29, 1907. Work was begun June 9, 1908, and completed July 14, 1908. These sidewalks were laid under a ten (10) year maintenance guarantee.

*Larkin street*, from Adams street to Hampden street, is about 313 feet in length. The contract for constructing the surface of this street was awarded to William J. Rafferty & Co. June 22, 1908. Work was begun June 30, 1908, and completed August 15, 1908. It is a twenty (20) foot street with a six (6) inch macadam roadway with three (3) foot brick block gutters and brick crosswalks. The sidewalks are three and one-half ( $3\frac{1}{2}$ ) feet in width and are paved with brick. Such of the existing material on the street as was found in good condition was used in the present construction. The new edgestone, brick blocks, sidewalk bricks and crushed stone were furnished by the contractor.

*Lincoln street*, Brighton, at the corner of Cambridge street, was widened on the southerly corner and a large circle of edge-

stone was put in. The work done consisted in filling, setting the edgestone, extending the crosswalk, paving the gutter and resurfacing the roadway and sidewalks, all of which was done by the Street Department forces.

*Mapleton street*, from Market street to Murdock street, is about 1,714 feet in length. The contract for constructing the surface of this street was awarded to Coyle & Clark July 6, 1907. Work was begun August 16, 1907, and suspended January 10, 1908. It was resumed April 28, 1908, and completed June 27, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot brick block gutters, brick crosswalks on a concrete base, granite edgestone and seven (7) foot crushed stone sidewalks. The edgestone, bricks for gutters and crosswalks and the crushed stone were furnished by the city and hauled by the contractor.

*Mallet street*, from Florida street to Adams street, is about 730 feet in length. The contract for constructing the surface of this street, with the exception of the artificial stone sidewalks, was awarded to Timothy F. Bradley September 3, 1907. Work was begun September 17, 1907, and suspended November 15, 1907. It was resumed May 11, 1908, and completed May 19, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks, granite edgestone and seven (7) foot sidewalks, four and one-half ( $4\frac{1}{2}$ ) feet of which is artificial stone and the balance loam space. The straight edgestone, flagging and crushed stone were furnished by the city and hauled by the contractor. The circular edgestone and paving blocks were furnished by the city on the line of the work. The contract for constructing the artificial stone sidewalks was awarded to Simpson Brothers Corporation November 14, 1907. Work was begun November 21, 1907, and suspended December 3, 1907. It was resumed April 22, 1908, and finished October 24, 1908. These sidewalks are laid under a ten (10) year maintenance guarantee.

*Norwood street*, from Tolman street to about 444 feet northwesterly. The contract for constructing the surface of this street was awarded to Philip Doherty November 19, 1907. Work was begun December 4, 1907, and suspended December 12, 1907. It was resumed March 30, 1908, and finished May 19, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks, granite edgestone and seven (7) foot crushed stone sidewalks. The straight edgestone and flagging were furnished by the city and hauled by the contractor. The circular edgestone and paving blocks were furnished by the city on the line of the work. The crushed stone was furnished by the contractor. A wooden fence was built across the northerly end of the street, the material for which being furnished by the contractor.

*Norton street*, from Bowdoin street to Speedwell street, is about 530 feet in length. The contract for constructing the

surface of this street, with the exception of the artificial stone sidewalks, was awarded to the D. E. Coleman Company November 1, 1907. Work was begun May 5, 1908, and completed July 20, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks, granite edgestone and seven (7) foot artificial stone sidewalks. The straight edgestone and flagging were furnished by the city and hauled by the contractor. The circular edgestone and paving blocks were furnished by the city on the line of the work. The crushed stone was furnished by the contractor. The contract for constructing the artificial stone sidewalks was awarded to the W. A. Murtfeldt Company July 15, 1908. Work was begun August 4, 1908, and completed August 31, 1908. These sidewalks were laid under a ten (10) year maintenance guarantee.

*Parkview street*, from Seaver street to Hutchings street, is about 403 feet in length. The contract for constructing the surface of this street, with the exception of the artificial stone sidewalks, was awarded to R. L. Barrett November 11, 1907. Work was begun November 13, 1907, and suspended December 19, 1907. It was resumed April 13, 1908, and completed April 30, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks and artificial stone sidewalks seven (7) feet in width. The straight edgestone and flagging were furnished by the city and hauled by the contractor. The circular edgestone and paving blocks were furnished by the city on the line of the work. The crushed stone was furnished by the contractor. The contract for constructing the artificial stone sidewalks was awarded to Robert Eagar, Jr., May 26, 1908. Work was begun June 20, 1908, and completed July 7, 1908. These sidewalks were laid under a ten (10) year maintenance guarantee.

*Samoset street*, from Welles avenue to Centre street, is about 875 feet in length. The contract for constructing the surface of this street, with the exception of the artificial stone sidewalks, was awarded to D. E. Coleman Company November 1, 1907. Work was begun November 13, 1907, and suspended December 14, 1907. It was resumed April 1, 1908, and completed April 13, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks, granite edgestone and seven (7) foot sidewalks, four and one-half ( $4\frac{1}{2}$ ) feet of which is artificial stone and the balance loam space. The straight edgestone and flagging were furnished by the city and hauled by the contractor. The paving blocks were furnished by the city on the line of the work. The crushed stone was furnished by the contractor. The contract for constructing the artificial stone sidewalks was awarded to Jeremiah J. Sullivan May 26, 1908. Work was begun June 2, 1908, and completed June 24, 1908. These sidewalks were laid under a ten (10) year maintenance guarantee.

*Speedwell street*, from Topliff street to Hamilton street, is about 735 feet in length. The contract for constructing the surface of this street, with the exception of the artificial stone sidewalks, was awarded to William Barrett October 9, 1907. Work was begun October 15, 1907, and suspended December 14, 1907. Work was resumed May 11, 1908, and completed May 16, 1908. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, flagging crosswalks, granite edgestone and seven (7) foot sidewalks, four and one-half ( $4\frac{1}{2}$ ) feet of which is artificial stone and the balance loam space. The straight edgestone and flagging were furnished by the city and hauled by the contractor. The circular edgestone, paving blocks and crushed stone were furnished by the city on the line of the work. The contract for constructing the artificial stone sidewalks was awarded to Warren Brothers Company October 31, 1907. Work was begun November 13, 1907, and suspended December 14, 1907. It was resumed May 5, 1908, and completed May 16, 1908. These sidewalks were laid under a ten (10) year maintenance guarantee.

*South Huntington avenue*, from Huntington avenue, across Heath street, is about 1,148 feet in length. The contract for constructing the surface of this street was awarded to William J. Barry November 13, 1907. Work was begun March 16, 1908, and completed June 20, 1908. It is an eighty (80) foot street with a six (6) inch macadam roadway on each side of the car tracks, three (3) foot granite block gutters, flagging crosswalks, granite edgestone, and brick, crushed stone and artificial stone sidewalks thirteen (13) feet in width. This street was formerly a part of Heath street and was about fifty (50) feet wide. A widening was made on the westerly side. The circular edgestone, paving blocks and sidewalk bricks were furnished by the city on the line of the work. The flagging was furnished by the city and hauled by the contractor. The crushed stone for the roadway and sidewalks was furnished by the contractor. A contract for artificial stone sidewalks, to complete the existing artificial stone sidewalks on the easterly side, was awarded to the Simpson Brothers Corporation July 17, 1908. Work was begun July 28, 1908, and completed August 3, 1908. This work was necessitated by the widening of the sidewalks on the easterly side of the street, and the sidewalks were laid under a ten (10) year maintenance guarantee.

*West Fourth street*, South Boston, at the corner of Dorchester avenue, was widened on the northwest corner so as to enable the Boston Elevated Railway Company to lay tracks of a larger radii, in order that larger cars could be used. The work done was to put in a large radius curve of granite edgestone, cut back the street line, thus widening the sidewalk, repave the street corner and rebuild the catch-basin, all of which was done by the Street Department forces.

## GENERAL.

*Esmond street*, from Blue Hill avenue to Bradshaw street, is about 920 feet in length. The contract for resetting the edgestone and relaying the granite block gutters was awarded to Daniel E. Lynch October 20, 1908. Work was begun October 26, 1908, and completed December 17, 1908. Under an extension of this contract the loam spaces were resodded.

*Gainsborough street*, from St. Stephens street to Hemenway street, is about 714 feet in length. The contract for relaying the artificial stone sidewalks, resetting the edgestones and relaying the granite block gutters, was awarded to Robert Eagar, Jr., June 29, 1908. Work was begun July 13, 1908, and completed August 10, 1908. The sidewalks were laid under a ten (10) year maintenance guarantee. This work was necessitated by the settlement of the street, the existing walks having settled so much that they were broken up and in a dangerous condition.

*Kenney street ledge lot*. In accordance with the terms of a lease entered into by the city and James W. Kenney, dated June 7, 1902, the city agreed to leave the premises at a level not lower than the land on the northerly side of the lot. On a part of the lot, rock had been quarried to a level somewhat lower. A contract to fill the lot to the required grade was awarded to Patrick F. Donovan February 14, 1908. Work was begun February 19, 1908, and completed August 29, 1908. There were 4,657 cubic yards of filling, furnished and placed by the contractor.

*Lawn street*, from Heath street to another part of Heath street, is about 1,454 feet in length. The contract for setting the edgestone and paving the gutters was awarded to the Tri-mount Contracting Company December 10, 1907. Work was begun August 26, 1908, and completed September 26, 1908. A small area of brick sidewalk was laid. The edgestone, gutter blocks and sidewalk bricks were delivered by the city on the line of the work.

*Old Colony avenue* (and parts of D and West Ninth streets), from Dorchester avenue to Dorchester street, is about 2,528 feet in length. The contract for constructing the surface of this street was awarded to the Fred S. & A. D. Gore Corporation October 1, 1908. Work was begun October 14, 1908. When completed it will be an eighty (80) foot street with a six (6) inch macadam roadway, four (4) foot granite block hip gutters, flagging crosswalks and gravel sidewalks, twelve (12) feet in width. With the exception of the widening on the westerly side, this was the former roadbed of the Old Colony Railroad. The work done this season consisted of rough grading, taking down old retaining walls and building dry rubble retaining walls on D street, West Ninth street and on Old Colony avenue near Dorchester street.

*Summer street*, north side, between Melcher street and A street, is about 276 feet in length. The contract for relaying

artificial stone sidewalk, resetting the edgestone and repaving the street, where necessary, was awarded to Warren Brothers Company November 16, 1908. Work was begun November 28, 1908, and suspended December 17, 1908. The edgestone was reset, the paving done and the cinder foundation laid this fall. The work will be completed early in the spring.

*Worthington street*, in front of the Normal School. The contract for setting the edgestone, laying the gutters, brick sidewalks and loam spaces was awarded to Charles W. Kinney November 11, 1907. Work was begun November 12, 1907, and suspended December 19, 1907. It was resumed April 6, 1908, and completed May 16, 1908. The edgestone, vitrified bricks for the gutter and sidewalk bricks were furnished by the city on the line of the work.

*Roxbury street*, at the estate of H. S. Lawrence. An old wall on the street line, with its top about eight (8) inches below the present surface of the brick sidewalk had been covered with planks. These planks having become loose and rotten, the sidewalk was in a dangerous condition. To permanently remedy this, the old covering was removed and a wide bluestone cap was laid on the wall, flush with the brick sidewalk. A part of the brick sidewalk was also relaid. All the work was done by the Street Department forces.

*Terrace street retaining wall*. The contract for constructing a Portland cement retaining wall, about 108 feet long, at the Park Brewery, was awarded to James Doherty July 24, 1908. Work was begun July 29, 1908, and completed August 10, 1908. The contractor furnished all the materials.

*Allston street*, from Brighton avenue to Commonwealth avenue, is about 1,842 feet long. The work of constructing this street was done by the Street Department force. It is a forty (40) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters, granite edgestone and crushed stone sidewalks, seven (7) feet in width. In doing the subgrading a considerable amount of rock had to be removed.

*Cohasset street*, between Corinth street and Albano street, is about 1,014 feet long. This street was constructed by the Street Department force. It is a thirty-five (35) foot street with a six (6) inch macadam roadway, three (3) foot granite block gutters and six (6) foot crushed stone sidewalks. The roadway which was formerly macadam was resurfaced with about four (4) inches of crushed stone.



## FINANCIAL STATEMENT.

Maintenance appropriation for 1908-09 . . . . .	\$850,000 00	
Amount collected for work done and materials furnished for different departments, companies and individuals, including inspectors' services and sale of crushing plants,* etc. . . . .	* 13,565 09	\$863,565 09
Less amount transferred to Ferry Division . . . . .	\$20,023 32	
Less amount transferred to Lamp Division . . . . .	9,500 00	
Less amount transferred to Treasury Department . . . . .	60 34	
		<u>29,583 66</u>
		\$833,981 43
Expenditures from February 1, 1908, to January 31, 1909 . . . . .		<u>\$833,981 43</u>

## STREET IMPROVEMENTS.

Appropriation for year 1908-09 . . . . .	\$249,000 00	
Amount collected from Boston Transit Commission for work done and materials furnished . . . . .	615 00	\$249,615 00
Unexpended balance February 1, 1908 . . . . .		<u>5,052 31</u>
		\$254,667 31
Expenditures from February 1, 1908, to January 31, 1909 . . . . .		<u>177,566 28</u>
Unexpended balance January 31, 1909 . . . . .		<u>\$77,101 03</u>

## OLD COLONY AVENUE, CONSTRUCTION OF.

Transferred from appropriation for Copley square, betterment and relocation of . . . . .	\$40,000 00	
Expenditures from February 1, 1908, to January 31, 1909 . . . . .	7,577 39	
Unexpended balance January 31, 1909 . . . . .		<u>\$32,422 61</u>

\* Does not include sale of Grove street crushing plant in exchange for 1,000 tons of crushed stone delivered on streets in West Roxbury.

## HIGHWAYS, MAKING OF.

Expenditures from February 1, 1908, to January 31, 1909 . . . . .	\$99,412 74
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## TOTAL EXPENDITURES.

Maintenance appropriation . . . . .	\$833,981 43
Street improvements . . . . .	177,566 28
Old Colony avenue, construction of, . . . . .	7,577 39
Highways, making of . . . . .	99,412 74
	<u>\$1,118,537 84</u>

## INCOME.

Statement showing the amount of bills deposited with the City Collector from February 1, 1908, to January 31, 1909, and credited to General Revenue:

On account of edgestone and sidewalk assessments . . . . .	\$614 79
Sale of horses . . . . .	418 50
Sale of junk and removing abutment walls . . . . .	58 73
Return premium on insurance policy . . . . .	45 12
	<u>\$1,137 14</u>

Amount paid into the city treasury during the year:

On account of edgestone and sidewalk assessments . . . . .	\$6,581 91
Sale of horses . . . . .	418 50
Removing abutment walls . . . . .	51 00
Return premium on insurance policy . . . . .	45 12
	<u>\$7,096 53</u>

Objects of Expenditures from the Regular Appropriation, Classified by Districts, from  
February 1, 1908, to January 31, 1909.

Districts.	Repairs.	Snow.	Edgestone and Sidewalk Repairs.	Repairing Fences.	Repairing Plank Walks.	Schedule A, Miscellaneous.	Schedule B, Street Work.	Schedule C, in Addition to Amount Charged to Appropriation for Street Improvements.	Total.
1. South Boston.....	\$4,336 02	\$4,574 34	\$8,135 25	\$1,169 73	\$132 25	.....	\$6,912 94	\$623 41	\$25,883 94
2. East Boston.....	5,413 91	2,487 49	7,854 80	1,331 88	19 66	.....	581 88	4,289 78	21,979 40
3. Charlestown.....	6,768 94	3,202 88	4,561 73	165 09	97 18	.....	5,752 90	283 97	20,832 69
4. Brighton.....	5,753 56	4,157 60	3,373 52	109 66	6 00	.....	16,089 02	2,278 51	31,767 87
5. West Roxbury.....	10,989 34	8,257 71	2,745 06	1,246 27	268 86	.....	23,370 03	1,637 58	48,514 85
6. Dorchester.....	7,715 98	3,021 98	6,078 18	240 88	.....	.....	16,474 06	3,036 05	36,567 13
7. Roxbury.....	6,714 17	9,451 07	10,369 41	705 54	1,567 80	.....	13,410 28	3,511 30	45,729 57
8. South End.....	13,769 33	7,615 75	10,268 78	1,361 87	.....	.....	17,974 97	5,386 36	56,377 06
9. Back Bay.....	4,023 89	4,213 01	8,428 80	399 81	14 18	.....	10,688 98	10,816 88	38,585 55
10. North End.....	12,850 58	9,182 61	5,590 09	16 22	.....	.....	5,922 01	8,467 37	42,028 88
12. Ashmont.....	2,905 96	1,978 93	2,672 44	640 10	95 00	.....	4,428 08	1,208 71	13,929 22
	.....	.....	.....	.....	.....	\$451,785 27	.....	.....	451,785 27
Totals.....	\$81,241 68	\$58,143 37	\$70,078 06	\$7,387 05	\$2,200 93	\$451,785 27	\$121,605 15	\$41,539 92	\$833,981 43

## SCHEDULE A.

Central office expense . . . . .		\$12,655 81
Salary of superintendent . . . . .	\$5,354 17	
Salaries of office employees . . . . .	5,277 95	
Automobile expense . . . . .	931 03	
Printing and stationery . . . . .	755 08	
Telephone service . . . . .	136 39	
Typewriter . . . . .	95 32	
Traveling expense . . . . .	62 47	
Furniture . . . . .	39 40	
Messenger service . . . . .	1 45	
Sundries . . . . .	2 55	
Salary of Superintendent J. H. Doyle . . . . .		83 33
Salary of Acting Superintendent Wm. Jackson . . . . .		166 67
Salary of deputy superintendent . . . . .		3,486 11
Salaries of office employees . . . . .		13,378 86
Salary of chief engineer . . . . .		3,000 00
Salaries of assistant engineers, etc. . . . .		8,905 26
Salaries of Permit Office employees . . . . .		6,874 43
Salaries of inspectors . . . . .		23,766 78
Salaries of Supply Department employees . . . . .		552 77
Automobile, Superintendent of Streets . . . . .		1,500 00
Automobile, Deputy Superintendent (net) . . . . .		715 00
Automobile expense, including wages of chauffeur, repairs, etc. . . . .		2,802 71
Automobile insurance . . . . .		127 30
Automobile registration . . . . .		5 00
Advertising . . . . .		173 94
Asphalt analysis . . . . .		50 00
Derricks, repairing, etc. . . . .		314 15
Dumping boat service . . . . .		34 75
Expressage and freight charges . . . . .		12 71
Clock repairs . . . . .		12 00
Electrical appliances, labor and stock . . . . .		792 90
Furniture . . . . .		6 00
Fuel and oil . . . . .		3,525 33
Ice . . . . .		81 14
Electric and gas lighting . . . . .		947 89
Messenger service . . . . .		29 00
Newspapers, magazines, etc. . . . .		70 33
Oatmeal . . . . .		106 10
Printing and stationery . . . . .		5,427 99
Rent of towels . . . . .		106 40
Stoves, pipes, grates, etc. . . . .		36 01
Taxes . . . . .		2,207 37
Telephone service . . . . .		1,995 12
Traveling expense . . . . .		414 85
Tallying traffic on bridges . . . . .		56 50
<i>Carried forward . . . . .</i>		<u>\$94,420 51</u>

<i>Brought forward</i> . . . . .	\$94,420	51
Traverse street subway, repairs . . . . .	244	15
Rent of land . . . . .	10,551	46
Engineering supplies and incidentals . . . . .	594	80
Holidays (not including holidays charged on street accounts) . . . . .	41,769	53
Pay allowed injured employees . . . . .	1,199	82
Medical attendance on injured employees . . . . .	1,553	00
Soap for office . . . . .	8	22
Steam roller insurance . . . . .	27	06
Signs and numbers . . . . .	7,563	18
Removing rubbish, Chelsea fire . . . . .	37	75
Removing rubbish, Cambridge street fire . . . . .	20	56
Ladder for Permit Office . . . . .	3	50
Removing night soil . . . . .	15	00
Keys, etc. . . . .	5	45
Testing bricks . . . . .	30	00
Repairing safe . . . . .	16	00
Photographs . . . . .	36	00
Sundries . . . . .	20	75
Tools, new and cost of repairing, etc . . . . .	17,939	19
Executions of court and damages . . . . .	1,135	85
Materials sold and work done for other depart- ments and individuals . . . . .	* 361	20
Snow dump, Dorchester avenue . . . . .	437	50
Harvard Street Bridge, Dorchester, putting up fence . . . . .	110	00
Roxbury street, retaining wall . . . . .	12	50
Artificial stone sidewalks, rebates allowed and repairs . . . . .	9,497	66
Asphalt pavements repaired . . . . .	19,502	26
Crossings, new . . . . .	2,846	14
Crossings repaired . . . . .	1,125	54
Bitulithic pavements repaired . . . . .	101	85
Fences and plank walks, new . . . . .	1,473	20
Edgestones and sidewalks, new . . . . .	12,091	23
Tar concrete sidewalks . . . . .	769	44
Street cleaning . . . . .	80,968	35
Repairing offices, stables, sheds, etc. . . . .	7,678	88
Repairing shanties . . . . .	133	52
Street watering . . . . .	492	00
Sanding icy streets and sidewalks . . . . .	2,071	86
Asphalting carriage wash at Child Street Yard . . . . .	125	00
Veterinary services . . . . .	1,644	69
Expenses of yards and stables, including horses and wagons, cost of caring for horses, repairs to carts, harnesses, etc. . . . .	\$192,585	82
<i>Carried forward</i> . . . . .	\$192,585	82
	\$328,634	60

\*Paid through Collecting Department \$223.89.

<i>Brought forward</i> . . . . .	\$192,585 82	\$328,634 60
Less amount earned by department teams . . . . .	97,166 62	95,419 20
Stock, materials . . . . .	\$49,149 35	
Stock, handling and teaming . . . . .	37,306 11	
	\$86,455 46	
Less stock delivered on streets . . . . .	53,357 21	33,098 25
		<u>\$457,152 05</u>
Steam rollers, cost of operating and repairs . . . . .	\$21,357 02	
Less amount earned by steam rollers . . . . .	22,817 00	
	\$1,459 98	
Crushed stone delivered on streets . . . . .	*\$67,624 80	
Less cost of maintaining and operating crushers . . . . .	63,718 00	
	3,906 80	5,366 78
		<u>\$451,785 27</u>

## SCHEDULE B.

## STREET WORK. PAID OUT OF MAINTENANCE APPROPRIATION.

<i>Albany street</i> , Randolph street to Bristol street, work completed in 1907:		
Hired teams . . . . .		<u>\$376 00</u>
<i>Alford street</i> , from Everett line to drawbridge. Repaved roadway, reset edgestone and relaid brick sidewalks. Length, 832 feet. Area, 2,607 square yards. Relaid 560 square yards sidewalks:		
Labor furnished by the city . . . . .	\$1,754 44	
Teaming furnished by the city . . . . .	323 69	
Gravel furnished by the city . . . . .	238 88	
Lumber furnished by the city . . . . .	55 35	
Bricks furnished by the city . . . . .	15 12	
Cement furnished by the city . . . . .	93	
Sand furnished by the city . . . . .	30	
Nails furnished by the city . . . . .	08	
		<u>\$2,388 79</u>

\* Includes credit of \$1,250 for sale of Grove street crushing plant in exchange for 1,000 tons of crushed stone furnished in West Roxbury.

*Anawan avenue*, from Beech street to the railroad.

Roadway resurfaced with 6-inch macadam.

Length, 708 feet. Area, 2,202 square yards.

Labor furnished by the city . . . . .	\$141 61
Teaming furnished by the city . . . . .	267 75
Water cart furnished by the city . . . . .	33 00
Stone furnished by the city . . . . .	516 56
Gravel furnished by the city . . . . .	13 87
Steam roller . . . . .	104 00

\$1,076 79

*Appleton street*, from Berkeley street to Columbus avenue. Roadway resurfaced with stone picked from street. Length, 1,146 feet. Area, 3,827 square yards.

Labor furnished by the city . . . . .	\$302 62
Teaming furnished by the city . . . . .	24 30
Water cart furnished by the city . . . . .	32 40
Stone dust furnished by the city . . . . .	77 82
Steam roller . . . . .	136 50

\$573 64

*Ashland street*, Elm to Park street. Resurfaced with 6-inch macadam. Length, 355 feet. Area, 790 square yards.

Labor furnished by the city . . . . .	\$54 00
Teaming furnished by the city . . . . .	103 50
Stone furnished by the city . . . . .	233 28
Steam roller furnished by the city . . . . .	39 00

\$429 78

*Beacon street*, from Arlington to Brimmer street. Asphalted with American Rock asphalt and regulated. Length, 364 feet. Area, 1,519 square yards.

Engineering and inspection . . . . .	\$159 75
Advertising . . . . .	14 75
Incidentals . . . . .	20

Amount paid to Jones & Meehan, under contract:

95 linear feet edgestone set  
@ 25c. . . . . \$23 75

1,506 square yards bituminous  
concrete binder and as-  
phalt wearing surface  
furnished and laid @  
\$1.90 . . . . . 2,861 40

12.3 cubic yards extra bitumi-  
nous binder furnished  
and laid @ \$8 . . . . . 98 40

*Carried forward* . . . . . \$2,983 55

\$174 70

<i>Brought forward</i> . . . . .	\$2,983 55	\$174 70
3.3 cubic yards extra cement, concrete base, furnished and laid @ \$6 . . . . .	19 80	
35 square yards brick side- walks furnished and laid @ \$1 . . . . .	35 00	
Extra work—Chip con- crete base at the inter- section of Beacon and Arlington streets:		
78½ hours labor @ 25c. . . . .	19 63	
Plus 15 per cent on \$19.63 . . . . .	2 94	
Extra work—Omit granite block paving with gravel joints and substitute granite block paving with pitch and pebble joints:		
13 square yards granite block paving laid, pitch and pebble joints, @ \$1.15,	14 95	
		<u>3,075 87</u>
		<u>\$3,250 57</u>
 <i>Beacon street, from Hereford street to Massachu- setts avenue. Work completed in 1907.</i>		
Labor furnished by Barber Asphalt Paving Company . . . . .		<u>\$38 00</u>
 <i>Beacon street, from Cleveland circle to Brookline line. Roadway resurfaced with 4-inch mac- adam. Length, 1,000 feet. Area, 5,333 square yards.</i>		
Labor furnished by the city . . . . .	\$399 43	
Teaming furnished by the city . . . . .	319 50	
Water cart furnished by the city . . . . .	69 00	
Steam roller furnished by the city . . . . .	273 00	
Stone . . . . .	1,687 35	
		<u>\$2,748 28</u>
 <i>Bellevue street, from Robin street to the railroad bridge. Resurfaced with 4-inch macadam. Length, 3,825 feet. Area, 8,925 square yards.</i>		
Labor furnished by the city . . . . .	\$270 14	
Teaming furnished by the city . . . . .	1,020 75	
Water cart furnished by the city . . . . .	135 00	
Steam roller furnished by the city . . . . .	377 00	
Stone furnished by the city . . . . .	1,785 50	
Gravel furnished by the city . . . . .	158 20	
		<u>\$3,746 59</u>



*Bigelow street*, from 60 feet west of Dunboy to Brooks street, and at the intersection of Charlesview street. Area, 1,950 square yards. Resurfaced with 4-inch macadam, 133½ square yards gutters paved.

Labor furnished by the city . . .	\$551 76
Teaming furnished by the city . . .	361 88
Stone furnished by the city . . .	439 27
Stone strippings furnished by the city,	165 59
Gravel furnished by the city . . .	15 00
Lumber furnished by the city . . .	1 91
Steam roller furnished by the city . .	269 75
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\$1,805 16

*Blagden street*, from Exeter street to Huntington avenue. Roadway resurfaced with 3-inch macadam and coated with tarvia. Length, 490 feet. Area, 1,457 square yards.

Labor furnished by the city . . .	\$160 62
Teaming furnished by the city . . .	89 25
Water cart furnished by the city . .	12 00
Stone furnished by the city . . .	214 19
Tarvia furnished by the city . . .	105 00
Steam roller furnished by the city . .	65 00
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\$646 06

*Blue Hill avenue*, from Talbot avenue to Mattapan square. Roadway treated with tarvia B. 29,663 square yards roadway treated with tarvia B.

\$1,186 52

*Bowdoin street*, from Hancock to Blakeville street. Roadway top cut down and resurfaced with 2-inch macadam in places. Length, 3,300 feet. Area, 9,200 square yards.

Labor furnished by the city . . .	\$73 63
Teaming furnished by the city . . .	270 00
Stone furnished by the city . . .	234 56
Steam roller furnished by the city . .	45 50
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\$623 69

*Braemore road*, from Chiswick road to Commonwealth avenue. Resurfaced with 7-inch macadam. Length, 450 feet. Area, 1,300 square yards.

Labor furnished by the city . . .	\$377 76
Teaming furnished by the city . . .	143 15
Stone furnished by the city . . .	309 65
Strippings furnished by the city . .	95 13
Lumber furnished by the city . . .	23
Steam roller furnished by the city . .	201 50
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\$1,127 42

*Bristol street*, from Albany street to Harrison avenue. Repaved roadway with old blocks. Length, 575 feet. Area, 680 square yards. Edgestone reset and 372 square yards brick sidewalks relaid.

Labor furnished by the city . . .	\$344 00
Bricks furnished by the city . . .	32 12
Gravel and sand furnished by the city . . . . .	103 50

\$479 62

*Brookline avenue*, from Boylston street to Jersey street. Resurfaced sidewalks with crushed stone.

Stone furnished by the city . . . . .	\$138 47
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\$138 47

*Brookline avenue*, Audubon road to Bellevue street. Roadway resurfaced with 4-inch macadam on the westerly side. Length, 463 feet. Area, 865 square yards. From Bellevue street to the Parkway patched with macadam. From Parkway to Brookline line resurfaced with 4-inch macadam. Area, 1,400 square yards.

Labor furnished by the city . . .	\$262 50
Teaming furnished by the city . . .	292 85
Water cart furnished by the city . . .	44 70
Stone furnished by the city . . .	413 75
Gravel furnished by the city . . .	3 93
Lumber furnished by the city . . .	75
Steam roller furnished by the city . . .	188 50

\$1,206 98

*Brunswick street*, from Blue Hill avenue to Warren street. Roadway resurfaced with 4-inch macadam. Length, 470 feet. Area, 1,044 square yards.

Labor furnished by the city . . .	\$267 63
Teaming furnished by the city . . .	134 75
Stone furnished by the city . . .	340 00
Steam roller furnished by the city . . .	65 00

\$807 38

*Cambridge street*, Sparhawk street to Washington street, and Harvard avenue to the railroad. Patched with macadam.

Stone furnished by the city . . .	\$506 86
Gravel furnished by the city . . .	4 65
Teaming furnished by the city . . .	51 00
Steam roller furnished by the city . . .	91 00

\$653 51

*Centre street*, from Walden street to Forbes street on the east side; from Walden street to Wyman street on the west side; and from Creighton street to Hyde square on the west side. Length, 1,797 feet, west side; 1,096 feet, east side. Area, 3,819 square yards. Roadway resurfaced with 4-inch macadam; 405 square yards gutters relaid; 27 square yards crossings relaid; 189 feet edgestone reset; and 152 square yards brick sidewalks relaid.

Labor furnished by the city . . .	\$361 75
Teaming furnished by the city . . .	397 65
Stone furnished by the city . . .	788 77
Gravel furnished by the city . . .	55 90
Sand furnished by the city . . .	10 15
Bricks furnished by the city . . .	19 14
Steam roller furnished by the city . . .	318 50

\$1,951 86

*Centre street*, from May street to 500 feet beyond Louder's lane, at Nervine Hospital, West Roxbury. Length, 1,300 feet. Area, 3,611 square yards. Roadway resurfaced with 4-inch macadam.

Teaming furnished by the city . . .	\$519 00
Stone furnished by the city . . .	467 04
Gravel furnished by the city . . .	98 70
Steam roller furnished by the city . . .	123 50

\$1,208 24

*Chelsea Bridge*, Charlestown. Repaired plank walk.

Labor furnished by the city . . .	\$58 25
Teaming furnished by the city . . .	15 75
Lumber furnished by the city . . .	75 82
Nails furnished by the city . . .	20

\$150 02

*Cherokee street*, Roxbury. Plankwalk.

Lumber furnished by the city . . . . .	\$44 46
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\$44 46

*Chestnut Hill avenue*, from Commonwealth avenue to Brookline line. Length, 900 feet. Area, 4,800 square yards. Resurfaced with 2.2-inch macadam.

Labor furnished by the city . . .	\$128 69
Teaming furnished by the city . . .	172 70
Stone furnished by the city . . .	612 15
Steam roller furnished by the city . . .	123 50

\$1,037 04

*Chestnut avenue*, from Paul Gore street to Mozart street. Length, 730 feet. Area, 1,569 square yards. Resurfaced with 5-inch macadam.

Labor furnished by the city . . .	\$153 38
Teaming furnished by the city . . .	86 41
Stone furnished by the city . . .	667 81
Steam roller furnished by the city . . .	104 00

\$1,011 60

*Church street*, from High street to Winter street, Dorchester (work done in 1907).

Gravel furnished by the city . . . . .	\$48 00
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*Columbia road*, from Boston street to Dudley street (westerly side). Length, 1,600 feet. Area, 4,444 square yards. Resurfaced with 3-inch macadam.

Labor furnished by the city . . .	\$490 86
Teaming furnished by the city . . .	778 25
Stone furnished by the city . . .	974 72
Gravel furnished by the city . . .	2 59
Steam roller furnished by the city . . .	604 50

\$2,850 92

*Cross street*, from Salem street to Haymarket square. Length, 523 feet. Area, 1,223 square yards. Repaved roadway, reset edgestones, relaid crosswalks and brick sidewalks.

Labor furnished by the city . . .	\$414 26
Teaming furnished by the city . . .	93 62
Gravel furnished by the city . . .	124 50
Brick, sand and lumber furnished by the city . . . . .	6 00
Flagging furnished by the city . . .	5 00

\$643 38

*D street*, from West Fifth street to West Seventh street (work done in 1907).

Teaming furnished by the city . . .	\$17 50
Final payment to William Higgins, under contract, for work done in 1907 . . . . .	270 02

\$287 52

*Dorchester street*, from First street to water line (work done in 1907).

Teaming furnished by the city . . .	\$31 72
Gutter blocks furnished by the city . . .	1,469 40
Final payment to Suffolk Contracting Company, under contract for work done in 1907 . . . . .	177 76

\$1,678 88

*Dorchester avenue*, from Adams street to Park street, Dorchester (work done in 1907).

Final payment to Daniel E. Lynch, as per contract, for work done in 1907 . . . . .	<u>\$185 87</u>
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*Dorchester avenue*, from Park street to Ashmont street, Dorchester. Length, 4,600 feet. Area, 11,500 square yards. Top surface taken off and resurfaced with 2-inch macadam.

Labor furnished by the city . . . . .	\$70 62
Teaming furnished by the city . . . . .	150 00
Stone furnished by the city . . . . .	183 92
Stone dust furnished by the city . . . . .	22 40
Steam roller furnished by the city . . . . .	32 50
	<u>\$459 44</u>

*Dover street*, from Albany street to Harrison avenue (work done in 1907).

Teaming furnished by the city . . . . .	<u>\$45 00</u>
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*Dunboy street*, from Faneuil street to Bigelow street. Length, 600 feet. Area, 1,330 square yards. Resurfaced with 3-inch macadam.

Labor furnished by the city . . . . .	\$161 12
Teaming furnished by the city . . . . .	113 75
Strippings furnished by the city . . . . .	97 15
Steam roller furnished by the city . . . . .	91 00
Gravel furnished by the city . . . . .	36 00
Stone furnished by the city . . . . .	20 74
	<u>\$519 76</u>

*East Cottage street*, from Pleasant street to Columbia road (work done in 1907).

Stone furnished by the city . . . . .	<u>\$18 48</u>
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*East Cottage street*, from Dudley street to the railroad bridge. Length, 1,350 feet. Area, 3,190 square yards. Resurfaced with 3-inch macadam.

Labor furnished by the city . . . . .	\$401 76
Teaming furnished by the city . . . . .	153 25
Stone furnished by the city . . . . .	501 94
Stone dust furnished by the city . . . . .	42 90
Steam roller furnished by the city . . . . .	169 00
Gravel furnished by the city . . . . .	10 40
Bricks and sand furnished by the city . . . . .	7 90
	<u>\$1,287 15</u>

*East Cottage street*, from Edward Everett square to the railroad bridge. Length, 1,900 feet. Area, 5,911 square yards. Resurfaced with 1½-inch macadam.

Labor furnished by the city . . .	\$319 50
Teaming furnished by the city . . .	644 25
Stone furnished by the city . . .	698 36
Stone dust furnished by the city . . .	18 00
Steam roller furnished by the city . . .	253 50
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\$1,933 61

*East Fifth street*, from G street to H street (work done in 1907).

Teaming furnished by the city . . .	\$61 00
Gravel furnished by the city . . .	30 03
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\$91 03

*East Sixth street*, from O street to P street (work done in 1907).

Teaming furnished by the city . . .	\$14 00
Gravel furnished by the city . . .	37 50
Bricks furnished by the city . . .	57 50
Final payment to Peter J. Herr, Jr., as per contract, for work done in 1907 . . . . .	112 72
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\$221 72

*Esmond street*, from Blue Hill avenue to Bradshaw street. Length, 920 feet. Area, 2,960 square yards. Reset edgestones, repaved gutters and sodded loam spaces.

Engineering and inspection furnished by the city . . . . .	\$161 54
Teaming furnished by the city . . .	2 25
Engineering expense . . . . .	3 05
Amount paid to Daniel E. Lynch under contract (final payment not made) . . . . .	395 25
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\$562 09

*Everett street*, from Mill street to Park street, Dorchester. Length, 618 feet. Area, 1,373 square yards. Resurfaced with 6-inch macadam.

Labor furnished by the city . . .	\$68 75
Teaming furnished by the city . . .	206 50
Stone furnished by the city . . .	375 80
Steam roller furnished by the city . . .	123 50
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\$774 55

*Everett street*, from railroad bridge 650 feet south, Brighton. Length, 1,300 feet. Area, 3,755 square yards. Resurfaced with 4.7-inch macadam.

Labor furnished by the city . . .	\$250 37
Teaming furnished by the city . . .	209 47
Stone furnished by the city . . .	1,062 17
Steam roller furnished by the city . . .	214 50
Gravel furnished by the city . . .	24 80
Sand and bricks furnished by the city, . . .	1 43
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\$1,762 74

*Exeter street*, from Huntington avenue to Beacon street. Length, 1,599 feet. Area, 5,237 square yards. Resurfaced with 2½ to 3½ inch macadam. Coated with tarvia from Huntington avenue to Boylston street.

Labor furnished by the city . . .	\$827 92
Teaming furnished by the city . . .	606 25
Stone furnished by the city . . .	814 76
Stone dust furnished by the city . . .	53 56
Steam roller furnished by the city . . .	357 50
Tarvia furnished by the city . . .	72 00
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\$2,731 99

*Fairbanks street*, from Washington street to Faneuil street. Length, 1,200 feet. Area, 2,666 square yards. Resurfaced with 3.5-inch macadam.

Labor furnished by the city . . .	\$223 02
Teaming furnished by the city . . .	243 00
Stone furnished by the city . . .	564 22
Steam roller furnished by the city . . .	214 50
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\$1,244 74

*Faneuil street*, from Brooks street to Oakland street. Length, 400 feet. Area, 890 square yards. Resurfaced with 8-inch macadam, average depth.

Labor furnished by the city . . .	\$165 51
Teaming furnished by the city . . .	100 88
Stone furnished by the city . . .	590 52
Steam roller, furnished by the city . . .	91 00
Gravel furnished by the city . . .	4 65
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\$952 56

*Ferry street*, from North street to Fulton street. Length, 281 feet. Area, 559 square yards. Repaved with old blocks, relaid crossings and sidewalks and reset edgestone.

Labor furnished by the city . . .	\$468 94
Teaming furnished by the city . . .	35 87
Bricks furnished by the city . . .	72 88
Gravel furnished by the city . . .	69 03
Sand and cement furnished by the city . . . . .	17 93

\$664 65

*Field street*, from Ruggles street to 400 feet distant. Length, 400 feet. Area, 782 square yards. Resurfaced with 4-inch macadam.

Labor furnished by the city . . .	\$177 12
Teaming furnished by the city . . .	68 18
Stone furnished by the city . . .	205 84
Steam roller furnished by the city . . .	58 50
Gravel furnished by the city . . .	19 20

\$528 84

*Freeport street*, from Tenean street to the bridge. Length, 1,044 feet. Area, 3,248 square yards. Resurfaced with macadam 7 to 9 inches deep.

Labor furnished by the city . . .	\$296 62
Teaming furnished by the city . . .	844 75
Stone dust furnished by the city . . .	1,580 10
Steam roller furnished by the city . . .	260 00
Gravel . . . . .	22 50

\$3,003 97

*Fulton street*, from Cross street to Clinton street and approaches of John street and Barrett street. Length, 270 feet. Area, 1,020 square yards. Repaved with old blocks, reset edge-stones, 167 feet, and relaid crosswalks and sidewalks, 140 square yards.

Labor furnished by the city . . .	\$590 22
Teaming furnished by the city . . .	180 25
Flagging furnished by the city . . .	70 97
Granite blocks furnished by the city, . . .	23 45
Gravel furnished by the city . . .	124 02
Bricks furnished by the city . . .	23 59
Sand, cement and lumber furnished by the city . . . . .	2 76

\$1,015 26

*Geneva avenue*, from Olney street to the railroad (work done in 1907).

Teaming furnished by the city . . .	\$6 00
Stone furnished by the city . . .	75 52

\$81 52



*Geneva avenue*, from Bowdoin street to Park street.

Length, 2,900 feet. Area, 3,333 square yards.

Picked, rolled and coated with screenings.

Labor furnished by the city . . .	\$147 13
Teaming furnished by the city . . .	209 87
Stone dust furnished by the city . . .	280 78
Steam roller furnished by the city . . .	104 00
Gravel furnished by the city . . .	20 62
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\$762 40

*Greenmount street*, from Dorchester avenue to Pleasant street (work done in 1907).

Teaming furnished by the city . . . . .	<u>\$52 00</u>
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*Hancock street*, from Dorchester avenue to Bowdoin street. Length, 1,454 feet. Area, 5,000 square yards. Top picked off and resurfaced with 2-inch macadam, 300 feet gutters paved and crossing relaid.

Labor furnished by the city . . .	\$249 38
Teaming furnished by the city . . .	158 75
Stone dust furnished by the city . . .	59 91
Steam roller furnished by the city . . .	110 50
Gravel furnished by the city . . .	100 00
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\$678 54

*Hano street*, from Braintree street 420 feet southerly. Repairing tar concrete sidewalks. Area, 495 square yards.

Amount paid Simpson Brothers Company as per contracts . . . . .	<u>\$618 75</u>
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*Hanover street*, from Friend street to Union street, 140 square yards block paving laid (work done in 1907).

Amount paid James Doherty . . . . .	<u>\$219 50</u>
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*Hawes street*, from Congress street to Kilby street (work not done).

Engineering expense . . . . .	<u>\$21 25</u>
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*High street*, from Church street to Hancock street.

Length, 560 feet. Area, 1,750 square yards.

Resurfaced 8 inches deep, sidewalks built, gutters paved, retaining wall built and fences repaired.

Labor furnished by the city . . .	\$337 21
Teaming furnished by the city . . .	331 37
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*Carried forward* . . . . . \$668 58

<i>Brought forward</i> . . . . .	\$668 58	
Gravel furnished by the city . . . . .	310 00	
Steam roller furnished by the city . . . . .	52 00	
Lumber and nails furnished by the city . . . . .	18 85	
Blocks furnished by the city . . . . .	4 00	
Paint and cement furnished by the city . . . . .	5 93	
	<hr/>	<u>\$1,059 36</u>
<i>Holton street, corner Athol street at Church, Brighton (work done in 1907).</i>		
Bricks furnished by the city . . . . .	\$150 00	
Sand furnished by the city . . . . .	39 60	
	<hr/>	<u>\$189 60</u>
<i>Howard avenue, at Cunningham street. 139 feet edgestone set, 163 square yards brick sidewalks laid and 46 square yards gutters laid. Material furnished by owner.</i>		
Labor furnished by the city . . . . .	\$347 11	
Teaming furnished by the city . . . . .	70 25	
	<hr/>	<u>\$417 36</u>
<i>Humphreys street, from East Cottage street to Dudley street. Length, 1,250 feet. Area, 2,361 square yards. Resurfaced with 2-inch macadam.</i>		
Labor furnished by the city . . . . .	\$76 87	
Teaming furnished by the city . . . . .	271 50	
Stone furnished by the city . . . . .	270 48	
Steam roller furnished by the city . . . . .	136 50	
	<hr/>	<u>\$755 35</u>
<i>Hyde Park avenue, from Tower street to Washington street. Length, 700 feet. Area, 1,867 square yards. Resurfaced with 4-inch macadam.</i>		
Labor furnished by the city . . . . .	\$107 63	
Teaming furnished by the city . . . . .	165 00	
Stone furnished by the city . . . . .	284 44	
Steam roller furnished by the city . . . . .	91 00	
	<hr/>	<u>\$648 07</u>
<i>La Grange street, from Centre street to Newton line (unfinished work from 1907).</i>		
Teaming furnished by the city . . . . .	\$91 00	
Watering furnished by the city . . . . .	30 00	
Steam roller furnished by the city . . . . .	102 00	
Gravel furnished by the city . . . . .	10 22	
	<hr/>	<u>\$233 22</u>

*Lansing street*, from Warren street to Sherman street. Length, 304 feet. Area, 474 square yards. Resurfaced with 4-inch macadam.

Labor furnished by the city . . .	\$123 50
Teaming furnished by the city . . .	25 97
Stone furnished by the city . . .	33 76
Stone dust furnished by the city . . .	100 57
Steam roller furnished by the city . . .	26 00
Blocks furnished by the city . . .	2 20

\$312 00

*Linden Park street*, filling in brook.

Labor furnished by the city . . .	\$244 26
Filling furnished by the city . . .	189 60
Lumber furnished by the city . . .	7 34

\$441 20

*Main street*, from Austin street to Union street. Length, 275 feet. Area, 485 square yards. Repaved roadway.

Labor furnished by the city . . .	\$188 57
Teaming furnished by the city . . .	31 50
Gravel furnished by the city . . .	34 50

\$254 57

*Malcolm street*, from Mt. Vernon street 49 feet toward Chestnut street. Length, 49 feet. Area, 41 square yards. Removed paving blocks and resurfaced with tar macadam.

Labor furnished by the city . . .	\$55 50
Teaming furnished by the city . . .	3 00
Stone furnished by the city . . .	39 90
Tarvia furnished by the city . . .	9 00

\$107 40

*Maple street*, from Centre street to Weld street. Length, 2,000 feet. Area, 4,445 square yards. Resurfaced with 6-inch macadam.

Labor furnished by the city . . .	\$140 51
Teaming furnished by the city . . .	412 50
Watering furnished by the city . . .	77 75
Stone furnished by the city . . .	740 44
Steam roller furnished by the city . . .	188 50
Gravel furnished by the city . . .	122 10

\$1,681 80

*Marlborough street*, from Clarendon street to Charlesgate East (unfinished work from 1907). Length, 721 feet. Area, 2,314 square yards; 2-inch macadam.

Labor furnished by the city . . .	\$140 25
Teaming furnished by the city . . .	308 60
Stone furnished by the city . . .	239 48
Stone dust furnished by the city . . .	39 46
Steam roller furnished by the city . . .	175 50

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\$903 29

*Massachusetts avenue*, from Edward Everett square to Magazine street. Length, 3,250 feet. Area, 9,388 square yards. Resurfaced with 2-inch macadam.

Labor furnished by the city . . .	\$344 63
Teaming furnished by the city . . .	802 50
Watering furnished by the city . . .	27 00
Stone furnished by the city . . .	1,160 88
Steam roller furnished by the city . . .	325 00

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\$2,660 01

*Massachusetts avenue*, from Albany street to Washington street, north side. Length, 1,293 feet. Area, 3,017 square yards. Resurfaced with 4-inch macadam taken from Gerard street.

Labor furnished by the city . . .	\$295 12
Teaming furnished by the city . . .	142 40
Steam roller furnished by the city . . .	214 50
Stone furnished by the city . . .	99 36
Gravel and dust furnished by the city, . . .	8 40

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\$759 78

*Medford street*, from Mystic street to Main street, Charlestown. Reset 392 feet edgestone, relaid 926 square yards block paving and 269 square yards brick paving.

Labor furnished by the city . . .	\$835 57
Teaming furnished by the city . . .	59 50
Gravel furnished by the city . . .	68 25
Bricks furnished by the city . . .	42 26
Edgestone furnished by the city . . .	5 60
Blocks furnished by the city . . .	3 00
Sand furnished by the city . . .	5 40
Lumber and cement furnished by the city . . . . .	1 57

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\$1,021 15

*Melcher street*, from Summer street 484 feet southerly (work done in 1907).

Engineering . . . . .	\$22 25
Teaming furnished by the city . . .	28 00
Gravel furnished by the city . . .	38 61
Final payment to Peter W. Hill under contract for work done in 1907 . . .	292 37

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\$381 23

*Mercer street*, from Telegraph street to East Eighth street. Length, 500 feet. Area, 1,032 square yards. Resurfaced with 6 to 7 inch macadam.

Labor furnished by the city . . .	\$413 25
Horse roller furnished by the city . . .	88 50
Stone furnished by the city . . .	344 61

\$846 36

*Mishawum street*, from Main street to Rutherford avenue, northerly side. Length, 273 feet. Area, 215 square yards, sidewalk. New brick sidewalks laid. Macadam roadway laid, 63 square yards; block paving laid, 136 square yards; flagging crosswalks laid and edgestone reset.

Labor furnished by the city . . .	\$313 59
Teaming furnished by the city . . .	135 75
Stone furnished by the city . . .	15 00
Gravel furnished by the city . . .	16 20
Sand furnished by the city . . .	15 60
Corners (seconds) furnished by the city . . .	14 40
Flagging (seconds) furnished by the city . . .	7 60
Blocks (seconds) furnished by the city, . . .	2 75
Lumber and cement furnished by the city . . .	3 62

\$524 51

*Morton street*, from Canterbury street to Forest Hills street, West Roxbury. Length, 4,200 feet. Area, 10,267 square yards. Resurfaced with 2-inch macadam.

Labor furnished by the city . . .	\$79 24
Teaming furnished by the city . . .	798 00
Watering furnished by the city . . .	90 00
Stone furnished by the city . . .	1,108 32
Steam roller furnished by the city . . .	266 50
Gravel furnished by the city . . .	50 40

\$2,392 46

*Morton street*, near Blue Hill avenue. Length, 154 feet. Area, 257 square yards. Filled, 12.3 cubic yards; macadamized, 257 square yards roadway; 180 square yards sidewalks built; 133 feet edgestone set and 55 square yards block gutters laid.

Labor furnished by the city . . .	\$114 84
Teaming furnished by the city . . .	65 00

*Carried forward* . . . . . \$179 84

<i>Brought forward</i> . . . . .	\$179 84	
Stone furnished by the city . . . . .	126 00	
Steam roller furnished by the city . . . . .	58 50	
Blocks furnished by the city . . . . .	12 50	
Lumber furnished by the city . . . . .	75 25	
		<u>\$452 09</u>

*Moss Hill road*, from Pond street to Woodland road. Length, 900 feet. Area, 2,300 square yards. Resurfaced with 4-inch macadam.

Labor furnished by the city . . . . .	\$175 50	
Teaming furnished by the city . . . . .	288 75	
Stone furnished by the city . . . . .	450 28	
Steam roller furnished by the city . . . . .	143 00	
Gravel furnished by the city . . . . .	43 40	
Watering furnished by the city . . . . .	47 50	
		<u>\$1,148 43</u>

*Mt. Washington Avenue Bridge*. Removing blocks over deck and tearing up deck.

Labor furnished by the city . . . . .	\$1,662 77	
Teaming furnished by the city . . . . .	253 75	
		<u>\$1,916 52</u>

*Munroe street*, from Humboldt avenue to Warren street. Length, 1,054 feet. Area, 2,467 square yards. Resurfaced with 5-inch macadam; 27 square yards gutters paved.

Labor furnished by the city . . . . .	\$473 77	
Teaming furnished by the city . . . . .	79 28	
Watering furnished by the city . . . . .	49 84	
Stone furnished by the city . . . . .	696 68	
Steam roller furnished by the city . . . . .	182 00	
Brick, gravel and sand furnished by the city . . . . .	8 35	
		<u>\$1,489 92</u>

*North Beacon street*, from Dustin street to the Charles river on the southerly side, and from Market street to Vineland street on the northerly side. Length, 5,000 feet. Area, 12,222 square yards. Resurfaced with macadam, 2.1 inches average depth.

Labor furnished by the city . . . . .	\$351 66	
Teaming furnished by the city . . . . .	332 25	
Stone furnished by the city . . . . .	841 59	
Steam roller furnished by the city . . . . .	227 50	
Gravel furnished by the city . . . . .	93 15	
		<u>\$1,846 15</u>

*Norway street*, from Hemenway street to Massachusetts avenue. Length, 720 feet. Area, 1,667, square yards. Resurfaced with macadam, 3.85 inches average depth.

Labor furnished by the city . . .	\$246 51
Teaming furnished by the city . . .	75 40
Stone furnished by the city . . .	380 34
Steam roller furnished by the city . . .	102 00

\$804 25

*Oakridge street*, from Codman street to Morton street. Repaired over sewer trench.

Stone furnished by the city . . .	\$48 40
Steam roller furnished by the city . . .	13 00

\$61 40

*Old road*, from Elmo street to Glenway street. Area, 1,166 square yards. Earth and rock excavation. (Unfinished work of 1907.)

Labor furnished by the city . . . . .	\$27 38
Teaming furnished by the city . . . . .	3 00
Gravel furnished by the city . . . . .	2 22
Final payment to James F. Murphy, as per contract:	

209 cubic yards subgrading earth excavation @ 50c. . . . \$104 50

957 cubic yards subgrading rock excavation @ \$3.50 . . . 3,349 50

Extra work, haul stone to Codman street crusher:

1,658.12 tons stone hauled to Codman street crusher @ 11 c. . . . . 547 18

\$4,001 18

Less amount paid in 1907 . . . 2,405 92

1,595 26

\$1,627 86

*Olney street*, from Bowdoin street to Everton street (work done in 1907).

Teaming furnished by the city . . . . .	
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\$128 00

*Perkins street*, from South Huntington avenue to Day street. Length, 519 feet. Area, 1,349 square yards. Resurfaced with 2½-inch macadam.

Labor furnished by the city . . . . .	\$120 50
Teaming furnished by the city . . . . .	40 75

*Carried forward* . . . . . \$161 25

<i>Brought forward</i> . . . . .	\$161 25	
Watering furnished by the city . . . . .	12 00	
Stone furnished by the city . . . . .	251 89	
Steam roller furnished by the city . . . . .	84 50	
		<u>\$509 64</u>
<i>Peters street, from East Sixth street to East Seventh street. Length, 451 feet. Area, 168 square yards. New edgestones set and gutters paved with old blocks.</i>		
Labor furnished by the city . . . . .	\$400 51	
Edgestones furnished by the city . . . . .	141 93	
Teaming furnished by the city . . . . .	65 65	
		<u>\$608 09</u>
<i>Pleasant street, from Savin Hill avenue to Stoughton street. Length, 750 feet. Area, 1,500 square yards. Resurfaced with 2-inch macadam.</i>		
Labor furnished by the city . . . . .	\$115 50	
Teaming furnished by the city . . . . .	83 38	
Stone furnished by the city . . . . .	104 40	
Stone dust furnished by the city . . . . .	28 32	
Steam roller furnished by the city . . . . .	110 50	
		<u>\$442 10</u>
<i>Porter street, from Amory street toward Bismarck street (work done in 1907).</i>		
Teaming furnished by the city . . . . .	\$38 00	
Gravel furnished by the city . . . . .	43 50	
		<u>\$81 50</u>
<i>Prince street, at corner of Hanover street (work done in 1906). Bitulithic pavement laid.</i>		
Final payment to Warren Brothers Company, on contract . . . . .		<u>\$22 20</u>
<i>Quincy street, from Blue Hill avenue to Columbia road (work done in 1907).</i>		
Teaming furnished by the city . . . . .	\$119 50	
Stone furnished by the city . . . . .	2 16	
		<u>\$121 66</u>
<i>Robinwood avenue, from Rockview street to Centre street. Length, 1,950 feet. Area, 3,824 square yards. Resurfaced with 4-inch macadam.</i>		
Teaming furnished by the city . . . . .	\$319 75	
Stone furnished by the city . . . . .	382 24	
Steam roller furnished by the city . . . . .	136 50	
Gravel furnished by the city . . . . .	70	
		<u>\$839 19</u>



*Rockview street*, from Spring Park avenue to Robinwood avenue. Length, 500 feet. Area, 1,445 square yards. Resurfaced with 4-inch macadam.

Teaming furnished by the city . . .	\$163 25
Stone furnished by the city . . .	189 76
Steam roller furnished by the city . . .	65 00

\$418 01

*Rosseter street*, from Eldon street to 400 feet north of Bullard-street. Length, 900 feet. Area, 2,500 square yards. Resurfaced with 5-inch macadam.

Labor furnished by the city . . .	\$228 98
Teaming furnished by the city . . .	471 25
Stone furnished by the city . . .	867 68
Steam roller furnished by the city . . .	195 00

\$1,762 91

*Rutherford avenue*, from Essex street to Baldwin street (work done in 1907).

Final payment to James J. Brock on contract for work done in 1907 . . . . .	
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\$260 58

*Ruthven street*, from Elm Hill avenue toward Humboldt avenue (work not finished). Resurfaced about 650 square yards with 6-inch macadam.

Labor furnished by the city . . .	\$221 75
Teaming furnished by the city . . .	28 00
Stone furnished by the city . . .	121 76
Steam roller furnished by the city . . .	19 50

\$391 01

*Rutledge street*, West Roxbury. Surface drain filled with old cobbles.

Labor furnished by the city . . .	\$58 50
Teaming furnished by the city . . .	61 25
Stone furnished by the city . . .	65 80
Gravel furnished by the city . . .	6 55
Drain pipe furnished by the city . . .	42

\$192 52

*St. Botolph street*, from Irvington street to Massachusetts avenue. Length, 2,240 feet. Area, 6,805 square yards. Resurfaced with macadam, average depth  $1\frac{3}{4}$  inches.

Labor furnished by the city . . .	\$641 30
Teaming furnished by the city . . .	264 35

*Carried forward* . . . . . \$905 65

<i>Brought forward</i> . . . . .	\$905 65
Stone furnished by the city . . . . .	509 46
Steam roller furnished by the city . . . . .	276 00
Sand furnished by the city . . . . .	7 75
Gravel furnished by the city . . . . .	7 45
Watering furnished by the city . . . . .	57 20
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\$1,763 51

*St. Stephen street*, from Massachusetts avenue to Bryant street. Patched with macadam.

Labor furnished by the city . . . . .	\$89 88
Teaming furnished by the city . . . . .	42 80
Stone furnished by the city . . . . .	146 28
Steam roller furnished by the city . . . . .	60 00
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\$338 96

*Saratoga street*, from Boston, Revere Beach & Lynn Railroad to Winthrop Bridge. Area, 11,875 square yards. Treated with tar preparation.

Amount paid American Tar Company . . . . .

\$581 88

*Savin Hill avenue*, from Dorchester avenue to the railroad. Length, 1,200 feet. Area, 3,730 square yards. Resurfaced with 4-inch macadam.

Labor furnished by the city . . . . .	\$243 39
Teaming furnished by the city . . . . .	306 00
Stone furnished by the city . . . . .	398 36
Steam roller furnished by the city . . . . .	188 50
Gravel furnished by the city . . . . .	58 85
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\$1,195 10

*South street*, from Child street to the Arborway. Length, 1,750 feet. Area, 3,889 square yards. Resurfaced with 4-inch macadam.

Teaming furnished by the city . . . . .	\$312 75
Watering furnished by the city . . . . .	48 00
Stone furnished by the city . . . . .	659 44
Steam roller furnished by the city . . . . .	136 50
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\$1,156 69

*Southampton street*, from Massachusetts avenue to the bridge (work done in 1907). Cinder sidewalks.

Teaming furnished by the city . . . . .	\$1,039 00
Stone furnished by the city . . . . .	77 44
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\$1,116 44

*Stoughton street*, from Pleasant street to Columbia road. Length, 1,522 feet. Area, 3,764 square yards. Resurfaced with 4-inch macadam and repaved gutters in places.

Labor furnished by the city . . . . .	\$333 88
Teaming furnished by the city . . . . .	152 25
Stone furnished by the city . . . . .	207 12
Stone dust furnished by the city . . . . .	9 60
Steam roller furnished by the city . . . . .	123 50
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\$826 35

*Summer street*, from bridge over A street to bridge over New York, New Haven & Hartford Railroad. Length, 372 feet. Area, 2,476 square yards. Repaved with old blocks on gravel base and 425 feet plankwalk relaid.

Labor furnished by the city relaying plankwalk . . . . .	\$260 13
Engineering and inspection on contract . . . . .	164 75
Lumber furnished by the city . . . . .	227 25
Engineering expense . . . . .	2 05
Advertising furnished by the city . . . . .	14 85
Blocks furnished by the city . . . . .	13 37
Edgestone furnished by the city . . . . .	4 73
Nails furnished by the city . . . . .	2 80
Amount paid to James P. Collins as per contract for repaving roadway . . . . .	810 40
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\$1,500 33

*Summer street*, south side, from Melcher street to A street. Length, 276 feet. Area, 3,330 square yards. Repairing granolithic sidewalk. Work not finished.

Labor furnished by the city, including engineering and inspection . . . . .	\$141 67
Advertising . . . . .	9 38
Engineering expenses . . . . .	60
Amount paid to Warren Brothers Company, under contract:	
3,100 square feet artificial stone sidewalk laid @ 7 c. (unfinished) . . . . .	\$217 00
276 linear feet edgestone reset @ 11c. . . . .	30 36
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*Carried forward* . . . . . \$247 36

\$151 65

<i>Brought forward.</i>	\$247 36	\$151 65
318 square yards granite block paving relaid @ 38c.	120 84	
	<u>\$368 20</u>	
Less 15 per cent retained	55 23	
		<u>312 97</u>
		<u>\$464 62</u>
<i>Sutherland road, from Cleveland circle to Orkney road. Length, 200 feet. Area, 444 square yards. Resurfaced with 4.8-inch macadam.</i>		
Labor furnished by the city	\$45 75	
Teaming furnished by the city	36 75	
Stone furnished by the city	128 96	
	<u></u>	<u>\$211 46</u>
<i>Talbot avenue, from Washington street to Welles avenue. Length, 525 feet. Area, 3,033 square yards. Repaired with 3-inch macadam.</i>		
Labor furnished by the city	\$78 37	
Teaming furnished by the city	123 00	
Watering furnished by the city	36 75	
Stone furnished by the city	467 52	
Steam roller furnished by the city	143 00	
	<u></u>	<u>\$848 64</u>
<i>Terrace street, in front of Park Brewery. Length, 107 feet 6 inches—20-inch wall. Retaining wall and fence built Portland cement concrete.</i>		
Inspection and engineering furnished by the city	\$91 13	
Advertising furnished by the city	12 14	
Engineering expense furnished by the city	1 05	
Amount paid to James Doherty, as per contract	448 10	
	<u></u>	<u>\$552 42</u>
<i>Townsend street, from Washington street to Walnut avenue. Length, 1,066 feet. Area, 2,604 square yards. Resurfaced with 6-inch macadam.</i>		
Labor furnished by the city	\$356 76	
Teaming furnished by the city	166 88	
Stone furnished by the city	742 16	
Steam roller furnished by the city	123 50	
	<u></u>	<u>\$1,389 30</u>

*Train street*, from Ashmont street to King street.  
Length, 1,700 feet. Area, 3,500 square yards.  
Resurfaced with 3-inch macadam.

Labor furnished by the city . . .	\$77 63
Teaming furnished by the city . . .	208 25
Watering furnished by the city . . .	9 00
Stone furnished by the city . . .	434 72
Steam roller furnished by the city . . .	162 50
Gravel furnished by the city . . .	9 00
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\$901 10

*Vermont street*, from Mt. Vernon street to Baker street. Length, 2,463 feet. Area, 6,752 square yards. Resurfaced with 6-inch macadam.

Labor furnished by the city . . .	\$300 37
Teaming furnished by the city . . .	524 00
Watering furnished by the city . . .	113 00
Stone furnished by the city . . .	1,274 68
Steam roller furnished by the city . . .	286 00
Gravel furnished by the city . . .	285 57
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\$2,783 62

*Vernon street*, from Cabot street to across Auburn street. Asphaltting (work done in 1907.)

Engineering furnished by the city . . .	\$10 50
Final payment to Barber Asphalt Paving Company, under contract for work in 1907 . . . . .	1,685 48
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\$1,695 98

*Waldeck street*, from Melville avenue to Geneva avenue. Length, 1,793 feet. Area, 5,425 square yards. Resurfaced with 2-inch macadam and 4-inch gravel.

Labor furnished by the city . . .	\$58 50
Teaming furnished by the city . . .	592 96
Stone furnished by the city . . .	664 47
Gravel furnished by the city . . .	407 50
Steam roller furnished by the city . . .	156 00
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\$1,879 43

*Walnut avenue*, Nos. 179 to 216, Roxbury. Setting edgestones, furnished by owner.

Labor furnished by the city . . . . .	
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\$213 88

*Walnut Park*, Roxbury. Resetting edgestones, 195 feet 8 inches; relaying brick sidewalks, 21 $\frac{3}{4}$  square yards; relaying 10 $\frac{3}{4}$  yards flagging and 105 $\frac{1}{2}$  square yards cobble gutters.

Labor furnished by the city . . .	\$269 63
Gravel furnished by the city . . .	12 80
Sand furnished by the city . . .	2 80
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\$285 23

*Warren avenue*, from City square to railroad, Charlestown. Relaid old paving blocks. Area, 253 square yards. 404 feet edgestone reset.

Labor furnished by the city . . .	\$287 44
Teaming furnished by the city . . .	15 75
Gravel furnished by the city . . .	85 50
Old blocks furnished by the city . . .	65 36
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\$454 05

*Warren avenue*, from Berkeley street to Columbus avenue. Length, 2,250 feet. Area, 12,027 square yards. Resurfacing with 1½-inch macadam.

Labor furnished by the city . . .	\$475 25
Teaming furnished by the city . . .	386 50
Stone furnished by the city . . .	536 68
Steam roller furnished by the city . . .	494 00
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\$1,892 43

*Warren street*, from Pleasant street to Soley street, one side, and from Soley street to Thompson square, one side, Charlestown. Length, 115 feet. Area, 978 square yards. Block paving relaid and 104 square yards brick paving laid. 115 feet new edgestone set.

Labor furnished by the city . . .	\$564 77
Teaming furnished by the city . . .	44 63
Gravel furnished by the city . . .	80 48
Bricks furnished by the city . . .	9 35
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\$699 23

*Washington street*, from Elmore street to West Walnut Park. Length, 1,933 feet, westerly side, and 2,109 feet, easterly side. Area, 4,345 square yards. Repaved gutters in places and resurfaced with 4 to 5 inches macadam.

Labor furnished by the city . . .	\$414 63
Teaming furnished by the city . . .	214 50
Stone furnished by the city . . .	645 91
Stone dust furnished by the city . . .	131 84
Steam roller furnished by the city . . .	253 50
Gravel furnished by the city . . .	10 79
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\$1,671 17

*Washington street*, from Cambridge street to Parsons street, northerly side; from Chestnut Hill avenue to Foster street, southerly side, Brighton. Length, 2,400 feet. Area, 8,000 square yards. Resurfaced with macadam, 1.7 inches average depth.

Labor furnished by the city . . .	\$365 60
Teaming furnished by the city . . .	85 50
Stone furnished by the city . . .	447 01
Steam roller furnished by the city . . .	71 50
Gravel furnished by the city . . .	151 90
Bricks furnished by the city . . .	21 45
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\$1,142 96

*Washington street*, from Walk Hill street to Tower street, West Roxbury. Length, 800 feet. Area, 2,422 square yards. Resurfaced with 4-inch macadam.

Teaming furnished by the city . . .	\$267 50
Stone furnished by the city . . .	326 20
Steam roller furnished by the city . . .	97 50
Gravel furnished by the city . . .	3 50
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\$694 70

*Washington street*, from Ashland street to Beech street, West Roxbury. Length, 5,200 feet. Area, 9,603 square yards. Resurfaced with 4-inch macadam.

Labor furnished by the city . . .	\$279 00
Teaming furnished by the city . . .	880 00
Watering furnished by the city . . .	134 50
Stone furnished by the city . . .	1,259 52
Gravel furnished by the city . . .	152 75
Lumber furnished by the city . . .	7 57
Steam roller furnished by the city . . .	403 00
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\$3,116 34

*Wayland street*, between Nos. 49 and 61. Length, 186 feet. Area, 62 square yards. Setting new edgestones and paving gutters. Rock excavation for trench. Edgestone furnished by owners.

Labor furnished by the city . . .	\$345 38
Stone furnished by the city . . .	26 64
Blocks furnished by the city . . .	45 20
Gravel furnished by the city . . .	7 50
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\$424 72

*West Canton street*, from Appleton street to Shawmut avenue. Length, 1,500 feet. Area, 4,666 square yards. Resurfaced with  $1\frac{7}{8}$ -inch macadam.

Labor furnished by the city . . .	\$425 00
Teaming furnished by the city . . .	315 47
Watering furnished by the city . . .	- 62 25
Stone furnished by the city . . .	563 19
Steam roller furnished by the city . . .	286 00
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\$1,651 91

*West Cottage street*, from Brook avenue to Woodville street, Roxbury. Length, 350 feet. Area, 778 square yards. Resurfaced with 4-inch macadam.

Labor furnished by the city . . .	\$117 12
Teaming furnished by the city . . .	97 65
Stone furnished by the city . . .	264 84
Steam roller furnished by the city . . .	58 50
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\$538 11

*West Fifth street*, from C street to D street. Length, 500 feet. Area, 1,444 square yards. Resurfaced with 6-inch macadam.

Labor furnished by the city . . .	\$391 93
Horse roller furnished by the city . . .	70 45
Stone furnished by the city . . .	370 78
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\$833 16

*Western avenue*, from Market street to Telford street. Length, 1,300 feet. Area, 1,444 square yards. Patched with 2-inch macadam.

Stone furnished by the city . . .	\$219 19
Sand furnished by the city . . .	6 60
Gravel furnished by the city . . .	3 10
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\$228 89

*Worthington street*, in front of Normal School. Length, 467 feet. Area, 15.7 square yards brick gutter, and 400 square yards sidewalk; part of street resurfaced to back up gutter. (Work begun in 1907.) Edgestones paid for by Schoolhouse Department.

Labor, including engineering and inspection . . .	\$212 37
Teaming . . . . .	84 75
Stone . . . . .	48 46
Mack bricks . . . . .	239 92
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*Carried forward* . . . . . \$585 50



<i>Brought forward</i> . . . . .		\$585 50
Edgestone, circular . . . . .		6 50
Lumber . . . . .		42 30
Engineering expense . . . . .		1 35
Amount paid John Donley Company for paving . . . . .		90 00
Amount paid Charles W. Kinney under contract:		
1,870 cubic yards subgrading (earth excavation) @ 60c. . . . .	\$935 00	
467 linear feet edgestone set @ 11c. . . . .	51 37	
157 square yards brick gutters laid @ 50c. . . . .	78 50	
400 square yards brick sidewalks laid @ 35c. . . . .	140 00	
6 covers reset @ \$3 . . . . .	18 00	
400 cubic yards loam furnished and placed @ \$1.45 . . . . .	580 00	
Extra work—Cut sheet piling above subgrade:		
7½ days' labor @ \$2 . . . . .	15 00	
Plus 15 per cent on \$15 . . . . .	2 25	
	\$1,820 12	
Less amount paid in 1907 . . . . .	450 50	
		1,369 62
		<u>\$2,095 27</u>

*Wrentham street*, from Bruce street to Adams street. Length, 475 feet. Area, 1,373 square yards. Resurfaced with 2-inch macadam; 447 cubic yards excavation.

Labor furnished by the city . . . . .	\$268 50
Teaming furnished by the city . . . . .	162 50
Stone furnished by the city . . . . .	263 95
Steam roller furnished by the city . . . . .	156 00
	<u>\$850 95</u>

*Zeigler street*, from Harrison avenue to Washington street. Length, 285 feet. Area, 428 square yards. Resurfaced with 4-inch macadam.

Labor furnished by the city . . . . .	\$83 38
Stone furnished by the city . . . . .	108 11
Steam roller furnished by the city . . . . .	39 00
Watering furnished by the city . . . . .	10 50
	<u>\$240 99</u>

## SCHEDULE C.

The following schedule shows the amount charged to the maintenance appropriation of this department for work done on the following streets, the balance of the expense being charged to the appropriation for Street Improvements. The details are shown under Street Improvements:

<i>Beacon street, Raleigh street to St. Mary's street .</i>	\$6,088 30
<i>Church street . . . . .</i>	2,216 00
<i>Cleveland circle . . . . .</i>	2,278 51
<i>Dudley street . . . . .</i>	1,434 33
<i>East Broadway . . . . .</i>	416 53
<i>Gainsborough street . . . . .</i>	1,975 02
<i>Humboldt avenue . . . . .</i>	377 01
<i>Huntington avenue . . . . .</i>	2,753 56
<i>Kilby street . . . . .</i>	113 33
<i>Lexington street . . . . .</i>	146 81
<i>Main street . . . . .</i>	190 35
<i>Meridian street . . . . .</i>	4,142 97
<i>Mt. Everett street . . . . .</i>	170 01
<i>Park square . . . . .</i>	465 29
<i>Parker street . . . . .</i>	328 70
<i>Providence street . . . . .</i>	2,705 07
<i>Rutherford avenue . . . . .</i>	93 62
<i>Scollay square and Court street . . . . .</i>	8,354 04
<i>Stanley street . . . . .</i>	272 01
<i>Taylor street . . . . .</i>	1,208 71
<i>Walk Hill street . . . . .</i>	1,637 58
<i>Walnut avenue . . . . .</i>	1,158 01
<i>Ward street . . . . .</i>	206 88
<i>Washington street . . . . .</i>	2,594 03
<i>Waumbeck street . . . . .</i>	213 25
	\$41,539 92

## OLD COLONY AVENUE, CONSTRUCTION OF.

*Work not Finished.*

Labor, grading by division force . . . . .	\$1,875 53
Engineering and inspection . . . . .	1,625 28
Teaming furnished by the city . . . . .	273 49
Engineering expense . . . . .	8 65
Advertising . . . . .	37 65
Amount paid to Fred S. and A. D. Gore Corporation for constructing macadam roadway between Dorchester avenue and Dorchester street under contract (work uncompleted):	
8,450 cubic yards subgrading, earth excavation, @ 33c. . . . .	\$2,788 50
<i>Carried forward . . . . .</i>	\$2,788 50
	\$3,820 60

<i>Brought forward</i> . . . . .	\$2,788 50	\$3,820 60
900 cubic yards filling furnished @ \$1 . . . . .	900 00	
325 cubic yards existing retaining wall taken down @ 75c. . . . .	243 75	
325 cubic yards rubble wall built @ \$1.50 . . . . .	487 50	
	<hr/>	
	\$4,419 75	
Less 15 per cent retained . . . . .	662 96	
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		3,756 79
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		<u>\$7,577 39</u>

## STREET IMPROVEMENTS.

*A street*, from Congress street to 175 feet south of Binford street. Repaved with large granite blocks on a concrete base, with pitch and pebble joints, and regulated. Length, 1,620 feet. Area, 6,120 square yards.

Hauling edgestone furnished by the city . . . . .		\$3 67
Hauling flagging furnished by the city . . . . .		3 56
Edgestone furnished by the city, 52½ feet @ 70c.		36 75
Flagging furnished by the city, 8 feet North River @ 66c. . . . .		5 28
Flagging furnished by the city, 70.9 feet granite @ 80c. . . . .		56 60
Bricks furnished by the city, 18,450 at \$11 . . . . .		202 95
Stone (at crusher) furnished by the city, 1,359.65 tons @ \$1.60 . . . . .		2,175 44
Advertising furnished by the city . . . . .		14 70
Engineering and inspection furnished by the city . . . . .		594 23
Engineering expense furnished by the city . . . . .		8 65
Templets furnished by the city . . . . .		9 37
Amount paid under contract to Fred S. & A. D. Gore Corporation:		
6,705 square yards, preparing site, @ 29c. . . . .	\$1,944 45	
2,811 linear feet existing edgestone reset @ 10c. . . . .	281 10	
6,703 square yards concrete base furnished and laid @ 49c., . . . . .	3,284 47	
359 square yards existing granite block paving relaid, gravel joints, @ 35c. . . . .	125 65	
6,640 square yards granite block paving furnished and laid, pitch joints, @ \$2.55 . . . . .	16,932 00	
	<hr/>	
<i>Carried forward</i> . . . . .	\$22,567 67	\$3,111 20

<i>Brought forward</i> . . . . .	\$22,567 67	\$3,111 20
66 square yards existing flagging crosswalks relaid, pitch joints, @ 90c. . . . .	59 40	
1,918 square yards existing brick sidewalks relaid . . . . .	479 50	
Extra work — Haul 15,000 second-hand blocks to Lexington street, between Putnam and Prescott streets:		
198 tons old blocks hauled to Lexington street, one mile over-haul, per half mile, per ton, @ 11c. . . . .	43 56	
198 tons, ferry tollage per ton @ .0542c. . . . .	10 73	
Extra work — Haul paving blocks as directed to the East Eagle street paving yard:		
201 tons paving blocks hauled to East Eagle street paving yard, one and one-half miles over-haul, per half mile, per ton, @ 11c. . . . .	66 33	
201 tons, ferry tollage per ton @ .0542c. . . . .	10 89	
Extra work — Furnish stone-cutter:		
½ day, stonecutter . . . . .	1 75	
Plus 15 per cent on \$1.75 . . . . .	26	
Extra work — Reset manhole cover to grade at Wormwood street:		
½ day, mason, @ \$5 . . . . .	2 50	
½ day, tender, @ \$2.25 . . . . .	1 12	
Plus 15 per cent on \$3.62 . . . . .	54	
2 bags cement @ 40c. . . . .	80	
150 brick @ \$11 M. . . . .	1 65	
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	\$23,246 70	
Less 4,325 old granite blocks delivered to contractor @ \$25 M. . . . .	108 13	
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		23,138 57
		<hr/>
		\$26,249 77
Credit: 159,362 second-hand paving blocks @ \$20 M. . . . .		3,187 24
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		<u>\$23,062 53</u>

*Allston street*, from Brighton avenue to Commonwealth avenue. Constructed, edgestone set, gutters paved, crushed stone sidewalks laid, roadway resurfaced with macadam. Length, 1,832 feet. Area, 5,292 square yards. 1,169 cubic yards excavation, 3,248 feet edgestone set, 1,144 square yards gutter paved, 84 square yards crossing laid, 2,064 square yards crushed stone sidewalk laid, 4,038 square yards macadam laid. Work done by department force.

Labor, excavation . . . . .	\$1,628 46
Labor, setting edgestone . . . . .	394 51
Labor, paving gutters and crosswalks . . . . .	548 70
Labor, spreading macadam, etc. . . . .	534 18
Teaming, excavation . . . . .	336 28
Teaming, blocks . . . . .	317 25
Teaming . . . . .	769 02
Hauling edgestone furnished by the city, . . . . .	163 08
Hauling flagging furnished by the city, . . . . .	24 28
Edgestone, circular, furnished by the city, 39 feet 5 inches @ \$1.30 . . . . .	51 24
Edgestone, straight, furnished by the city, 2,242 feet 10 inches @ 70c. . . . .	1,569 97
Edgestone corners, two large, furnished by the city @ \$7 . . . . .	14 00
Flagging, North River, furnished by the city, 326 feet 9 inches @ 66c. . . . .	215 67
Paving blocks, second-hand, furnished by the city, 33,000 @ \$20 . . . . .	660 00
Stone furnished by the city, 35.6375 tons @ \$1.10 . . . . .	39 20
Stone furnished by the city, 232.4 tons @ \$1.20 . . . . .	278 88
Stone furnished by the city, 1,093.9375 tons @ \$1.60 . . . . .	1,750 29
Gravel furnished by the city, 25 double loads @ \$1.50 . . . . .	37 50
Gravel furnished by the city, 7½ double loads @ \$1.55 . . . . .	11 63
Gravel furnished by the city, 212¼ double loads @ \$1.35 . . . . .	286 55
Stone dust furnished by the city, 51.9025 tons @ 90c. . . . .	46 71
Strippings furnished by the city, 125.34 tons @ 75c. . . . .	94 01
Engineering expense furnished by the city . . . . .	3 70
Steam roller furnished by the city . . . . .	305 50

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\$10,080 61

*Ashburton place*, from Bowdoin street to a point 50 feet easterly. Area, 118 square yards. Block paving on concrete removed and 10-inch macadam put in place and coated with tarvia A.,

Labor furnished by the city . . .	\$59 25
Teaming furnished by the city . . .	36 27
Stone furnished by the city . . .	175 24
Tarvia furnished by the city . . .	22 00
Steam roller furnished by the city . . .	13 00
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\$305 76

*B street*, from West First street to West Third street. Roadway resurfaced with 4-inch macadam. Length, 437 feet. Area, 1,500 square yards.

Labor furnished by the city . . .	\$483 39
Teaming furnished by the city . . .	18 95
Stone furnished by the city . . .	449 17
Horse roller furnished by the city . . .	69 55
	<hr/>

\$1,021 06

*Batterymarch street*, from Milk street to 215 feet easterly. To be asphalted. Work not started.

Advertising . . . . .	\$15 90
Engineering . . . . .	30 86
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\$46 76

*Beacon street*, from Raleigh street to St. Mary's street. Roadway resurfaced with 3½-inch macadam. Length, 3,291 feet. Area, 17,852 square yards.

Labor furnished by the city . . .	\$2,085 51
Teaming furnished by the city . . .	1,592 05
Stone furnished by the city, 60.5375 tons @ \$1.35 . . . . .	81 73
Stone furnished by the city, 1,017.2 tons @ \$1.73 . . . . .	1,759 76
Stone furnished by the city, 1,268.97 tons @ \$1.60 . . . . .	2,030 35
Steam roller furnished by the city . . .	988 00
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\$8,537 40

Amount charged to appropriation for street improvements . . . . .	\$2,449 10
Amount charged to appropriation for Street Department . . . . .	6,088 30
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\$8,537 40

*Boylston street*, from Chestnut avenue to railroad bridge, West Roxbury. Roadway resurfaced with 6-inch macadam. Length, 775 feet. Area, 1,944 square yards.

Labor furnished by the city . . . . .	\$161 25
Teaming furnished by the city . . . . .	30 00
Stone furnished by the city . . . . .	608 74
Steam roller furnished by the city . . . . .	117 00

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\$916 99

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*Boylnton street*, from South to Call streets, West Roxbury. Dish gutters laid by George H. Noone, under contract. Length, 850 feet. Area, 742 square yards. Roadway resurfaced with 7-inch macadam by Paving Division. Length, 850 feet. Area, 1,889 square yards.

Labor furnished by the city . . . . .	\$294 25
Teaming furnished by the city . . . . .	358 00
Blocks furnished by the city . . . . .	3 00
Lumber furnished by the city . . . . .	37
Stone furnished by the city . . . . .	709 98
Steam roller furnished by the city . . . . .	130 00

Amount paid to George H. Noone, under contract:

742 square yards preparing site @  
50c. . . . . \$371 00

742 square yards cobblestones  
hailed and laid @ 80c . . . . . 593 60

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964 60

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\$2,460 20

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*Bromfield street*, from Tremont to Washington streets. Repaved with new large granite blocks on concrete base, with pitch joints and regulated. Length, 515 feet. Area, 1,257 square yards.

Engineering and inspection furnished by the city . . . . .	\$216 72
Teaming furnished by the city . . . . .	2 56
Bricks, 1,700 @ \$11 per M., furnished by the city, Edgestone, 1 large corner furnished by the city . . . . .	18 70
Stone, 269.95 tons @ \$1.60, furnished by the city . . . . .	7 00
Advertising furnished by the city . . . . .	431 92
Engineering expense furnished by the city . . . . .	14 56
Templets furnished by the city . . . . .	1 05
Templets furnished by the city . . . . .	3 57

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*Carried forward* . . . . . \$696 08

<i>Brought forward</i> . . . . .		\$696 08
Amount paid John I. Fitzgerald under contract:		
1,303 square yards preparing site		
@ 27c. . . . .	\$351 81	
175 linear feet existing edgestone		
reset @ 11c. . . . .	19 25	
1,303 square yards concrete base		
furnished and laid @ 50c. . . . .	651 50	
1,281 square yards granite block		
paving, pitch joints, fur-		
nished and laid @ \$2.50 . . . . .	3,202 50	
20 square yards flagging cross-		
walks, pitch joints, furnished		
and laid @ \$4.41 . . . . .	88 20	
66 square yards existing brick		
sidewalks relaid @ 25c. . . . .	16 50	
Extra work — Relay exist-		
ing granite flagging at Prov-		
ince street, with pitch joints:		
4 square yards granite flag-		
ging relaid @ 90c. . . . .	3 60	
	<hr/>	4,333 36
		<u>\$5,029 44</u>
Credit: Paving blocks, 43,995 @ \$20 per M. . . . .		879 90
		<u>\$4,149 54</u>

*Bunker Hill street*, from Main to Sackville streets.

Resurfaced with 4-inch macadam. Length, 1,900 feet. Area, 4,140 square yards.

Labor furnished by the city . . . . .	\$272 25
Teaming furnished by the city . . . . .	178 63
Stone furnished by the city . . . . .	618 70
Gravel furnished by the city . . . . .	150 75
Steam roller furnished by the city . . . . .	312 00
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\$1,532 33*C street*, from West Fifth to and across West Sixth streets. Repaved and regulated. (Work done in 1907.) Length, 485 feet. Area, 1,161 square yards.

Final payment to Suffolk Contracting Company,

\$51 78*C street*, from First to Second streets. Roadway resurfaced with 6-inch macadam. Length, 219 feet. Area, 694 square yards.

Labor furnished by the city . . . . .	\$236 13
Stone furnished by the city . . . . .	255 43
Teaming furnished by the city . . . . .	5 25
Horse roller furnished by the city . . . . .	53 50
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\$550 31



*Canterbury street*, from Angell street to Blue Hill avenue. Length, 725 feet. Area, 4,200 square yards 4-inch macadam. 688 cubic yards excavated and deposited in fill on street; 114 feet edgestone reset and 55 square yards gutters repaved. Excavated and widened.

Labor furnished by the city . . . . .	\$1,280 59
Teaming furnished by the city . . . . .	481 75
Blocks furnished by the city . . . . .	30 00
Stone furnished by the city . . . . .	1,697 65
Steam roller furnished by the city . . . . .	321 00

\$3,810 99

*Centre street*, from Church to La Grange streets. Resurfaced with 4-inch macadam. Length, 1,350 feet. Area, 6,000 square yards.

Labor furnished by the city . . . . .	\$620 76
Teaming furnished by the city . . . . .	1,002 00
Lumber furnished by the city . . . . .	5 00
Stone furnished by the city . . . . .	1,628 18
Gravel furnished by the city . . . . .	104 30
Steam roller furnished by the city . . . . .	429 00

\$3,789 24

*Chandler street*, from Berkeley street to Columbus avenue. Resurfaced with 3-inch macadam taken from Gerard street. Length, 1,569 feet. Area, 4,699 square yards.

Labor furnished by the city . . . . .	\$205 50
Teaming furnished by the city . . . . .	86 85
Stone furnished by the city . . . . .	45 12
Steam roller furnished by the city . . . . .	123 50

\$460 97

*Chelsea street*, from 40 feet south of Scott's court to Chelsea bridge south. Roadway regulated and paved to grade with the old blocks. Length, 393 feet. Area, 1,770 square yards, not including track and dummy.

Labor furnished by the city . . . . .	\$148 00
Teaming furnished by the city . . . . .	47 12
Advertising furnished by the city . . . . .	13 85
Engineering expense furnished by the city . . . . .	1 75
Amount paid to Cornelius J. Duggan, under contract:	

438 linear feet edgestone reset @	
6c. . . . .	\$26 28
1,791 square yards granite block paving relaid @ 35c. . . . .	626 85

*Carried forward* . . . . . \$653 13

\$210 72

<i>Brought forward</i> . . . . .	\$653 13	\$210 72
15 square yards flagging cross-walks relaid @ 25c. . . . .	3 75	
360 square yards brick sidewalks relaid @ 12c. . . . .	43 20	
	<hr/>	700 08
		<u>\$910 80</u>
<i>Church street, from Boylston to Providence streets.</i>		
Wood blocks on concrete base, and regulated.		
Length, 150.1 feet. Area, 532 square yards (includes 88 square yards track area).		
Engineering and inspection furnished by the city . . . . .		\$68 87
Edgestone furnished by the city, 10 feet 7 inches, @ 70c. . . . .		7 41
Edgestone furnished by the city, 2 large corners, @ \$7 . . . . .		14 00
Bricks furnished by the city, 2,000, @ \$11 . . . . .		22 00
Engineering expense furnished by the city . . . . .		75
Templets furnished by the city . . . . .		4 48
Amount paid United States Wood Preserving Company, under contract:		
444 square yards preparing site @ 50c. . . . .	\$222 00	
226 linear feet edgestone set @ 21c. . . . .	47 46	
444 square yards concrete base laid @ \$1 . . . . .	444 00	
444 square yards wood block pavement furnished and laid @ \$3.25 . . . . .	1,443 00	
143 square yards brick sidewalks laid @ 35c. . . . .	50 05	
Extra work — Furnish stone-cutter to dress existing edgestone. 15 hours, stonecutter, @ 55c. . . . .	8 25	
Plus 15 per cent on \$8.25 . . . . .	1 24	
	<hr/>	2,216 00
		<u>\$2,333 51</u>
Credit: 9,320 old granite blocks @ \$20 per M., . . . . .		186 40
		<u>\$2,147 11</u>
Amount charged to the appropriation for street improvements . . . . .	\$117 51	
Amount charged to the appropriation for Street Department . . . . .	2,216 00	
	<hr/>	\$2,333 51
Less credit for old paving blocks . . . . .	186 40	
	<hr/>	<u>2,147 11</u>

*Clarendon street*, from Boylston street to the railroad. Resurfaced with 2-inch macadam and coated with terracolio. Length, 553 feet. Area, 1,693 square yards.

Labor furnished by the city . . .	\$246 13
Teaming furnished by the city . . .	105 85
Terracolio furnished by the city . . .	17 05
Stone furnished by the city . . .	264 57
Steam roller furnished by the city . . .	110 50
	<hr/>

\$744 10

*Cleveland circle*, from Beacon street to Chestnut Hill avenue. Resurfaced with 6.4-inch macadam. Length, 800 feet. Area, 4,266 square yards.

Labor furnished by the city . . .	\$701 81
Teaming furnished by the city . . .	436 07
Blocks furnished by the city . . .	5 25
Stone furnished by the city . . .	1,648 35
Sand furnished by the city . . .	23 10
Gravel furnished by the city . . .	14 33
Engineering expense furnished by the city . . .	30
Steam roller furnished by the city . . .	305 50
Drop inlet built by Sewer Division . . .	234 77
	<hr/>

\$3,369 48

Amount charged to the appropriation for street improvements . . .	\$1,090 97
Amount charged to the appropriation for Street Department . . .	2,278 51
	<hr/>

3,369 48

*Cohasset street*, from Corinth to Albano street. Edgestone set. Gutters paved and roadway surfaced with 6-inch macadam. Crushed stone sidewalks built. Area, 1,900 square yards macadam, 568 cubic yards excavation. 1,968 feet edgestone set and reset, 826 square yards block paving, 1,104 square yards crushed stone sidewalk.

Labor furnished by the city, excavation . . .	\$724 20
Labor paving gutters . . .	330 40
Labor setting edgestone . . .	295 20
Labor laying brick sidewalks . . .	5 75
Labor spreading macadam, etc. . .	380 00
Labor spreading crushed stone sidewalks . . .	165 60
	<hr/>
<i>Carried forward</i> . . .	\$1,901 15

<i>Brought forward</i> . . . . .	\$1,901 15
Teaming furnished by the city, excavation . . . . .	252 50
Teaming furnished by the city, hauling blocks . . . . .	191 50
Water cart furnished by the city . . . . .	132 00
Hauling edgestone furnished by the city . . . . .	110 61
Flagging, granite, furnished by the city, 14 feet 4 inches @ 80c. . . . .	11 46
Flagging, North River, furnished by the city, 13 feet 6 inches @ 66c. . . . .	8 91
Bricks, 300, furnished by the city, @ \$11 . . . . .	3 30
Blocks, 21,200, furnished by the city, @ \$20 . . . . .	424 00
Lumber, 5 cedar posts, furnished by the city, @ 35c. . . . .	1 75
Lumber, 155 feet spruce, furnished by the city, @ \$25 . . . . .	3 88
Stone, 642.055 tons, furnished by the city, @ \$1.35 . . . . .	866 77
Gravel, 248½ double loads, furnished by the city, @ \$1.40 . . . . .	347 90
Cement, 1¾ barrels, furnished by the city, @ \$1.85 . . . . .	3 23
Cement, 2½ barrels, furnished by the city, @ \$1.75 . . . . .	4 37
Edgestone, 23 corners, furnished by the city, @ \$3.60 . . . . .	82 80
Edgestone, circular, furnished by the city, 17 feet 5 inches @ \$1.30 . . . . .	22 63
Edgestone, straight, furnished by the city, 1,654 feet 8 inches @ 70c. . . . .	1,158 25
Steam roller furnished by the city . . . . .	169 00
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	\$5,696 01

*Congress street*, from State street to Water street.  
To be paved with wood blocks on a concrete base. Work not started.

Engineering . . . . .	\$40 10
Advertising . . . . .	13 25
	<hr/>

\$53 35

*Cooper street*, from Washington Street North to and across Endicott street. Length, 238.7 feet. Area, 726 square yards. Asphalted and regulated.

Hauling edgestone and flagging . . . . .	\$9 31
Edgestone furnished by the city . . . . .	50 70
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*Carried forward* . . . . . \$60 01

<i>Brought forward</i> . . . . .	\$60 01	
Flagging furnished by the city . . . . .	57 19	
Bricks furnished by the city, 6,000 @ \$11 per M. . . . .	66 00	
Blocks furnished by the city, 400 No. 1 @ \$70 . . . . .	28 00	
Engineering and inspection furnished by the city . . . . .	79 37	
Amount paid Barber Asphalt Paving Company under contract:		
350 feet edgestone set @ 21c. . . . .	\$73 50	
16 square yards granite block paving laid, gravel joints, @ 50c. . . . .	8 00	
14 square yards granite block paving laid, pitch joints, @ \$1.05 . . . . .	14 70	
31 square yards flagging cross- walk laid, pitch joints, @ \$1.05 . . . . .	32 55	
695 square yards bituminous concrete binder and asphalt wearing surface furnished and laid @ \$2.50 . . . . .	1,737 50	
1 cubic yard extra bituminous binder fur- nished and laid . . . . .	9 00	
72 cubic yards cement con- crete base laid @ \$5 . . . . .	360 00	
212 square yards brick side- walks laid @ 35c. . . . .	74 20	
<i>Carried forward</i> . . . . .	\$2,309 45	\$290 57

<i>Brought forward</i> . . . . .	\$2,309 45	\$290 57
Extra work—Excavate and haul surplus material over sewer trench to Revere Street Yard:		
437 square yards surplus material excavated and hauled @ 50c. . . . .	218 50	
		2,527 95
		<u>\$2,818 52</u>
Credit: 5,391 old paving blocks @ \$20 per M. . . . .		107 82
		<u>\$2,710 70</u>
<i>Corning street</i> , from Washington street to Shawmut avenue. Roadway asphalted and regulated. Length, 338 feet. Area, 734 square yards.		
Teaming furnished by the city . . . . .		\$8 75
Bricks furnished by the city, 6,000 @ \$11 M. . . . .		66 00
Engineering and inspection furnished by the city . . . . .		186 48
Engineering expense furnished by the city . . . . .		2 45
Advertising furnished by the city . . . . .		14 25
Amount paid Warren Brothers Company under contract:		
664 linear feet edge-stone set @ 20c. . . . .	\$132 80	
48.43 cubic yards concrete base laid @ \$6 . . . . .	290 58	
36 square yards granite block paving laid, gravel joints, @ 50c . . . . .	18 00	
17 square yards granite block paving laid, pitch joints, @ 75c. . . . .	12 75	
<i>Carried forward</i> . . . . .	\$454 13	<u>\$277 93</u>

<i>Brought forward</i> . . .	\$454 13	\$277 93
35 square yards flagging cross- walks laid, gravel joints, @ 50c. . .	17 50	
700 square yards bituminous concrete binder and asphalt wear- ing surface furnished and laid @ \$1.84 . . .	1,288 00	
389 square yards brick side- walks laid @ 25c. . .	97 25	
Extra work— Cut out con- crete base where neces- sary on ac- count of the resetting of edgestones:		
64½ hours labor @ 25c. . .	16 13	
Plus 15 per cent on \$16.13 . . .	2 42	
		1,875 43
		\$2,153 36
Credit: 240 old paving blocks @ \$20 per M. . . . .		4 80
		<u>\$2,148 56</u>
<i>D street</i> , from Gold street to West Broadway. Repaved and regulated. Length, 412 feet. Area, 1,740 square yards.		
Inspection furnished by the city . . .	\$63 50	
Hauling flagging furnished by the city, . . .	14 10	
Flagging furnished by the city . . .	84 92	
Bricks furnished by the city . . .	143 00	
Amount paid William Higgins under contract:		
788 linear feet edge- stones set @ 21c. . . . .	\$165 48	
<i>Carried forward</i> . . .	\$165 48	\$305 52

<i>Brought forward</i> . . .	\$165 48	\$305 52
1,740 square yards granite block paving laid @ 65c. . .	1,131 00	
671 square yards brick side- walks laid @ 35c. . .	234 85	
	<hr/>	1,531 33
		<hr/> <u>\$1,836 85</u>

*Dorchester avenue*, from Ashmont to Codman street. Work started and suspended.

Labor furnished by the city . . .	\$5 63
Teaming furnished by the city . . .	2 50
Steam roller furnished by the city . . .	13 00
	<hr/>

\$21 13

*Dudley street*, from Washington street to Eliot square and part of Eliot square. Resurfaced with 3-inch macadam. Length, 1,360 feet. Area, 1,388 square yards, north side. Length, 1,563 feet. Area, 3,505 square yards, south side.

Labor furnished by the city . . .	\$387 15
Teaming furnished by the city . . .	112 07
Hauling flagging furnished by the city, . . .	26 06
Flagging furnished by the city . . .	16 94
Crossing blocks furnished by the city, . . .	1 50
Stone furnished by the city . . .	843 91
Gravel furnished by the city . . .	8 80
Steam roller furnished by the city . . .	221 00
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\$1,617 43

Amount charged to appropriation for street improvements . . .	\$183 10
Amount charged to appropriation for Street Department . . .	1,434 33
	<hr/>

1,617 43

*East Broadway*, from P to Q street. Resurfaced with 8-inch macadam. Length, 503 feet. Area, 2,347 square yards.

Labor furnished by the city . . .	\$520 03
Stone furnished by the city . . .	1,033 76
Gravel furnished by the city . . .	37 50
Horse roller furnished by the city . . .	108 35
	<hr/>

\$1,699 64



Amount charged to appropriation for street improvements . . .	\$1,283 11	
Amount charged to appropriation for Street Department . . .	416 53	
		<u>\$1,699 64</u>

*Eliot street*, from Pleasant to Tremont street.  
Repaved with large blocks on a concrete base  
with pitch joints and regulated. Length, 717  
feet. Area, 2,908 square yards.

Engineering and inspection . . . . .		\$359 01
Edgestone furnished by the city, 23 feet 2 inches @ 70c. . . . .		16 22
Flagging furnished by the city, 495 feet 5 inches @ 80c. . . . .		396 33
Bricks furnished by the city, 20,000 @ \$11 per M. . . . .		220 00
Stone furnished by the city, 200.5 tons @ \$1.60,		320 08
Advertising furnished by the city . . . . .		13 00
Engineering expenses furnished by the city . .		6 50
Templets furnished by the city . . . . .		3 55
Amount paid to John I. Fitzgerald under con- tract:		

2,109 square yards, preparing site, @ 30c. . . . .	\$632 70
1,211 linear feet edgestone set @ 13c. . . . .	157 43
1,241 square yards concrete base furnished and laid @ 55c. . . . .	682 55
46 square yards existing granite block paving relaid, gravel joints, @ 37c. . . . .	17 02
2,010 square yards granite block paving furnished and laid, pitch joints, @ \$2.57 . . . . .	5,165 70
1 square yard existing granite block paving relaid, pitch joints . . . . .	80
99 square yards flagging cross- walks hauled and laid, pitch joints, @ \$1 . . . . .	99 00
871 square yards brick sidewalks laid @ 25c. . . . .	217 75

6,972 95

\$8,307 64

933 38

\$7,374 26

Credit: 46,669 old blocks @ \$20 per M. . . . .

*Fuller street*, from Dorchester avenue to Washington street. Gravel roadway graded. Length, 1,850 feet. Area, 4,713 square yards.

Labor furnished by the city . . . . .	\$264 38
Teaming furnished by the city . . . . .	117 25
Steam roller furnished by the city . . . . .	234 00

\$615 63

*Gainsborough street*, from Hemenway street to Huntington avenue. Resurfaced with macadam, average depth 6.7 inches. Length, 1,038 feet. Area, 3,269 square yards. Artificial stone sidewalks repaired. Length, 715 feet. Area, 5,219 square yards, St. Stephen to Hemenway streets.

Labor furnished by the city . . . . .	\$740 75
Teaming furnished by the city . . . . .	346 45
Lumber furnished by the city . . . . .	76
Stone furnished by the city . . . . .	1,115 13
Gravel furnished by the city . . . . .	9 42
Advertising furnished by the city . . . . .	12 75
Engineering expenses furnished by the city . . . . .	1 10
Steam roller furnished by the city . . . . .	258 00

Amount paid Robert Eagar, Jr., under contract:

5,219 square feet artificial stone sidewalks laid @ 13½c. . . . .	\$704 57
733 linear feet edgestones set @ 7c., . . . . .	51 31
258 square yards granite block paving and flagging crosswalks relaid @ 25c. . . . .	64 50
Extra work—Reset catch-basin cover to grade . . . . .	3 00

823 38

\$3,307 74

Amount charged to appropriation for street improvements . . . . . \$1,332 72

Amount charged to appropriation for Street Department . . . . . 1,975 02

\$3,307 74

*Gerard street*, from Massachusetts avenue to Kemble street. Excavated macadam and paved roadway with old paving blocks. Edgestones set 407 feet. 4,060 cubic yards roadway excavated; cutting averaged 2 $\frac{9}{10}$  feet on roadway and 1½ feet on sidewalk; 3,860 square yards paving laid and 50 square yards brick paving laid.

Labor furnished by the city, excavation . . . . . \$3,102 20

*Carried forward* . . . . . \$3,102 20

<i>Brought forward</i> . . . . .	\$3,102 20
Labor furnished by the city paving, 1,055 08	
Teaming blocks furnished by the city, 243 40	
Teaming excavation . . . . .	951 85
Edgestone furnished by the city, 2 small corners @ \$3.60 . . . . .	7 20
Flagging furnished by the city, 41 feet North River @ 66c. . . . .	27 06
Blocks furnished by the city, 97,224 old blocks @ \$20 . . . . .	1,944 48
Sand furnished by the city, 13 tons beach @ 75c. . . . .	9 75
Gravel furnished by the city, 191 tons beach @ 75c. . . . .	143 25
Gravel furnished by the city, 428 double loads @ \$1.60 . . . . .	684 80
Cement furnished by the city, $\frac{1}{4}$ bar- rel @ \$1.75 . . . . .	44
Steam roller furnished by the city . . . . .	97 50

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\$8,267 01

*Harvard avenue*, from Commonwealth avenue to Brighton avenue. Resurfaced with 2-inch macadam. Length, 871 feet. Area, 2,000 square yards.

Labor furnished by the city . . . . .	\$102 87
Teaming furnished by the city . . . . .	35 00
Stone furnished by the city . . . . .	205 56
Gravel furnished by the city . . . . .	41 08
Steam roller furnished by the city . . . . .	58 50

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\$443 01

*Humboldt avenue*, from Walnut avenue to Seaver street. Resurfaced with 5-inch macadam and gutters repaved. Length, 3,485 feet. Area, 3,998 square yards, easterly side. Length, 3,383 feet. Area, 3,593 square yards, westerly side.

Labor furnished by the city . . . . .	\$1,899 14
Teaming furnished by the city . . . . .	445 73
Brick furnished by the city . . . . .	3 58
Stone furnished by the city . . . . .	1,987 94
Gravel furnished by the city . . . . .	52 80
Sand furnished by the city . . . . .	12 60
Steam roller furnished by the city . . . . .	455 00

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\$4,856 79

Amount charged to the appropriation for Street Department . . . . .	\$377 01
Amount charged to the appropriation for street improvements . . . . .	4,479 78

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4,856 79

*Huntington avenue*, from Tremont street to Brookline line; resurfaced with 3-inch macadam, north side; from Gainsborough street to Tremont street, southerly side, and from Parker street to Brookline line, southerly side. Resurfaced with 3-inch macadam. Area, about 26,000 square yards.

Labor furnished by the city . . . . .	\$2,553 87	
Teaming furnished by the city . . . . .	973 70	
Watering furnished by the city . . . . .	145 80	
Lumber furnished by the city . . . . .	1 29	
Stone furnished by the city . . . . .	4,457 41	
Sand furnished by the city . . . . .	3 92	
Steam roller furnished by the city . . . . .	1,120 00	
	<hr/>	\$9,255 99
Amount charged to the appropriation for Street Department . . . . .	\$2,753 56	
Amount charged to the appropriation for street improvements . . . . .	6,502 43	
	<hr/>	<u>9,255 99</u>

*Irvington street*, from Huntington avenue to railroad. Resurfaced with 4-inch macadam. Length, 400 feet. Area, 1,333 square yards.

Labor furnished by the city . . . . .	\$236 64	
Teaming furnished by the city . . . . .	180 57	
Stone furnished by the city . . . . .	285 57	
Sand furnished by the city . . . . .	1 55	
Gravel furnished by the city . . . . .	18 84	
Steam roller furnished by the city . . . . .	78 50	
	<hr/>	\$801 67

*Kilby street*, from Milk street to Central street. Asphalted. Length, 390 feet. Area, 1,540 square yards.

Engineering and inspection furnished by the city . . . . .		\$264 73
Advertising furnished by the city . . . . .		15 10
Amount paid Jones & Meehan for excavating and removing surplus material . . . . .		36 00
Amount paid Jones & Meehan, under contract:		
18 square yards granite block paving laid, pitch joints, @ \$1 . . . . .	\$18 00	
15 square yards flagging cross- walks laid, pitch joints, @ \$1 . . . . .	15 00	
	<hr/>	
<i>Carried forward</i> . . . . .	\$33 00	\$315 83

<i>Brought forward</i> . . . . .	\$33 00	\$315 83
1,540 square yards bituminous concrete binder and asphalt wearing surface furnished and laid @ \$1.90 . . . . .	2,926 00	
12 cubic yards extra bituminous binder furnished and laid @ \$8 . . . . .	96 00	
60 cubic yards extra cement concrete base furnished and laid @ \$6 . . . . .	360 00	
Extra work — Lower catch-basin and reset edgestone and relay brick sidewalk at catch-basin:		
½ day, paver, @ \$5 . . . . .	2 50	
½ day, rammer, @ \$2.50 . . . . .	1 25	
3 hours labor @ 25c. . . . .	75	
5 hours, tender, @ 28½c. . . . .	1 41	
Plus 17 per cent on \$5.91 . . . . .	89	
50 paving brick @ \$12 . . . . .	60	
3 bags cement @ 50c. . . . .	1 50	
	<hr/>	3,423 90

\$3,739 73

Amount charged to appropriation for Street Department . . . . .	\$113 33
Amount charged to appropriation for street improvements . . . . .	3,626 40
	<hr/>

3,739 73

*Kneeland street*, from Washington street to Harrison avenue. Paved with large blocks on concrete base, with pitch joints and regulated. Length, 382 feet. Area, 1,443 square yards.

Engineering and inspection . . . . .	\$338 60
Edgestone furnished by the city, 2 feet 10 inches, circular, @ \$1.30 . . . . .	3 69
Edgestone furnished by the city, 4 feet 3½ inches, circular, @ \$1.20 . . . . .	5 15
Edgestone furnished by the city, 18 feet 7 inches, straight, @ 70c. . . . .	13 00
Flagging furnished by the city, 204 feet 3 inches @ 80c. . . . .	163 40
Bricks furnished by the city, 4,000 @ \$11 . . . . .	44 00
Stone furnished by the city, 210.05 tons @ \$1.60 . . . . .	336 08
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<i>Carried forward</i> . . . . .	\$903 92

<i>Brought forward</i> . . . . .		\$903 92
Advertising furnished by the city . . . . .		15 90
Engineering expense furnished by the city . . . . .		2 45
Templets furnished by the city . . . . .		4 37
Amount paid John Donley Company under contract:		
1,146 square yards, preparing site, @ 34c. . . . .	\$389 64	
341 linear feet edgestones set @ 8c. . . . .	27 28	
1,124 square yards concrete base furnished and laid @ 53½c.,	601 34	
1,066 square yards granite block paving furnished and laid, pitch joints, @ \$2.56 . . . . .	2,728 96	
27 square yards existing granite block paving relaid @ 50c.,	13 50	
42 square yards flagging cross- walks hauled and laid, pitch joints, @ 75c. . . . .	31 50	
11 square yards existing flagging crosswalks relaid @ 40c. . . . .	4 40	
239 square yards brick sidewalks laid @ 42c. . . . .	100 38	
	<hr/>	\$3,897 00
Less wharfage on 16,500 paving blocks delivered on Hecht's Wharf @ \$2 per M. . . . .	33 00	
	<hr/>	\$3,864 00
		\$4,790 64
Credit: 36,392 paving blocks @ \$20 per M. . . . .		727 84
		<hr/>
		<u>\$4,062 80</u>
<i>Lawn street</i> , from Heath street to Heath street. Roadway excavated and macadamized with 6-inch crushed stone. New edgestone set, gutters paved and crushed stone sidewalks built. Length, 1,470 feet. Area, 3,267 square yards. Work done by department force.		
Labor furnished by the city, excavation and inspection . . . . .		\$1,046 53
Labor furnished by the city, spreading mac- adam, etc. . . . .		471 35
		<hr/>
<i>Carried forward</i> . . . . .		\$1,517 88

<i>Brought forward</i> . . . . .		\$1,517 88
Labor furnished by the city, spreading stone on sidewalks . . . . .		88 75
Teaming furnished by the city, excavation . . . . .		170 24
Teaming furnished by the city, macadam . . . . .		73 71
Teaming furnished by the city, hauling blocks, . . . . .		84 49
Water cart furnished by the city . . . . .		58 24
Hauling edgestone furnished by the city . . . . .		180 64
Edgestone furnished by the city:		
54 feet 10 inches, circular edge,		
@ \$1.20 . . . . .	\$65	80
2 small corners @ \$3.60 . . . . .	7	20
2,588 feet 6½ inches @ \$70 . . . . .	1,811	98
		<hr/>
		1,884 98
Bricks furnished by the city, 600 @ \$11 . . . . .		6 60
Blocks furnished by the city, 31,515 @ \$20 . . . . .		630 30
Lumber furnished by the city . . . . .		15 69
Stone furnished by the city, 119.225 tons @ \$1.60, 1,112.875 tons @ \$1.35 . . . . .		1,693 14
Gravel furnished by the city . . . . .		4 80
Engineering expense furnished by the city . . . . .		3 20
Steam roller furnished by the city . . . . .		256 75
Amount paid Trimount Contracting Company under contract:		
526 cubic yards subgrading (earth excavation) @ 75c. . . . .	\$394	50
2 cubic yards subgrading (rock excavation) @ \$1.75 . . . . .	3	50
2,870 linear feet edgestones set @ 21c. . . . .	602	70
1,007 square yards granite block paving laid @ 50c. . . . .	503	50
45 square yards brick sidewalks laid @ 40c. . . . .	18	00
Extra work—Furnish stone-cutter to cut edgestone for driveway:		
5 hours, stonecutter, @ 62½c. . . . .	3	13
Plus 15 per cent on \$3.13 . . . . .		47
		<hr/>
		1,525 80
		<hr/>
		\$8,195 21
		<hr/>
<i>Lexington street</i> , from Putnam street to 250 feet beyond Prescott street. Excavated and removed macadam 1 foot deep. Paved with second-hand blocks on a gravel base. Length, 860 feet. Area, 1,916 square yards.		
Labor furnished by the city, excavating . . . . .	\$450	63
Labor furnished by the city, paving . . . . .	400	40
		<hr/>
<i>Carried forward</i> . . . . .	\$851	03

<i>Brought forward</i> . . . . .	\$851 03
Teaming furnished by the city, excavation . . . . .	330 77
Teaming furnished by the city, blocks, etc. . . . .	184 73
Edgestone furnished by the city . . . . .	6 30
Flagging furnished by the city . . . . .	30 36
Blocks furnished by the city, 425 @ \$70, 36,986 @ \$20 . . . . .	769 47
Gravel furnished by the city, 40 tons @ 78c., 214 tons @ 75c., 71 loads @ \$1.36 . . . . .	288 26
Steam roller furnished by the city . . . . .	48 75

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\$2,509 67

Amount charged to appropriation for Street Department . . . . .	\$146 81
Amount charged to appropriation for street improvements . . . . .	2,362 86

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2,509 67

*Main street*, from Beach street to Alford street, Repaved with old granite blocks. Length, 750 feet. Area, 68 square yards sidewalk paving and 1,446 square yards block paving; 63 feet edgestones reset.

Labor furnished by the city . . . . .	\$688 39
Teaming furnished by the city . . . . .	58 50
Bricks furnished by the city, 1,740 @ \$11 . . . . .	19 14
Lumber furnished by the city, 70 feet spruce @ \$24 . . . . .	1 68
Sand furnished by the city, 3 double loads @ \$1.20 . . . . .	3 60
Gravel furnished by the city, 105 double loads @ \$1.50 . . . . .	157 50

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\$928 81

Amount charged to appropriation for Street Department . . . . .	\$190 35
Amount charged to appropriation for street improvements . . . . .	738 46

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928 81

*Massachusetts avenue*, from Magazine street to Gerard street and from Shirley street to Magazine street, on the southerly side. Resurfaced with 6-inch macadam taken from Gerard street. Length, 2,205 feet. Area, 4,993 square yards.

Labor furnished by the city . . . . .	\$432 75
Teaming furnished by the city . . . . .	429 03

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*Carried forward* . . . . . \$861 78



<i>Brought forward</i> . . . . .	\$861 78
Gravel furnished by the city, 46½ tons, beach, @ 75c. . . . .	34 88
Steam roller furnished by the city . . . . .	305 50
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\$1,202 16

*Meridian street*, from Maverick square to Central square, repaved with new large granite blocks, edgestones reset, sidewalks and crosswalks relaid. 1,090 feet edgestone reset; 1,815 square yards excavation; 1,136 square yards brick paving; 2,502 square yards block paving.

Labor furnished by the city, excavation . . . . .	\$711 23
Labor furnished by the city, setting edgestone . . . . .	128 04
Labor furnished by the city, relaying bricks . . . . .	169 01
Labor furnished by the city, relaying paving and crossings . . . . .	771 83
Teaming furnished by the city, excavation . . . . .	325 10
Teaming furnished by the city, edgestone . . . . .	14 94
Teaming furnished by the city, brick paving . . . . .	27 00
Teaming furnished by the city, block paving and crossings . . . . .	171 61
Edgestone furnished by the city, 54 feet, circular, @ \$1.20 . . . . .	64 80
Edgestone furnished by the city, 62 feet 9 inches, straight, @ 70c. . . . .	43 91
Flagging furnished by the city, 25 feet, North River, @ 66c. . . . .	16 50
Flagging furnished by the city, 271 feet 9 inches, North River, old, @ 33c. . . . .	89 67
Bricks furnished by the city, 23,540 @ \$11 per M. . . . .	258 94
Blocks furnished by the city, 30 old @ \$20 per M. . . . .	60
Blocks furnished by the city, 64,734 @ \$64 per M. . . . .	4,142 97
Lumber furnished by the city, 90 feet spruce @ \$25 per M. . . . .	2 25
Stone furnished by the city, 3½ tons @ \$1.40 . . . . .	4 90
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<i>Carried forward</i> . . . . .	\$6,943 30

<i>Brought forward</i> . . . . .	\$6,943 30
Sand furnished by the city, 31 tons @ \$1 . . . . .	31 00
Sand furnished by the city, 5 single loads @ 68c. . . . .	3 40
Sand furnished by the city, 3½ double loads @ \$1 . . . . .	3 50
Sand furnished by the city, 6 double loads @ \$1.36 . . . . .	8 16
Gravel furnished by the city, 15 single loads @ 68c. . . . .	10 20
Gravel furnished by the city, 18 single loads @ 75c. . . . .	13 50
Gravel furnished by the city, 16 tons @ 75c. . . . .	12 00
Gravel furnished by the city, 165 double loads @ \$1.36 . . . . .	224 40
Cement furnished by the city, 3 bags @ 44c. . . . .	1 32

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\$7,250 78

Credit: 825 old blocks @ \$20 per M . . . . . 16 50

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\$7,234 28

Amount charged to appropriation for Street Department . . . . .	\$4,142 97
Amount charged to appropriation for street improvements . . . . .	3,091 31

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7,234 28

*Middle street*, from Dorchester street to Dorchester  
avenue. Resurfaced with 4-inch macadam.  
Length, 857 feet. Area, 1,333 square yards.

Labor furnished by the city . . . . .	\$389 13
Teaming furnished by the city . . . . .	6 70
Horse roller furnished by the city . . . . .	37 45
Stone furnished by the city . . . . .	289 86

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\$723 14

*Mt. Everett street*, from Quincy street to Hamilton  
street. Patched with macadam.

Labor furnished by the city . . . . .	\$108 01
Teaming furnished by the city . . . . .	136 13
Stone furnished by the city . . . . .	31 89
Gravel furnished by the city . . . . .	13 75
Steam roller furnished by the city . . . . .	45 50

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\$335 28

Amount charged to appropriation for Street Department . . . . .	\$170 01
Amount charged to appropriation for street improvement . . . . .	165 27

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335 28

*Neponset avenue*, from Adams to Ashmont street.

Resurfaced with 3-inch macadam (work unfinished). Length, 3,368 feet. Area, 3,650 square yards.

Labor furnished by the city . . .	\$196 25
Teaming furnished by the city . . .	130 75
Stone furnished by the city . . .	386 88
Steam roller furnished by the city . . .	123 50
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\$837 38

*New Heath street*, from Centre to Parker streets.

Resurfaced with 5-inch macadam. Length, 563 feet. Area, 1,820 square yards.

Labor furnished by the city . . .	\$460 88
Teaming furnished by the city . . .	59 08
Blocks furnished by the city . . .	5 00
Stone furnished by the city . . .	762 12
Gravel furnished by the city . . .	2 40
Steam roller furnished by the city . . .	143 00
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\$1,432 48

*Oak square*, at the intersection of Washington, Faneuil and Bigelow streets. Resurfaced with macadam 6 inches deep. Length, 906 feet. Area, 2,872 square yards.

Labor furnished by the city . . .	\$425 94
Teaming furnished by the city . . .	380 98
Stone furnished by the city . . .	1,056 93
Gravel furnished by the city . . .	54 00
Steam roller furnished by the city . . .	214 50
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\$2,132 35

*Park square*, from Boylston to Eliot streets. Wood block pavement (work done in 1907).

Engineering furnished by the city . . .	\$23 00
Amount paid United States Wood Preserving Company, under contract:	
4,792 square yards, preparing site, @ 50c. . . . .	\$2,396 00
820 linear feet edgestone set @ 21c. . . . .	172 20
4,792 square yards concrete base laid @ \$1 . . . . .	4,792 00
98 square yards granite block paving laid, gravel joints, @ 65c. . . . .	63 70
37 square yards granite block paving laid, pitch joints, @ \$1.20 . . . . .	44 40
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*Carried forward* . . . . . \$7,468 30

\$23 00

<i>Brought forward</i> . . . . .	\$7,468 30	\$23 00
55 square yards flagging cross-walks laid, pitch joints, @ \$1.20 . . . . .	66 00	
4,713 square yards wood block pavement laid @ \$3.25 . . . . .	15,317 25	
819 square yards brick sidewalks laid @ 35c. . . . .	286 65	
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	\$23,138 20	
Less 5,052 old granite blocks delivered to contractor @ \$25, . . . . .	126 30	
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	\$23,011 90	
Less amount paid in 1907 . . . . .	18,027 56	
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		4,984 34
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		\$5,007 34
Amount charged appropriation for Street Department . . . . .	\$465 29	
Amount charged appropriation for street improvements . . . . .	4,542 05	
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		5,007 34
		<hr/>
<i>Parker street</i> , from Fisher avenue to Heath street.		
Resurfaced with 4½-inch macadam. Length, 359 feet. Area, 1,543 square yards.		
Labor furnished by the city . . . . .	\$295 50	
Teaming furnished by the city . . . . .	52 85	
Bricks furnished by the city . . . . .	3 30	
Blocks furnished by the city . . . . .	1 00	
Stone furnished by the city . . . . .	316 19	
Sand furnished by the city . . . . .	1 40	
Steam roller furnished by the city . . . . .	65 00	
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		\$735 24
Amount charged appropriation for Street Department . . . . .	\$328 70	
Amount charged appropriation for street improvements . . . . .	406 54	
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		735 24
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<i>Providence street</i> , from west side of Church street to 170 feet easterly. Wood blocks on concrete base and regulating. Length, 173 feet. Area, 448 square yards; track area 83 square yards extra.		
Engineering and inspection . . . . .	\$151 62	
Teaming furnished by the city . . . . .	2 25	
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<i>Carried forward</i> . . . . .	\$153 87	

<i>Brought forward</i> . . . . .	\$153 87	
Flagging furnished by the city, 16½ feet @ 80c. . . . .	13 20	
Bricks furnished by the city, 6,400 @ \$11 . . . . .	70 40	
Engineering expenses furnished by the city . . . . .	1 15	
Amount paid United States Wood Preserving Company, under contract:		
447 square yards, preparing site, @ 50c. . . . .	223 50	
530 linear feet edgestone set @ 21c. . . . .	111 30	
447 square yards concrete base laid @ \$1 . . . . .	447 00	
373 square yards granite block paving laid, gravel joints, @ 65c. . . . .	242 45	
4 square yards granite block paving laid, pitch joints, @ \$1.05 . . . . .	4 20	
12 square yards flagging cross-walks laid, pitch joints, @ \$1.05 . . . . .	12 60	
431 square yards wood block pavement furnished and laid @ \$3.25 . . . . .	1,400 75	
441 square yards brick sidewalks laid @ 35c. . . . .	154 35	
Extra work—Dress old flagging and lay same in sidewalk in place of brick where directed:		
1½ days, foreman, @ \$3.20 . . . . .	5 20	
28½ hours, paver, @ 50c. . . . .	14 25	
8½ days, stonecutter, @ \$4.40 . . . . .	37 40	
12¾ days labor @ \$2 . . . . .	24 75	
Plus 15 per cent on \$81.60 . . . . .	12 24	
5 barrels Portland cement @ \$1.80 . . . . .	9 00	
152 cubic feet sand @ 4c. . . . .	6 08	
	\$2,943 69	
Credit: 12,835 old blocks @ \$20 . . . . .	256 70	
	<hr/>	\$2,686 99
Amount charged to appropriation for Street Department . . . . .	\$2,705 07	
<i>Carried forward</i> . . . . .	\$2,705 07	

<i>Brought forward</i> . . . . .	\$2,705 07
Amount charged to appropriation for street improvements . . . . .	238 62
	<u>\$2,943 69</u>
Less for 12,835 old paving blocks . . . . .	256 70

\$2,686 99

*Rutherford avenue*, from Baldwin street to Thorn-dike street. Repaved with old blocks and regulated. Length, 400 feet. Area, 2,453 square yards.

Labor furnished by the city . . . . .	\$143 50
Teaming furnished by the city . . . . .	87 44
Bricks furnished by the city . . . . .	72 05
Lumber furnished by the city . . . . .	3 25
Gravel furnished by the city . . . . .	43 50
Amount paid James J. Brock under contract:	
823 linear feet edgestone set @ 21c.,	\$172 83
2,453 square yards granite block paving laid @ 65c. . . . .	1,594 45
568 square yards brick sidewalks laid @ 35c. . . . .	198 80

1,966 08\$2,315 82

Amount charged to appropriation for Street Department . . . . .	\$93 62
Amount charged to appropriation for street improvements . . . . .	2,222 20

2,315 82

*Rutherford avenue*, from Tibbetts Town way to Chapman street. Repaved roadway with old blocks and regulated edgestones and sidewalks. Length, 1,550 feet. Area, 6,746 square yards block paving; 2,132 feet edgestone reset; 1,232 square yards brick paving:

Labor furnished by the city . . . . .	\$3,338 01
Teaming furnished by the city . . . . .	470 21
Hauling flagging furnished by the city,	7 03
Edgestone furnished by the city . . . . .	28 23
Flagging furnished by the city . . . . .	163 33
Bricks furnished by the city . . . . .	221 75
Blocks furnished by the city . . . . .	2 00
Lumber furnished by the city . . . . .	31 25
Sand furnished by the city . . . . .	94 80
Gravel furnished by the city . . . . .	1,800 75
Nails furnished by the city . . . . .	2 67
Cement furnished by the city . . . . .	9 19
Stone furnished by the city . . . . .	2 60

\$6,171 82

*Roxbury street*, from Eliot square to Columbus avenue. Resurfaced with 4½-inch macadam. Length, 471 feet. Area, 1,021 square yards, north side. Length, 368 feet. Area, 499 square yards, south side.

Labor furnished by the city . . .	\$149 76
Teaming furnished by the city . . .	24 64
Flagging furnished by the city . . .	18 65
Stone furnished by the city . . .	339 12
Steam roller furnished by the city . . .	104 00

\$636 17

*St. James avenue*, from Berkeley street to Huntington avenue. Resurfaced with 6-inch macadam, crossings relaid, coated with terracolio. Length, 967 feet. Area, 3,038 square yards.

Labor furnished by the city . . .	\$659 91
Teaming furnished by the city . . .	145 98
Blocks furnished by the city . . .	50
Stone and dust furnished by the city . . .	993 28
Gravel furnished by the city . . .	3 92
Terracolio furnished by the city, 440 gallons @ 15½ c. . . . .	68 20
Steam roller furnished by the city . . .	130 00

\$2,001 79

*Scollay square and Court street*, from Cornhill to Sudbury street. Paved with large blocks on a concrete base with pitch joints and regulated. Length, 530 feet. Area, 2,635 square yards.

Engineering and inspection . . . . .	\$550 49
Teaming furnished by the city . . . . .	1 79
Edgestone furnished by the city, 25 feet 7 inches @ 70c. . . . .	17 91
Bricks furnished by the city, 3,600 @ \$11 . . . . .	39 60
Stone furnished by the city, 510.30 tons @ \$1.60, . . . . .	816 48
Advertising furnished by the city . . . . .	15 30
Engineering expense furnished by the city . . . . .	1 10
Templets furnished by the city . . . . .	6 41
Amount paid to John I. Fitzgerald under contract:	

2,883 square yards, preparing site, @ 28c. . . . .	\$807 24
181 linear feet existing edgestone reset @ 11c. . . . .	19 91

*Carried forward* . . . . . \$827 15 \$1,449 08

<i>Brought forward</i> . . . . .	\$827 15	\$1,449 08
2,864 square yards concrete base furnished and laid @ 50c.,	1,432 00	
2,403 square yards granite block paving furnished and laid, pitch joints, @ \$2.50 . . . . .	6,007 50	
256 square yards existing granite block paving relaid, pitch joints, @ 80c. . . . .	204 80	
253 square yards flagging cross- walks furnished and laid, pitch joints, @ \$4.41 . . . . .	1,115 73	
4 square yards existing flagging crosswalks relaid, pitch joints, @ 80c. . . . .	3 20	
125 square yards existing brick sidewalks relaid @ 25c. . . . .	31 25	
Extra work — Lay sidewalk brick in cement at the north- erly side of Hanover street:		
8 hours, paver, @ 62½c. . . . .	5 00	
8 hours labor @ 25c. . . . .	2 00	
Plus 15 per cent on \$7 . . . . .	1 05	
1 barrel Portland cement . . . . .	1 75	
	<hr/>	9,631 43
		<hr/>
		\$11,080 51
Credit: 81,215 old paving blocks @ \$20, . . . . .		1,624 30
		<hr/>
		\$9,456 21
Amount charged to appropriation for Street Department . . . . .	\$8,354 04	
Amount charged to appropriation for street improvements . . . . .	1,102 17	
	<hr/>	9,456 21
		<hr/>
<i>Shawmut avenue</i> , from Lenox street to Sawyer street (work done in 1907). . . . .		
Amount paid to Daniel H. Shea for 1907 work,		<u>\$61 04</u>
<i>Southampton street</i> , from railroad bridge to Hilton street 400 feet easterly. Resurfaced with macadam taken from Gerard street. Length, 700 feet. Area, 3,500 square yards.		
Labor furnished by the city . . . . .	\$250 13	
Teaming furnished by the city . . . . .	256 50	
Gravel furnished by the city . . . . .	24 75	
Steam roller furnished by the city . . . . .	123 50	
	<hr/>	\$654 88
		<hr/>



*Stanley street*, from Quincy street to Sunset circle.

Roadway patched and sidewalks graveled.

Length, 555 feet. Area, 1,200 square yards.

Labor furnished by the city . . .	\$254 89	
Teaming furnished by the city . . .	151 87	
Stone furnished by the city . . .	7 62	
Gravel furnished by the city . . .	106 88	
Steam roller furnished by the city . . .	52 00	
		\$573 26

Amount charged to appropriation for  
Street Department . . . . . \$272 01

Amount charged to appropriation for  
street improvements . . . . . 301 25

573 26

*Sudbury street*, from Court street to Haymarket square. Paved with old blocks on gravel base, with gravel joints, and regulated edgestone, etc. Length, 901 feet. Area, 2,710 square yards. 1,800 feet edgestone reset, 1,575 square yards brick relaid.

Labor furnished by the city . . .	\$1,137 75	
Teaming furnished by the city . . .	287 87	
Edgestone furnished by the city . . .	9 51	
Flagging furnished by the city . . .	41 69	
Bricks furnished by the city . . .	51 98	
Blocks furnished by the city . . .	10 00	
Sand furnished by the city . . .	9 00	
Gravel furnished by the city . . .	153 61	
Cement furnished by the city . . .	1 48	
		\$1,702 89

\$1,702 89

*Summer street*, from Washington street to Hawley street. Wood blocks on concrete base and regulated. Length, 234 feet. Area, 688 square yards.

Engineering and inspection . . . . .		\$172 75
Mack bricks furnished by the city, 300 @ \$29.26,		8 78
Vitrified bricks furnished by the city, 551		
@ \$29.26 . . . . .		16 12
Templets furnished by the city . . . . .		4 27
Amount paid United States Wood Preserving Company under contract:		
719 square yards, preparing site,		
@ 50c. . . . .	\$359 50	
708 square yards concrete laid		
@ \$1 . . . . .	708 00	
5 square yards granite block paving laid, pitch joints, @		
\$1.05 . . . . .	5 25	

*Carried forward* . . . . . \$1,072 75

\$201 92

<i>Brought forward</i>	\$1,072 75	\$201 92
7 square yards flagging crosswalks laid, pitch joints, @ \$1.05	7 35	
688 square yards wood block pavement furnished and laid @ \$3.25	2,236 00	
Extra work — Omit wood block for crosswalks at Washington street and substitute brick block:		
2 hours, foreman, @ 40c.	80	
12 hours, paver, @ 50c.	6 00	
26 hours labor @ 25c.	6 50	
Plus 15 per cent on \$13.30	2 00	
5 hours double team @ 55c.	2 75	
3 bags cement @ 40c.	1 20	
1 double load sand	1 60	
		<u>3,336 95</u>
		\$3,538 87
Credit: 15,171 old paving blocks @ \$20		303 42
		<u>*\$3,235 45</u>

*Taylor street*, from Neponset avenue to railroad.  
Resurfaced with 9-inch macadam. Length, 547 feet. Area, 1,256 square yards.

Labor furnished by the city	\$805 49	
Teaming furnished by the city	601 25	
Stone furnished by the city, 383.475 tons @ \$1.46 $\frac{2}{3}$	562 38	
Steam roller furnished by the city	351 00	
		<u>\$2,320 12</u>
Amount charged to appropriation for Street Department	\$1,208 71	
Amount charged to appropriation for street improvements	1,111 41	
		<u>2,320 12</u>

*Vinton street*, from Preble street to Dorchester street. Resurfaced with 4-inch macadam. Length, 661 feet. Area, 1,358 square yards.

Labor furnished by the city	\$346 37	
Teaming furnished by the city	24 50	
Horse roller furnished by the city	61 53	
Trap rock furnished by the city	359 12	
		<u>\$791 52</u>

*Walk Hill street*, from Blue Hill avenue to Harvard street. New edgestone, gutters and crushed stone sidewalks (work done in 1907).

Labor furnished by the city . . .	\$26 50
Teaming furnished by the city . . .	1,529 25
Blocks furnished by the city . . .	81 83
Amount paid to Mark H. Lynch, under contract, for work done in 1907, balance due . . . . .	110 00

\$1,747 58

Amount charged to appropriation for Street Department . . . . .	\$1,637 58
Amount charged to appropriation for street improvements . . . . .	110 00

1,747 58

*Wall street*, from Causeway street to Minot street. Repaved with old blocks and regulated. Length 653 feet. Area, 1,573 square yards. 580 square yards brick relaid, 1,300 feet edgestone reset:

Labor furnished by the city . . .	\$735 02
Teaming furnished by the city . . .	170 25
Flagging furnished by the city . . .	17 11
Bricks furnished by the city . . .	77 00
Blocks furnished by the city . . .	21 00
Sand furnished by the city . . .	14 50
Gravel furnished by the city . . .	120 75
Cement furnished by the city . . .	70

\$1,156 33

*Walnut avenue*, from Circuit street to Humboldt avenue. Resurfaced with 4-inch macadam and westerly side coated with tarvia. Length, 1,497 feet. Area, 2,814 square yards.

Labor furnished by the city . . .	\$1,521 13
Teaming furnished by the city . . .	305 13
Edgestone furnished by the city . . .	9 68
Flagging furnished by the city . . .	6 10
Bricks furnished by the city . . .	9 91
Stone furnished by the city . . .	802 62
Sand furnished by the city . . .	6 30
Gravel furnished by the city . . .	44 80
Steam roller furnished by the city . . .	123 50
Tarvia furnished by the city . . .	107 55

\$2,936 72

Amount charged to appropriation for Street Department . . . . .	\$1,158 01
Amount charged to appropriation for street improvements . . . . .	1,778 71

2,936 72

*Ward street*, from *Dorchester street* to *Preble street*. Resurfaced with 6-inch macadam and regulated. Length, 510 feet. Area, 850 square yards.

Labor furnished by the city . . . . .	\$517 63
Horse roller furnished by the city . . . . .	54 84
Teaming furnished by the city . . . . .	6 70
Bricks furnished by the city . . . . .	66 00
Stone furnished by the city . . . . .	179 04
Sand furnished by the city . . . . .	14 00
Gravel furnished by the city . . . . .	15 00

\$853 21

Amount charged to appropriation for Street Department . . . . .	\$206 88
Amount charged to appropriation for street improvements . . . . .	646 33

853 21

*Warren street*, from *Kearsarge avenue* to *Moreland street* (work done in 1907).

Amount paid John B. Harlow under contract for work done in 1907 . . . . .	\$287 44
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\$287 44

*Washington street*, from *Dudley street* to *Bartlett street*. Repaved with old blocks. Length, 755 feet. Area, 1,666 square yards. Westerly side *Cliff street* to *Bartlett street* and *Cliff street* to *Dudley street*, easterly side *Cliff street* to *Bartlett street*. By Peter Gilligan, contractor:

Inspection furnished by the city . . . . .	\$48 00
Teaming furnished by the city . . . . .	2 24
Edgestone furnished by the city . . . . .	7 20
Flagging furnished by the city . . . . .	61 93
Bricks furnished by the city . . . . .	2 20

Amount paid to Peter Gilligan under contract:

8 linear feet edgestone set @ 21c. . . . .	\$1 68
1,044 square yards granite block paving laid @ 65c. . . . .	678 60
65 square yards brick sidewalk laid @ 35c. . . . .	22 75
Extra work — Repair portions of street as directed between <i>Cliff street</i> and <i>Dudley street</i> on the west side of <i>Washing-</i> <i>ton street</i> and between <i>Cliff</i>	

*Carried forward* . . . . . \$703 03

\$121 57

<i>Brought forward</i> . . . . .	\$703 03	\$121 57
street and Bartlett street on the east side of Washington street:		
622 square yards granite block pav- ing laid @ 65c. . . . .	404 30	
	<hr/>	1,107 33
		<u>\$1,228 90</u>
<i>Washington street</i> , from about 78 feet south of Court avenue to Cornhill; and <i>State street</i> , north and south of Old State House. Wood block paving on concrete base and regulated. Length, 513 feet Washington street. Area, 1,460 square yards; includes 290 feet of track. Length, 117 feet, State street, north. Area, 277 square yards north. Length, 123 feet, State street, south. Area, 327 square yards south.		
Engineering and inspection furnished by the city . . . . .		\$676 36
Teaming furnished by the city . . . . .		3 55
Edgestone, 50 feet 9 inches, furnished by the city, @ 70c. . . . .		35 53
Templets furnished by the city . . . . .		3 02
Advertising furnished by the city . . . . .		7 50
Amount paid to James Doherty, under con- tract. <i>Washington street</i> , from Cornhill to about 78 feet south of Court avenue:		
1,297 square yards, preparing site, @ 29c. . . . .	\$376 13	
1,297 square yards concrete base fur- nished and laid @ 75c. . . . .	972 75	
1,300 square yards wood block pave- ment furnished and laid @ \$2.66 . . . . .	3,458 00	
<i>State street</i> , north side, Washington street to Devonshire street:		
246 square yards, preparing site, @ 29c. . . . .	71 34	
246 square yards concrete base furnished and laid @ 75c. . . . .	184 50	
246 square yards wood block pave- ment furnished and laid @ \$2.66 . . . . .	654 36	
<i>State street</i> , south side, Washington street to Devonshire street:		
284 square yards, preparing site, @ 29c. . . . .	82 36	
<i>Carried forward</i> . . . . .	\$5,799 44	\$725 96

<i>Brought forward</i> . . . . .	\$5,799 44	\$725 96
284 square yards concrete base furnished and laid @ 75c. . . . .	213 00	
284 square yards wood block pavement furnished and laid @ \$2.66 . . . . .	755 44	
Extra work — (Washington street). Furnish and place cement mortar to fill spaces between the outer web of street car rail and wood blocks where directed:		
38 hours labor @ 25c. . . . .	9 50	
Plus 15 per cent on \$9.50 . . . . .	1 43	
4½ barrels Portland cement @ \$1.60 . . . . .	6 80	
52 cubic feet sand @ 5c. . . . .	2 60	
Extra work — (Washington street). Break out and reset in cement the edgestones on east side near State street, north:		
3 hours, edgestone setter, @ 62½c. . . . .	1 88	
5 hours, stonecutter, @ 60c. . . . .	3 00	
18 hours labor @ 25c. . . . .	4 50	
Plus 15 per cent on \$9.38 . . . . .	1 41	
1 barrel Portland cement . . . . .	1 60	
8 cubic feet sand @ 5c. . . . .	40	
Extra work — Relay flagging crosswalks, gravel joints, at intersections of State street (north and south) and Devonshire street:		
5 square yards flagging crosswalks relaid, State street, north, @ 65c. . . . .	3 25	
7 square yards flagging crosswalks relaid, State street, south, @ 65c. . . . .	4 55	
Extra work — Relay granite block paving, gravel joints, at intersection of State street, south, and Devonshire street:		
15 square yards granite block paving relaid @ 65c. . . . .	9 75	
<i>Carried forward</i> . . . . .	\$6,818 55	\$725 96

<i>Brought forward</i> . . . . .	\$6,818 55	\$725 96
Extra work— (State street, south). Cut out existing concrete base at Old State House where necessary:		
4 hours labor @ 25c. . . . .	1 00	
5 hours, stonemason, @ 60c. . . . .	3 00	
Plus 15 per cent on \$4 . . . . .	60	
	6,823 15	
		\$7,549 11
Credit: 43,890 old blocks @ \$20 . . . . .		877 80
		\$6,671 31

*Washington street*, from Blue Hill avenue to Talbot avenue. Surface excavated and resurfaced with 3-inch macadam. Length, 7,000 feet. Area, 15,000 square yards.

Labor furnished by the city . . . . .	\$1,876 12	
Teaming furnished by the city . . . . .	613 25	
Stone furnished by the city . . . . .	488 84	
Sand furnished by the city . . . . .	9 00	
Gravel furnished by the city . . . . .	5 92	
Steam roller furnished by the city . . . . .	682 50	
	\$3,675 63	
Amount charged to appropriation for Street Department . . . . .	\$2,594 03	
Amount charged to appropriation for street improvements . . . . .	1,081 60	
	3,675 63	

*Waumbeck street*, from Wabeno street to Humboldt avenue. Resurfaced with 4-inch macadam. Length, 300 feet. Area, 700 square yards.

Labor furnished by the city . . . . .	\$137 75	
Teaming furnished by the city . . . . .	10 50	
Edgestone furnished by the city . . . . .	14 00	
Blocks furnished by the city . . . . .	62 50	
Stone furnished by the city . . . . .	255 72	
Gravel furnished by the city . . . . .	9 60	
Steam roller furnished by the city . . . . .	65 00	
	\$555 07	
Amount charged to appropriation for Street Department . . . . .	\$213 25	
Amount charged to appropriation for street improvements . . . . .	341 82	
	555 07	

\* \$4,867.80 paid by Boston Transit Commission February 12, 1909.

*West Cedar street*, from Mt. Vernon street to Chestnut street. Reset edgestone, removed cobble gutters and relaid with old blocks, relaid sidewalks and crossings and resurfaced with 4-inch macadam. Length, 240 feet. Area, 171 square yards block gutter, 605 feet edgestone reset, 377 square yards macadam resurfaced, 361 square yards brick sidewalk relaid.

Labor furnished by the city . . . .	\$444 65
Teaming furnished by the city . . . .	97 30
Edgestone furnished by the city . . . .	8 75
Bricks furnished by the city . . . .	30 25
Blocks furnished by the city . . . .	134 98
Stone furnished by the city . . . .	65 60
Sand furnished by the city . . . .	6 75
Gravel furnished by the city . . . .	19 75
Lumber furnished by the city . . . .	1 45

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\$809 48

*West street*, from Tremont street to Washington street. Paved with wood blocks on a concrete base. Length, 468 feet. Area, 1,140 square yards.

Engineering and inspection furnished by the city . . . . .	\$304 67
Teaming furnished by the city . . . . .	5 00
Mack bricks, 30 @ \$29.26, furnished by the city . . . . .	88
Mack bricks, 887 @ \$32, furnished by the city, Asphalt repairs; paid Barber Asphalt Paving Company . . . . .	28 38
Engineering expense furnished by the city . . . . .	27 18
Templets furnished by the city . . . . .	1 50
Amount paid United States Wood Preserving Company under contract:	3 60
1,175 square yards, preparing site, @ 50c. . . . .	\$587 50
4 linear feet edgestone set @ 21c. . . . .	84
242 cubic yards concrete base laid @ \$6 . . . . .	1,452 00
1,156 square yards wood block pavement furnished and laid @ \$3.25 . . . . .	3,757 00
3 square yards brick sidewalks laid @ 35c. . . . .	1 05

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*Carried forward* . . . . . \$5,798 39

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\$371 21



<i>Brought forward</i> . . . . .	\$5,798 39	\$371 21
Extra work—Haul granite blocks as directed to the East Eagle street paving yard:		
325 tons, one mile overhaul, per half mile, per ton, @ 11c.,	71 50	
325 tons, ferry tollage per ton @ .037c. . . . .	12 03	
Extra work—Haul remainder of existing granite blocks to Lexington street between Putnam and Prescott streets:		
76 tons, one mile overhaul, per half mile, per ton, @ 11c.	16 72	
76 tons, ferry tollage per ton @ .037c. . . . .	2 81	
Extra work—Furnish stone-cutter:		
1 hour, stonecutter . . . . .	55	
Plus 15 per cent on 55c. . . . .	08	
Extra work—Omit granite flagging for crosswalk at Washington street and substitute brick block:		
5 hours, foreman, @ 40c. . . . .	2 00	
7 hours, paver, @ 50c. . . . .	3 50	
25 hours labor @ 25c. . . . .	6 25	
4 days, watchman, @ \$2 . . . . .	8 00	
Plus 15 per cent on \$19.75 . . . . .	2 96	
6 hours, single team, @ 43 $\frac{3}{4}$ c. . . . .	2 63	
2 barrels Portland cement @ \$1.75 . . . . .	3 50	
1 $\frac{1}{2}$ double loads sand @ \$1.60 . . . . .	2 40	
		5,933 32
		<u>\$6,304 53</u>
Credit: 25,205 old blocks @ \$20 . . . . .		504 10
		<u>\$5,800 43</u>

*Woodward street*, from Dorchester street to Dorchester avenue. Resurfaced with 4-inch macadam. Length, 672 feet. Area, 785 square yards.

Labor furnished by the city . . . . .	\$269 00
Horse roller furnished by the city . . . . .	54 84
Teaming furnished by the city . . . . .	3 50
Stone furnished by the city . . . . .	185 41

\$512 75

*Zeigler street*, from Washington street to Warren street. Granitoid concrete block pavement laid and regulated. Length, 315 feet. Area, 950 square yards.

Engineering and inspection furnished by the city . . . . .	\$124 88
Teaming furnished by the city . . . . .	17 92
Hauling edgestone furnished by the city . . . . .	2 12
Edgestone furnished by the city . . . . .	38 49
Engineer's expense furnished by the city . . . . .	1 35
Templets furnished by the city . . . . .	6 11
Amount paid to R. S. Blome Company, under contract:	
946 square yards, preparing site,	
@ 12c. . . . .	\$113 52
946 square yards granitoid concrete blocked pavement furnished and laid @ \$2.55 . . . . .	2,412 30
Extra work—Reset manhole cover to grade:	
1 cover reset . . . . .	3 00
	<hr/>
	2,528 82
	<hr/>
	\$2,719 69
Credit: 9,295 old blocks . . . . .	185 90
	<hr/>
	<u>\$2,533 79</u>

#### HIGHWAYS, MAKING OF.

*Ashland street*, from Mill street to Everdean street. Surfaced with 6-inch macadam roadway, edgestones set, granite block paving laid, flagging crosswalks laid and crushed stone sidewalks laid. Length, 289 feet. Area, 771 square yards.

Labor, including engineering and inspection . . . . .	\$64 62
Edgestone, circular, 9 feet 5 inches, furnished by the city, @ \$1.20 . . . . .	11 30
Edgestone, straight, 536 feet 8 inches, furnished by the city, @ 70c. . . . .	375 67
Flagging, 166 feet 11 inches, furnished by the city, @ 66c. . . . .	110 17
Blocks, 5,850, furnished by the city, @ \$47 . . . . .	274 95
Engineering expense furnished by the city . . . . .	1 05
	<hr/>
<i>Carried forward</i> . . . . .	\$837 76

<i>Brought forward</i> . . . . .	\$837 76	
Amount paid Philip Doherty, under contract:		
Removing trees, bushes, stumps, etc. . . . .	\$1 00	
132 cubic yards subgrading (earth excavation) @ 50c. . . . .	66 00	
574 linear feet edgestone set @ 23c. . . . .	132 02	
217 square yards granite block paving laid @ 50c. . . . .	108 50	
33 square yards flagging crosswalks laid @ 80c. . . . .	26 40	
30 square yards crushed stone sidewalks furnished and placed @ 55c. . . . .	16 50	
Extra work — Roll and shape portions of the macadam roadway and crushed stone sidewalks (where there has been no construction) as directed:		
44 hours, foreman, @ 50c. . . . .	22 00	
240 hours labor @ 25c. . . . .	60 00	
Plus 15 per cent on \$82 . . . . .	12 30	
40 hours, steam roller, @ \$1.87½ . . . . .	75 00	
8 hours, double team, @ 62½c. . . . .	5 00	
290 feet B. M. spruce plank and stakes @ \$25 M., . . . . .	7 25	
	<hr/>	531 97
		<hr/>
		<u>\$1,369 73</u>

*Avenue Louis Pasteur*, from Longwood avenue to the Fenway (work not done). Length, 1,355 feet. Area, 9,800 square yards.

Labor, including engineering and inspection . . . . .	\$1,343 75
Teaming furnished by the city . . . . .	3 00
	<hr/>
<i>Carried forward</i> . . . . .	\$1,346 75

<i>Brought forward</i> . . . . .	\$1,346 75	
Filling furnished by the city, 643.6 loads of 54 cubic feet @ 50c. . . . .	321 80	
Lumber furnished by the city, 120 feet spruce @ \$25 . . . . .	3 00	
Engineering expense furnished by the city . . . . .	1 10	
	<hr/>	\$1,672 65

*Bayswater street*, from Saratoga street to the easterly line of Austin avenue extended (unfinished work from 1907). Surfaced with 6-inch macadam, new edgestone set, block paving laid, flagging crosswalks and crushed stone sidewalks laid. Length, 1,120 feet. Area, 4,622 square yards.

Labor, including engineering and inspection . . . . .	\$47 75	
Teaming, water cart furnished by the city . . . . .	6 00	
Flagging, 25 feet North River, furnished by the city, @ \$1.34 . . . . .	33 50	
Blocks, 300, furnished by the city, @ \$62 . . . . .	18 60	
Engineering expense furnished by the city . . . . .	1 62	
Amount paid James Doherty under contract:		
1,163 cubic yards sub-grading (earth excavation) at 35c. . . . .	\$407 05	
2,203 linear feet edgestone set @ 17c. . . . .	374 51	
867 square yards granite block paving laid @ 50c. . . . .	433 50	
181 square yards flagging crosswalks laid @ 85c. . . . .	153 85	
4,166 square yards macadam surface furnished and placed @ 53c. . . . .	2,207 98	
1,724 square yards crushed stone sidewalks furnished and placed @ 49c. . . . .	844 76	
34 square yards loam furnished and placed @ 53c. . . . .	18 02	

<i>Carried forward</i> . . . . .	\$4,439 67	\$107 47
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<i>Brought forward.</i>	\$4,439 67	\$107 47
193.4 square yards slope paving furnished and placed @ \$2.35,	454 49	
19 covers reset @ \$3	57 00	
Extra work—Furnish stonecutter to dress circular edgestones:		
½ day, stonecutter, @ \$4	2 00	
Plus 15 per cent on \$2	30	
	<u>\$4,953 46</u>	
Less payments made in 1907	4,305 07	
		<u>648 39</u>

\$755 86

*Belfort street*, from Sagamore street to Saxton street (work not started).

Engineering expense	<u>\$23 50</u>
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*Bellevue street*, from Kane street to Hamilton street. Surfaced with 6-inch macadam roadway, edgestones set, block paving laid, flagging crosswalks and crushed stone sidewalks laid. Length, 493 feet. Area, 1,260 square yards.

Engineering and inspection	\$392 16
Edgestone furnished by the city, 44 feet 2 inches @ 70c.	30 92
Edgestone circles furnished by the city, 270 feet 11 inches @ \$1.30	352 20
Edgestone furnished by the city, 770 feet 3 inches @ 74½c.	573 84
Flagging furnished by the city, 222 feet 3 inches at 66c.	146 74
Blocks furnished by the city, 9,100 @ \$55	500 50
Engineering expense furnished by the city	3 15
Amount paid John McCourt, under contract:	
Removing trees, bushes, etc.	\$1 00
398 cubic yards subgrading (earth excavation) at 45c.	179 10

<i>Carried forward.</i>	\$180 10	\$1,999 51
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<i>Brought forward</i> . . . .	\$180 10	\$1,999 51
24 cubic yards sub- grading (rock ex- cavation) @ \$1.75,	42 00	
106 cubic yards filling furnished at 20c .	21 20	
1,095 linear feet edgestones set @ 21c. . . .	229 95	
389 square yards granite block paving laid @ 47c. . . .	182 83	
38 square yards flagging crosswalks laid @ 90c. . . .	34 20	
1,093 square yards mac- adam surface fur- nished and placed @ 68c. . . .	743 24	
644 square yards crushed stone sidewalks furnished and placed @ 50c. .	322 00	
11 covers reset @ \$3 .	33 00	
	<hr/>	1,788 52

\$3,788 03

Credit:

222 feet 3 inches North River flagging charged in 1909 @ 66c. . . .	\$146 74	
44 feet 1 inch North River flagging @ 66c. . . .	29 10	
14 feet 2 inches edge- stone @ 70c. . . .	9 92	
	<hr/>	185 76

\$3,602 27

*Bennington street*, from Chelsea street to Belle Isle inlet (work completed).

Engineering expense . . . . . \$8 00

*Benton street*, from Tremont street to Columbus avenue (work not started).

Engineering expense . . . . . \$52 10

*Bernard street*, from Talbot avenue to the railroad. Subgrading and filling, surfaced with 6-inch macadam roadway, edgestone set, vitrified brick gutters; crosswalks laid on a

concrete base, with grout joints, and crushed stone sidewalks laid. Length, 946 feet. Area, 2,800 square yards.

Engineering and inspection . . . . .	\$410 60
Advertising . . . . .	59 88
Engineering expense . . . . .	3 50

Amount paid William J. Barry, under contract:

Removing trees, bushes, etc. . . . .	\$0 00
627 cubic yards sub- grading (earth ex- cavation) @ 50c.,	313 50
5 cubic yards sub- grading (rock ex- cavation) @ \$1.75,	8 75
93 cubic yards filling furnished @ 75c.,	69 75
1,820 linear feet straight edgestone fur- nished and set @ 95c. . . . .	1,729 00
108 linear feet circular edgestone fur- nished and set @ \$1.50 . . . . .	162 00
11 square yards granite block paving fur- nished and laid @ \$2 . . . . .	22 00
28 square yards existing granite block pav- ing relaid @ 50c. . . . .	14 00
646 square yards brick block paving fur- nished and laid @ \$1.75 . . . . .	1,130 50
54 square yards brick crosswalks fur- nished and laid @ \$2.25 . . . . .	121 50
2,199 square yards mac- adam surface fur- nished and placed @ 68c. . . . .	1,495 32
1,406 square yards crushed stone sidewalks furnished and placed @ 30c. . . . .	421 80
<i>Carried forward . . . . .</i>	<u>\$5,488 12</u> <u>\$473 98</u>

<i>Brought forward</i> . . .	\$5,488 12	\$473 98
17 covers reset @ \$3 . . .	51 00	
Extra work — 4 hours, stonecutter, on gutter mouth, @ 60c. . . . .	2 40	
Plus 15 per cent on \$2.40 . . . . .	36	
	<hr/>	5,541 88
		<hr/> <u>\$6,015 86</u>

*Boardman street*, from Saratoga street to Boston & Maine Railroad (work not done).

Teaming filling furnished by the city . . . . . \$222 00

*Bruce street*, extended to Wrentham street. Surfaced with 6-inch macadam roadway, subgrading, edgestone set, gutter blocks laid, flagging crosswalks laid and crushed stone sidewalks laid. Length, 135 feet. Area, 435 square yards.

Labor including engineering and inspection furnished by the city . . . \$181 34

Teaming furnished by the city . . . 36 50

Flagging, 6 feet 4 inches, furnished by the city, @ 66c. . . . . 4 18

Stone, 139.075 tons, furnished by the city, @ \$1.60 . . . . . 222 52

Gravel, 26 double loads, furnished by the city, @ \$1.50 . . . . . 39 00

Engineering expense furnished by the city . . . . . 3 60

Steam roller furnished by the city . . . 39 00

Amount paid Daniel E. Lynch, under contract:

363 cubic yards subgrading (earth excavation) @ 55c. . \$199 65

370 linear feet edgestones set @ 25c. . . . . 92 50

210 square yards granite block paving laid @ 50c. . . . . 105 00

81 square yards flagging crosswalks laid @ 90c. . . . . 72 90

261 square yards macadam surface placed @ 40c. . . . . 104 40

*Carried forward* . . . . . \$574 45 \$526 14



<i>Brought forward</i> . . . .	\$574 45	\$526 14
221 square yards crushed stone sidewalks placed @ 37c. . . .	81 77	
11 square yards brick sidewalks laid @ 40c. . . . .	4 40	
1 manhole cover reset, Extra work — Re- build catch-basins and manholes:	3 00	
3½ days, foreman, @ \$3.25 . . . . .	12 25	
14¼ days labor @ \$2.25, . . . .	32 06	
6 days, tender, @ \$2.50 . . . . .	15 00	
3 days, mason, @ \$6 . . . . .	18 00	
Plus 15 per cent on \$77.31 . . . . .	11 60	
1,650 sewer brick @ \$11 . . . .	18 15	
4 barrels cement @ \$2, . . . .	8 00	
2 double loads sand @ \$2 . . . . .	4 00	
6 square feet North River flagging @ 33½c. . . . .	2 00	
Extra work—Haul- ing crushed stone and screenings from Columbia road crusher in- stead of from Cod- man street crusher:		
135.1 tons, two miles over- haul, per half mile, per ton, @ 11c., . . . . .	59 44	
	<hr/>	\$844 12
Less three days' use of city steam roller @ \$13 . . . . .	39 00	
	<hr/>	\$805 12
Less previous pay- ment . . . . .	336 23	
	<hr/>	468 89
		<hr/>
		\$995 03
Credit: 200 blocks @ \$55 . . . .	11 00	
	<hr/>	<hr/>
		\$984 03

*Carmen street*, from Shafter street to Kilton street (work not started).

Engineering . . . . . \$90 25

*Causeway street*,\* from near Beverly street to the Charlestown Bridge. Repaved with granite blocks, with pitch joints, on a concrete base, edgestones set, flagging crosswalks and brick sidewalks laid. (Work done in 1907.) Length, 312 feet. Area, 2,410 square yards.

Engineering . . . . . \$3 50  
 Amount paid William H. Cuddy,  
 under contract, being balance from  
 1907 . . . . . 535 04  
\$538 54

*Claybourne street*, from Dakota street to Bowdoin street. Surfaced with 6-inch macadam roadway, artificial stone sidewalks laid, edgestones set, block paved gutters and flagging crosswalks laid. (Work done in 1907.) Length, 350 feet. Area, 1,011 square yards.

Engineering . . . . . \$3 75  
 Amount paid Sylvester Connolly,  
 under contract, being balance from  
 1907 . . . . . 201 69  
\$205 44

*Clement avenue*, from Meredith street to Stratford street (work done in 1907).

Credit on vitrified bricks in 1907 . . . . . \$358 87

*Corona street*, from Bowdoin street to Geneva avenue. Surfaced with 6-inch macadam roadway and artificial stone sidewalks laid, subgrading, edgestones set, vitrified brick gutter; crosswalks laid on a concrete base, with grout joints. (Work not finished.) Length, 1,001 feet. Area, 2,558 square yards.

Labor, including engineering and inspection . . . . . \$570 25  
 Teaming furnished by the city . . . . . 14 12  
 Stone furnished by the city . . . . . 4 86  
 Advertising furnished by the city . . . . . 116 50  
 Engineering expense furnished by the city . . . . . 2 25  
 Steam roller furnished by the city . . . . . 26 00  
*Carried forward* . . . . . \$733 98

\* \$1,189.78 paid by Boston Elevated Railway Company.

*Brought forward* . . . . . \$733 98  
 Amount paid William J. Barry, under  
 contract:

734 cubic yards sub- grading (earth ex- cavation) @ 45c.,	\$330 30
2 cubic yards sub- grading (rock ex- cavation) @ \$1.75,	3 50
1,883 linear feet straight edgestone fur- nished and set @ 95c. . . . .	1,788 85
25 linear feet circular edgestone fur- nished and set @ \$1.50 . . . . .	37 50
173 linear feet existing edgestone reset @ 20c . . . . .	34 60
53 square yards exist- ing granite block paving relaid @ 50c. . . . .	26 50
696 square yards brick block paving fur- nished and laid @ \$1.75 . . . . .	1,218 00
33 square yards brick crosswalks fur- nished and laid @ \$2.25 . . . . .	74 25
1,883 square yards macad- am surface fur- nished and placed @ 68c. . . . .	1,280 44
67 square yards crushed stone sidewalks furnished and placed, 1 inch deep, @ 9½c. . . . .	6 37
16 covers reset @ \$3 . . . . .	48 00
	4,848 31

Amount paid Jeremiah J. Sullivan,  
 under contract:

4,690 square feet artificial stone sidewalks furnished and laid @ 14.9c. . . . .	\$698 81
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<i>Carried forward</i> . . . . .	\$698 81	\$5,582 29
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<i>Brought forward</i> . . . . .	\$698 81	\$5,582 29	
5,500 square feet artificial stone sidewalks furnished and laid (unfinished) @ 6c.,	330 00		
			\$1,028 81
Less 15 per cent retained . . . . .	154 32		
			874 49
			<u>\$6,456 78</u>

*Cottage street*, from *Maverick street* to the northeasterly line of *Gove street*. Surfaced with 6-inch macadam roadway, edgestones set, block gutters and flagging crosswalks laid and crushed stone sidewalks laid, subgrading, and brick sidewalks laid. Length, 663 feet. Area, 2,278 square yards.

Labor furnished by the city, including engineering and inspection . . . . .		\$112 25	
Edgestone furnished by the city, 60 feet 5 inches, circular, @ \$1.30 . . . . .		78 54	
Edgestone furnished by the city, 261 feet 10 inches @ 74c. . . . .		193 76	
Edgestone furnished by the city, 825 feet 10 inches @ 78c. . . . .		644 15	
Blocks furnished by the city, 10,025 @ \$62 . . . . .		621 55	
Bricks furnished by the city, 5,000 @ \$11.50 . . . . .		57 50	
Bricks furnished by the city, 21,550 @ \$11 . . . . .		237 05	
Flagging furnished by the city, 176 feet 1 inch North River @ \$1.34 . . . . .		235 95	
Engineering expense furnished by the city . . . . .		2 90	
Amount paid James Doherty, under contract:			
Removing trees, bushes, stumps, etc. . . . .	\$1 00		
443 cubic yards sub- grading (earth ex- cavation) @ 47c. . . . .	208 21		
1,238 linear feet edgestone set @ 20c. . . . .	247 60		
			<u>\$456 81</u>
<i>Carried forward</i> . . . . .	\$456 81	\$2,183 65	

<i>Brought forward</i> . . . .	\$456 81	\$2,183 65
446 square yards granite block paving laid @ 67c. . . .	298 82	
55 square yards flagging crosswalks laid @ 97c. . . .	53 35	
1,902 square yards macadam surface furnished and placed @ 56c. . . .	1,065 12	
424 square yards crushed stone sidewalks furnished and placed @ 51c. . . .	216 24	
522 square yards brick sidewalks laid @ 44c. . . .	229 68	
5 covers reset @ \$3 . . . .	15 00	
Extra work — Furnish stonecutter to dress flagging, 6 hours @ 50c. . . .	3 00	
Plus 15 per cent on \$3 . . . .	45	
Extra work — Haul flagging from South Boston paving yard instead of from South End paving yard, 19.6 tons, one mile overhaul, per half mile, per ton, @ 11c. . . .	4 31	
Overhaul — Section 1, Article E:		
5 tons surplus material hauled more than one mile and not more than one and one-half miles, one-half mile overhaul, per half mile, per ton, @ 11c. . . .	55	
Extra work — Furnish and place filling at approaches		
<i>Carried forward</i> . . . .	<u>\$2,343 33</u>	<u>\$2,183 65</u>

<i>Brought forward</i> . . . . .	\$2,343 33	\$2,183 65
to Gove street and Cottage street:		
34½ cubic yards filling furnished and placed @ 50c. . . . .	17 25	
Extra work — Re- set edgestone and repave gutter over water trench:		
2½ hours, paver, @ 62½c. . . . .	1 56	
1½ hours, rammer, @ 28½c. . . . .	42	
2½ hours, tender, @ 25c. . . . .	62	
Plus 15 per cent on \$2.60 . . . . .	39	
	<hr/>	2,363 57
		\$4,547 22
Credit:		
775 blocks @ \$68 . . . . .	\$18 70	
24 feet 7 inches edge- stone @ 70c. . . . .	17 21	
2 small corners @ \$3.60 . . . . .	7 20	
	<hr/>	43 11
		<u>\$4,504 11</u>

*Cottage terrace*, from East Cottage street to Marshfield street  
(work not started).

Engineering . . . . .	<u>\$10 00</u>
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*Cotton street*, from Walter street to Fairview street. Surfaced with  
6-inch macadam roadway and artificial stone sidewalks  
laid, subgrading, edgestones set, granite paved gutters  
laid, vitrified brick block gutters, and crosswalks laid on a  
concrete base, with grout joints, and loam spaces filled and  
seeded. Length, 1,435 feet. Area, 2,083 square yards  
roadway and 6,552 square feet sidewalks.

Labor, including engineering and in- spection . . . . .	\$644 09
Teaming furnished by the city . . . . .	89 25
Stone furnished by the city, 17.975 tons @ \$1.60 . . . . .	28 76
Stone furnished by the city, 23.825 tons @ \$1.25 . . . . .	29 78
Mack bricks furnished by the city, 530 @ \$32 . . . . .	16 96
	<hr/>
<i>Carried forward</i> . . . . .	\$808 84

<i>Brought forward</i> . . . . .	\$808 84	
Gravel furnished by the city, 1 double load . . . . .	1 40	
Cement furnished by the city, 1 $\frac{1}{4}$ barrels @ \$1.75 . . . . .	2 19	
Advertising furnished by the city . . . . .	145 91	
Engineering expense furnished by the city . . . . .	4 40	
Steam roller furnished by the city . . . . .	97 50	
Amount paid Thomas A. Nolan, under contract:		
6,552 square feet artificial stone sidewalks furnished and laid @ 16 $\frac{1}{4}$ c. . . . .	\$1,064 70	
Extra work — Built underdrains for sidewalks . . . . .	31 00	
	<hr/>	1,095 70
Amount paid Peter F. Connolly, under contract:		
Removing trees, bushes, etc. . . . .	\$1 00	
1,073 cubic yards sub-grading (earth excavation) @ 39c. . . . .	418 47	
26 cubic yards sub-grading (rock excavation) @ \$1.75, . . . . .	45 50	
1,396 linear feet straight edgestone furnished and set @ 98c. . . . .	1,368 08	
25 linear feet circular edgestone furnished and set @ \$1.80 . . . . .	45 00	
78 linear feet existing edgestone reset @ 60c. . . . .	46 80	
22 square yards granite block paving furnished and laid @ \$1.80 . . . . .	39 60	
64 square yards existing granite block paving relaid @ 40c. . . . .	25 60	
<i>Carried forward</i> . . . . .	<hr/>	\$1,990 05 \$2,155 94

<i>Brought forward</i> . . . . .	\$1,990 05	\$2,155 94	
494 square yards brick block paving fur- nished and laid @ \$1.74 . . . . .	859 56		
12 square yards existing flagging crosswalks relaid @ 60c. . . . .	7 20		
26 square yards brick crosswalks fur- nished and laid @ \$2.35 . . . . .	61 10		
1,675 square yards mac- adam surface fur- nished and placed @ 59c. . . . .	996 63		
274 square yards loam furnished, placed and seeded @ 44c.,	120 56		
12 covers reset @ \$3 . . . . .	36 00		
	<u>\$4,071 10</u>		
Less 500 vitrified brick @ \$29.26 M.,	14 63		
	<u>4,056 47</u>		
		<u>\$6,212 41</u>	

*Covington street*, from East Eighth street to Columbia road  
(work not started).

Engineering . . . . .	<u>\$80 75</u>
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*Dakota street*, from Greenbrier street to Geneva avenue. Sur-  
faced with 6-inch macadam, edgestones set, block gutters  
laid, vitrified brick crosswalks laid on a concrete base,  
with grout joints, and artificial stone sidewalks laid.  
Length, 1,453 feet. Area, 4,240 square yards.

Labor, including engineering and in- spection . . . . .	\$829 37
Teaming furnished by the city . . . . .	14 50
Stone furnished by the city . . . . .	9 93
Advertising furnished by the city . . . . .	121 58
Engineering expense furnished by the city . . . . .	5 70
Steam roller furnished by the city . . . . .	13 00
Artificial stone sidewalk rebate . . . . .	42 66
	<u>\$1,036 74</u>
<i>Carried forward</i> . . . . .	



<i>Brought forward</i> . . . . .	\$1,036 74
Amount paid Jeremiah J. Sullivan, under contract:	
16,899 square feet artificial stone sidewalks furnished and laid @ 15c. . . . .	\$2,534 85
Extra work — Re- moving boulder in sidewalk:	
4 hours, stonecutter, @ 60 c. . . . .	2 40
Plus 15 per cent on \$2.40 . . . . .	36
	<hr/> 2,537 61

Amount paid William J. Barry, under  
contract:

Removing trees, bushes, etc. . . . .	\$25 00
1,117 cubic yards sub- grading (earth ex- cavation) @ 45c., . . . . .	502 65
1 cubic yard sub- grading (rock ex- cavation) . . . . .	1 75
2,629 linear feet straight edgestone fur- nished and set @ 95c. . . . .	2,497 55
103 linear feet circular edgestone fur- nished and set @ \$1.50 . . . . .	154 50
191 linear feet existing edgestone reset @ 20c. . . . .	38 20
77 square yards existing granite block pav- ing relaid @ 50c., . . . . .	38 50
990 square yards brick block paving fur- nished and laid @ \$1.75 . . . . .	1,732 50
38 square yards exist- ing flagging cross- walks relaid @ 50c. . . . .	19 00

<i>Carried forward</i> . . . . .	\$5,009 65	\$3,574 35
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<i>Brought forward</i> . . . . .	\$5,009 65	\$3,574 35
83 square yards brick crosswalks furnished and laid @ \$2.25 . . . . .	186 75	
3,255 square yards macadam surface furnished and placed @ 68c. . . . .	2,213 40	
15 covers reset @ \$3 . . . . .	45 00	
Extra work — Omit crushed stone sidewalks:		
32 hours labor @ 25c. . . . .	8 00	
Plus 15 per cent on \$8 . . . . .	1 20	
Extra work — Relay brick gutter near Greenbrier street:		
5 hours labor @ 25c., . . . . .	1 25	
2 hours, paver, @ 50c., . . . . .	1 00	
1 hour, rammer . . . . .	28	
Plus 15 per cent on \$2.53 . . . . .	38	
	—————	7,466 91
		<u>\$11,041 26</u>

*Dayton street*, from Nixon street southwesterly to the railroad (work not started).

Engineering . . . . . \$4 00

*Everdean street*, from Green Hill street to Ashland street (unfinished work from 1907). Length, 397 feet. Area, 1,147 square yards. Subgraded, edgestones set, block gutters laid, flagging crosswalks laid and crushed stone sidewalks laid.

Labor, including engineering and inspection . . . . .	\$115 44
Edgestone furnished by the city, 2 small corners @ \$3.60 . . . . .	7 20
Edgestone furnished by the city, 18 feet 10 inches, circular, @ \$1.30 . . . . .	24 49
Edgestone furnished by the city, 37 feet 4 inches, circular, @ \$1.20 . . . . .	44 80
Edgestone furnished by the city, 165 feet, straight, @ 74½c. . . . .	122 93
Edgestone furnished by the city, 566 feet, straight, @ 70c. . . . .	396 20

*Carried forward* . . . . . \$711 06

<i>Brought forward</i> . . . . .	\$711 06	
Flagging furnished by the city, 166 feet 8 inches North River @ 66c. . . . .	110 00	
Blocks furnished by the city, 7,275 @ \$55 . . . . .	400 12	
Engineering expense furnished by the city . . . . .	65	
Amount paid John W. Collins, under contract:		
Removing trees, bushes, stumps, etc., \$1 00		
295 cubic yards subgrading (earth excavation) @ 50c. . . . .	147 50	
825 linear feet edgestones set @ 22½c. . . . .	185 63	
291 square yards granite block paving laid @ 50c. . . . .	145 50	
37 square yards flagging crosswalks laid @ 70c. . . . .	25 90	
655 square yards crushed stone sidewalks furnished and placed @ 50c. . . . .	327 50	
	<hr/>	833 03
		<hr/>
		<u>\$2,054 86</u>

*Everdean street*, from Green Hill street to Preston street (unfinished work from 1907). Surfaced with macadam. Subgrading, edgestones set, block gutters laid, flagging crosswalks laid and crushed stone sidewalks placed. Length, 411 feet. Area, 982 square yards.

Engineering and inspection . . . . .	\$226 26
Edgestone furnished by the city, 37 feet 9 inches, circular, @ \$1.30 . . . . .	49 08
Edgestone furnished by the city, 759 feet 6 inches, straight, @ 74½c. . . . .	565 83
Flagging furnished by the city, 105 feet 2 inches @ 66c. . . . .	69 41
Flagging furnished by the city, 84 feet 11 inches @ \$1.35 . . . . .	114 64
Blocks furnished by the city, 8,351 @ \$55 . . . . .	459 31
Engineering expense furnished by the city . . . . .	2 50
	<hr/>
<i>Carried forward</i> . . . . .	\$1,487 03

<i>Brought forward</i> . . . . .	\$1,487 03	
Amount paid Philip Doherty, under contract:		
Removing trees, bushes, stumps, etc.,	1 00	
485 cubic yards subgrading (earth excavation) @ 50c. . . . .	242 50	
865 linear feet edgestones set @ 23c. . . . .	198 95	
327 square yards granite block paving laid @ 50c. . . . .	163 50	
41 square yards flagging crosswalks laid @ 80c. . . . .	32 80	
809 square yards macadam surface furnished and placed @ 63c. . . . .	509 67	
805 square yards crushed stone sidewalks furnished and placed @ 57c. . . . .	458 85	
2 covers reset @ \$3 . . . . .	6 00	
471 tons surplus material hauled to Norwood street, one-half mile overhaul, per half mile, per ton, @ 11c.,	51 81	
	<u>1,665 08</u>	
		<u>\$3,152 11</u>

*Evergreen street*, from South Huntington avenue about 443 feet easterly. Grading (uncompleted).

Engineering and inspection . . . . .	\$343 28	
Advertising . . . . .	42 00	
Amount paid Mark H. Lynch, under contract:		
450 cubic yards earth excavation @ 60c. . . . .	\$270 00	
435 cubic yards rock excavation @ 60c. . . . .	261 00	
	<u>\$531 00</u>	
Less 15 per cent retained . . . . .	79 65	
	<u>451 35</u>	
		<u>\$836 63</u>

*Farquhar street*, from South street to Selwyn street (work not started).

Engineering . . . . .		<u>\$117 25</u>
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*Fletcher street*, from Centre street to South street (work not started).

Engineering . . . . .	<u>\$220 00</u>
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*Fottler road*, from Walk Hill street to Tileston avenue (work done in 1907).

Engineering expense . . . . .	\$1 80
Final payment to Fried L. Williams, under contract . . . . .	349 73
	<u>\$351 53</u>

*Frankfort street*, from Maverick street to Gove street. Surfaced with 6-inch macadam, edgestones set, block gutters laid, flagging crosswalks laid, brick sidewalks laid and crushed stone sidewalks laid. Length, 608 feet. Area, 2,297 square yards.

Engineering and inspection . . . . .	\$116 00
Edgestone furnished by the city, 8 small corners @ \$3.60 . . . . .	28 80
Edgestone furnished by the city, 47 feet 3 inches, circular, @ \$1.30 . . . . .	61 42
Edgestone furnished by the city, 515 feet 2 inches, straight, @ 74c. . . . .	381 22
Edgestone furnished by the city, 571 feet 11 inches, straight, @ 70c. . . . .	400 34
Flagging furnished by the city, 165 feet 5 inches granite @ 85c. . . . .	140 60
Flagging furnished by the city, 183 feet 4 inches @ \$1.34 . . . . .	245 66
Bricks furnished by the city, 25,000 @ \$11 . . . . .	275 00
Blocks furnished by the city, 11,433 @ \$62 . . . . .	708 85
Engineering expense furnished by the city . . . . .	3 89
Amount paid James Doherty, under contract:	
Removing trees, bushes, stumps, etc. . . . .	\$2 00
787 cubic yards sub- grading (earth ex- cavation) @ 48c. . . . .	377 76
1,228 linear feet edgestones set @ 21c. . . . .	257 88
481 square yards granite block paving laid @ 68c. . . . .	327 08

<i>Carried forward</i> . . . . .	<u>\$964 72</u> <u>\$2,361 78</u>
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<i>Brought forward</i> . . . . .	\$964 72	\$2,361 78
59 square yards flagging crosswalks laid @ 98c. . . . .	67 62	
1,895 square yards mac- adam surface fur- nished and laid @ 57c. . . . .	1,080 15	
326 square yards crushed stone sidewalks furnished and laid @ 52c. . . . .	169 52	
602 square yards brick sidewalks laid @ 45c. . . . .	270 90	
10 covers reset @ \$3 . . . . .	30 00	
Extra work—Fur- nish stonecutter to dress flagging: 16½ hours, stonecutter, @ 50c. . . . .	8 25	
Plus 15 per cent on \$8.25 . . . . .	1 24	
Extra work—Haul- ing flagging from South Boston pav- ing yard instead of from South End paving yard: 28 tons, one mile over- haul, per half mile, per ton, @ 11c. . . . .	6 16	
Overhaul—Section 1, Article E: 12 tons surplus mate- rial hauled more than one mile and not more than one and one-half miles, one-half mile over- haul, per half mile, per ton, @ 11c. . . . .	1 32	
	<hr/>	2,599 88
		<hr/> <hr/>
		\$4,961 66

*Harlem street*, from Glenway street to Glenwood street. Sub-  
grading, surfaced with 6-inch macadam, edgestones set,  
block gutters laid, vitrified brick block gutters, and cross-

walks laid on a concrete base, with grout joints. Length, 582 feet. Area, 1,681 square yards.

Engineering and inspection . . . . .	\$253 50
Advertising . . . . .	58 80
Engineering expense . . . . .	1 65

Amount paid James Doherty, under contract:

Removing trees, bushes, etc. . . . .	\$1 00
185 cubic yards subgrading (earth excavation) @ 43c. . . . .	79 55
6 linear feet straight edgestones furnished and set @ \$1 . . . . .	6 00
21.5 linear feet circular edgestones furnished and set @ \$1.50 . . . . .	32 25
26 square yards existing granite block paving relaid @ 50c., . . . . .	13 00
393 square yards brick block paving furnished and laid @ \$1.79 . . . . .	703 47
37 square yards brick crosswalks furnished and laid @ \$2.50 . . . . .	92 50
1,310 square yards macadam surface furnished and placed @ 65c. . . . .	851 50
5 square yards crushed stone sidewalks furnished and placed @ 50c. . . . .	2 50
6 covers reset @ \$3 . . . . .	18 00
	<hr/>
	1,799 77

\$2,113 72

*Hobson street*, from Faneuil street to Hobart street (work done in 1907).

Engineering . . . . .	\$21 00
Final payment to Thomas J. Young Company, under contract, for work done in 1907. . . . .	87 84

\$108 84

*Kerwin street*, from Talbot avenue to Bernard street (work done in 1907).

Engineering expense . . . . .	<u>\$1 80</u>
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*Kilton street*, from Harvard street to Park street. Subgrading and filling. Surfaced with 6-inch macadam, edgestones set, block gutters laid, flagging crosswalks laid and crushed stone sidewalks placed. Length, 842 feet. Area, 2,432 square yards. Work begun in 1907.

Engineering and inspection . . . . .	\$20 75
Teaming furnished by the city . . . . .	24 50
Blocks furnished by the city, 5,538 @ \$55 . . . . .	304 59
Stone furnished by the city, 22.525 tons @ \$1.60 . . . . .	36 04
Engineering expense . . . . .	75

Amount paid Philip Doherty, under contract:

294 cubic yards subgrading (earth excavation) @ 47c. . . . .	\$138 18
95 cubic yards filling @ 90c. . . . .	85 50
1,545 linear feet edgestones set @ 24c. . . . .	370 80
662 square yards granite block paving laid @ 50c. . . . .	331 00
45 square yards flagging crosswalks laid @ 80c. . . . .	36 00
2,109 square yards macadam surface placed @ 30c. . . . .	632 70
1,135 square yards crushed stone sidewalks placed @ 23c. . . . .	261 05
7 covers reset @ \$3 . . . . .	21 00

Extra work—Re-pave gutter and reset edgestones on account of settlement caused by water trenches:

5½ hours, paver, @ 62½c. . . . .	3 44
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<i>Carried forward</i> . . . . .	\$1,879 67	\$386 63
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<i>Brought forward</i> . . .	\$1,879 67	\$386 63
5½ hours labor @		
25c. . . . .	1 37	
Plus 15 per cent		
on \$4.81 . . . . .	72	
Extra work — Raise		
and lower man-		
hole covers over 6		
inches:		
12 hours, bricklayer, @		
55c. . . . .	6 60	
27½ hours labor @		
25c. . . . .	6 88	
Plus 15 per cent		
on \$13.48 . . . . .	2 02	
1,100 bricks @ \$12 M. . . . .	13 20	
3 barrels cement @		
\$1.25 . . . . .	3 75	
1 double load sand . . . . .	2 00	
	<hr/>	
	\$1,916 21	

Omit hauling of  
crushed stone and  
screenings for mac-  
adam and crushed  
stone sidewalks:

Less 1,108 tons of		
crushed stone de-		
livered on site of		
work by city @		
34c. per ton . . . . .	376 72	
	<hr/>	
	1,539 49	

\$1,926 12

*Larchmont street*, from Waldeck street to Greenbrier street. Sub-  
grading, surfacing with 6-inch macadam, edgestones set,  
block gutters laid, flagging crosswalks laid, loam furnished  
and placed and artificial stone sidewalks laid. Length,  
1,077 feet. Area, 3,343 square yards.

Engineering and inspection . . . . .	\$437 77
Edgestone furnished by the city, 219	
feet 3 inches @ 74½c. . . . .	163 34
Edgestone furnished by the city,	
1,370 feet 4 inches @ 75c. . . . .	1,027 75
Blocks furnished by the city, 16,835	
@ \$55 . . . . .	925 93
Engineering expense furnished by the	
city . . . . .	3 25
	<hr/>
<i>Carried forward</i> . . . . .	\$2,558 04

<i>Brought forward</i> . . .	\$2,558 04	
Amount paid D. E. Coleman Company, under contract:		
Removing trees, bushes, etc. . . . .	30 00	
901 cubic yards sub- grading (earth ex- cavation) @ 45c.,	405 45	
2,110 linear feet edgestone set @ 23c. . . . .	485 30	
710 square yards granite block paving laid @ 45c. . . . .	319 50	
17 square yards flagging crosswalks laid @ 75c. . . . .	12 75	
2,417 square yards macad- am surface fur- nished and placed @ 58c. . . . .	1,401 86	
397 square yards loam furnished and placed @ 45c. . . . .	178 65	
11 covers reset @ \$3 . . . . .	33 00	
	<hr/>	\$2,866 51
Amount paid Warren Brothers Com- pany, under contract:		
10,741 square feet artificial stone sidewalks furnished and laid @ 20c. . . . .	2,148 20	
	<hr/>	<u>\$7,572 75</u>
 <i>Larkin street</i> , from Hampden street to Adams street. Sub- grading, surfacing with 6-inch macadam, edgestones set, block gutters laid, vitrified brick block gutters laid, and vitrified brick crosswalks laid on a concrete base, with grout joints, and brick sidewalks laid; preliminary plank- walks built by city force. (Work begun in 1907.) Length, 313 feet. Area, 453 square yards.		
Labor, including engineering and in- spection . . . . .	\$242 63	
Teaming furnished by the city . . . . .	31 25	
Advertising furnished by the city . . . . .	53 00	
Engineering expense furnished by the city . . . . .	2 55	
Amount paid William J. Rafferty & Co., under contract:		
229 cubic yards sub- grading (earth ex- cavation) @ 50c.,	\$114 50	
	<hr/>	
<i>Carried forward</i> . . . . .	\$114 50	\$329 43

<i>Brought forward</i> . . . . .	\$114 50	\$329 43
375 linear feet straight edgestone furnished and set @ 93c. . . . .	348 75	
26 linear feet circular edgestone furnished and set @ \$1.50 . . . . .	39 00	
294 linear feet existing edgestone reset @ 18c. . . . .	52 92	
48 square yards granite block paving relaid @ 55c. . . . .	26 40	
183 square yards brick block paving furnished and laid @ \$1.80 . . . . .	329 40	
15 square yards brick crosswalks furnished and laid @ \$2.60 . . . . .	39 00	
273 square yards macadam surface furnished and placed @ 72c. . . . .	196 56	
181 square yards brick sidewalks furnished and laid @ \$1.10 . . . . .	199 10	
90 square yards existing brick sidewalks relaid @ 30c. . . . .	27 00	
4 covers reset @ \$3, Extra work — Furnish stonecutter to dress old edgestone:	12 00	
3 days, stonecutter, @ \$3.50 . . . . .	10 50	
Plus 15 per cent on \$10.50 . . . . .	1 58	
	<hr/>	1,396 71
		<u>\$1,726 14</u>

*Lincoln street*, southerly side at junction with Cambridge street.  
Widened.

Labor furnished by the city . . . . .	\$250 97
Teaming furnished by the city . . . . .	214 33
<i>Carried forward</i> . . . . .	<u>\$765 30</u>

<i>Brought forward</i> . . . . .		\$765 30	
Edgestone furnished by the city, 57 feet 2 inches, circular, @ \$1.30 . . . . .	74	31	
Lumber furnished by the city, 5 cedar posts @ 55c. . . . .		2	75
Lumber furnished by the city, 104 feet spruce @ \$25 . . . . .		2	60
Stone furnished by the city, 195.5875 tons @ \$1.60 . . . . .	312	94	
Nails furnished by the city, 4 pounds @ 2½c. . . . .			10
Gravel furnished by the city, 40½ double loads @ \$1.55 . . . . .	62	78	
Advertising furnished by the city . . . . .	31	00	
Engineering expense furnished by the city . . . . .			60
Steam roller furnished by the city . . . . .	97	50	
			<u>\$1,049 88</u>

*Mallet street*, from Florida street to Adams street. Subgrading, surfaced with 6-inch macadam, edgestones set, block gutters laid, flagging crosswalks laid, loam furnished and placed and artificial stone sidewalks laid. (Work begun in 1907.)  
Length, 730 feet. Area, 2,115 square yards.

Engineering and inspection . . . . .	\$46	63	
Engineering expense . . . . .		70	
Amount paid Timothy F. Bradley, under contract:			
Removing trees, bushes, stumps, etc. . . . .	\$25	00	
455 cubic yards subgrading (earth excavation) @ 60c. . . . .	273	00	
9 cubic yards subgrading (rock excavation) @ \$1.75 . . . . .	15	75	
1,439 linear feet edgestone set @ 24c. . . . .	345	36	
553 square yards granite block paving laid @ 50c. . . . .	276	50	
48 square yards flagging crosswalks laid @ 50c. . . . .		24	00
1,640 square yards macadam surface placed @ 40c. . . . .	656	00	
<i>Carried forward</i> . . . . .	\$1,615	61	\$47 33

<i>Brought forward</i> . . .	\$1,615 61	\$47 33	
5 covers reset @ \$3 . . .	15 00		
Extra work — Furnish, place and seed loam for the loam spaces:			
275 square yards loam furnished, placed and seeded @ 50c.,	137 50		
Extra work — Haul crushed stone dust from Columbia road crusher instead of from Codman street crusher, 87 tons crushed stone hauled one and a half miles, overhaul per half mile, per ton, @ 11c. . .	28 71		
Extra work — Haul flagging from South End paving yard:			
1½ days, double team, @ \$6 . . .	9 00		
			\$1,805 82
Less previous payments . . .	1,475 17		
			330 65
Amount paid Simpson Brothers Corporation, under contract:			
5,925 square feet artificial stone sidewalks furnished and laid @ 20c. . .	\$1,185 00		
Less previous payment . . .	419 05		
			765 95
			<u>\$1,143 93</u>

*Mapleton street*, from Murdock street to Market street. Subgrading, surfaced with 6-inch macadam, granite block paving laid, edgestones set, vitrified brick gutters, and crosswalks laid on a concrete base, with grout joints, and crushed stone sidewalks laid. (Work begun in 1907.) Length, 1,714 feet. Area, 3,319 square yards.

Engineering and inspection . . . . .	\$220 07
Hauling flagging furnished by the city . . . . .	8 11
Edgestone, 706 feet, furnished by the city, @ 75c. . . . .	529 50
Flagging, 105 feet 2 inches, furnished by the city, @ 66c. . . . .	69 41
Blocks, 818, furnished by the city, @ \$62 M. . . . .	50 72
Stone, 370.985 tons, furnished by the city, @ \$1.60 . . . . .	593 58
Engineering expense furnished by the city . . . . .	1 45
Steam roller furnished by the city . . .	100 75
Amount paid Coyle & Clark, under contract:	

914 cubic yards subgrad- ing (earth excava- tion) @ 50c. . . . .	\$457 00
3 cubic yards subgrad- ing (rock excava- tion) @ \$1.75 . . . . .	5 25
2,329 linear feet edgestone set @ 25c. . . . .	582 25
38 square yards granite block paving laid @ 50c. . . . .	19 00
2,577 square yards macad- am surface placed @ 25c. . . . .	644 25
1,627 square yards crushed stone sidewalks placed @ 25c. . . . .	406 75
9 covers reset @ \$3 . . . . .	27 00
Extra work — Omit granite block pav- ing for gutters and substitute brick:	
752 square yards brick gutters laid @ 50c. . . . .	376 00
Extra work — Haul bricks for gutters and crosswalks:	
38,297 bricks hauled @ \$2.50 M. . . . .	95 74
<i>Carried forward</i> . . . . .	<u>\$2,613 24</u> <u>\$1,573 59</u>

<i>Brought forward</i>	\$2,613 24	\$1,573 59	
Extra work — Reset edgestone on ac- count of settle- ment caused by delay in receiving stock:			
2 days, edgestone set- ter, @ \$5 . . . . .	10 00		
1½ days, rammer, @ \$2.25 . . . . .	3 38		
4¼ days, helper, @ \$2, . . . . .	8 50		
1 day labor @ \$2 . . . . .	2 00		
Plus 15 per cent on \$23.88 . . . . .	3 58		
Extra work — Omit brick paving for crosswalks and substitute flag- ging:			
23 square yards flagging crosswalks laid @ 50c. . . . .	11 50		
	\$2,652 20		
Less 5¼ days' use of city steam roller @ \$13 . . . . .	68 25		
	\$2,583 95		
Less previous pay- ments . . . . .	1,489 62		
		1,094 33	
		\$2,667 92	
Credit: 721 Mack bricks @ \$33.50 . . . . .	24 15		
			\$2,643 77
<i>Marmion street</i> , from Cornwall street 306 feet northeasterly (work done in 1907).			
Edgestone, 18 feet 9 inches, circular, furnished by the city, @ \$1.30 . . . . .	\$24 38		
Engineering expense furnished by the city . . . . .	10		
			\$24 48
<i>Maybrook street</i> , from Glenway street to Greenwood street (work not started).			
Engineering . . . . .			\$12 00

*Montfern avenue*, from Washington street to Faneuil street  
(work not started).

Engineering . . . . . \$14 00

*Mountain avenue*, from Lauriat avenue to Ballou avenue  
(work not started).

Engineering . . . . . \$25 00

*Newcastle road*, from Faneuil street to Hobson street  
(work not started).

Engineering . . . . . \$85 00

*Norton street*, from Bowdoin street to Speedwell street (work started in 1907). Subgrading, surfaced with 6-inch macadam, edgestones set, block gutters laid, flagging crosswalks laid and artificial stone sidewalks laid. Length, 530 feet. Area, 1,530 square yards.

Engineering and inspection . . . \$416 79

Edgestone, 2 small corners, furnished by the city, @ \$3.60 . . . 7 20

Edgestone, 19 feet 4 inches, straight, furnished by the city, @ 70c. . . 13 53

Edgestone, 69 feet 11 inches, circular, furnished by the city, @ \$1.30 . . . 90 90

Edgestone, 84 feet 7 inches, circular, furnished by the city, @ \$1.20 . . . 101 50

Edgestone, 845 feet, straight, furnished by the city, @ 74½c. . . 629 53

Flagging, 80 feet 9 inches, furnished by the city, @ 66c. . . 53 30

Flagging, 84 feet 4 inches, furnished by the city, @ \$1.34 . . . 113 00

Blocks, 11,252, furnished by the city, @ \$55 . . . 618 86

Advertising . . . . . 58 00

Engineering expense . . . . . 2 00

Amount paid W. A. Murtfeldt Company, under contract:

6,054 square feet artificial stone sidewalks furnished and laid @ 16.65c. . . . . 1,007 99

Amount paid D. E. Coleman Company, under contract:

Removing trees, bushes, etc. . . . . \$1 00

395 cubic yards subgrading (earth excavation) @ 45c. . . . . 177 75

*Carried forward* . . . \$178 75 \$3,112 60



<i>Brought forward</i> . . .	\$178 75	\$3,112 60
27 cubic yards sub- grading (rock excavation) @ \$1.75 . . . . .	47 25	
1,024 linear feet edge- stone set @ 22c. . . . .	225 28	
413 square yards gran- ite block paving laid @ 45c. . . . .	185 85	
98 square yards flag- ging crosswalks laid @ 75c. . . . .	73 50	
1,157 square yards mac- adam surface furnished and placed @ 58c. . . . .	671 06	
8 covers reset @ \$3 . . . . .	24 00	
	<hr/>	1,405 69
		<hr/> <u>\$4,518 29</u>

*Norwood street*, from Tolman street northwesterly about 400 feet. Constructed with 6-inch macadam, edgestones set, granite block gutters laid, flagging crosswalks hauled and laid and crushed stone sidewalks laid. Length, 447 feet. Area, 1,291 square yards.

Engineering and inspection . . . . .	\$221 62
18 feet 8 inches edgestone, furnished by the city, @ 74½c. . . . .	13 90
10 feet 11 inches circular edgestone, furnished by the city, @ \$1.30 . . . . .	14 20
449 feet 6 inches edgestone, furnished by the city, @ 75c. . . . .	337 13
52 feet 3 inches flagging, furnished by the city, @ \$1.35 . . . . .	70 54
7,500 blocks, furnished by the city, @ \$55 per M. . . . .	412 50
Engineering expense . . . . .	1 20
Amount paid Philip Doherty, under contract:	
Removing trees, bushes, etc. . . . .	\$1 00
112 cubic yards sub- grading (earth excavation) @ 50c. . . . .	56 00
	<hr/>
<i>Carried forward</i> . . . . .	\$57 00
	<hr/>
	\$1,071 09

<i>Brought forward</i> . . . . .	\$57 00	\$1,071 09
196 cubic yards filling @ 80c. . . . .	156 80	
913 linear feet edgestone set @ 23c. . . . .	209 99	
315 square yards granite block paving ing laid @ 50c. . . . .	157 50	
11 square yards flagging crosswalks laid @ 90c. . . . .	9 90	
981 square yards macadam surface furnished and placed @ 65c. . . . .	637 65	
646 square yards crushed stone sidewalks furnished and placed @ 55c. . . . .	355 30	
5 covers reset @ \$3 . . . . .	15 00	
40 linear feet wooden fence furnished and built @ 50c., . . . . .	20 00	
		<u>1,619 14</u>
		<u><u>\$2,690 23</u></u>

*Parkview street*, Hutchings street to Seaver street. Constructed with 6-inch macadam, edgestones set, granite block paving laid and flagging crosswalks laid. Artificial stone sidewalks laid. Length, 403 feet. Area, 1,182 square yards. (Unfinished work from 1907.)

Engineering and inspection . . . . .		\$161 50
78 feet 9 $\frac{3}{4}$ inches circular edgestone, furnished by the city, @ \$1.30 . . . . .		102 45
Advertising . . . . .		58 60
Engineering expense . . . . .		1 90
Steam roller furnished by the city . . . . .		13 00
Amount paid to R. L. Barrett, under contract:		
Removing trees, bushes, etc. . . . .	\$0 00	
438 cubic yards subgrading (earth excavation) @ 58c. . . . .	254 04	
6 cubic yards subgrading (rock excavation) @ \$1.75 . . . . .	10 50	
819 linear feet edgestone set @ 18c., . . . . .	147 42	
294 square yards granite block paving laid @ 50c. . . . .	147 00	
		<u>\$558 96</u>
<i>Carried forward</i> . . . . .		<u>\$337 45</u>

<i>Brought forward</i> . . . . .	\$558 96	\$337 45
25 square yards flagging crosswalks laid @ 70c. . . . .	17 50	
904 square yards macadam surface furnished and placed @ 68c.,	614 72	
3 covers reset @ \$3 . . . . .	9 00	
	<hr/>	
	\$1,200 18	
Less 1 day's use of city steam roller . . . . .	13 00	
	<hr/>	
	\$1,187 18	
Less amount paid in 1907 . . . . .	336 97	
	<hr/>	850 21
Amount paid to Robert Eagar, Jr., under contract:		
4,763 square feet artificial stone sidewalks furnished and laid @ 17½c. . . . .		833 53
		<hr/>
		\$2,021 19
		<hr/>
<i>Pequot street</i> , Wait street to Calumet street (work not started).		
Engineering . . . . .		\$29 00
		<hr/>
<i>Pontiac street</i> , Hillside street to Tremont street (unfinished). Plankwalk built.		
Labor . . . . .	\$22 37	
Lumber . . . . .	55 85	
	<hr/>	\$78 22
		<hr/>
<i>Prescott street</i> , from another part of Prescott street to Boston, Revere Beach & Lynn Railroad (work not started).		
Engineering . . . . .		\$103 45
		<hr/>
<i>Radcliffe street</i> , Howard street to Faxon street (work not started).		
Engineering . . . . .		\$15 00
		<hr/>
<i>Rexford street</i> , Blue Hill avenue to Oakland street (work not started).		
Engineering . . . . .		\$16 00
		<hr/>
<i>Rockledge street</i> , Lambert avenue to Thornton street (work done in 1907).		
Amount paid to Robert Eagar, under contract:		
163 cubic yards subgrading (earth excavation) @ 50c. . . . .	\$81 50	
	<hr/>	
<i>Carried forward</i> . . . . .	\$81 50	

<i>Brought forward</i> . . . . .	\$81 50
19 cubic yards subgrading (rock excavation) @ \$1.75 . . . . .	33 25
209 cubic yards filling furnished @ 75c. . . . .	156 75
878 linear feet edgestone set @ 17c., . . . . .	149 26
300 square yards granite block paving laid @ 50c. . . . .	150 00
17 square yards flagging crosswalks laid @ 60c. . . . .	10 20
637 square yards macadam surface placed @ 25c. . . . .	159 25
436 square yards brick sidewalks laid @ 25c. . . . .	109 00
2 catch-basins and manhole covers reset @ \$3 . . . . .	6 00
Extra work under contract:	
29.7 tons stone dust hauled one and one-half miles overhaul @ 11c. per half mile per ton . . . . .	9 80
	<hr/>
	\$865 01
Less amount paid in 1907 . . . . .	653 72

\$211 29

*Roseland street, Dorchester avenue to Samoset street (work done in 1907).*

Engineering . . . . . \$4 00

*Samoset street, Centre street to Welles avenue. Constructed with 6-inch macadam, granite block paving laid, edgestone set and flagging crosswalks laid. Artificial stone sidewalks laid. Length, 875 feet. Area, 2,525 square yards.*

Engineering and inspection . . . . .	\$191 98
Teaming furnished by the city . . . . .	11 25
13 feet North River flagging, furnished by the city, @ \$1.34 . . . . .	17 42
280 paving blocks, furnished by the city, @ \$70 per M. . . . .	19 60
1,580 paving blocks, furnished by the city, @ \$55 per M. . . . .	86 90
Advertising . . . . .	58 60
Engineering expense . . . . .	1 55
	<hr/>
	\$387 30

*Carried forward* . . . . . \$387 30

<i>Brought forward</i> . . . . .	\$387 30
Less 13 feet edgestone re- turned @ 75c. . . . .	\$9 75
2 small corners returned @ \$3.60 . . . . .	7 20
	16 95

\$370 35

Amount paid to D. E. Coleman Company,  
under contract:

Removing trees, bushes, etc.,	\$1 00
1,730 linear feet edgestone set @ 20c. . . . .	346 00
541 cubic yards subgrading (earth excavation) @ 45c.,	243 45
621 square yards granite block paving laid @ 45c. . . . .	279 45
47 square yards flagging cross- walks laid @ 75c. . . . .	35 25
1,898 square yards macadam sur- face furnished and placed @ 60c. . . . .	1,138 80
19 square yards brick sidewalks laid @ 50c. . . . .	9 50
8 covers reset @ \$3 . . . . .	24 00
336 square yards loam furnished and placed @ 50c. . . . .	168 00
Extra work:	
200 bricks furnished @ \$11 . . . . .	2 20
7 tons surplus material over- haul two and one-half miles @ 11c. per half mile per ton . . . . .	3 85
	\$2,251 50

Less amount paid in 1907 . 1,000 87

1,250 63

Amount paid to Jeremiah J. Sullivan, under  
contract:

7,648 square feet artificial stone sidewalks furnished and placed @ 17½c. . . . .	1,338 40
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\$2,959 38

*South Huntington avenue*, from another part of South Hunting-  
ton avenue to Huntington avenue. Constructed with  
6-inch macadam, granite block paving laid, edgestone set  
and flagging crosswalks laid, and brick, crushed stone and  
artificial stone sidewalks built. Length, 1,148 feet.  
Area, 6,888 square yards.

Engineering and inspection . . . . .		\$624 39
84 feet 11 inches circular edgestone, furnished by the city, @ \$1.30 . . . . .		110 40
80 feet North River flagging, furnished by the city, @ 66c. . . . .		52 80
48 feet 5 inches North River flagging, furnished by the city, @ \$1.35 . . . . .		65 36
91 feet 2 inches North River flagging, furnished by the city, @ \$1.34 . . . . .		122 16
115,000 paving bricks, furnished by the city, @ \$11 . . . . .		1,265 00
16,320 paving blocks, furnished by the city, @ \$62 . . . . .		1,011 84
Advertising . . . . .		54 40
Engineering expense . . . . .		8 60
Amount paid Simpson Brothers Corporation, under contract:		
1,749 square feet artificial stone sidewalks furnished and laid @ 16.75c. . . . .		292 96
Amount paid William J. Barry, under contract:		
Removing trees, bushes, stumps, etc. . . . .	\$0 00	
1,447 cubic yards sub grading (earth excavation) @ 40c., . . . . .	578 80	
2,005 cubic yards filling furnished @ 75c. . . . .	1,503 75	
2,796 linear feet edgestone set @ 18c. . . . .	503 28	
1,051 square yards granite block paving laid @ 50c. . . . .	525 50	
113 square yards flagging crossings laid @ 75c. . . . .	84 75	
4,733 square yards macadam sur- face furnished and placed @ 48c. . . . .	2,271 84	
17 square yards crushed stone sidewalks furnished and placed @ \$1 . . . . .	17 00	
2,839 square yards brick sidewalks laid @ 28c. . . . .	794 92	
23 covers reset @ \$3 . . . . .	69 00	
Extra work as ordered:		
593 square yards macadam sur- face, furnished and placed on Huntington avenue to conform to grade of South Huntington avenue, @ 48c., . . . . .	284 64	
<i>Carried forward</i> . . . . .	\$6,633 48	\$3,607 91

<i>Brought forward</i>	\$6,633 48	\$3,607 91
2½ days, stonecutter, @ \$3.20	8 00	
Plus 15 per cent on \$8	1 20	
99.5 tons cobble stone hauled one mile overhaul, per half mile, per ton, @ 11c.	21 89	
4½ days labor, level and shape filling in Coburn street to conform to grade, @ \$2	9 25	
Plus 15 per cent on \$9.25	1 39	
5½ days labor, Telford base in Huntington avenue, @ \$2	11 00	
Plus 15 per cent on \$11	1 65	
	6,687 86	
		\$10,295 77

*Speedwell street*, from Topliff street to Hamilton street (work started in 1907). Subgrading, constructed with 6-inch macadam, granite block paving laid, edgestones set, flagging crosswalks laid and artificial stone sidewalks laid, with loam spaces. Length, 735 feet. Area, 2,129 square yards.

Engineering and inspection	\$56 51	
Teaming furnished by the city	6 00	
Stone furnished by the city, 14.95 tons @ \$1.60	23 92	
Engineering expense furnished by the city	40	
Amount paid William Barrett, under contract:		
661 cubic yards sub-grading (earth excavation) @ 50c.,	\$330 50	
1,475 linear feet edgestone set @ 19c.	280 25	
527 square yards granite block paving laid @ 50c.	263 50	
49 square yards flagging crosswalks laid @ 75c.	36 75	
1,621 square yards macadam surface placed @ 30c.	486 30	
13 covers reset @ \$3	39 00	
	\$1,436 30	\$86 83
<i>Carried forward</i>		

*Brought forward* . . . \$1,436 30 \$86 83

Extra work — Furnish, place and seed loam for loam spaces:

232 square yards loam, furnished and placed @ 50c. . . 116 00

116 00  
\$1,552 30

Omission of work :  
Omit hauling of crushed stone and screenings for macadam:

Less 652 tons crushed stone and screenings delivered on the line of the work by the city @ 30c. . . . . 195 60

195 60  
\$1,356 70

Less previous payments . . . . . 935 85

935 85  
420 85

Amount paid Warren Brothers Company, under contract:

6,575 square feet artificial stone sidewalks furnished and laid @ 20c. . . . . \$1,315 00

Less previous payments . . . . . 544 00

544 00  
771 00

771 00  
\$1,278 68

Credit: 1,612 blocks @ \$55 M. . . . . 88 66

88 66  
\$1,190 02

*Stonehurst street*, from Topliff street to Hamilton street (work not started).

Engineering . . . . . \$114 60

*Upham avenue*, from Hancock street to Cushing avenue (work not started).

Engineering . . . . . \$71 50



*Walworth street*, from Belgrade avenue to South street (work not started). Plankwalk built.

Labor, including engineering, furnished by the city . . . . .	\$113 25	
Teaming furnished by the city . . . . .	110 25	
Lumber, 3,000 feet spruce, furnished by the city, @ \$27 . . . . .	81 00	
Gravel, 1 single load, furnished by the city . . . . .	70	
		<u>\$305 20</u>

*Welles avenue*, from Argyle street to Dorchester avenue (work not started).

Engineering . . . . .	\$83 25	
Advertising . . . . .	5 80	
		<u>\$89 05</u>

*Wellesley park*, from Park street to Melville avenue (work not started).

Engineering . . . . .		<u>\$219 28</u>
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*West Fourth street*, at northwest corner of Dorchester avenue. Street widened, work done by department force.

Labor, including engineering, furnished by the city . . . . .	\$281 00	
Teaming furnished by the city . . . . .	54 95	
Edgestone, 38 feet 7 inches, circular, furnished by the city, @ \$1.20 . . . . .	46 30	
Engineering expense furnished by the city . . . . .	55	
		<u>\$382 80</u>

*Willowwood street*, from Lauriat avenue to Norfolk street.

Subgrading, constructed with 6-inch macadam, granite block paving laid, filling furnished, edgestones set, flagging crosswalks hauled and laid and crushed stone sidewalks laid. (Work done in 1907.) Length, 1,490 feet. Area, 4,316 square yards.

Blocks furnished by the city, 2,317 @ \$55 M. . . . .	\$127 44	
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Amount paid to Joseph J. Comfrey, under contract:

822 cubic yards subgrading (earth excavation) @ 50c. . . . .	\$411 00	
58 cubic yards subgrading (rock excavation) @ \$1.75 . . . . .	101 50	
		<u>          </u>

<i>Carried forward</i> . . . . .	\$512 50	\$127 44
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<i>Brought forward</i>		\$512 50	\$127 44
205 cubic yards filling furnished @ \$1.25		256 25	
3,046 linear feet edgestone set @ 26c.		791 96	
1,045 square yards granite block paving laid @ 50c.		522 50	
3,496 square yards macadam surface placed @ 35c.	1,223 60		
2,001 square yards crushed stone sidewalks laid @ 23c.		460 23	
21 covers reset @ \$3		63 00	
Extra work — Omit brick crosswalks and substitute flagging crosswalks and haul flagging for same from South End paving yard:			
123 square yards flagging crosswalks hauled and laid @ \$1		123 00	
Extra work — Haul crushed stone dust from Columbia road crusher instead of from Codman street crusher:			
250 tons crushed stone dust one mile over-haul, per half mile, per ton, @ 11c.		55 00	
Extra work — Furnish stonecutter to dress edgestone:			
3 days, stonecutter, @ \$4.50		13 50	
Plus 15 per cent on \$13.50		2 03	
Extra work — Spread filling furnished by the city:			
3½ days labor @ \$2		7 00	
Plus 15 per cent on \$7		1 05	
<i>Carried forward</i>		\$4,031 62	\$127 44

<i>Brought forward</i> . . . . .	\$4,031 62	\$127 44	
Extra work—Rebuild three catch-basins: 3 catch-basins rebuilt @ \$5 . . . . .		15 00	
		<hr/>	
		\$4,046 62	
Less previous pay- ments . . . . .	3,761 83		
	<hr/>		284 79
			<hr/>
			<u>\$412 23</u>

RECAPITULATION OF STREET WORK.

CHARGED TO APPROPRIATION FOR STREET DEPARTMENT.

<i>Albany street</i> , Randolph to Bristol street . . . . .	\$376 00
<i>Alford street</i> , Everett line to drawbridge . . . . .	2,388 79
<i>Anawan avenue</i> , Beech street to the railroad . . . . .	1,076 79
<i>Appleton street</i> , Berkeley street to Columbus avenue . . . . .	573 64
<i>Ashland street</i> , Elm to Park street . . . . .	429 78
<i>Beacon street</i> , Arlington to Brimmer street . . . . .	3,250 57
<i>Beacon street</i> , Hereford street to Massachusetts avenue . . . . .	38 00
<i>Beacon street</i> , Brookline line to Cleveland circle . . . . .	2,748 28
<i>Bellevue street</i> , Robin street to the railroad . . . . .	3,746 59
<i>Bigelow street</i> , Brooks to 60 feet beyond Dunboy street and at intersection of Charlesview street, . . . . .	1,805 16
<i>Blagden street</i> , Exeter street to Huntington avenue, . . . . .	646 06
<i>Blue Hill avenue</i> , Talbot avenue to Mattapan square . . . . .	1,186 52
<i>Bowdoin street</i> , Hancock to Blakeville street . . . . .	623 69
<i>Braemore road</i> , Chiswick road to Commonwealth avenue . . . . .	1,127 42
<i>Bristol street</i> , Albany street to Harrison avenue . . . . .	479 62
<i>Brookline avenue</i> , Boylston to Jersey street . . . . .	138 47
<i>Brookline avenue</i> , Audubon road to Brookline line, . . . . .	1,206 98
<i>Brunswick street</i> , Blue Hill avenue to Warren street, . . . . .	807 38
<i>Cambridge street</i> , Sparhawk to Washington street and Harvard avenue to the railroad . . . . .	653 51
<i>Centre street</i> , Roxbury . . . . .	1,951 86
<i>Centre street</i> , May street to 500 feet beyond Louder's lane . . . . .	1,208 24
<i>Chelsea Bridge</i> . . . . .	150 02
<i>Cherokee street</i> . . . . .	44 46
<i>Chestnut Hill avenue</i> , Commonwealth avenue to Brookline line . . . . .	1,037 04
	<hr/>
<i>Carried forward</i> . . . . .	\$27,694 87

<i>Brought forward</i>	\$27,694 87
<i>Chestnut avenue, Paul Gore to Mozart street</i>	1,011 60
<i>Church street, High to Winter street</i>	48 00
<i>Columbia road, Boston to Dudley street</i>	2,850 92
<i>Cross street, Salem street to Haymarket square</i>	643 38
<i>D street, West Fifth to West Sixth street</i>	287 52
<i>Dorchester street, West First street to water line</i>	1,678 88
<i>Dorchester avenue, Adams to Park street</i>	185 87
<i>Dorchester avenue, Park to Ashmont street</i>	459 44
<i>Dover street, Albany street to Harrison avenue</i>	45 00
<i>Dunboy street, Faneuil to Bigelow street</i>	519 76
<i>East Cottage street, Pleasant street to Columbia road</i>	18 48
<i>East Cottage street, Dudley street to railroad bridge,</i>	1,287 15
<i>East Cottage street, Edward Everett square to railroad bridge</i>	1,933 61
<i>East Fifth street, G to H street</i>	91 03
<i>East Sixth street, O to P street</i>	221 72
<i>Esmond street, Blue Hill avenue to Bradshaw street</i>	562 09
<i>Everett street, Mill to Park street</i>	774 55
<i>Everett street, railroad bridge 650 feet south</i>	1,762 74
<i>Exeter street, Huntington avenue to Beacon street,</i>	2,731 99
<i>Fairbanks street, Washington to Faneuil street</i>	1,244 74
<i>Faneuil street, Brooks to Oakland street</i>	952 56
<i>Ferry street, North to Fulton street</i>	664 65
<i>Field street, Ruggles street to 400 feet beyond</i>	528 84
<i>Freeport street, Tenean street to the bridge</i>	3,003 97
<i>Fulton street, Cross to Clinton street</i>	1,015 26
<i>Geneva avenue, Olney street to the railroad</i>	81 52
<i>Geneva-avenue, Bowdoin to Park street</i>	762 40
<i>Greenmount street, Dorchester avenue to Pleasant street</i>	52 00
<i>Hancock street, Dorchester avenue to Bowdoin street</i>	678 54
<i>Hano street, Braintree street 400 feet distant</i>	618 75
<i>Hanover street, Friend to Union street</i>	219 50
<i>Hawes street</i>	21 25
<i>High street, Church to Hancock street</i>	1,059 36
<i>Holton street, at corner Athol street</i>	189 60
<i>Howard avenue, at Cunningham street</i>	417 36
<i>Humphreys street, East Cottage to Dudley street</i>	755 35
<i>Hyde Park avenue, Tower to Washington street</i>	648 07
<i>Lagrange street, Centre street to Newton line</i>	232 22
<i>Lansing street, Warren to Sherman street</i>	312 00
<i>Linden Park street, Roxbury</i>	441 20
<i>Main street, Austin to Union street</i>	254 57
<i>Malcolm street, from Mt. Vernon street 49 feet</i>	107 40
<i>Carried forward</i>	\$59,070 71

<i>Brought forward</i>	\$59,070 71
<i>Maple street, Centre to Weld street</i>	1,681 80
<i>Marlborough street, Clarendon street to Charlesgate,</i>	903 29
<i>Massachusetts avenue, Edward Everett square to</i>	
<i>Magazine street</i>	2,660 01
<i>Massachusetts avenue, Albany to Washington</i>	
<i>street</i>	759 78
<i>Medford street, Mystic to Main street</i>	1,021 15
<i>Melcher street, Summer street 484 feet southeast,</i>	381 23
<i>Mercer street, Telegraph to East Eighth street</i>	846 36
<i>Mishawum street, Main to Rutherford avenue</i>	524 51
<i>Morton street, Canterbury to Forest Hills street</i>	2,392 46
<i>Morton street, near Blue Hill avenue</i>	452 09
<i>Moss Hill road, Pond street to Woodland road</i>	1,148 43
<i>Mount Washington avenue</i>	1,916 52
<i>Munroe street, Humboldt avenue to Warren street,</i>	1,489 92
<i>North Beacon street, Dustin street to the river and</i>	
<i>Market to Vineland street</i>	1,846 15
<i>Norway street, Hemenway street to Massachusetts</i>	
<i>avenue</i>	804 25
<i>Oakridge street, Codman to Morton street</i>	61 40
<i>Old road, Elmo to Glenway street</i>	1,627 86
<i>Olney street, Bowdoin to Everton street</i>	128 00
<i>Perkins street, South Huntington avenue to Day</i>	
<i>street</i>	509 64
<i>Peters street, East Sixth to East Seventh street</i>	608 09
<i>Pleasant street, Savin Hill avenue to Stoughton</i>	
<i>street</i>	442 10
<i>Porter street, Amory street towards Bismarck</i>	
<i>street</i>	81 50
<i>Prince street, corner Hanover street</i>	22 20
<i>Quincy street, Blue Hill avenue to Columbia road</i>	121 66
<i>Robinwood avenue, Rockview to Centre street</i>	839 19
<i>Rockview street, Spring Park avenue to Robinwood</i>	
<i>avenue</i>	418 01
<i>Rosseter street, Eldon street to 400 feet north of</i>	
<i>Bullard street</i>	1,762 91
<i>Rutherford avenue, Essex to Baldwin street</i>	260 58
<i>Ruthven street, Elm Hill avenue towards Hum-</i>	
<i>boldt avenue</i>	391 01
<i>Rutledge street, West Roxbury</i>	192 52
<i>St. Botolph street, Irvington street to Massachu-</i>	
<i>setts avenue</i>	1,763 51
<i>St. Stephen street, Massachusetts avenue to Bryant</i>	
<i>street</i>	338 96
<i>Saratoga street, East Boston</i>	581 88
<i>Savin Hill avenue, Dorchester avenue to the-rail-</i>	
<i>road</i>	1,195 10
<i>Carried forward</i>	\$89,244 78

<i>Brought forward</i> . . . . .	\$89,244 78
<i>South street, Child street to Arborway</i> . . . . .	1,156 69
<i>Southampton street, Massachusetts avenue to the bridge</i> . . . . .	1,116 44
<i>Stoughton street, Pleasant street to Columbia road,</i> <i>Summer street, bridge over A street to bridge over</i> <i>N. Y., N. H. &amp; H. R. R.</i> . . . . .	826 35
<i>Summer street, Melcher to A street</i> . . . . .	1,500 33
<i>Sutherland road, Cleveland circle to Orkney road</i> . . . . .	464 62
<i>Talbot avenue, Washington street to Welles avenue</i> . . . . .	211 46
<i>Terrace street at Park Brewery</i> . . . . .	848 64
<i>Townsend street, Washington street to Walnut avenue</i> . . . . .	552 42
<i>Train street, Ashmont to King street</i> . . . . .	1,389 30
<i>Vermont street, Mt. Vernon to Baker street</i> . . . . .	901 10
<i>Vernon street, Cabot to Auburn street</i> . . . . .	2,783 62
<i>Waldeck street, Melville avenue to Geneva avenue,</i> <i>Walnut avenue, 179 to 216</i> . . . . .	1,695 98
<i>Walnut park, Roxbury</i> . . . . .	1,879 43
<i>Warren avenue, City square to the railroad</i> . . . . .	213 88
<i>Warren avenue, Berkeley street to Columbus avenue</i> . . . . .	285 23
<i>Warren street, Pleasant to Thompson square</i> . . . . .	454 05
<i>Washington street, Elmore street to West Walnut park</i> . . . . .	1,892 43
<i>Washington street, Cambridge to Parsons street, north side, and Chestnut Hill avenue to Foster street, south side</i> . . . . .	699 23
<i>Washington street, Walk Hill to Tower street</i> . . . . .	1,671 17
<i>Washington street, Ashland to Beech street</i> . . . . .	1,142 96
<i>Wayland street, 49 to 61</i> . . . . .	694 70
<i>West Canton street, Appleton street to Shawmut avenue</i> . . . . .	3,116 34
<i>West Cottage street, Brook avenue to Woodville street</i> . . . . .	424 72
<i>West Fifth street, C to D street</i> . . . . .	1,651 91
<i>Western avenue, Market to Telford street</i> . . . . .	538 11
<i>Worthington street at Normal School</i> . . . . .	833 16
<i>Wrentham street, Bruce to Adams street</i> . . . . .	228 89
<i>Zeigler street, Harrison avenue to Washington street</i> . . . . .	2,095 27
	850 95
	240 99
	<hr/>
	\$121,605 15
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## CHARGED TO SPECIAL APPROPRIATIONS.

<i>Old Colony avenue, construction of</i> . . . . .	\$7,577 39
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CHARGED TO APPROPRIATION FOR STREET IMPROVEMENTS.

<i>A street</i> , Congress street to 175 feet south of	
Binford street . . . . .	\$23,062 53
<i>Allston street</i> , Brighton to Commonwealth avenue,	10,080 61
<i>Ashburton place</i> , Bowdoin street 50 feet easterly .	305 76
<i>B street</i> , West First to West Third street . . . . .	1,021 06
<i>Batterymarch street</i> , Milk street 215 feet easterly,	46 76
<i>Beacon street</i> , Raleigh to St. Mary's street . . . . .	8,537 40
<i>Boylston street</i> , Chestnut avenue to railroad . . . . .	916 99
<i>Boylnton street</i> , South to Call street . . . . .	2,460 20
<i>Bromfield street</i> , Tremont to Washington street . . . . .	4,149 54
<i>Bunker Hill street</i> , Main to Sackville street . . . . .	1,532 33
<i>C street</i> , West Fifth across West Sixth street . . . . .	51 78
<i>C street</i> , West First to West Second street . . . . .	550 31
<i>Canterbury street</i> , Angell street to Blue Hill	
avenue . . . . .	3,810 99
<i>Centre street</i> , Church to Lagrange street . . . . .	3,789 24
<i>Chandler street</i> , Berkeley street to Columbus	
avenue . . . . .	460 97
<i>Chelsea street</i> , Scott's court to Chelsea Bridge . . . . .	910 80
<i>Church street</i> , Boylston to Providence street . . . . .	2,147 11
<i>Clarendon street</i> , Boylston street to railroad . . . . .	744 10
<i>Cleveland circle</i> , Beacon street to Chestnut Hill	
avenue . . . . .	3,369 48
<i>Cohasset street</i> , Corinth to Albano street . . . . .	5,696 01
<i>Congress street</i> , State to Water street . . . . .	53 35
<i>Cooper street</i> , Washington across Endicott street . . . . .	2,710 70
<i>Corning street</i> , Washington street to Shawmut	
avenue . . . . .	2,148 56
<i>D street</i> , Gold street to West Broadway . . . . .	1,836 85
<i>Dorchester avenue</i> , Ashmont to Codman street . . . . .	21 13
<i>Dudley street</i> , Washington street to Eliot square,	
<i>East Broadway</i> , P to Q street . . . . .	1,617 43
<i>Eliot street</i> , Pleasant to Tremont street . . . . .	1,699 64
<i>Fuller street</i> , Dorchester avenue to Washington	
street . . . . .	7,374 26
<i>Gainsborough street</i> , Hemenway street to Hunting-	
ton avenue . . . . .	615 63
<i>Gerard street</i> , Massachusetts avenue to Kemble	
street . . . . .	3,307 74
<i>Harvard avenue</i> , Commonwealth to Brighton	
avenue . . . . .	8,267 01
<i>Humboldt avenue</i> , Walnut avenue to Seaver street,	
<i>Huntington avenue</i> , Tremont street to Brookline	
line . . . . .	443 01
<i>Irvington street</i> , Huntington avenue to the rail-	
road . . . . .	4,856 79
<i>Kilby street</i> , Milk to Central street . . . . .	9,255 99
<i>Kilby street</i> , Milk to Central street . . . . .	801 67
<i>Kilby street</i> , Milk to Central street . . . . .	3,739 73
<i>Carried forward</i> . . . . .	<u>\$122,393 46</u>

<i>Brought forward</i> . . . . .	\$122,393 46
<i>Kneeland street</i> , Washington street to Harrison avenue . . . . .	4,062 80
<i>Lawn street</i> , Heath to Heath street . . . . .	8,195 21
<i>Lexington street</i> , Putnam street to 250 feet beyond Prescott street . . . . .	2,509 67
<i>Main street</i> , Beach to Alford street . . . . .	928 81
<i>Massachusetts avenue</i> , Shirley to Gerard street . . . . .	1,202 16
<i>Meridian street</i> , Maverick square to Central square . . . . .	7,234 28
<i>Middle street</i> , Dorchester street to Dorchester avenue . . . . .	723 14
<i>Mt. Everett street</i> , Quincy to Hamilton street . . . . .	335 28
<i>Neponset avenue</i> , Adams to Ashmont street . . . . .	837 38
<i>New Heath street</i> , Centre to Parker street . . . . .	1,432 48
<i>Oak square</i> , Brighton . . . . .	2,132 35
<i>Park square</i> , Boylston to Eliot street . . . . .	5,007 34
<i>Parker street</i> , Fisher avenue to Heath street . . . . .	735 24
<i>Providence street</i> , Church street 170 feet easterly, . . . . .	2,686 99
<i>Rutherford avenue</i> , Baldwin to Thorndike street, . . . . .	2,315 82
<i>Rutherford avenue</i> , Tibbetts Town way to Chapman street . . . . .	6,171 82
<i>Roxbury street</i> , Eliot square to Columbus avenue, . . . . .	636 17
<i>St. James avenue</i> , Berkeley street to Huntington avenue . . . . .	2,001 79
<i>Scollay square</i> and Court street, Cornhill to Sudbury street . . . . .	9,456 21
<i>Shawmut avenue</i> , Lenox to Sawyer street . . . . .	61 04
<i>Southampton street</i> , railroad to Hilton street . . . . .	654 88
<i>Stanley street</i> , Quincy street to Sunset circle . . . . .	573 26
<i>State street</i> , north and south of Old State House (see Washington street).	
<i>Sudbury street</i> , Court street to Haymarket square, . . . . .	1,702 89
<i>Summer street</i> , Washington to Hawley street . . . . .	3,235 45
<i>Taylor street</i> , Neponset avenue to the railroad . . . . .	2,320 12
<i>Vinton street</i> , Preble street to Dorchester avenue, . . . . .	791 52
<i>Walk Hill street</i> , Blue Hill avenue to Harvard street, . . . . .	1,747 58
<i>Wall street</i> , Causeway to Minot street . . . . .	1,156 33
<i>Walnut avenue</i> , Circuit street to Humboldt avenue, . . . . .	2,936 72
<i>Ward street</i> , Dorchester avenue to Preble street, . . . . .	853 21
<i>Warren street</i> , Kearsarge avenue to Moreland street . . . . .	287 44
<i>Washington street</i> , Dudley to Bartlett street . . . . .	1,228 90
<i>Washington street</i> , Court avenue to Cornhill and State street, north and south of Old State House . . . . .	6,671 31
<i>Washington street</i> , Blue Hill to Talbot avenue . . . . .	3,675 63
<i>Waumbeck street</i> , Wabeno street to Humboldt avenue . . . . .	555 07
<i>Carried forward</i> . . . . .	\$209,449 75



<i>Brought forward</i> . . . . .	\$209,449 75
<i>West Cedar street</i> , Mt. Vernon to Chestnut street,	809 48
<i>West street</i> , Tremont to Washington street . . . . .	5,800 43
<i>Woodward street</i> , Dorchester street to Dorchester avenue . . . . .	512 75
<i>Zeigler street</i> , Washington to Warren street . . . . .	2,533 79
	<hr/>
	\$219,106 20
Less amount paid out of appropriation for Street Department . . . . .	41,539 92
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	\$177,566 28
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## CHARGED TO APPROPRIATION FOR HIGHWAYS, MAKING OF.

<i>Ashland street</i> , Mill to Everdean street . . . . .	\$1,369 73
<i>Avenue Louis Pasteur</i> , Longwood avenue to the Fenway . . . . .	1,672 65
<i>Bayswater street</i> , Saratoga street to Austin avenue,	755 86
<i>Belfort street</i> , Sagamore to Saxton street . . . . .	23 50
<i>Bellevue street</i> , Kane to Hamilton street . . . . .	3,602 27
<i>Bennington street</i> , Chelsea street to Belle Isle inlet . . . . .	8 00
<i>Benton street</i> , Tremont street to Columbus avenue,	52 10
<i>Bernard street</i> , Talbot avenue to the railroad . . . . .	6,015 86
<i>Boardman street</i> , Saratoga street to Boston & Maine Railroad . . . . .	222 00
<i>Bruce street</i> , extended to Wrentham street . . . . .	984 03
<i>Carmen street</i> , Shafter to Kilton street . . . . .	90 25
<i>Causeway street</i> , Beverly street to Charlestown Bridge . . . . .	538 54
<i>Claybourne street</i> , Dakota to Bowdoin street . . . . .	205 44
<i>Clement avenue</i> , Meredith to Stratford street (credit, \$358.87) . . . . .	—
<i>Corona street</i> , Bowdoin street to Geneva avenue . . . . .	6,456 78
<i>Cottage street</i> , Maverick to Gove street . . . . .	4,504 11
<i>Cottage terrace</i> , East Cottage to Marshfield street,	10 00
<i>Cotton street</i> , Walter to Fairview street . . . . .	6,212 41
<i>Covington street</i> , East Eighth street to Columbia road . . . . .	80 75
<i>Dakota street</i> , Greenbrier street to Geneva avenue,	11,041 26
<i>Dayton street</i> , Nixon street to the railroad . . . . .	4 00
<i>Everdean street</i> , Green Hill to Ashland street . . . . .	2,054 86
<i>Everdean street</i> , Green Hill to Preston street . . . . .	3,152 11
<i>Evergreen street</i> , from South Huntington avenue,	836 63
<i>Farquhar street</i> , South to Selwyn street . . . . .	117 25
<i>Fletcher street</i> , Centre to South street . . . . .	220 00
<i>Fotller road</i> , Walk Hill street to Tileston avenue,	351 53
	<hr/>
<i>Carried forward</i> . . . . .	\$50,581 92

<i>Brought forward</i> . . . . .	\$50,581 92
<i>Frankfort street</i> , Maverick to Gove street . . . . .	4,961 66
<i>Harlem street</i> , Glenway to Greenwood street . . . . .	2,113 72
<i>Hobson street</i> , Faneuil to Hobart street . . . . .	108 84
<i>Kerwin street</i> , Talbot, avenue to Brenard street . . . . .	1 80
<i>Kilton street</i> , Harvard to Park street . . . . .	1,926 12
<i>Larchmont street</i> , Waldeck to Greenbrier street, . . . . .	7,572 75
<i>Larkin street</i> , Hampden to Adams street . . . . .	1,726 14
<i>Lincoln street</i> , at junction of Cambridge street . . . . .	1,049 88
<i>Mallet street</i> , Florida to Adams street . . . . .	1,143 93
<i>Mapleton street</i> , Murdock to Market street . . . . .	2,643 77
<i>Marmion street</i> , from Cornwall street 306 feet northeasterly . . . . .	24 48
<i>Maybrook street</i> , Glenway to Greenwood street . . . . .	12 00
<i>Montfern avenue</i> , Washington to Faneuil street . . . . .	14 00
<i>Mountain avenue</i> , Lauriat to Ballou avenue . . . . .	25 00
<i>Newcastle road</i> , Faneuil to Hobson street . . . . .	85 00
<i>Norton street</i> , Bowdoin to Speedwell street . . . . .	4,518 29
<i>Norwood street</i> , from Tolman street 444 feet north- easterly . . . . .	2,690 23
<i>Parkview street</i> , Hutchings to Seaver street . . . . .	2,021 19
<i>Pequot street</i> , Wait to Calumet street . . . . .	29 00
<i>Pontiac street</i> , Hillside to Tremont street . . . . .	78 22
<i>Prescott street</i> , Boston, Revere Beach & Lynn Rail- road to Prescott street . . . . .	103 45
<i>Radcliffe street</i> , Harvard to Faxon street . . . . .	15 00
<i>Rexford street</i> , Blue Hill avenue to Oakland street, . . . . .	16 00
<i>Rockledge street</i> , Lambert avenue to Thornton street . . . . .	211 29
<i>Roseland street</i> , Dorchester avenue to Samoset street . . . . .	4 00
<i>Samoset street</i> , Centre street to Welles avenue . . . . .	2,959 38
<i>Seaver street</i> , at northerly corner Walnut avenue, . . . . .	54 10
<i>South Huntington avenue</i> , Huntington to South Huntington avenue . . . . .	10,295 77
<i>Speedwell street</i> , Topliff to Hamilton street . . . . .	1,190 02
<i>Stonehurst street</i> , Topliff to Hamilton street . . . . .	114 60
<i>Upham avenue</i> , Hancock street to Cushing avenue, . . . . .	71 50
<i>Walworth street</i> , Belgrade avenue to South street, . . . . .	305 20
<i>Welles avenue</i> , Argyle street to Dorchester avenue, . . . . .	89 05
<i>Wellesley park</i> , Park street to Melville avenue . . . . .	219 28
<i>West Fourth street</i> , northwest corner Dorchester avenue . . . . .	382 80
<i>Willowood street</i> , Lauriat avenue to Norfolk street . . . . .	412 23
	<hr/>
	\$99,771 61
Less credit on Clement avenue . . . . .	358 87
	<hr/>
	<u>\$99,412 74</u>

## STREET DEPARTMENT—PAVING DIVISION

## Maintenance of Macadam Streets.

Schedule of Amounts Resurfaced and Cost of Same for Year ending January 31, 1909.

	1905.	1906.	1907.	1908.
Length of macadam, in miles .....	337.10	341.22	346.02	348.62
Total area of macadam in square yards .....	6,155,668	6,269,208	6,348,389	6,406,246
Total cost of maintenance of macadam * .....	\$673,884 55	\$700,401 56	\$480,607 27	\$340,822 36
Cost per mile over entire mileage .....	\$2,000 00	\$2,041 00	\$1,389 00	\$977 62
Cost per square yard over entire area * .....	\$0 11	\$0 11	\$0 08	\$0 053
Length of macadam resurfaced yearly in miles .....	32.3	27.6	20.9	22.2
Cost per mile of macadam resurfaced yearly .....	\$18,300 00	\$22,017 00	\$17,742 00	\$11,705 13
Area of macadam resurfaced yearly in square yards .....	552,146	507,689	392,670	406,438
Cost per square yard of resurfacing over yearly area .....	\$1 07	\$1 19	\$0 95	\$0 639
Cost per square yard of street cleaning over entire macadam area .....	\$0.0135	\$0.0148	\$0.0173	\$0.01264
Percentage of maintenance and street improvements appropriations used for maintenance of macadam * .....	41%	43.9%	36.5%	33.7%

\* Including street cleaning by Paving Division.

## New Edgestones. (Not including "323" and "393" streets.)

*First Setting. Linear Feet.*

YEAR.	South Boston.	East Boston.	Charlestown.	Brighton.	West Roxbury.	Dorchester.	Roxbury.	City Proper.	Totals.
1900.....	729	616	100	.....	614	9,633	8,882	1,544	22,118
1901.....	1,925	1,184	.....	4,627	7,936	22,574	13,942	2,480	54,668
1902.....	1,957	1,121	.....	688	990	10,428	3,842	2,082	21,108
1903.....	1,578	1,581	.....	5,838	912	10,959	10,164	4,131	35,163
1904.....	1,391	1,124	569	457	2,677	3,912	3,661	2,092	15,883
1905.....	2,049	1,494	.....	1,867	6,056	13,548	1,814	4,705	31,533
1906.....	2,078	628	.....	261	4,203	15,119	2,307	.....	24,596
1907.....	414	1,263	250	908	349	4,781	1,663	534	10,162
1908.....	656	798	.....	2,405	2,399	3,654	4,811	813	15,236
Totals....	12,777	9,809	919	17,051	26,136	94,608	50,786	18,381	230,467

## New Brick Sidewalks. (Not including "323" and "393" Streets.)

*First Laying. Square Yards.*

YEAR.	South Boston.	East Boston.	Charlestown.	Brighton.	West Roxbury.	Dorchester.	Roxbury.	City Proper.	Totals.
1900.....	1,069	1,476	477	873	1,583	4,033	4,999	2,858	17,368
1901.....	4,617	1,142	323	100	3,825	5,613	4,920	549	21,089
1902.....	1,319	1,425	.....	288	342	2,537	1,668	190	7,769
1903.....	1,161	635	.....	.....	182	700	2,342	186	5,206
1904.....	1,529	817	429	940	432	1,915	2,136	923	9,121
1905.....	1,186	1,980	.....	202	103	4,140	790	400	8,801
1906.....	934	699	.....	106	278	1,758	899	.....	4,674
1907.....	455	1,157	223	250	400	856	296	328	3,965
1908.....	217	836	.....	.....	156	958	884	313	3,364
Totals....	12,487	10,167	1,452	2,759	7,301	22,510	18,934	5,747	81,357

	Edgestones. <i>Linear Feet.</i>	Brick. <i>Square Yards.</i>
South Boston Paving District, No. 1.....	656	217
East Boston Paving District, No. 2.....	798	836
Brighton Paving District, No. 4.....	2,405	.....
West Roxbury Paving District, Nos. 5 and 11,	2,399	156
Dorchester Paving District, Nos. 6 and 12...	3,654	958
Roxbury Paving District, No. 7.....	4,511	884
City Proper Paving District, Nos. 8, 9, 10....	813	313
Totals.....	15,236	3,364

**Loads of Dirt and Street Cleanings Removed from February 1,  
1908, to January 31, 1909.**

*By Paving Division.*

DISTRICTS.	Single.	Double.	Cubic Yards.
South Boston .....	959	.....	959
East Boston.....	214	232	678
Charlestown.....	186	.....	186
Brighton.....	2,828	2,431	7,690
West Roxbury.....	7,773	1,962	11,692
Dorchester.....	3,304	714	4,732
Roxbury.....	3,761	.....	3,761
South End.....	3,480	486	4,452
Back Bay.....	1,567	305	2,177
North End.....	320	.....	320
Ashmont.....	2,505	1,492	5,489
Totals.....	26,897	7,622	42,136

**Loads of Snow Removed from February 1, 1908, to January 31,  
1909.**

*By Paving Division.*

DISTRICTS.	Single.	Double.	Cubic Yards.
South Boston.....	568	51	670
East Boston.....	6	5	16
Charlestown.....	112	11	134
Brighton.....	39	35	109
West Roxbury.....	282	299	880
Dorchester.....	92	54	200
Roxbury.....	270	.....	270
South End.....	1,283	52	1,387
Back Bay.....	42	150	342
North End.....	900	25	950
Ashmont.....	34	137	308
Totals.....	3,628	819	5,266

*By Contract.*

Snow District No. 1.....	.....	953	2,929
Snow District No. 2.....	.....	603	1,811
Snow District No. 3.....	.....	686	2,040
Snow District No. 4.....	.....	588	1,761
Snow District No. 5.....	.....	130	385
Totals.....	.....	2,960	8,926

*By Street Cleaning Division.*

South Boston.....	2,288	.....	3,763
East Boston.....	3,430	220	6,737
Charlestown.....	2,388	.....	4,199
Dorchester.....	98	.....	196
Roxbury.....	1,460	.....	2,642
South End.....	12,485	226	22,785
Back Bay.....	3,292	.....	5,912
North End.....	7,644	.....	12,806
Patrol System.....	4,456	.....	7,825
Totals.....	37,541	446	66,865
Grand totals.....	41,169	4,225	81,057

## Crushed Stone.

Output of Stone from City Crushers and Cost of Operating and Maintaining.

	Crushed Stone. Tons.	Cost of Operating and Maintenance for Fiscal Year.	Cost of Operating and Maintenance for Calendar Year.
Centre street crusher .....	167	\$2,791 82	\$2,374 77
Chestnut Hill avenue crusher .....	9,448	20,277 20	13,567 40
Codman street crusher .....	1,359	3,216 91	2,967 03
Columbia road crusher .....	984	15,154 84	7,566 75
Dimock street crusher .....	4,300	10,934 39	9,137 25
Rosseter street crusher .....	1,394	5,950 38	4,585 69
Grove street crusher .....		1,211 50	924 50
Bleiler crusher .....		1,108 36	1,105 28
Kenney crusher .....		3,072 60	2,657 14
Totals .....	17,652	\$63,718 00	\$44,885 81

## STREET OPENINGS.

Permits for making openings in the public streets have been issued from the Permit Office during the year ending January 31, 1909, as follows:

	Permits.	Feet.
Auxiliary Fire Alarm Company .....	1	75
Boston Fire Department .....	30	1,099
Boston Lamp Division .....	112	1,740
Boston Park Department .....	1	60
Boston Police Department .....	12	482
Boston Sewer Division .....	282	17,659
Boston Transit Commission .....	5	121
Boston Water Department .....	3,392	82,993
Boston Consolidated Gas Company .....	1,965	99,351
Boston Elevated Railway Company .....	175	331,283
Boston Low Tension Wire Association .....	13	3,651
Boston Pneumatic Transit Company .....	10	120
Boston, Revere Beach & Lynn Railroad Company .....	3	85
Boston & Albany Railroad Company .....	1	100
Boston & Maine Railroad Company .....	6	274
Charlestown Gas and Electric Company .....	96	3,380
Coleman Brothers Company .....	1	50
Columbia Counter Company .....	2	24
East Boston Gas Company .....	302	25,258
Eastern Cold Storage Company .....	3	76
Edison Electric Illuminating Company .....	1,371	55,397
Hind, Thomas J. .....	50	4,663
Lynn & Boston Railroad Company .....	6	13,186
Carried forward .....	7,839	641,127

STREET OPENINGS.—*Concluded.*

	Permits.	Feet.
<i>Brought forward</i> .....	7,839	641,127
Metropolitan Water and Sewerage Board.....	1	15
Murfeldt, W. A., Company.....	129	9,178
New England Telephone and Telegraph Company..	183	11,292
New York, New Haven & Hartford Railroad Co....	6	274
Old Colony Street Railway Company.....	2	1,901
Postal Telegraph Cable Company.....	2	55
Quincy Market Cold Storage Company.....	34	718
Schoolhouse Commissioners.....	4	1,180
Simpson Brothers Corporation.....	69	6,756
Standard Oil Company.....	9	79
Union Freight Railway Company.....	2	105
Warren Brothers Company.....	47	4,917
Western Union Telegraph Company.....	11	821
Miscellaneous.....	2,556	139,696
Emergency, Class A.....	1,177	.....
Emergency, Class A, returned as used 868, estimated length.....	.....	21,700
<b>Totals</b> .....	<b>12,071</b>	<b>839,814</b>

Making a total length of openings about 159.053 miles.

Permits other than for street openings have been issued as follows:

Advertising by man wearing hat and coat lettered . . . . .	19
Cleaning snow from roofs . . . . .	121
Driving cattle . . . . .	25
Dumping snow in public alleys . . . . .	45
Erecting and repairing awnings . . . . .	3,617
Erecting and repairing buildings . . . . .	7,487
Emergency permits, Class B . . . . .	606
Feeding horses on streets . . . . .	1,671
Loading and unloading goods . . . . .	50
Moving buildings . . . . .	5
Painting signs or notices on obstruction fences . . . . .	7
Placing signs flat on buildings . . . . .	2,872
Projecting signs and lamps . . . . .	147
Raising and lowering safes, machinery, etc. . . . .	434
Special permits for other purposes . . . . .	155
Extensions of permits already issued . . . . .	588
<b>Totals as above . . . . .</b>	<b>17,829</b>
<b>Totals for street openings . . . . .</b>	<b>12,071</b>
<b>Totals for all permits . . . . .</b>	<b>29,900</b>



## BONDS FOR PERMITS.

There are on file in the Permit Office 1,458 one thousand (1,000) dollar bonds which are guaranteed by some one of the surety companies authorized to do business in the State of Massachusetts. There are sixty-one (61) twenty thousand (20,000) dollar bonds on file in the office of the City Auditor under which permits are granted by the Permit Office.

## COAL VAULTS OR AREAS BENEATH SIDEWALKS.

There have been twenty (20) permits issued for the construction of areas and coal vaults during the year, as per order of the Board of Aldermen.

There have been sixteen (16) permits issued for sidewalk covers of various kinds over areas.

## EMERGENCY PERMITS.

The system of handling emergency permits—the purpose of which is to allow the interested parties to do work, in the night or at times when it is impossible for them to obtain regular permits, necessary for the safety of life and property—has been improved from year to year and is now in very good shape.

Some difficulty has been experienced by the district foremen in locating openings made by corporations owning underground structures, at street intersections, and in the event of several openings having been made in locating a leak on one permit. This has been obviated by requiring the corporations to give exact locations, by means of ties to permanent bounds in the case of street intersections, and by securing the exact location of each hole made in locating a leak.

## NOTICES.

There have been 14,628 notices sent to district foremen, corporations, departments and private individuals, directing them to make repairs to defects in the public streets.

There have been 318 notices sent to departments and corporations to perform work under the direction of the Chief Engineer of this department.

Each morning a statement is forwarded to each district foreman giving the locations of all openings for which permits were issued during the previous day.

An inspector is assigned to oversee the construction of all artificial sidewalks, and another is detailed to the examination of places where defects are alleged to exist which have caused accidents.

The inspectors detailed to serve with the corporations making openings in the streets send a daily report to the Permit Office of all openings and backfillings inspected during the previous twenty-four hours. The salaries of these men are met by the corporations whose work they inspect.

#### ELECTRIC POLES.

Permits have been issued during the year for the placing of forty-two (42) new poles as per plans on file in the Permit Office and in accordance with orders of the Board of Aldermen.

Permits have been issued for the resetting of one thousand two hundred and seven (1,207) poles which were defective or dangerous.

Permits have been issued for the removal of three hundred and eighteen (318) poles as per order of the Board of Aldermen and Wire Commissioner.

#### PLANS.

Plans of electric pole locations and locations for electric conduits, gas mains, railway tracks and a large number of miscellaneous matters, such as steam pipes, areas, etc., are kept on file and indexed as follows:

Bridge grades . . . . .	10
Conduit plans . . . . .	3,780
Elevated structural plans . . . . .	125
Pole plans . . . . .	5,183
Street numbering plans . . . . .	1,547
Track plans . . . . .	2,017
Miscellaneous plans . . . . .	471
	<hr/>
Total plans on file . . . . .	13,213

#### SIDEWALK DEFECTS.

During nine months of this year two inspectors have been examining the sidewalks of the public streets for defects liable to cause accidents to pedestrians. Their inspection covered open areas needing guard rails; area covers smooth or with bull's-eyes out; bulkhead covers and edges; coal-hole

covers, rims or stones smooth or otherwise defective; depressions and stub-toes of various kinds, etc.

The inspectors made 14,741 inspections and under chapter 38, sections 12, 18 and 19, and chapter 47, section 54, of the Revised Ordinances of 1898, and chapter 5, section 3, of the Revised Regulations of 1898, they found 4,156 defective properties.

Notices to the number of 3,756 were mailed to the owners or lessees of the property at which each defect was found and in addition 400 verbal notices were given by the inspectors to the interested parties at the time of inspection. Subsequent inspection shows that in 2,900 cases satisfactory repairs were made and in 1,256 cases they are yet to be made.

During the past two months the work of these inspectors has been so arranged that in each defect reported it becomes the duty of the inspector to follow up the responsible party until repairs are effected.

As a rule more than one defect was reported on each notice, thus making it apparent that at the lowest estimate the inspection has resulted in the repair of 4,000 defects. Probably there have not been such a number of sidewalk defects removed in an equal period during any ten previous years in the history of the city.

## STREET NUMBERING.

	Whole Streets Numbered.	Whole Streets Renumbered.	Part Streets Numbered.	Part Streets Renumbered.	Estates Numbered.	Estates Changed.	Metallic Figures Supplied.
East Boston . . . . .		1	3	4	105	47	402
Charlestown . . . . .		3	1		16	59	152
City Proper . . . . .	1	14	1	7	111	161	630
South Boston . . . . .					68	4	249
Dorchester . . . . .	3	3	15	2	684	49	2,027
Roxbury . . . . .		2	2	1	127	21	389
West Roxbury . . . . .			2	2	154	13	475
Brighton . . . . .	1		2	1	112	15	326
Totals . . . . .	5	23	26	17	1,377	369	4,650

TABLE SHOWING THE COST OF ASPHALT REPAIRS PER SQUARE YARD OF STREET SURFACE  
FROM 1900 TO 1908, INCLUSIVE.  
Trinidad Asphalt.  
City Proper.

STREET.	Limits.	Year Laid.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
Albany street.....	80 feet north of Broadway, across Way st.	1899	.....	.....	.....	.....	*	.....	.....	\$0.009	.....
Albany street.....	East Concord street to 225 feet north of Massachusetts avenue.....	1884	\$0.117	\$0.029	\$0.019	\$0.090	\$0.029	\$0.082	\$0.055	.086	\$0.124
Arch street.....	Franklin street to Milk street.....	1893	.075	.....	.065	.069	.091	.057	.062	†.082	.....
Arch street.....	200 feet south of Milk street to Franklin st..	1893	.....	.....	.....	.....	.....	.....	.....	.....	.329
Ash street.....	Bennet street to Nassau street.....	1887	.028	.128	.064	.018	.033	†	.....	.....	.....
Barton court.....	Barton street to Brighton street.....	1894	.222	.113	.....	.....	†	.....	.....	.....	.....
Batterymarch street..	Milk street to Liberty square.....	1896	.....	*	.....	.....	.247	.004	.008	.070	.030
Beacon street.....	Charles street, across Arlington street.....	1891	.086	.075	.024	.047	.043	.048	.049	.107	†.062
Beacon street.....	Charles street to Brimmer street.....	1891	.....	.....	.....	.....	.....	.....	.....	.....	.109
Beacon street.....	Easterly side of Dartmouth st. to within 150 feet of westerly line of Gloucester street...	1892	.127	.049	.020	.033	.060	.013	.036	.063	.084
Beacon street.....	150 feet from westerly line of Gloucester street to 78 feet beyond westerly line of Gloucester street.....	1898	.....	.....	.....	*	.004	.006	.014	.....	.010
Beacon street.....	78 feet west of Gloucester street to Massachusetts avenue.....	1893	.116	.105	.016	.056	.011	.093	.028	†.001	.....
Beacon street.....	78 feet west of Gloucester street to Hereford street.....	1893	.....	.....	.....	.....	.....	.....	.....	.....	.042
Bennet street.....	90 feet west of Harrison avenue to 162 feet east of Washington street.....	1887	.043	.065	.030	.162	.019	†	.....	.....	.....

Bond street	1895																			.037			
Boylston street	1897																			‡ .157	.226		
Brattle square	1888					.082	*													.037	.103		
Brighton street	1892					.230	.090													.143	.744		
Brimmer street	1895						.030													\$			
Brimmer street	1895																				.163	.397	
Brimmer street	1895																			.074	.211		
Broadway	1899																			.359			
Castle street	1899																		*	.037			
Cazenove street	1899																		*	.025			
Central street	1887					.003	.063	.048											*		.028		
Chambers street	1894					.173	.175	†												.169	.065	.191	
Chambers street	1895							.003												.141	.029		
Chandler street	1899																						.272
Charter street	1894						.107	.031												.068	.062	.073	
Cherry street	1892							.029												.189	.192	.386	.616
Clark street	1892					.070	.035	.025												.047	.027	.108	.012
Columbus avenue	1884-99					.176	.102	.125												.033	.027	.064	.392
Columbus avenue	1896						*	.020												.126	.169	†	
Congress square	1833-1900																			.123	.193	†	
																				*		.127	.007

\* Guarantee expired in this year. † Repaved in this year. ‡ Part repaved in this year.  
 § From center of Byron street to Chestnut street repaved in this year.

Cost of Trinidad Asphalt Repairs, 1900=1908.—Continued.

STREET.	Limits.	Year Laid.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
Cooper street.....	North Margin street, across Endicott street..	1887	\$0.064	\$0.076	\$0.030	\$0.152	\$0.128	\$0.051	\$0.123	\$0.340	\$0.339
Cooper street.....	Endicott street to Washington Street North,	1897	.....	.....	*	.189	.065	.158	.226	.....	†
Corning street.....	Washington street to Shawmut avenue.....	1883-96	.....	*	.235	.237	.056	.204	.202	.487	†.061
Court street.....	Washington street to Court square.....	1891-1904	.121	.238	.334	.027	†	.....	.....	.....	.....
Court square.....	Court street to Court street.....	1881	.021	.178	.034	.063	†.115	.....	.....	.....	.....
Court square.....	Easterly and southerly side.....	1881-94	.031	.176	.074	.118	.171	.107	.036	.097	.191
Dartmouth street.....	Boylston street to Newbury street.....	1894	.039	.....	.007	\$.089	.....	.....	.....	.026	.067
Dartmouth street.....	Buckingham street to 127 feet south of Stuart street.....	1899	.....	.....	.....	.....	.....	*	.019	.....	.....
Davis street.....	Washington street to Harrison avenue.....	1892	.015	.....	.054	.072	.010	.082	.060	.081	.100
Doane street.....	Kilby street to Broad street.....	1881	.040	.032	.080	.198	.103	.043	.....	.058	.307
Edinboro street.....	Essex street to Beach street.....	1895	.....	.....	.010	.089	.021	.113	.086	.061	.068
Exchange place.....	Congress street to Kilby street.....	1887	.026	.123	.036	†	.....	.....	.....	.....	.....
Ferdinand street.....	At Castle square.....	1889	.....	.....	.....	.....	*	.....	.....	.....	.....
Groton street.....	Washington street to Shawmut avenue.....	1892	.032	.....	.040	.045	.028	.....	.031	.022	.045
Hanover avenue.....	Hanover street to North street.....	1892	.060	.....	.016	.301	.006	.060	.059	.028	.237
Harrison avenue.....	East Newton street to East Springfield st....	1888-95	.090	.043	.080	.118	.017	.068	.115	.221	.369
Harrison avenue.....	East Springfield street to 90 feet southerly...	1888	.....	.....043	.080	.118	.017	.....	.....	.195	.880
Hollis street.....	Tremont street, towards Washington street..	1891	.031	.130	.036	.164	.150	.051	.071	.173	.092

Hudson street.....	1891	.155	.046	.064	.101	.037	.068	.132	.149	.175
Kilby street.....	1881	.006	.037	.038	.028					
Kilby street.....	1881-98				*	.030	.056	.224	.149	\$.010
Laconia street.....	1896		*	.042	.083		.027	.054	.056	.157
La Grange street.....	1897			*		.100	.068	.132	.110	.180
Lincoln place.....	1897			*				.024		.037
Malcolm street.....	1892			.010	.019		.065		.101	.128
Massachusetts avenue..	1892	.045	.053	.033	.058	.031	.034	.019	.073	.088
Massachusetts avenue..	1892	.045	.053	.033	.058	.031	.017	.015	.019	.063
Massachusetts avenue..	1892	.045	.053	.033	.058	.031	.013	.048	.043	.200
Moon street.....	1891	.034	.017	.010	.098		.060	.096	.035	.150
North Bennet street...	1883	.140	.127	.132	.044	†				
North Margin street...	1895			.015	.097	.015	.029	.032	.008	.114
Oxford street.....	1895		.010		.048	.006	.096	.049	.076	.159
Parkman street.....	1898				*			.007	.034	.020
Parmer street.....	1893	.184		†						
Finckney street.....	1895			.002	.113	.032	.015	.089	.096	.248
Pine street.....	1896		*		.052		.081	.015	.032	.037
Pleasant street.....	1900						*	.648	1.717	.314
Poplar street.....	1887-92	.097	.068	.054	.128	.032	.057	.050	.101	.217

\* Guarantee expired in this year.

† Repaved in this year.

‡ Westerly side repaved in this year.

§ Part repaved in this year.

Cost of Trinidad Asphalt Repairs, 1900-1908.—Concluded.

STREET.	Limits.	Year Laid.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
Spring street.....	Poplar street to Leverett street.....	1895	.....	\$0.024	\$0.084	\$0.279	\$0.091	\$0.107	\$0.187	\$0.381	\$0.440
Stevens street.....	Lincoln place, towards Shawmut avenue.....	1897	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stillman street.....	Endicott street, across North Margin street,	1892	\$0.038	.....	.030	.123	.....	.009	.038	.047	.349
Stoddard street.....	Howard street to Court street.....	1892	.408	.....	.014	.....	.099	.....	.212	.040	.049
Sun-court street.....	North street to Moon street.....	1891	.020	.182	.024	.295	.069	.244	.108	.101	.304
Thacher street.....	Washington Street North to Endicott street,	1892	.011	.011	.....	.164	.006	.020	.043	.168	.405
Tileston street.....	155 feet west of Hanover st., across Unity st.	1887	.135	.153	.209	.060	.173	†	.....	.....	.....
Tileston street.....	Unity street to Salem street.....	1895	*	.....	.....	.019	.....	.....	.....	.025	.270
Tremont street.....	At Castle square.....	1899	.....	.....	.....	*	.....	.....	.....	.....	.....
Unity street.....	Charter street to Tileston street.....	1897	.....	.....	*	.021	.046	.066	.067	.197	.182
Warrenton street....	Eliot street to Tremont street.....	1884-91	.030	.069	.020	.044	.050	.110	.038	.031	.112
Warrenton street....	Shawmut avenue to Washington street.....	1891	.030	.069	.020	.037	.027	.108	.067	.088	.120
Water street.....	Congress street to Kilby street.....	1889	.432	.203	†	.....	.....	.....	.....	.....	.....
Water street.....	Liberty square to Broad street.....	1896	.....	*	.007	.011	.050	.013	.018	.029	.025
Wiget street.....	Salem street to North Margin street.....	1897	.....	.....	*	.177	.....	.....	.063	.060	.186
Wiggin street.....	North Margin street to Tileston street.....	1887	.179	.....	.178	.068	.229	.197	.....	.....	.....

Charlestown.

Austin street.....	Seminary place to Lawrence street.....	1891	.....	\$0.050	\$0.010	\$0.082	\$0.027	\$0.042	\$0.037	\$0.124	\$0.151
Bunker Hill street....	At Tufts street.....	1897	.....	.....	*	.....	.....	.....	.....	.....	.....
Charlestown Bridge....	Over Fitchburg Railroad.....	1899	.....	.....	.216	.877	1.127	.341	.336	1.272	.632



Corey street.....	1897	.....	*	.....	.....	.....	.....	.....	.042	.....	.236	.238
124 feet north of Moulton st. to Moulton st..	1897	.....	*	.....	.....	.....	.....	.....	.....	.....	.....	.025
Easterly side of Corey street to Vine street..	1897	.....	*	.....	.....	.....	.....	.....	.012	.039	.....	.007
Vine street to Bunker Hill street.....	1897	.....	*	.....	.....	.....	.....	.....	.....	.....	.038	.070
Bunker Hill street, 141 feet northerly.....	1897	.....	*	.....	.....	.....	.....	.....	.....	.....	.....	.031
Bunker Hill street, across Moulton street....	1897	.....	*	.....	.....	.....	.....	.....	.....	.....	.....	.....

*South Boston.*

D street.....	1889	\$0.016	\$0.048	\$0.056	\$0.221	\$0.032	\$0.051	\$0.165	\$0.137	\$0.302
West Fifth street to Gold street.....	1892	.....	.....	.....	.....	.053	.035	.026	.....	.213
West Third street to Bolton street.....	1891	.....	.....	.....	.047	.....	.....	.....	.....	.074
Dorchester street to Preble street.....	1887	.019	.....	.154	.178	.032	.073	.....	.....	.....
160 feet east of C street, towards D street...	1892	.....	.....	.031	.....	.054	.....	.032	.....	.117
West Sixth street.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
West Third street.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

*Roxbury.*

Cabot street.....	1891	\$0.046	\$0.022	\$0.027	\$0.023	\$0.002	\$0.019	\$0.025	\$0.069	\$0.078
Tremont street to Ruggles street.....	1892	.012	.....	.010	.012	.006	.020	.034	.....	.100
Easterly side of Ruggles st. to Vernon st....	1897	.....	.....	*	.....	.001	.....	.008	.013	.161
Easterly side of Vernon street to Linden Park street.....	1896	.....	*	.020	.037	.123	.060	†	.....	.....
301 feet south of Camden st., across Terry st.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

\* Guarantee expired in this year.

† Repaired in this year.

**Cost of Sicilian Rock Asphalt Repairs, 1900=1908.**  
*City Proper.*

STREET.	Limits.	Year Laid.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
Acton street.....	Washington street to Bradford street.....	1896	.....	*	\$0.054	.....	\$0.008	\$0.010	\$0.051	\$0.018	\$0.129
Albany street.....	Easterly side of Stoughton street, across East Concord street.....	1897	.....	.....	*	\$0.185	.205	†.048	.....	.....	.....
Ash street.....	Oak street, across Nassau street.....	1895	\$0.115	.....	.196	.....	.188	.029	.....	.....	.....
Avery street.....	Washington street to Mason street.....	1897	.....	.....	*	.175	.....	†	.099	.....	.096
Barton street.....	Leverett street to Milton street.....	1895	.....	\$0.101	.015	.....	.052	.019	.035	.035	.101
Bradford street.....	Waltham street to Shawmut avenue.....	1897	.....	.....	*	.....	.021	.001	.011	.018	.010
Cobb street.....	Washington street to Shawmut avenue.....	1897	.....	.....	*	.....	.....	.042	.019	.006	.008
Decatur street.....	Washington street to Harrison avenue.....	1892	.080	.....	.098	.174	.052	.126	.119	.187	.460
Dwight street.....	Shawmut avenue to Tremont street.....	1893	.015	.....	.030	.....	.013	.022	.005	.041	.005
Exeter place.....	Chauncy street to Harrison avenue.....	1897	.....	.....	*	.....	.....	.046	.032	.105	.008
Fabin street.....	Newland street to Ivanhoe street.....	1895	.....	.....	.....	.....	.....	.067	.....	.....	.008
Fay street.....	Dover street to Harrison avenue.....	1894	.....	.....	.099	.296	.048	.....	.014	.020	.084
Hamburg street.....	Mystic street to Harrison avenue.....	1896	.....	.....	.....	.035	.022	.006	.023	.020	.010
Hanover street.....	Tilston street, across Charter street.....	1896	.....	.....	.105	.179	.065	.144	.146	.122	.234
Huntington avenue.....	Boston & Albany Railroad to Massachusetts avenue.....	1896	.....	*	.008	.013	.012	.017	.015	.035	.039

Mason street	1894	.191	.300	.099	.533	.198	.256	.325	†	.029
From 213 feet south of West street to 444 feet south of West street.										
Washington street to Harrison avenue (southerly roadway)	1894	.010		.014	.019	.011	.013	.035	.002	.055
Harrison avenue to Albany street (southerly roadway)	1894	.010		.014	.019	.011	.034	.003	.010	
Castle street to Cobb street	1897			*			.065	.011		
East Dedham street to Malden street	1896		*	.182	.014		.002			.015
Washington street to Harrison avenue	1892-99		.161			.025			.147	.065
Malden street to East Brookline street	1896		*		.046	.012	.036	.016	.015	.027
Thacher street, towards Endicott street	1897			*	.095	.027	.095	.015	.077	.105
Mystic street to Meander street	1896		*		.027		.029	.015		.014
Washington street to Shawmut avenue	1896		*	.043		.077	.040	.021	.030	.088
Front of Suffolk Courthouse	1894					.030	.008	.012	.002	.013
Hanover street to Bennet avenue	1895				.052	.190	.007	.035	.038	.073
132 feet south of Castle st., across Cherry st.	1898				*	.057	.069	.081	.150	.198
Dwight street to Milford street	1896		*	.014			.048	.020		.020
Kneeland street to Harvard street	1895			.023			.063	.030		.026

\* Quarrantees expired in this year.

† Repaired with bituthitic in this year.

‡ From Washington street to 79 feet west of Haymarket place repaired with granite blocks in this year.

Cost of Sicilian Rock Asphalt Repairs, 1900-1908.—Concluded.  
South Boston.

STREET.	Limits.	Year Laid.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
Athens street.....	West Second street to A street.....	1895	.....	.....	.....	.....	.....	\$0.019	.....	\$0.009	.....
Athens street.....	B street to C street.....	1892	.....	.....	.....	.....	.....	.028	\$0.013	.010	.....
East Broadway.....	Front of Lincoln School.....	1897	.....	.....	*	\$0.035	\$0.056	.110	.062	.048	\$0.052
K street.....	East Sixth street to East Eighth street.....	1896	.....	*	\$0.084	.129	.054	.048	.060	.106	.056
West Broadway.....	From 196 feet east of easterly line of Dorchester avenue to A street.....	1892	\$0.213	.....	.260	.110	.066	.183	.153	.200	.274
West Broadway.....	Gardner place to 150 feet easterly.....	1893	.060	\$0.229	.344	.125	.122	.152	.195	.246	.440
West Broadway.....	New England Bridge to E street (4-foot gutters).....	1897	.....	.....	*	.092	.121	.209	.159	.107	.154
West Broadway.....	150 feet west of F street to 267 feet east of F street.....	1897	.....	.....	*	.....	.030	.112	.022	.023	.133
West Broadway.....	267 feet east of F street to 44 feet west of Dorchester street.....	1898	.....	.....	.....	*	.031	.062	.019	.029	.037

Roxbury.

Columbus avenue.....	Terry street to 61 feet north of Station st....	1896	.....	*	\$0.167	\$0.192	\$0.104	\$0.189	†	†	.....
Huntington avenue....	Easterly side of Cumberland street to Massachusetts avenue.....	1896	.....	*	.008	.013	.012	.....	.....	.....	.....
Huntington avenue....	Massachusetts avenue to Gainsborough st....	1896	.....	*	.....	.013	.012	.019	\$0.003	\$0.013	\$0.038
Ipswich street.....	Bridge over waterway.....	1898	.....	.....	.....	*	.....	.102	.....	.....	.....

\* Guarantee expired in this year.

† Repaved in this year.

## Cost of Seyssel Rock Asphalt Repairs, 1900-1908.

STREET.	Limits.	Year Laid.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
Genesee street.....	Harrison avenue to Albany street.....	1899	.....	.....	.....	.....	*	\$0.039	\$0.007	\$0.016	\$0.010
Mason street.....	444 feet south of West street to Avery st....	1899	.....	.....	.....	.....	*	.....	.045	.097	.086
Oswego street.....	Harrison avenue to Albany street.....	1899	.....	.....	.....	.....	*	.006	.008	.009	.022
Paul street.....	Emerald street to Village street.....	1897-99	.....	.....	*	.....	.....	.....	.....	.023	.077
Paul street.....	Village street to Tremont street.....	1897-99	.....	.....	*	.....	.....	.015	.....	.028	.094
Palham street.....	Washington street to Shawmut avenue.....	1897	.....	.....	*	.....	\$0.091	.....	.016	.013	.042
Waterford street.....	Washington street to Shawmut avenue.....	1897	.....	.....	*	.....	.149	.021	.089	.085	.093

## Other Asphalt.

STREET.	Limits.	Year Laid.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
Harris street.....	Hanover street to North street (coal tar)....	.....	\$0.051	.....	\$0.076	.....	†	.....	.....	.....	.....
I street.....	East Broadway to East Fourth st. (coal tar).	.....	.264	.....	.108	\$0.282	.....	\$0.180	\$0.049	\$0.052	\$0.108
Massachusetts avenue..	Columbus avenue to Tremont street north- erly roadway (asphaltina).....	1897	.....	.....	*	.092	\$0.104	.093	.151	†	.....
Mt. Vernon street.....	Archway under State House (Limmer rock asphalt).....	1897	.....	.....	.....	.....	.....	.....	.....	.....	.....

\* Guarantee expired in this year.

† Repaved with Trinidad in this year.

‡ Repaved with bitulithic in this year.

LIST OF STREETS PAVED WITH TRINIDAD ASPHALT, JANUARY 31, 1909.  
*City Proper.*

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Albany street.....	80 feet north of Broadway, across Way street.....	105	397	1899	
Albany street.....	East Concord street to 225 feet north of Massachusetts avenue.....	446	2,676	1884	
Andrews street.....	East Dedham street to East Canton street.....	216	312	1899	Oct. 22, 1909.
Arch street.....	Milk street to 200 feet south of Milk street.....	200	580	1907	July 27, 1917.
Arch street.....	200 feet south of Milk street to Franklin street.....	226	687	1893	
Arlington street.....	Boylston street to Beacon street.....	1,324	7,355	1901	June 16, 1911.
Ash street.....	Bennet street to Nassau street.....	232	452	1905	Oct. 5, 1915.
Avon street.....	Washington street to Chauncy street.....	428	1,061	1901	Oct. 29, 1911.
Barton court.....	Barton street to Brighton street.....	134	182	1904	Sept. 7, 1914.
Batterymarch street.....	Milk street to Liberty square.....	150	466	1896	
Beacon street.....	Charles street to southerly side of Brimmer street.....	508	2,288	1891	
Beacon street.....	Charles street, across Arlington street, southerly roadway.....	.....	2,171	1901	June 29, 1911.
Beacon street.....	Easterly side of Dartmouth street to within 150 feet of the westerly line of Gloucester street.....	1,733	9,219	1892	
Beacon street.....	150 feet east of the westerly line of Gloucester street to 75 feet beyond the westerly line of Gloucester street.....	228	1,236	1898	
Beacon street.....	75 feet west of Gloucester street to Hereford street.....	316	1,641	1893	
Beacon street.....	Hereford street to Massachusetts avenue.....	706	3,766	1907	Sept. 16, 1917.

Bennet street.....		248	469	1905	Aug. 18, 1915.
Berkeley street.....	Ash street to Harrison avenue.....	273	678	1902	Aug. 4, 1912.
Berkeley street.....	Boylston street to St. James avenue.....	329	329	1906	Dec. 31, 1916.
Berwick park.....	Easterly roadway, Boylston street to Providence street.....	9	34	1907	Jan. 8, 1917.
Bond street.....	At Columbus avenue (crosswalk).....	192	426	1895	
Bosworth street.....	Hanson street to Milford street.....	13	28	1900	Dec. 2, 1910.
Boylston street.....	At Tremont street.....	357	1,395	1901	Oct. 9, 1911.
Boylston street.....	Tremont street, across Boylston place.....	868	4,792	1901	Oct. 9, 1911.
Boylston street.....	Charles street to Arlington street.....	656	1,255	1897	
Boylston street.....	Easterly side of Berkeley street, across Clarendon street, southerly side.....	.....	1,379	1907	June 10, 1917.
Boylston street.....	Easterly side of Berkeley street, across Clarendon street, northerly side.....	649	2,332	1901	Oct. 23, 1911.
Brattle square.....	Clarendon street, across Dartmouth street.....	281	670	1888	
Brighton street.....	Brattle street to Elm street.....	845	1,865	1892	
Brimmer street.....	Leverett street to Allen street (cobble base).....	116	322	1895	
Brimmer street.....	Beacon street to the center of Byron street.....	180	536	1906	Nov. 10, 1916.
Brimmer street.....	Center of Byron street to Chestnut street.....	791	2,442	1895	
Broadway.....	Chestnut street to Pinckney street.....	105	467	1899	
Bromfield street.....	Albany street to 105 feet west of Albany street.....	12	31	1900	Dec. 2, 1910.
Castle street.....	At Tremont street.....	.....	427	1899	
Cazenove street.....	Castle square, easterly.....	45	134	1899	
Central street.....	Columbus avenue to 45 feet south of Columbus avenue, also intersection of Columbus avenue.....	313	869	1887	
Chambers street.....	Broad street to Kilby street.....	460	1,022	1902	Oct. 25, 1912.
	Green street, across Poplar street.....				

## List of Streets Paved with Trinidad Asphalt.—Continued.

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Chambers street.....	Brighton street, across Auburn street.....	152	337	1895	
Chambers street.....	Auburn street to Charles street (cobble base).....	120	267	1895	
Chandler street.....	At Castle square.....	51	51	1899	
Charles street.....	Southerly side of Fruit street, across Allen street.....	706	1,804	1899	Oct. 31, 1909.
Charter street.....	Hanover street, across Unity street (cobble base).....	304	586	1894	
Cherry street.....	Washington street to Shawmut avenue.....	334	594	1892	
Claremont park.....	At Columbus avenue (crosswalk).....	9	34	1907	Jan. 8, 1917.
Clark street.....	Hanover street to North street (cobble base).....	301	579	1892	
Columbus avenue.....	134 feet south of Ferdinand street to Boston & Albany R. R. Bridge.....	912	3,570	1904	Nov. 25, 1914.
Columbus avenue.....	Boston & Albany R. R. Bridge to northerly side of Camden street.....	4,083	15,742	1907	Jan. 8, 1917.
Concord square.....	At Columbus avenue (crosswalk).....	9	41	1907	Jan. 8, 1917.
Congress square.....	From Congress square to Congress street.....	209	400	1900	
Cooper street.....	North Margin street to Endicott street.....	163	504	1887	
Cooper street.....	East side of Endicott street to Washington Street North.....	241	709	1908	Sept. 16, 1918.
Court street.....	Washington street to westerly side of Old Court House.....	296	823	1904	July 6, 1914.
Court square.....	From Court street to 20 feet south on the easterly side.....	20	50	1904	July 6, 1914.
Court square.....	From 20 feet south of Court street on the easterly and southerly sides to the westerly side.....	348	1,050	1894	
Court square.....	From Court street 291 feet on the westerly side of the Old Court House.....	291	703	1904	Sept. 26, 1914.



Dartmouth street.....	101	280	1899	Buckingham street to 127 feet south of Stuart street.....	101	280	1899
Dartmouth street.....	234	1,890	1901	Huntington avenue to Boylston street.....	234	1,890	1901
Dartmouth street.....	257	1,600	1894	Boylston street to Newbury street.....	257	1,600	1894
Dartmouth street.....	.....	400	1903	Boylston street to Newbury street (car tracks removed)	.....	400	1903
Davis street.....	323	646	1892	Washington street to Harrison avenue.....	323	646	1892
Devonshire street.....	262	786	1899	Milk street to Water street.....	262	786	1899
Devonshire street.....	417	1,404	1905	Milk street to Franklin street.....	417	1,404	1905
Dillon street.....	218	315	1902	Lenox street to Sawyer street.....	218	315	1902
Doane street.....	312	624	1881	Kilby street to Broad street.....	312	624	1881
Edinboro' street.....	470	924	1895	Essex street to Beach street.....	470	924	1895
Endicott street.....	318	1,078	1899	Cooper street, across Thacher street.....	318	1,078	1899
Exchange place.....	245	708	1903	Congress street to Kilby street.....	245	708	1903
Ferdinand street.....	37	107	1899	At Castle square.....	37	107	1899
Greenwich park.....	9	34	1907	At Columbus avenue (crosswalk).....	9	34	1907
Groton street.....	335	558	1892	Washington street to Shawmut avenue (block paving)	335	558	1892
Hanover street.....	315	425	1907	Tileston street, across Charter street.....	315	425	1907
Hanover avenue.....	307	266	1892	Hanover street to North street (cobble).....	307	266	1892
Harris street.....	300	373	1904	Hanover street to North street.....	300	373	1904
Harrison avenue.....	249	885	1899	22 feet south of Kneeland street to 22 feet north of Harvard street.....	249	885	1899
Harrison avenue.....	158	300	1901	Asylum street, across Davis street.....	158	300	1901
Harrison avenue.....	143	270	1905	Northerly side of Decatur street, across Gloucester place.....	143	270	1905
Harrison avenue.....	248	634	1903	Northerly side Union Park street, across Malden street.....	248	634	1903

Oct. 23, 1911.

June 26, 1913.

Oct. 1, 1909.

Oct. 19, 1915.

Nov. 28, 1912.

Oct. 26, 1909.

Dec. 4, 1913.

Jan. 8, 1917.

July 22, 1917.

Oct. 22, 1914.

Nov. 16, 1909.

Aug. 24, 1911.

Sept. 13, 1915.

April 2, 1913.

## List of Streets Paved with Trinidad Asphalt.—Continued.

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Harrison avenue.....	East Newton street to East Springfield street.....	922	2,664	1888-95	
Harrison avenue.....	East Springfield street to 97 feet southerly.....	.....	140	1888	
Hawes street.....	Congress street to Kilby street.....	258	254	1904	Nov. 6, 1914.
Hayward place.....	9 feet east of Washington street to 85 feet east of Washington street.....	76	172	1906	Sept. 1, 1916.
Hayward place.....	85 feet east of Washington street to Harrison avenue.....	175	395	1905	Aug. 21, 1915.
Hollis street.....	Tremont street toward Washington street (block base).....	261	493	1891	
Holyoke street.....	At Columbus avenue (crosswalk).....	9	34	1907	Jan. 8, 1917.
Hudson street.....	Beach street to 90 feet north of Curve street, minus Kneeland street and Harvard street intersections.....	1,407	3,938	1891	
Huntington avenue.....	Boylston street, across Dartmouth street.....	624	5,527	1901	Oct. 23, 1911.
Huntington avenue, westerly road-way.....	From 685 feet north of West Newton street to 38 feet north of West Newton street.....	.....	1,831	1907	Oct. 24, 1917.
Kilby street.....	Milk street to Central street.....	400	1,342	1898	
Kilby street.....	Liberty square.....	.....	505	1881	
Kilby street.....	Central street to State street.....	240	672	1904	May 21, 1914.
Laocnia street.....	Washington street to Harrison avenue.....	330	727	1896	
La Grange street.....	Tremont street, towards Washington street.....	181	355	1897	
Lincoln place.....	Worcester street to West Springfield street.....	217	313	1897	
Lynn street.....	Cooper street to Thatcher street.....	294	457	1906	Aug. 21, 1916.

Malcolm street.....	208	156	1892
Malden street.....	531	1,534	1902
Mason street.....	85	206	1900
Massachusetts avenue.....	543	1,690	1892
Massachusetts avenue.....	940	2,934	1892
Massachusetts avenue.....	360	1,040	1892
Moon street.....	166	306	1891
Norman street.....	398	712	1905
North Bennet street.....	557	928	1904
Northampton street.....	370	648	1905
Northampton street.....	9	34	1907
North Margin street.....	519	1,178	1895
Oxford street.....	430	735	1895
Parkman street.....	234	534	1898
Parmenter street.....	279	764	1902
Parnell street.....	264	367	1902
Pinckney street.....	271	723	1895
Pine street.....	419	597	1896
Pleasant street.....	55	128	1900
Poplar street.....	1,188	2,442	1887-92
Porter street.....	12	17	1900
Public Alley No. 301.....	270	400	1897
54 feet south of Mt. Vernon street to Chestnut street (cobble base).....			
Washington street to Harrison avenue.....			Dec. 8, 1912.
Avery street to Tremont street.....			Nov. 10, 1910.
Columbus avenue to Tremont street, southerly roadway.....			
Tremont street to Shawmut avenue, southerly roadway.....			
Shawmut avenue to Washington street, southerly roadway.....			
North square to Lewis street (cobble base).....			
Green street to South Margin street.....			Aug. 10, 1915.
Hanover street to Salem street.....			Oct. 1, 1914.
Washington street to Shawmut avenue.....			Oct. 9, 1915.
At Columbus avenue (crosswalk).....			Jan. 8, 1917.
Stillman street to Thacher street.....			
Beach street to Essex street (macadam).....			
North Anderson street, across Blossom street.....			
Hanover street to Salem street.....			
Lenox street to Sawyer street.....			Sept. 13, 1912.
Charles street, across Brimmer street.....			Nov. 28, 1912.
Washington street to Harrison avenue.....			
Bridge over Boston Elevated Railway.....			
Chambers street to Charles street (cobble base).....			
At Pleasant street (crossing).....			
Pinckney street to River street.....			

## List of Streets Paved with Trinidad Asphalt.—Continued.

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
† Public Alley No. 401.....	Between Huntington avenue and St. Botolph street, from Irvington street to Garrison street.....	350	362	1899	Oct. 2, 1909.
† Public Alley No. 402.....	Between Huntington avenue and St. Botolph street, from Garrison street to West Newton street.....	358	374	1899	Sept. 30, 1909.
† Public Alley No. 403.....	Between Huntington avenue and St. Botolph street, from West Newton street to Cumberland street.....	355	370	1899	Sept. 29, 1909.
Public Alley No. 414.....	Between Beacon street and Marlborough street, from 53 feet east of Massachusetts avenue to Hereford street.....	614	574	1901	Oct. 24, 1911.
Public Alley No. 415.....	Between Beacon street and Marlborough street, from Hereford street to Gloucester street.....	398	382	1901	Oct. 12, 1911.
Public Alley No. 416.....	Between Beacon street and Marlborough street, from Gloucester street to Fairfield street.....	524	494	1901	Nov. 14, 1911.
Public Alley No. 417.....	Between Beacon street and Marlborough street, from Fairfield street to Exeter street.....	624	583	1901	Nov. 29, 1911.
† Public Alley No. 419.....	Between Beacon street and Marlborough street, from Dartmouth street to Clarendon street.....	575	511	1899	Sept. 28, 1909.
† Public Alley No. 420.....	Between Beacon street and Marlborough street, from Clarendon street to Berkeley street.....	580	515	1897	
Public Alley No. 422.....	Between Commonwealth avenue and Marlborough street, from Arlington street to Berkeley street.....	631	589	1902	Sept. 18, 1912.
Public Alley No. 423.....	Between Commonwealth avenue and Marlborough street, from Berkeley street to Clarendon street.....	580	544	1902	Aug. 26, 1912.
Public Alley No. 424.....	Between Commonwealth avenue and Marlborough street, from Clarendon street to Dartmouth street.....	575	539	1902	April 22, 1912.

Public Alley No. 426.....	Between Commonwealth avenue and Marlborough street, from Exeter street to Fairfield street.....	624	595	1901	Oct. 16, 1911.
Public Alley No. 428.....	Between Commonwealth avenue and Marlborough street, from Gloucester street to 205 feet east of Hereford street.....	190	193	1901	Oct. 23, 1911.
† Public Alley No. 431.....	Between Commonwealth avenue and Newbury street, from 205 feet east of Hereford street to 85 feet west of Gloucester street.....	107	95	1899	Sept. 25, 1909.
Public Alley No. 437.....	Between Commonwealth avenue and Newbury street, from Berkeley street to Arlington street.....	631	561	1898	
Public Alley No. 701.....	Between Union Park street and Upton street, from 130 feet east of Tremont street to Shawmut avenue.....	521	611	1899	Nov. 8, 1909.
Rutland square.....	At Columbus avenue (crosswalk).....	9	56	1907	Jan. 8, 1917.
St. James avenue.....	At Huntington avenue.....	123	600	1901	Oct. 23, 1911.
Salutation street.....	Hanover street to Commercial street.....	355	268	1905	Sept. 5, 1915.
South Margin street.....	Stanford street, across Norman street.....	192	390	1905	Aug. 12, 1915.
Spring street.....	Poplar street to Leverett street (cobble base).....	447	908	1895	
Stevens street.....	Lincoln place, towards Shawmut avenue.....	16	22	1897	
Stillman street.....	Endicott street, across North Margin street (cobble base).....	170	453	1892	
Stoddard street.....	Howard street to Court street (cobble base).....	135	150	1892	
Sun-court street.....	North street to Moon street (cobble base).....	151	218	1891	
Temple place.....	Washington street to 95 feet westerly.....	95	318	1906	Oct. 1, 1910.
‡ Temple place.....	95 feet west of Washington street to Tremont street.....	408	1,303	1900	Oct. 1, 1910.
Thacher street.....	Washington Street North to Endicott street.....	203	562	1892	
Tileston street.....	Hanover street, across Unity street.....	412	525	1905	Nov. 23, 1915.
Tileston street.....	Unity street to Salem street.....	163	124	1895	

## List of Streets Paved with Trinidad Asphalt.—Continued.

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Tremont street.....	Scollay square to 23 feet north of Beacon street.....	460	1,586	1900	Dec. 2, 1910.
Tremont street.....	21 feet south of Beacon street to Boylston street.....	2,317	8,784	1900	Dec. 2, 1910.
Tremont street.....	At Castle square.....	67	774	1899	
Trinity place.....	St. James avenue, across Stuart street.....	391	1,130	1899	Sept. 18, 1909.
Trinity place.....	Stuart street, across Stanhope street.....	262	349	1900	Dec. 1, 1910.
Trinity place.....	Stuart street, across Stanhope street, northerly side.....	.....	408	1907	June 18, 1917.
Union Park street.....	Washington street to Harrison avenue.....	475	1,063	1902	Aug. 2, 1912.
Unity street.....	Charter street to Tileston street.....	330	500	1897	
Warrenton street.....	Eliot street to 380 feet south of Eliot street.....	380	1,055	1891	
Warrenton street.....	380 feet south of Eliot street to Tremont street (cobble base).....	290	730	1884	
Warrenton street.....	Shawmut avenue to Washington street (cobble base).....	468	910	1891	
Water street.....	Congress street to Kilby street.....	256	711	1902	Sept. 16, 1912.
Water street.....	Liberty square to Broad street.....	252	682	1896	
Wellington street.....	At Columbus avenue (crosswalk).....	9	34	1907	Jan. 8, 1917.
West street.....	At Tremont street (crosswalk).....	22	64	1900	Dec. 2, 1910.
West Canton street.....	At Columbus avenue (crosswalk).....	9	34	1907	Jan. 8, 1917.
West Rutland square.....	At Columbus avenue (crosswalk).....	9	34	1907	Jan. 8, 1917.
West Springfield street.....	At Columbus avenue (crosswalk).....	9	34	1907	Jan. 8, 1917.
Wiget street.....	Salem street to North Margin street.....	289	240	1897	
Wiggin street.....	Tileston street to North Bennet street.....	108	120	1905	Nov. 23, 1915.

Winter street.....	At Tremont street (crosswalk).....	17	38	1900	Dec. 2, 1910.
Worcester street.....	At Columbus avenue (crosswalk).....	9	34	1907	Jan. 8, 1917.
Yarmouth street.....	At Columbus avenue (crosswalk).....	9	34	1907	Jan. 8, 1917.

*East Boston.*

Bennington street.....	Bridge over Boston & Albany Railroad.....	60	507	1906	July 15, 1916.
* Curtis street.....	Bridge over Boston & Albany Railroad.....	41	139	1906	Nov. 21, 1916.
* Maverick street.....	Bridge over Boston & Albany Railroad.....	38	59	1907	Jan. 23, 1917.

*Charlestown.*

Austin street.....	Seminary place to Lawrence street.....	156	451	1891	
Bunker Hill street.....	At Tufts street.....	.....	150	1897	
† Charlestown Bridge.....	Over Fitchburg Railroad.....	61	543	1899	
Corey street.....	124 feet north of Moulton street to Moulton street.....	124	276	1897	
Joiner street.....	Park street to Chelsea street.....	175	447	1906	Sept. 23, 1916.
Moulton street.....	Easterly side of Corey street to Vine street.....	81	243	1897	
Moulton street.....	Vine street to Bunker Hill street.....	130	390	1897	
Tufts street.....	Bunker Hill street, 141 feet northerly.....	141	415	1897	
Vine street.....	Bunker Hill street, across Moulton street.....	165	670	1897	

List of Streets Paved with Trinidad Asphalt.—*Concluded.*  
*South Boston.*

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Bolton street.....	C street to D street.....	517	747	1905	Oct. 12, 1915.
D street.....	West Fifth street to Gold street.....	140	513	1889	
Dorchester street.....	Easterly side of Vinton street, in front of Methodist Church.....	.....	190	1904	Oct. 18, 1914.
E street.....	West Third street to Bolton street.....	111	410	1892	
E street.....	West Seventh street to West Eighth street.....	325	542	1904	Oct. 24, 1914.
Rogers street.....	Dorchester street to Preble street (cobble base).....	365	496	1891	
West Sixth street.....	C street to D street.....	516	1,490	1905	Oct. 14, 1915.
West Third street.....	150 feet west of E street, across E street.....	185	769	1892	

*Neighboury.*

Boylston street.....	St. Cecilia street to Massachusetts avenue.....	226	790	1904	Aug. 26, 1914.
Cabot street.....	Tremont street to Ruggles street.....	1,236	3,571	1891	
Cabot street.....	Easterly side of Ruggles street to Vernon street.....	723	2,988	1892	
Cabot street.....	Easterly side of Vernon street to Linden Park street.....	484	1,390	1897	
Eustis street.....	138 feet east of Winslow street to 163 feet west of Albany street.....	130	241	1906	July 31, 1916.
Palmer street.....	121 feet east of Winslow street to 201 feet west of Eustis street.....	134	297	1906	July 11, 1916.
† Public Alley No. 404.....	Between Huntington avenue and St. Botolph street, from 66 feet south of Cumberland street to Public Alley No. 405.....	534	533	1899	Oct. 5, 1909.
† Public Alley No. 405.....	Rear of northeast side of Massachusetts avenue, from 62 feet west of St. Botolph street to 94 feet east of Huntington avenue.....	100	89	1899	Oct. 5, 1909.
Public Alley No. 428.....	Between Commonwealth avenue and Marlborough street, from 205 feet east of Hereford street to Hereford street.....	205	186	1901	Oct. 23, 1911.



Public Alley No. 429 .....	Between Commonwealth avenue and Marlborough street, from 55 feet west of Hereford street to 77 feet east of Massachusetts avenue.....	533	1901	Nov. 13, 1911.
† Public Alley No. 431.....	205 feet east of Hereford street to Hereford street.....	205	1899	Sept. 25, 1909.
Ruggles street.....	Shawmut avenue to Cabot street.....	1,055	1907	Aug. 23, 1917.
Roxbury street.....	Easterly side of Guild row to Washington street.....	170	1904	Aug. 12, 1914.
Vernon street.....	80 feet east of Cabot street, across Auburn street.....	693	1907	Nov. 30, 1917.
Washington street.....	22 feet north of Marvin street, across Zeigler street.....	210	1904	Aug. 12, 1914.

NOTE.—Trinidad asphalt marked thus: \* Guaranteed by E. R. Taylor Company; † Simpson Brothers; ‡ United States Paving Company. Other guarantees are by the Barber Asphalt Company. Unless otherwise marked all asphalt is on a cement concrete base.

### Trinidad Asphalt.

#### Summary.

DISTRICT.	UNDER GUARANTEE.		NOT UNDER GUARANTEE.		DISTRICT TOTALS.	
	Length. <i>Feet.</i>	Area. <i>Sq. Yds.</i>	Length. <i>Feet.</i>	Area. <i>Sq. Yds.</i>	Length. <i>Feet.</i>	Area. <i>Sq. Yds.</i>
City Proper.....	33,143	101,150	25,004	68,651	58,147	169,801
East Boston.....	139	705	.....	.....	139	705
Charlestown.....	175	447	858	3,138	1,033	3,585
South Boston.....	1,358	2,969	801	2,188	2,159	5,157
Roxbury.....	3,985	8,792	2,443	7,949	6,428	16,741
Totals.....	38,800	114,063	29,106	81,926	67,906	195,989

## LIST OF STREETS PAVED WITH SICILIAN ROCK ASPHALT, JANUARY 31, 1909.

*City Proper.*

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Acton street.....	Washington street to Bradford street.....	259	352	1896	
Arch street.....	Summer street to Franklin street.....	403	1,522	1901	Oct. 12, 1911.
Ash street.....	Oak street, across Nassau street (cobble base).....	220	391	1895	
Avery street.....	79 feet west of Haymarket place to Mason street.....	68	60	1897	
Barton street.....	Leverett street to Milton street.....	403	683	1895	
Beacon street.....	Arlington street to Dartmouth street.....	1,862	9,965	1901	June 14, 1911.
Boylston street.....	Easterly side of Arlington street to Berkeley street.....	681	2,508	1900	Nov. 28, 1910.
Bradford street.....	Waltham street to Shawmut avenue.....	600	1,270	1897	
Charter street.....	Hanover street, across Unity street.....	14	50	1896	
Clark street.....	Hanover street to North street.....	18	35	1896	
Cobb street.....	Washington street to Shawmut avenue.....	347	1,041	1897	
Decatur street.....	Washington street to Harrison avenue.....	370	781	1892	
Dwight street.....	Shawmut avenue to Tremont street.....	716	2,075	1893	
East Concord street.....	From Albany street 12 feet westerly.....	12	45	1897	
Essex place.....	Tufts street to Essex street.....	202	348	1901	Oct. 3, 1911.
Exeter place.....	Chauncy street to Harrison avenue.....	170	387	1897	
Fabin street.....	Newland street to Ivanhoe street.....	421	615	1895	
Fay street.....	Dover street to Harrison avenue (cobble base).....	318	560	1894	

Hamburg street.....	Mystic street to Harrison avenue.....	383	597	1896	
Hanover street.....	Tilston street, across Charter street.....	.....	323	1896	
Harrison avenue.....	Northampton street to Lenox street.....	427	1,090	1903	May 29, 1913.
Huntington avenue.....	Boston & Albany Railroad to Cumberland street.....	1,591	7,009	1896	
India street.....	Milk street to India street (formerly India square).....	565	2,135	1901	Nov. 9, 1911.
Kingston street.....	Beach street to Essex street.....	492	1,859	1899	Aug. 9, 1909.
Marlborough street.....	Arlington street to Clarendon street.....	1,251	5,004	1901	Aug. 8, 1911.
Mason street.....	West street to 213 feet south of West street.....	209	459	1901	Aug. 15, 1911.
Massachusetts avenue.....	Washington street to Harrison avenue, southerly roadway.....	688	2,030	1894	
Massachusetts avenue.....	Harrison avenue to Albany street, southerly roadway.....	636	1,908	1894	
Massachusetts avenue.....	27 feet south of Marlborough street to Beacon street.....	326	1,557	1901	Nov. 20, 1911.
Mayo street.....	Castle street to Cobb street.....	251	418	1897	
Meander street.....	East Dedham street to Malden street.....	307	437	1896	
Morton street.....	Salem street to Endicott street.....	325	253	1901	Dec. 16, 1911.
Mottie street.....	Washington street to Harrison avenue.....	332	516	1899	
Mystic street.....	Malden street to East Dedham street.....	204	226	1896	
Mystic street.....	East Dedham street to East Canton street.....	215	335	1896	
Mystic street.....	East Canton street to East Brookline street.....	216	337	1896	
Newland street.....	West Brookline street to West Newton street.....	336	486	1902	Oct. 15, 1912.
North Margin street.....	Thacher street, toward Endicott street.....	205	518	1897	
Norwich street.....	Mystic street to Meander street.....	221	339	1896	
Ohio street.....	Washington street to Shawmut avenue.....	343	277	1896	

## List of Streets Paved with Sicilian Rock Asphalt.—Continued.

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Otter street.....	Beacon street to 168 feet north of Beacon street.....	168	523	1901	Sept. 19, 1911.
Pemberton square.....	Front of Suffolk County Courthouse.....	323	1,365	1894	
Prince street.....	Hanover street to 293 feet west of Hanover street.....	293	654	1895	
* Prince street.....	293 feet west of Hanover street to Salem street.....	213	497	1900	Dec. 7, 1910.
Public Alley No. 12.....	Poplar street to Public Alley No. 14.....	77	68	1903	Sept. 22, 1913.
Public Alley No. 434.....	Between Commonwealth avenue and Newbury street, from Exeter street to Dartmouth street.....	555	483	1901	Oct. 29, 1911.
Public Alley No. 436.....	Between Commonwealth avenue and Newbury street, from Clarendon street to Berkeley street.....	580	544	1901	Oct. 19, 1911.
Public Alley No. 438.....	Between Newbury and Boylston streets, from Arlington street to Berkeley street.....	631	589	1901	Oct. 22, 1911.
Public Alley No. 440.....	Between Newbury and Boylston streets, from Dartmouth street to Exeter street.....	555	529	1901	Nov. 5, 1911.
Public Alley No. 441.....	Between Newbury and Boylston streets, from Exeter street to Fairfield street.....	622	553	1903	May 25, 1913.
Public Alley No. 442.....	Between Newbury and Boylston streets, from 59 feet west of Fairfield street to 110 feet east of Gloucester street.....	351	312	1901	Nov. 29, 1911.
Salem street.....	Endicott street, across Prince street.....	1,142	2,235	1901	Nov. 22, 1911.
Shawmut avenue.....	132 feet south of Castle street, across Cherry street.....	327	945	1898	
Stoughton street.....	At Albany street.....	12	45	1897	
Taylor street.....	Dwight street to Milford street.....	196	274	1896	
Tufts street.....	Kingston street to South street.....	485	985	1901	Sept. 13, 1911.
Tyler street.....	Oak street to Harvard street.....	530	1,413	1901	Nov. 1, 1911.
Whitmore street.....	Kneeland street to Harvard street.....	249	445	1895	

*East Boston.*

* Meridian street.....	Trenton street to Eutaw street.....	235	600	1900	Dec. 3, 1910.
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*Charlestown.*

* Lawrence street.....	East side of Lawrence avenue, across Miller street.....	385	1,014	1901	Nov. 18, 1911.
* Miller street.....	Main street to Lawrence street.....	203	383	1901	Nov. 18, 1911.
Warren street.....	Winthrop street, across Soley street.....	128	302	1901	Aug. 22, 1911.

*South Boston.*

Athens street.....	West Second street to A street (bituminous concrete).....	636	954	1895	
Athens street.....	B street to C street.....	520	751	1892	
* Athens street.....	C street to D street.....	519	750	1901	Aug. 16, 1911.
B street.....	At West Broadway (northerly side).....	11	39	1897	
B street.....	At West Broadway (southerly side).....	10	36	1897	
* Bowen street.....	C street to D street.....	519	750	1901	Oct. 30, 1911.
* Bowen street.....	D street to E street.....	523	755	1901	Oct. 30, 1911.
C street.....	At West Broadway (northerly side).....	11	40	1897	
D street.....	At West Broadway (southerly side).....	10	38	1897	
D street.....	At West Broadway (northerly side).....	11	41	1897	
East Broadway.....	Front of Lincoln School.....	180	1,000	1897	
* Gold street.....	B street to C street.....	524	747	1901	Oct. 10, 1911.
* Gold street.....	C street to D street.....	521	753	1901	Oct. 10, 1911.
K street.....	East Sixth street to East Eighth street.....	566	1,083	1896	

List of Streets Paved with Sicilian Rock Asphalt.— *Concluded.*

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
* Silver street.....	B street to C street.....	522	754	1901	Aug. 7, 1911.
* Silver street.....	C street to D street.....	520	751	1901	Aug. 7, 1911.
* Tudor street.....	C street to D street.....	515	744	1901	Oct. 12, 1911.
West Broadway.....	From 196 feet east of easterly line of Dorchester avenue to A street.....	352	1,278	1892	
West Broadway.....	New England Railroad Bridge, across Gardner place (4-foot gutter).....	.....	341	1897	
West Broadway.....	Gardner place to 150 feet easterly.....	150	648	1893	
West Broadway.....	150 feet east of Gardner place to E street (4-foot gutter).....	.....	1,109	1897	
West Broadway.....	150 feet west of F street to 267 feet east of F street.....	448	1,544	1897	
West Broadway.....	267 feet east of F street to 28 feet west of Dorchester street.....	410	1,818	1898	
<i>Roxbury.</i>					
Commonwealth avenue.....	Easterly side of Massachusetts avenue to westerly side of Massachusetts avenue.....	43	936	1901	Nov. 20, 1911.
Dudley street.....	Easterly side, between Dunmore street and Magazine street.....	.....	350	1902	Nov. 1, 1912.
Huntington avenue.....	Northerly side of Cumberland street to Massachusetts avenue.....	747	4,150	1896	
Huntington avenue.....	Massachusetts avenue to Gainsborough street.....	587	3,372	1896	
Ipswich street.....	Bridge over waterway.....	61	267	1898	
Massachusetts avenue.....	Huntington avenue to south side of Commonwealth avenue.....	2,336	10,869	1901	Nov. 20, 1911.
Massachusetts avenue.....	North side of Commonwealth avenue to 27 feet south of Marlborough street.....	253	1,195	1901	Nov. 20, 1911.
Public Alley No. 901.....	Hemenway to Hemenway street, between Hemenway street and the Fenway.....	573	550	1902	Nov. 6, 1912.

Brighton.

Brooks street.....	Bridge (over center roadway).....	130	1902	May 17, 1912.
Commonwealth avenue.....	Cottage Farm Bridge (over Boston & Albany Railroad) .....	140	1896	

NOTE.—Sicilian rock asphalt marked thus \* guaranteed by Jones & Meehan. Sicilian rock asphalt having guarantee and not otherwise designated is guaranteed by the Boston Asphalt Company. All Sicilian rock asphalt not otherwise marked is laid on a cement concrete base.

Sicilian Rock Asphalt.

Summary.

DISTRICT.	UNDER GUARANTEE.		NOT UNDER GUARANTEE.		DISTRICT TOTALS.	
	Length. Feet.	Area. Sq. Yds.	Length. Feet.	Area. Sq. Yds.	Length. Feet.	Area. Sq. Yds.
City Proper.....	12,988	35,917	10,928	27,343	23,916	63,260
East Boston.....	235	600	.....	.....	235	600
Charlestown.....	716	1,699	.....	.....	716	1,699
South Boston.....	4,163	6,004	3,315	10,720	7,478	16,724
Roxbury.....	3,205	13,900	1,395	7,789	4,600	21,689
Brighton.....	.....	130	140	1,556	140	1,686
Totals.....	21,307	58,250	15,778	47,408	37,085	105,658

LIST OF STREETS PAVED WITH SEYSSSEL ROCK ASPHALT, JANUARY 31, 1909.

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Genesee street.....	Harrison avenue to Albany street.....	505	1,122	1899	
Mason street.....	449 feet south of West street to Avery street.....	118	255	1899	
Milton street.....	Brighton street to Spring street.....	308	274	1899	Sept. 8, 1909.
Oswego street.....	Harrison avenue to Albany street.....	506	1,068	1899	
Paul street.....	Emerald street to Village street.....	133	236	1897	
Paul street.....	Village street to Tremont street.....	276	456	1897-99	
Pelham street.....	Washington street to Shawmut avenue.....	320	693	1897	
Public Alley No. 102.....	23 feet south of Marshall street to Creek square.....	182	184	1899	Nov. 11, 1909.
Public Alley No. 702.....	Worcester street to West Springfield street.....	222	222	1899	Nov. 9, 1909.
Public Alley No. 703.....	Newland street and Public Alley No. 702.....	116	103	1899	Nov. 9, 1909.
Waterford street.....	Washington street to Shawmut avenue.....	316	544	1897	

NOTE. — Seyssel rock asphalt guaranteed by Jones & Meehan. All Seyssel rock asphalt is laid on a cement concrete base.

LIST OF STREETS PAVED WITH BERMUDEZ ASPHALT, JANUARY 31, 1909.  
*City Proper.*

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Camden street.....	At Columbus avenue (crosswalk) east and west.....	18	68	1907	Jan. 4, 1917.
Columbus avenue.....	Northerly side of Camden street to 301 feet south of Camden street.....	335	1,340	1907	Jan. 4, 1917.



*Roxbury.*

Burke street.....	At Columbus avenue (crosswalk).....	26	66	1907	Jan. 4, 1917.
Columbus avenue.....	301 feet south of Camden street to 67 feet north of Station street.....	3,511	14,239	1907	Jan. 4, 1917.
Cunard street.....	At Columbus avenue (crosswalk).....	16	60	1907	Jan. 4, 1917.
Davenport street.....	At Columbus avenue (crosswalk).....	26	66	1907	Jan. 4, 1917.
Riverside street.....	At Columbus avenue (crosswalk).....	9	21	1907	Jan. 4, 1917.
Sarsfield street.....	At Columbus avenue (crosswalk).....	18	40	1907	Jan. 4, 1917.
Walpole street.....	At Columbus avenue (crosswalk) east and west.....	18	46	1907	Jan. 4, 1917.
Weston street.....	At Columbus avenue (crosswalk).....	9	20	1907	Jan. 4, 1917.

NOTE. — Bernutdez asphalt guaranteed by the Boston Asphalt Company.

## LIST OF STREETS PAVED WITH ACME ASPHALT, JANUARY 31, 1909.

*City Proper.*

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Corning street.....	Shawmut avenue to Washington street.....	338	734	1908	Nov. 25, 1918.

*East Boston.*

* Porter street.....	Bridge over Boston & Albany Railroad.....	37	128	1907	Oct. 19, 1917.
* Prescott street.....	Bridge over Boston & Albany Railroad.....	86	125	1907	Oct. 19, 1917.
* Saratoga street.....	Bridge over Boston & Albany Railroad.....	95	180	1907	Sept. 16, 1917.

NOTE. — Acme asphalt marked thus \* guaranteed by W. A. Murtfeldt Company, otherwise by the Warren Brothers Company.

LIST OF STREETS PAVED WITH AMERICAN ROCK ASPHALT, JANUARY 31, 1909.

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Beacon street (City Proper).....	Northerly side of Brimmer street, across Arlington street.....	358	1,486	1908	July 3, 1918.
K street (South Boston).....	East Fourth street, across East Sixth street.....	600	2,113	1906	Sept. 14, 1916.
Kilby street (City Proper).....	East side from Milk street, across Central street.....	.....	1,540	1908	Aug. 31, 1918.

NOTE.— American rock asphalt guaranteed by Jones & Meehan.

LIST OF STREETS PAVED WITH LIMMER ROCK ASPHALT.

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Mt. Vernon street (City Proper).....	Archway under State House.....	164	455	1897	
Summer street (East Boston).....	Bridge over Boston & Albany Railroad.....	38	187	1908	

NOTE.— Limmer rock asphalt guaranteed by W. A. Murtfeldt Company.

LIST OF STREETS PAVED WITH COAL TAR COMPOSITION.

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Ashburton place (City Proper).....	55 feet east of Bowdoin street to Bowdoin street.....	55	128	1908	
I street (South Boston).....	East Broadway to East Fourth street.....	272	1,027	1889	
Ivanhoe street (City Proper).....	West Dedham street to West Canton street.....	216	312	1906	
Malcolm street (City Proper).....	Mt. Vernon street to 54 feet south of Mt. Vernon street.....	54	46	1908	

## Summary of all Asphalts.

KIND.	UNDER GUARANTEE.		NOT UNDER GUARANTEE.		TOTALS.		
	Length.	Area.	Length.	Area.	Length.	Area.	Length.
	<i>Feet.</i>	<i>Sq. Yds.</i>	<i>Feet.</i>	<i>Sq. Yds.</i>	<i>Feet.</i>	<i>Sq. Yds.</i>	<i>Miles.</i>
Trinidad.....	38,800	114,063	29,106	81,926	67,906	195,989	12.86
Sicilian rock.....	21,307	58,250	15,778	47,408	37,085	105,658	7.02
Seyssel rock.....	828	783	2,174	4,374	3,002	5,157	0.57
Bermudez.....	3,986	15,966	.....	.....	3,986	15,966	0.76
Acme.....	506	1,167	.....	.....	506	1,167	0.10
American rock....	958	5,139	.....	.....	958	5,139	0.18
Limmer rock.....	38	187	164	455	202	642	0.04
Coal tar.....	.....	.....	597	1,513	597	1,513	0.11
Totals.....	66,423	195,555	47,819	135,676	114,242	331,231	21.64

## LIST OF STREETS PAVED WITH BITULITHIC, JANUARY 31, 1909.

*City Proper.*

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Albany street.....	Northerly side of Stoughion street, across East Concord street (laid on existing concrete base).....	309	1,854	1905	Dec. 2, 1915.
Albany street.....	225 feet north of Massachusetts avenue to Massachusetts avenue.....	225	1,350	1905	Nov. 3, 1915.
Allen street.....	Charles street to Chambers street.....	1,297	3,556	1905	Sept. 9, 1915.
Ashburton place.....	Somerset street to 55 feet east of Bowdoin street.....	285	682	1904	Aug. 17, 1914.
Belvidere street.....	West Newton street to 195 feet west of Falmouth street.....	317	1,116	1903	April 25, 1913.
Berkeley street.....	Boylston street to Commonwealth avenue.....	582	2,587	1903	May 22, 1913.
Berkeley street.....	Commonwealth avenue to Marlborough street.....	280	1,245	1903	May 22, 1913.
Berkeley street.....	Marlborough street to Beacon street.....	264	1,173	1903	May 22, 1913.
Berkeley street.....	Tremont street to Columbus avenue.....	1,195	4,663	1906	Dec. 14, 1916.
Bowdoin street.....	Ashburton place to Cambridge street.....	884	2,259	1902	Oct. 23, 1912.
Boylston street.....	Dartmouth street to 205 feet east of Hereford street.....	1,999	7,152	1904	Nov. 18, 1914.
Clarendon street.....	Boylston street to Commonwealth avenue.....	582	2,336	1905	Aug. 21, 1915.
Clarendon street.....	Commonwealth avenue to Beacon street.....	580	2,320	1905	Aug. 21, 1915.
Dartmouth street.....	Southerly side of Newbury street to Commonwealth avenue.....	326	2,536	1903	July 13, 1913.
Dartmouth street.....	Commonwealth avenue to Beacon street.....	579	4,503	1903	July 13, 1913.
Emerald street.....	Castle street to Dover street.....	912	2,639	1904	July 27, 1914.
Florence street.....	Washington street to Harrison avenue.....	352	704	1906	Sept. 8, 1916.
Garden Court street.....	North square to Fleet street.....	233	377	1906	Oct. 23, 1916.

Hancock street.....	Mt. Vernon street to Myrtle street.....	317	846	1902	July 17, 1912.
Hancock street.....	Myrtle street to Cambridge street.....	646	1,702	1902	Nov. 15, 1912.
Harrison avenue.....	North side of East Springfield street to Northampton street.....	508	1,174	1905	Nov. 24, 1915.
Huntington avenue.....	9 feet south of Dartmouth street to bridge over B. & A. R. R.....	697	3,947	1906	Sept. 15, 1916.
Mason street.....	213 feet south of West street to 449 feet south of West street.....	236	480	1907	June 1, 1917.
Massachusetts avenue.....	Southerly side of Beacon street to Harvard bridge.....	237	1,080	1902	Nov. 22, 1912.
Massachusetts avenue.....	Columbus avenue to Providence Division, N. Y., N. H. & H. R. R.....	469	2,248	1903	Aug. 11, 1913.
Massachusetts avenue.....	Columbus avenue to Tremont street (northerly roadway), laid on existing concrete base.....	.....	1,689	1907	June 13, 1917.
McLean street.....	Chambers street to Blossom street.....	518	1,345	1905	July 20, 1915.
Moon street.....	Lewis street to Fleet street.....	107	203	1906	Oct. 13, 1916.
North square.....	North street to Moon street.....	239	1,250	1906	Dec. 24, 1916.
Oneida street.....	Harrison avenue to Albany street.....	508	1,072	1903	Aug. 22, 1913.
Prince street.....	Garden Court street to Hanover street.....	134	223	1906	Oct. 23, 1916.
Tyler street.....	Beach street to Kneeland street.....	320	853	1905	Oct. 23, 1915.
Tyler street.....	Kneeland street to Harvard street.....	332	885	1905	Oct. 23, 1915.
Tyler street.....	Oak street to Curve street.....	441	1,187	1905	Oct. 23, 1915.
West Newton street.....	Columbus avenue to Huntington avenue.....	1,044	3,944	1903	July 3, 1913.
West Newton street.....	Huntington avenue across Belvidere street.....	262	990	1903	April 25, 1913.
West Newton street.....	Tremont street to Columbus avenue.....	790	3,196	1904	Aug. 13, 1914.

*East Boston.*

Maverick street.....	London street to Havre street.....	180	620	1903	June 2, 1913.
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**List of Streets Paved with Bitulithic.—Concluded.**  
*South Boston.*

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Quarantee Expires.
Bowen street.....	E street to F street.....	515	744	1903	May 22, 1913.
Dorchester street.....	Broadway to Eighth street (minus intersection at Fourth street, Fifth street and Eighth street).....	1,324	5,865	1905	Sept. 20, 1915.
E street.....	South side of West Fourth to West Broadway.....	333	1,221	1903	June 2, 1913.
G street.....	110 feet north of East Sixth street to 178 feet north of East Seventh street.	230	828	1905	July 3, 1915.
Silver street.....	A street to B street.....	500	750	1903	June 4, 1913.
Silver street.....	225 feet west of E street to E street.....	225	325	1903	June 2, 1913.
Thomas park.....	Around Telegraph hill.....	2,056	7,042	1905	July 3, 1915.
West Broadway.....	Intersection at Dorchester street.....	87	250	1905	Sept. 20, 1915.
West Fourth street.....	E street to 207 feet west of E street.....	207	759	1903	June 2, 1913.

*Roxbury.*

Albany street.....	Hampden street to Eustis street.....	1,613	4,900	1907	Aug. 3, 1917.
Belvidere street.....	Massachusetts avenue to 195 feet west of Falmouth street.....	1,021	2,949	1903	April 25, 1913.
Blue Hill avenue.....	Dewey street to north side of Savin street.....	598	1,528	1906	Nov. 16, 1916.
Blue Hill avenue.....	Brunswick street to northerly side of Devon street.....	199	509	1906	Dec. 7, 1916.
Boylston street.....	205 feet east of Hereford street to 8 feet east of Hereford street.....	197	677	1904	Nov. 18, 1914.
Boylston street.....	Massachusetts avenue to westerly line of Hemenway street.....	390	1,414	1905	Sept. 2, 1915.

Dacia street.....	290	888	1906	Oct. 2, 1916.
Dearborn street.....	56	220	1907	Aug. 3, 1917.
Gainsborough street.....	550	2,078	1903	July 17, 1913.
Massachusetts avenue.....	561	2,150	1903	Aug. 11, 1913.
Roxbury street.....	557	2,160	1904	Sept. 21, 1914.
St. Alphonsus street.....	524	1,514	1905	Sept. 9, 1915.
Smith street.....	585	1,090	1904	July 9, 1914.
Tremont street.....	587	1,854	1902	Dec. 11, 1912.
Woodcliff street.....	309	893	1906	Oct. 2, 1916.
Northerly side of Woodcliff street, across Dove street.....				
At Albany street.....				
Huntington avenue to Providence Division, N. Y., N. H. & H. R. R.....				
Providence Division, N. Y., N. H. & H. R. R., to Huntington avenue.....				
Shawmut avenue to Kent street.....				
Tremont street to northerly side of Smith street.....				
St. Alphonsus street to Phillips street.....				
St. Alphonsus street to Phillips street.....				
Dacia street to Blue Hill avenue.....				

NOTE. — Bitulithic is guaranteed by Warren Brothers Company.

### Summary of Bitulithic.

DISTRICT.	Length. <i>Feet.</i>	Area. <i>Square Yards.</i>
City Proper.....	18,976	71,336
East Boston.....	180	620
South Boston.....	5,477	17,784
Roxbury.....	8,037	25,374
Totals.....	32,670	115,114

LIST OF STREETS PAVED WITH WOOD BLOCKS, JANUARY 31, 1909.  
*City Proper.*

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Atlantic avenue.....	811 feet south of Kneeland street to 1,263 feet south of Kneeland street (bridge).....	452	1,996	1906	
Avery street.....	At Washington street (crossing).....	12	8	1906	Nov. 23, 1916.
Avon street.....	At Washington street (crossing).....	9	20	1906	Nov. 23, 1916.
Beacon street.....	Massachusetts avenue to Raleigh street.....	1,527	8,145	1901	Oct. 7, 1911.
Boylston street.....	Boylston place across Charles street.....	483	1,690	1901	
Charles street.....	At Boylston street.....	30	243	1901	
Church street.....	Boylston street to Providence street.....	153	542	1908	Nov. 9, 1918.
† Court street.....	At Washington street (crossing).....	9	27	1908	Nov. 21, 1918.
† Court avenue.....	At Washington street (crossing).....	7	8	1908	Nov. 21, 1918.
† Cornhill court.....	At Washington street (crossing).....	9	8	1908	Nov. 21, 1918.
Eliot street.....	East side Pleasant street to Columbus avenue.....	163	800	1907	Nov. 30, 1917.
Harvard Bridge.....	Southerly abutment to center of draw (plank base).....	978	5,542	1901	Dec. 1, 1911.
Hayward place.....	Washington street to 9 feet easterly (crossing).....	9	20	1906	Nov. 23, 1916.
Mason street.....	At West street (crossing).....	6	14	1908	Sept. 19, 1918.
Newbury street.....	Fairfield street to 205 feet east of Hereford street.....	750	3,000	1901	Nov. 2, 1911.



Park square.....	Boylston street to south side of Eliot street.....	482	4,100	1907	Nov. 30, 1917.
Pleasant street.....	Eliot street to Park square.....	93	425	1907	Nov. 30, 1917.
Providence street.....	134 feet east of Church street to Park square.....	141	725	1907	Nov. 30, 1917.
Providence street.....	134 feet east of Church street, across Church street.....	165	512	1908	Nov. 10, 1918.
* Public Alley No. 442.....	Between Newbury street and Boylston street, from Gloucester street to 110 feet east of Gloucester street.....	110	98	1901	Nov. 29, 1911.
† State street.....	Washington street to Devonshire street.....	115	530	1908	Dec. 4, 1918.
Summer street.....	Washington street to Hawley street.....	234	990	1908	Oct. 17, 1918.
Tremont street.....	23 feet north of Beacon street to 21 feet south of Beacon street.....	65	231	1900	Dec. 2, 1910.
Tremont street.....	18 feet north of Park street to southerly street line of Temple place (on the westerly side).....	.....	1,064	1900	Dec. 2, 1910.
Washington street.....	Milk street to Beach street.....	2,279	8,660	1906	Nov. 23, 1916.
† Washington street.....	Cornhill to 78 feet south of Court avenue.....	509	1,475	1908	Nov. 21, 1918.
Washington street.....	South side Milk street to 78 feet south of Court avenue.....	538	1,860	1907	June 26, 1917.
Water street.....	Devonshire street to Congress street.....	213	956	1907	July 12, 1917.
West street.....	Washington street to Tremont.....	463	1,126	1908	Sept. 19, 1918.
<i>Dorchester.</i>					
Washington street.....	Moultrie street to Centre street.....	182	850	1907	Aug. 15, 1917.

**List of Streets Paved with Wood Blocks.—Concluded.**  
*Roxbury.*

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
Massachusetts avenue.....	Bridge over Boston & Albany Railroad.....	75	500	1908	
Newbury street.....	205 feet east of Hereford street.....	205	820	1901	Nov. 12, 1911.
† Newbury street.....	Easterly side of Hereford street † Massachusetts avenue.....	705	2,820	1903	Oct. 7, 1913.

NOTE.—Wooden block pavement not otherwise marked is guaranteed by the United States Wood Preserving Company. Marked thus \* is guaranteed by Boston Asphalt Company; thus † is guaranteed by James Doherty; thus ‡ is guaranteed by Patrick McGovern. All wooden block pavements are on cement concrete base unless otherwise marked.

**Summary of Wood Block.**

District.	Length. Feet.	Area. Square Yards.
City Proper.....	9,954	44,815
Roxbury.....	985	4,140
Dorchester.....	182	850
Totals.....	11,121	49,805

## LIST OF STREETS WITH CEMENT PAVEMENT, JANUARY 31, 1909.

NAME.	Location.	Length in Feet.	Area.	Year Laid.	Guarantee Expires.
* Main street (Charlestown).....	Bridge over Boston & Maine Railroad to Somerville line.....	139	672	1906	Dec. 8, 1911.
* Rochester street (City Proper).....	Harrison avenue to Albany street. ....	508	1,129	1907	Nov. 23, 1912.
† Zeigler street (Roxbury).....	Washington street to Warren street.....	315	946	1908	Nov. 18, 1913.

Cement pavement marked thus \* guaranteed by Simpson Brothers Corporation; thus † guaranteed by R. S. Blome Company.

## Summary of all Smooth Pavements.

KIND.	Length. Feet.	Length. Miles.	Area. Square Yards.
Asphalt.....	114,242	21.64	331,231
Bituthic.....	32,670	6.19	115,114
Wood block.....	11,121	2.10	49,805
Cement.....	962	0.18	2,747
Totals.....	158,995	30.11	498,897

## PROPERTY IN CHARGE OF THE PAVING DIVISION.

*South Boston.*

*Columbia road*, corner H street, stable, carriage house, shed, tool house and office, built by the city on land containing 12,017 square feet, rented from William H. Hart.

*Columbia road*, corner of Hamlin street, lot of land used for storage purposes, containing 6,710 square feet, rented from Charles P. Mooney, agent.

*East Boston.*

*Chelsea street*, Nos. 492 and 494, wharf property, containing 118,584 square feet (L 3,117), purchased in 1897 from Francis S. Lally. This property is at present not in use.

*East Eagle street*, corner Glendon street, sheds, stable and office building, erected by the city on wharf property containing 326,700 square feet, leased in 1900 from Blodgett & Whidden for a term of ten years. This property is used jointly with the Sewer, Sanitary and Street Cleaning and Watering Divisions.

*Charlestown.*

*Medford street*, foot of Elm street, wharf property, containing 44,194 square feet (Sur. Prog. 968), owned by the city. Upon this lot are a shed, stable and office building.

*Brighton.*

*Union street*, opposite Shepard street, lot of land containing 37,000 square feet, owned by the city. This lot is at present not in use.

*Chestnut Hill avenue*, ledge lot containing 569,776 square feet (L 1,630), purchased in 1882 by the city. Upon this lot are stone crusher, stable, shed and office building.

*West Roxbury.*

*Child street*, lot of land containing 43,024 square feet, owned by the city. Upon this lot are sheds, stable and office building.

*Mt. Vernon street*, near Pleasant street, lot of land containing 16,275 square feet, belonging to the Schoolhouse Commission. Upon this lot is a stable and office building.

*Morton street*, near Canterbury street, lot of land containing 14,484 square feet, owned by the city and used for storage purposes.

*Rosemary street*, lot of land used for storage purposes, containing 3,780 square feet, rented from Edward Cook.

*Dorchester.*

*Hancock street*, opposite Bowdoin street, lot of land known as the almshouse lot, containing 104,132 square feet, which belonged to the town of Dorchester at the time of annexation. Upon this land are two stables, office, shed and tool house.

*Downer avenue*, lot of land containing 35,300 square feet, was purchased in 1871 to protect the almshouse lot.

*Codman street*, ledge lot containing 299,000 square feet, was purchased in 1870. Upon this lot is a shed containing steam engine and stone crusher, also a stable and tool house — 111,423 square feet additional bought in 1907 by the city.

*Brush Hill road*, Milton, lot of land containing 64,523 square feet, leased May 13, 1843, by the town of Dorchester for a term of 999 years.

Lot of land adjoining above, containing 30,000 square feet, owned by the City of Boston. These lots are not now in use.

*Magnolia street*, near Bird street, lot of land containing 81,068 square feet, was purchased by the town of Dorchester in 1867. This lot is not now in use.

*Roxbury.*

*Highland street*, lot of land containing about 72,000 square feet, owned by the city. Upon this lot is a large brick stable erected in 1873-74 and used by the Sanitary and Paving Divisions; also a brick building used as a blacksmith shop and a shed for storage purposes.

*Washington street*, corner Dimock street, lot containing 134,671 square feet, owned by the city. Upon this lot are buildings containing steam engine, stone crusher and scales.

*South End.*

*Albany street*, opposite Sharon street, wharf lot, containing 89,224 square feet. Upon this lot are stables, office, blacksmith and carpenter shops. Wharf lot adjoining above, containing 39,511 square feet, used for storage purposes. Both these wharves are owned by the city.

*Massachusetts avenue*, near Magazine street, lot of land containing 317,322 square feet, rented from the New York, New Haven & Hartford Railroad Company and used for storage purposes.

*Back Bay.*

*Hereford street*, near Boylston street, lot of land containing 28,020 square feet, owned by the city. Upon this lot are a stable, shed and office building.

*North End.*

*Commercial street*, No. 521, wharf lot, containing 22,555 square feet, owned by the city. Upon this lot are a stable, shed and office building.

*Atlantic avenue*, opposite Oliver street, wharf lot, containing 21,054 square feet, placed in charge of the Paving Division May 18, 1874. This property is now used by the Sanitary Division.

*Atlantic avenue*, opposite Oliver street, wharf property, containing 36,460 square feet, leased from J. H. Hecht on February 19, 1898, for ten years. This lease is held by the Sanitary Division, to which the Paving Division pays for storage purposes the sum of \$5,200 per year.

*Revere street*, wharf lot, containing 20,013 square feet, leased from J. J. Costello on July 20, 1899, for a term of ten years, for storage purposes. Portion of this lot is used by the Sewer Division.

LIST OF CONTRACTS FROM FEBRUARY 1, 1908, TO JANUARY 1, 1909, MADE BY THE STREET DEPARTMENT.  
Paving with Wood Blocks.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
<sup>1</sup> Congress street, between State and Water streets.....	James Doherty.....	Sept. 15, 1908	Not started.	(A) 1,435 square yards @ \$2 70.. \$3,861 00 (B) 240 cubic yards @ 4 50.. 1,080 00 (C) 10 square yards @ 0 55.. 8 50 (D) 1,460 square yards @ 0 29.. 423 40 (E) 140 linear feet @ 0 11.. 13 40 (F) 130 square yards @ 0 30.. 39 00 (G) 5 square yards @ 0 25.. 1 25 (H) 24 square yards @ 0 80.. 19 20	
Washington street, from Cornhill to about 78 feet south of Court avenue.....	James Doherty.....	Sept. 15, 1908	Completed [Dec. 9, 1908.]	(A) 1,280 square yards @ \$2 66.. \$3,404 80 (B) 1,280 square yards @ 0 75.. 960 00 (D) 1,280 square yards @ 0 29.. 371 20	\$5,447 75 Nothing.
					\$4,736 00 <sup>2</sup> \$6,823 15

<sup>1</sup> Advertised and awarded to lowest bidder.

<sup>2</sup> Contract extended to include State street, north and south of Old State House.

EXPLANATION OF LETTERS.

- (A) Furnishing and laying wood block paving and guaranteeing the same for a period of ten (10) years after completion.  
(B) Concrete base for wood block paving and crosswalks and brows.  
(C) Granite block paving with pitch joints.  
(D) Preparing site.  
(E) Excavating and setting edgestones.  
(F) Excavating and laying brick sidewalks.  
(G) Granite block paving with gravel joints.  
(H) Flagging crosswalks with pitch joints.

Paving with Asphalt.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
* 1 Beacon street, between Brimmer and Arlington streets....	Jones & Meehan.....	May 22, 1908	Completed July 3, 1908.	(A) 1,470 square yards @ \$1 90.. \$2,793 00 (C) 5 cubic yards @ 6 00.. 30 00 (D) 20 cubic yards @ 8 00.. 160 00 (E) 89 linear feet @ 0 25.. 22 25 (F) 30 square yards @ 1 00.. 30 00 (G) 15 square yards @ 0 65.. 9 75	\$3,045 00.
* 1 Kilby street, between Central and Milk streets.....	Jones & Meehan.....	May 22, 1908	Completed Aug. 31, 1908.	(A) 1,490 square yards @ \$1 90.. \$2,831 00 (B) 28 square yards @ 1 00.. 28 00 (C) 5 cubic yards @ 6 00.. 30 00 (D) 52 cubic yards @ 8 00.. 416 00	\$3,305 00
* 1 Batterymarch street, from Milk street, 215 feet south and east.....	Jones & Meehan.....	Nov. 4, 1908.	Not started.	(AA) 680 square yards @ \$2 00.. \$1,360 00 (B) 52 square yards @ 1 00.. 52 00 (E) 50 linear feet @ 0 25.. 12 50 (F) 25 square yards @ 0 30.. 7 50 (G) 720 square yards @ 0 50.. 360 00 (H) 38 square yards @ 0 60.. 22 80	\$1,814 80

Nothing.



† 1 Coming street, between Washington street and Shawmut avenue.....

Warren Brothers Company.

Oct. 14, 1908

Completed  
Nov. 26, 1908.

(B) 40 square yards @ \$0 75.. \$30 00  
 (C) 10 cubic yards @ 6 00.. 60 00  
 (D) 2 cubic yards @ 7 50.. 15 00  
 (E) 675 linear feet @ 0 20.. 135 00  
 (F) 380 square yards @ 0 25.. 95 00  
 (G) 30 square yards @ 0 50.. 15 00  
 (H) 5 square yards @ 2 50.. 12 50  
 (I) 870 square yards @ 1 84.. 1,600 80

\$1,953 30

1 Advertised and awarded to lowest bidder.

\* American rock asphalt.

† Acme asphalt.

EXPLANATION OF LETTERS.

- (AA) Furnishing and laying a 2-inch wearing surface on existing granite blocks and guaranteeing same for a period of five (5) years after completion.
- (A) Furnishing and laying a 2-inch wearing surface and 1-inch binder on existing concrete base and guaranteeing same for a period of ten (10) years after completion.
- (B) Laying granite block paving and crosswalk flagging with pitch joints, including paving blocks barred up.
- (C) Furnishing and laying extra cement concrete base.
- (D) Furnishing and laying extra bituminous binder.
- (E) Excavating and setting edgestones.
- (F) Excavating and laying brick sidewalks.
- (G) Laying granite block paving with gravel joints.
- (H) Laying flagging crosswalks with gravel joints.
- (I) Furnishing and laying a 1½-inch wearing surface and a 1½-inch binder on existing concrete base and guaranteeing same for a period of ten (10) years after completion.

Repairing Asphalt Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
1 Repairing asphalt pavement.....	Warren Brothers Company.	Feb. 14, 1908	Completed.	\$15,000; wearing surface and bituminous binder, \$1.73 per square yard; extra bituminous binder, \$7.50 per cubic yard; concrete base, \$0.75 per square yard.....	\$15,793 81

1 These repairs are guaranteed for a period of three (3) years after completion.

## Street Construction under Chapter 323 of Acts of 1891, or Special Acts or Amendments Thereto.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
<sup>1</sup> Harlem street, between Glenway and Greenwood streets.....	James Doherty.....	June 22, 1908	Completed Sept. 19, 1908.....	\$1,788 60	\$1,799 77
<sup>1</sup> Larkin street, between Hampden and Adams streets.....	Wm. J. Rafferty Company..	June 22, 1908	Completed Aug. 15, 1908.....	1,332 70	1,396 71
<sup>1</sup> Bernard street, between Talbot avenue and New England Railroad.....	William J. Barry.....	June 23, 1908	Completed Sept. 9, 1908.....	5,868 65	5,541 88
<sup>1</sup> Corona street, between Bowdoin street and Geneva avenue.....	William J. Barry.....	June 23, 1908	Completed Oct. 14, 1908.....	5,095 15	4,848 31
<sup>1</sup> Dakota street, between Geneva avenue and Greenbrier street.....	William J. Barry.....	June 23, 1908	Completed Oct. 15, 1908.....	8,064 35	7,466 91
<sup>1</sup> Cotton street, between Walter and Fairview streets.....	Peter F. Connolly.....	July 3, 1908	Completed Oct. 22, 1908.....	4,355 10	4,081 47
<sup>1</sup> Everreen street, grading from South Huntington avenue about 443 feet easterly.....	Mark H. Lynch.....	Dec. 9, 1908	Unfinished.....	1,200 00	451 35
<sup>2</sup> Avenue Louis Pasteur.....	William J. Barry.....	Oct. 12, 1908	Unfinished.....	750 00	Nothing.
<sup>1</sup> Old Colony avenue and part of D and West Ninth streets, between Dorchester avenue and Dorchester street.....	Fred S. & A. D. Gore Corporation.....	Oct. 1, 1908	Unfinished.....	21,109 20	3,756 79

<sup>1</sup> Advertised and awarded to lowest bidder.<sup>2</sup> Without competition.

\* Artificial Stone Sidewalks.

CONTRACTOR.	Dated.	Price per Square Foot.	Amount Expended in 1908.
Jeremiah J. Sullivan.....	May 1, 1908.....	\$0 06	\$655 86
Adam Pond Company, Incorporated.....	Sept. 19, 1908.....	06	324 84
Thomas J. Hind.....	May 11, 1908.....	06	1,637 10
W. A. Murfeldt Company.....	May 11, 1908.....	06	1,947 51
Simpson Brothers Corporation.....	May 12, 1908.....	06	940 22
Warren Brothers Company.....	May 4, 1908.....	06	1,547 16
Robert Eagar, Jr.....	July 10, 1908.....	06	446 16

\* These walks are guaranteed by a surety company bond for ten (10) years from date of completion, and were laid on various public streets where the contractor had agreements with the abutters. The price, 6 cents per square foot, is equivalent to the expense to the city for one-half the cost of a brick sidewalk.

Repairing Artificial Stone Sidewalks.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
Repairing artificial stone sidewalks.....	Jeremiah J. Sullivan.....	June 8, 1908	.....	Less than 25 square feet, \$10; 25 to 100 square feet, 30c. per square foot; 100 to 500 square feet, 25c. per square foot; 500 square feet and over, 22c. per square foot.	\$655 86

† Invitation bids and awarded to lowest bidder.

## Furnishing and Laying Artificial Stone Sidewalks.†

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
*1 Samoset street, between Centre street and Welles avenue.....	Jeremiah J. Sullivan.....	May 26, 1908	Completed June 24, 1908.	7,650 square feet @ \$0.175.....	\$1,338 75..
*1 Park View street, between Hutchings and Seaver streets.....	Robert Eagar, Jr.....	May 26, 1908	Completed July 7, 1908.	3,470 square feet @ 0.175.....	833 53
2 Bay State road at No. 191, repairing sidewalk.....	Simpson Bros. Corporation.....	May 1, 1908	Completed.	.....	77 00..
†1 Gainsborough street, between St. Stephen and Hemenway streets.....	Robert Eagar, Jr.....	June 29, 1908	Completed Aug. 10, 1908.	5,370 square feet @ 0.135.....	724 95..
*1 Norton street, between Bowdoin and Speedwell streets.....	W. A. Murrfeldt Company.....	July 15, 1908	Completed Aug. 31, 1908.	6,020 square feet @ 0.1665.....	1,002 33..
*1 South Huntington avenue, between Huntington avenue and Heath street,	Simpson Bros. Corporation.....	July 17, 1908	Completed Aug. 3, 1908.	1,735 square feet @ 0.1675.....	290 61..
*1 Cotton street, between Walter and Fairview sts.	Thomas A. Nolan.....	July 23, 1908	Completed Sept. 24, 1908.	6,460 square feet @ 0.16.....	1,033 60..
*1 Corona street, between Bowdoin street and Geneva avenue.....	Jeremiah J. Sullivan.....	Sept. 3, 1908	Unfinished.	10,600 square feet @ 0.149.....	1,579 40..
*1 Dakota street, between Greenbrier street and Geneva avenue.....	Jeremiah J. Sullivan.....	Sept. 16, 1908	Completed Nov. 28, 1908.	17,900 square feet @ 0.15.....	2,685 00..
2 Homestead street at No. 67, repairing sidewalk....	W. A. Murrfeldt Company.....	Nov. 3, 1908	Completed.	.....	75 00..
†1 Summer street, south side, between Melcher and A streets.....	Warren Bros. Company.....	Nov. 16, 1908	Unfinished.	3,330 square feet @ 0.175.....	582 75..

\* Laid in connection with the construction of the street, under chapter 323 of the Acts of 1891 and amendments.

† For additional items in this contract see Paving and Regulating.

‡ These walks are guaranteed by a surety company bond for ten (10) years from date of completion.

! Advertised and awarded to lowest bidder. 2 Without competition.

## Paving and Regulating.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost as per Estimated Quantities, not including Materials Furnished by the City.	Amount Expended in 1908.
<sup>†</sup> Gainsborough street, between Stephen and Hemenway streets . . .	Robert Eagar, Jr. . . . .	June 29, 1908	Completed Aug. 10, 1908. . .	\$113 32	\$118 81
<sup>1</sup> Summer street, from bridge over A street to bridge over N. Y., N. H. & H. R. R. . . . .	James P. Collins . . . . .	July 14, 1908	Completed Aug. 14, 1908. . .	812 80	810 40
<sup>1</sup> Eliot street, between Tremont street and Pleasant street . . . . .	John I. Fitzgerald . . . . .	Aug. 6, 1908	Completed Oct. 17, 1908. . .	8,908 05	6,972 95
<sup>1</sup> Kneeland street, between Washington street and Harrison avenue . . . . .	John Donley Company . . . . .	Aug. 6, 1908	Completed Oct. 14, 1908. . .	5,009 65	3,864 00
<sup>1</sup> A street, from Congress street to about 175 feet south of Binford street. . . . .	Fred S. & A. D. Gore Corp. . . . .	Aug. 6, 1908	Completed Oct. 9, 1908. . .	22,755 30	23,138 57
<sup>1</sup> Scollay square and Court street, between Cornhill and Sudbury street. . . . .	John I. Fitzgerald . . . . .	Oct. 13, 1908	Completed Dec. 19, 1908. . .	11,171 70	9,631 43
<sup>1</sup> Bromfield street, between Tremont and Washington streets . . . . .	John I. Fitzgerald . . . . .	Oct. 14, 1908	Completed Nov. 9, 1908. . .	4,321 35	4,333 36
<sup>2</sup> Esmond street, between Blue Hill avenue and Bradshaw street . . . . .	Daniel E. Lynch . . . . .	Oct. 20, 1908	Completed Dec. 17, 1908. . .	528 50	*395 25
<sup>2</sup> Broad street, between Custom House street and India square . . . . .	Daniel E. Lynch . . . . .	Nov. 3, 1908	Completed Dec. 7, 1908. . .	605 00	* Nothing.
<sup>1</sup> Chelsea street, from 40 feet south of Scott's court to Chelsea Bridge South. . .	Cornelius J. Duggan . . . . .	Nov. 9, 1908	Completed Dec. 4, 1908. . .	748 40	700 08
<sup>†</sup> Summer street, south side, between Melcher and A streets. . . . .	Warren Bros. Corporation . . . . .	Nov. 16, 1908	Unfinished . . . . .	144 25	151 20
<sup>2</sup> Zeigler street, between Washington and Warren streets . . . . .	Rudolph S. Blome Company . . . . .	Oct. 12, 1908	Completed Nov. 18, 1908 . . .	2,469 75	2,538 82

<sup>1</sup> Advertised and awarded to lowest bidder.

\* Final payment not made.

<sup>2</sup> Without competition.<sup>†</sup> For additional items in this contract see Furnishing and Laying Artificial Stone Sidewalks.

Sale of City Crushers.

CONTRACT.	Awarded to	Dated.	Amount to be Paid to the City.
1 Exchange of crushed stone for all property owned by city at ledge lot, corner Grove and Centre streets, West Roxbury.....	Thomas F. Welch.....	June 2, 1908	*1,000 tons of crushed stone delivered in West Roxbury District.
1 Rosseter street crusher.....	P. F. Donovan.....	June 2, 1908	*\$1,550 00
1 Day street crusher.....	Frederick Bleiler.....	June 2, 1908	*2,000 00
1 Centre street crusher.....	Thomas F. Minton.....	June 2, 1908	*1,500 00
1 Columbia road crusher.....	J. W. Mason.....	June 2, 1908	*3,815 00

\* Paid to the City of Boston.

1 Advertisèd and awarded to highest bidder.

Miscellaneous Agreements.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
2 Six (6) gum-vending machines at ferry head-houses.....	Gum and Sweetmeat Co.....	Feb. 6, 1908	Completed.	*\$250.....	*\$250 00
2 Four (4) weighing machines at ferry head-houses.....	Nat. Automatic Machine Co.	Feb. 8, 1908	Completed.	*\$250.....	*250 00
1 Kenney ledge lot, furnishing filling,	Patrick F. Donovan.....	Feb. 14, 1908	Completed Aug. 29, 1908.	\$1,947.....	1,536 81
2 Repairing ferryboat "General Sumner".....	William McKie.....	April 21, 1908	Completed.	\$525.....	525 00
2 Reubing boiler, road roller, Child street yard.....	Daniel Russell Boiler Works, Inc.....	April 21, 1908	Completed.	\$80.....	80 00

2 Repairing double tipcart, East Boston yard.....	Healy Wagon Company.....	April 29, 1908	Completed.	\$49.50 .....	49 50
1 Teaming edgestone and flagging from the South End yard.....	S. & R. J. Lombard.....	May 1, 1908	Completed.	\$0.07 per linear foot .....	1,125 91
1 Removing abutments and wing walls, D Street Bridge.....	William L. Miller.....	May 20, 1908	Completed.	*\$51 .....	*51 00
2 Blagden street, tarvia treatment..	Barrett Manufacturing Co. . .	June 19, 1908	Completed.	\$105 and crushed stone required at \$1.55 per ton .....	105 00
2 Exeter street, between Newbury street and Commonwealth avenue, tarvia treatment.....	Barrett Manufacturing Co. . .	June 19, 1908	Completed.	\$63 for 900 square yards or under, and 14 tons crushed stone at \$1.55 per ton. ....	Nothing.
2 Exeter street, between Boylston street and Huntington avenue, tarvia treatment.....	Barrett Manufacturing Co. . .	June 19, 1908	Completed.	\$72 .....	\$72 00
2 Blue Hill ave., east side, from Franklin Field to Mattapan, tarvia treatment.....	Barrett Manufacturing Co. . .	June 18, 1908	Completed.	At \$0.04 per square yard.....	1,186 52
2 Brewer street, relaying tar concrete sidewalks at No. 4.....	Simpson Bros. Corporation..	June 20, 1908	Completed.	\$35.....	35 00
2 Hyde square, relaying tar concrete around grass plot.....	Simpson Bros. Corporation..	June 20, 1908	Completed.	\$190.....	190 00
1 Furnishing single and double teams and extra men in Paving, Sanitary, Sewer and Street Cleaning Divisions in District No. 7, Roxbury.....	Mrs. Mary Doyle.....	June 19, 1908	Completed.	Single team, \$3.15, double team, \$4.48, extra men, \$2.....	†1,988 62
2 Waldeck street, between Geneva avenue and Park street, relaying tar concrete sidewalk.....	Simpson Bros. Corporation..	July 20, 1908	Completed.	\$478.....	847 00
1 Furnishing single and double teams and extra men in Paving, Sanitary, Sewer and Street Cleaning Divisions in District No. 10, North and West Ends..	Bernard E. Grant.....	July 22, 1908	Completed.	Single team, \$3, double team, \$4.85, extra men, \$2.....	†\$1,522 63
1 Furnishing single and double teams and extra men in Paving, Sanitary, Sewer and Street Cleaning Divisions in District No. 9, Back Bay.....	John A. Janse.....	July 22, 1908	Completed.	Single team, \$3, double team, \$4.90, extra men, \$2.....	†3,732 50

1. Advertised and awarded to lowest bidder.

2 Without competition.

\* Paid to the city.

† Paving.

## Miscellaneous Agreements.—Concluded.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
1 Furnishing single and double teams and extra men in Paving, Sanitary, Sewer and Street Cleaning Divisions in District No. 5, West Roxbury.....	James E. Noble.....	July 22, 1908	Completed.	Single team, \$3.50, double team, \$5.50, extra men, \$2.25.....	*4,042 25
1 Building retaining wall in Terrace street, Roxbury.....	James Doherty.....	July 24, 1908	Completed Aug. 10, 1908.	\$396.50.....	448 10
1 Furnishing single and double teams and extra men in Paving, Sanitary, Street Cleaning and Sewer Divisions in District No. 1, South Boston.....	David D. McDermott.....	July 28, 1908	Completed.	Single team, \$3.20, double team, \$5.35, extra men, \$2.15.....	*936 48
2 Repairing stone crushing screen at Paving Division yard, Brighton.	Daniel Russell Boiler Works, Inc.....	July 25, 1908	Completed.	\$95.....	95 00
2 Saratoga street, between Boston, Revere Beach & Lynn Railroad and the Winthrop line. Treating with "Rotar".....	American Tar Company.....	July 27, 1908	Completed.	\$0.049 per square yard.....	581 88
1 Furnishing double and single teams and extra men in Paving, Sanitary, Sewer and Street Cleaning Divisions in District No. 8, South End.....	John Collins.....	Aug. 12, 1908	Completed.	Single team, \$3.15, double team, \$4.50, extra men, \$2.....	*3,086 10
1 Furnishing single and double teams and extra men in Paving, Sanitary, Sewer and Street Cleaning Divisions in Districts Nos. 2 and 3, East Boston and Charlestown.....	J. P. O'Riorden.....	July 28, 1908	Completed.	Single team, \$3.25, double team, \$5.50, extra men \$2.25.....	*1,414 12
1 Furnishing single and double teams and extra men in Paving, Sanitary, Sewer and Street Cleaning Divisions in Districts Nos. 6 and 12, Dorchester.....	John T. Keogh & Bros.....	July 30, 1908	Completed.	Single team, \$3.25, double team, \$5, extra men, \$2 per day.....	*3,515 88



<sup>1</sup> Furnishing single and double teams and extra men in the Paving, Sanitary, Sewer and Street Cleaning Divisions in District No. 4, Brighton.....	Joseph McGreevey.....	Aug. 4, 1908	Completed.	Single team, \$3, double team, \$4.90, extra men, \$2 per day.....	*4,181 96
<sup>2</sup> Installation and service of one extra telephone bell at East Eagle street yard.....	New Eng. Tel. & Tel. Co. ....	Aug. 25, 1908	Completed.	\$1.50 per year.....	1 50
<sup>2</sup> Insuring five automobiles against liability for personal injury.....	The General Accident Fire and Life Assurance Corporation, Ltd.....	Sept. 11, 1908	Completed.	\$162 per year.....	162 00
<sup>2</sup> Insuring Reo automobile against fire and damage.....	Federal Insurance Company.	Sept. 11, 1908	Completed.	\$25 per year.....	25 00
<sup>2</sup> Insuring Stevens, Duryea automobile against fire and damage...	Federal Insurance Company.	Sept. 11, 1908	Completed.	\$37.50 per year.....	37 50
<sup>2</sup> Furnishing stone at the Dimock street crusher.....	Patrick F. Donovan .....	Oct. 9, 1908	Completed.	\$1,500.....	1,949 28
<sup>2</sup> Furnishing and installing Mason safety treads at the Traverse Street Subway, Haverhill street,	American Mason Safety Tread Company.....	Oct. 20, 1908	Completed.	\$162.65.....	162 65
<sup>2</sup> Furnishing and installing hot water heater at East Boston paving yard.....	Lynn & Murphy .....	Oct. 26, 1908	Completed.	\$90.....	92 80
<sup>1</sup> Removing snow and ice in Snow District No. 1.....	John C. Coleman & Son.....	Dec. 11, 1908	Unfinished.	\$0.38 per cubic yard.....	Nothing.
<sup>1</sup> Removing snow and ice in Snow Districts Nos. 2, 3, 4, 5.....	Charles J. Jacobs Company..	Dec. 11, 1908	Unfinished.	District No. 2, \$0.30 per cubic yard, District No. 3, .35 per cubic yard, District No. 4, .50 per cubic yard, District No. 5, .50 per cubic yard.....	\$323 10 .444 15 699 00 192 50

<sup>1</sup> Advertised and awarded to lowest bidder.<sup>2</sup> Without competition.

\* Paving.

CONTRACTS IN FORCE MADE IN PREVIOUS YEARS.  
Paving with Trinidad Asphalt.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
1 Cooper street, from Washington Street North, across Endicott street.....	Barber Asphalt Paving Co...	June 20, 1907	Completed Sept. 19, 1908.	(B) 650 square yards @ \$2 50.. \$1,700 00 (C) 4 cubic yards @ 5 00.. 20 00 (D) 50 square yards @ 1 05.. 52 50 (E) 1 cubic yard @ 9 00.. 9 00 (G) 330 linear feet @ 0 21.. 69 30 (H) 180 square yards @ 0 35.. 63 00 (I) 15 square yards @ 0 50.. 7 50	\$1,921 30
1 Vernon street, from Cabot street across Auburn street.....	Barber Asphalt Paving Co...	Oct. 30, 1907	Completed Nov. 30, 1907.	(A) 2,120 square yards @ \$3 25.. \$6,890 00 (B) 10 square yards @ 2 50.. 25 00 (D) 30 square yards @ 1 05.. 31 50 (E) 2,140 square yards @ 0 50.. 1,070 00 (G) 440 linear feet @ 0 21.. 92 40 (H) 360 square yards @ 0 35.. 126 00 (I) 15 square yards @ 0 65.. 9 75 (J) 20 square yards @ 1 00.. 20 00	2,527 95
					\$8,264 48

1 Awarded without competition.

EXPLANATION OF LETTERS.

- (A) Furnishing and laying a 6-inch Portland cement concrete base, a 1½-inch wearing surface and a 1½-inch binder, and guaranteeing the same for a period of ten (10) years after completion.
- (B) Furnishing and laying a 1½-inch binder on existing concrete base and guaranteeing the same for a period of ten (10) years after completion.
- (C) Laying extra concrete base.
- (D) Laying granite block paving and crosswalk flagging with pitch joints on a concrete base.
- (E) Furnishing and laying extra bituminous binder.
- (F) Excavating for sub-grading, including paving blocks barred up.
- (G) Excavating and setting edgestones.
- (H) Excavating and laying brick sidewalks.
- (I) Laying granite block paving and crosswalk flagging, gravel joints, on a gravel base.
- (J) Laying a 6-inch Portland cement concrete base for paving.

## Paving with Wood Blocks.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
1 Park square, from southerly line of Boylston street to southerly line of Elliot street.....	U. S. Wood Preserving Co...	May 28, 1907	Completed Nov. 13, 1907.	(A) 5,330 square yards @ \$3 25.. \$1,722 50 (B) 4,220 square yards @ 1 00.. 4,220 00 (C) 180 square yards @ 1 20.. 216 00 (D) 4,220 square yards @ 0 50.. 2,110 00 (E) 680 linear feet @ 0 21.. 142 80 (F) 700 square yards @ 0 35.. 24 00 (G) 60 square yards @ 0 65.. 35 00	\$4,984 34
1 Summer street, between Washington and Hawley streets.....	U. S. Wood Preserving Co...	May 28, 1907	Completed Oct. 19, 1908.	(A) 1,010 square yards @ \$3 25.. \$3,282 50 (B) 700 square yards @ 1 00.. 700 00 (C) 37 square yards @ 1 05.. 38 85 (D) 740 square yards @ 0 50.. 370 00	\$3,386 95
1 West street, between Washington and Tremont streets.....	U. S. Wood Preserving Co...	Sept. 18, 1907	Completed Sept. 23, 1908.	(A) 1,180 square yards @ \$3 25.. \$3,835 00 (B) 230 cubic yards @ 6 00.. 1,380 00 (D) 1,180 square yards @ 0 50.. 590 00 (E) 35 linear feet @ 0 21.. 7 35 (F) 25 square yards @ 0 35.. 8 75	\$5,933 32
1 Church street, between Boylston and Providence streets.....	U. S. Wood Preserving Co...	Nov. 19, 1907	Completed Nov. 13, 1908.	(A) 445 square yards @ \$3 25.. \$1,446 25 (B) 445 square yards @ 1 00.. 445 00 (D) 445 square yards @ 0 50.. 222 50 (E) 230 linear feet @ 0 21.. 48 30 (F) 140 square yards @ 0 35.. 49 00	\$2,216 00

1 Awarded without competition.

Paving with Wood Blocks—Concluded.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
Providence street, from the west side of Church street 170 feet easterly.....	U. S. Wood Preserving Co...	Nov. 19, 1907	Completed Nov. 25, 1908.	(A) 430 square yards @ \$3 25... \$1,397 50 (B) 446 square yards @ 1 00... 446 00 (C) 16 square yards @ 1 05... 16 80 (D) 446 square yards @ 0 50... 223 00 (E) 300 linear feet @ 0 21... 63 00 (F) 140 square yards @ 0 35... 49 00 (G) 20 square yards @ 0 65... 13 00	\$2,705 07

<sup>1</sup> Awarded without competition.

EXPLANATION OF LETTERS.

- (A) Furnishing and laying wood block paving and guaranteeing the same for a period of ten (10) years after completion.
- (B) Concrete base for wood block paving and crosswalks and brows.
- (C) Granite block paving and crosswalks with pitch joints on a concrete base.
- (D) Excavating for subgrade, including paving blocks barred up.
- (E) Excavating and setting edgestones.
- (F) Excavating and laying brick sidewalks.
- (G) Granite block paving and crosswalk flagging, gravel joints, on a gravel base.

Street Construction under Chapter 323 of the Acts of 1891, or Special Acts or Amendments thereto; and also under Chapter 393 of the Acts of 1906.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Cost of Contract, as per Estimated Quantities, not Including Materials Furnished by the City.	Amount Expended in 1908.
Mapleton street, between Market and Murdock streets.....	Coyle & Clark.....	July 6, 1907	Completed June 27, 1908..	\$2,800 00	\$1,094 33
<sup>2</sup> Willowood street, between Norfolk street and Lauriat avenue.....	Joseph J. Comfrey.....	July 27, 1907	Completed Nov. 30, 1907..	4,202 60	284 79
<sup>*2</sup> Claybourne street, between Bowdoin and Dakota streets.....	S. Connolly.....	Aug. 1, 1907	Completed Nov. 26, 1907..	1,021 00	201 69
<sup>*2</sup> Fottler road, between Walk Hill street and Tilston avenue.....	Fred L. Williams.....	Sept. 3, 1907	Completed Nov. 27, 1907..	1,326 50	349 73
<sup>1</sup> Mallet street, between Florida and Adams streets.....	Timothy F. Bradley.....	Sept. 3, 1907	Completed May 19, 1908..	2,100 00	330 65
<sup>1</sup> Causeway street, between Medford street and Washington Street North.....	William H. Cuddy.....	Sept. 12, 1907	Completed Dec. 5, 1907..	5,300 00	535 04
<sup>1</sup> Hobson street, between Faneuil and Hobart streets.....	Thomas J. Young Co.....	Sept. 14, 1907	Completed Dec. 13, 1907..	3,200 00	87 84
<sup>3</sup> Bayswater street, between Saratoga street and Austin avenue.....	James Doherty.....	Oct. 8, 1907	Completed April 2, 1908..	4,652 87	648 39
<sup>3</sup> Kilton street, between Harvard and Park streets.....	Philip Doherty.....	Oct. 8, 1907	Completed May 6, 1908..	1,868 10	1,539 49
<sup>3</sup> Rockledge street, between Lambert avenue and Thornton street.....	Robert Eagar, Jr.....	Oct. 8, 1907	Completed Dec. 2, 1907..	841 50	211 29

<sup>1</sup> Awarded without competition.

<sup>2</sup> Not advertised, invited bids awarded to lowest bidder.

<sup>3</sup> Advertised and awarded to lowest bidder.

\* Fottler road was awarded to second lowest bidder at modified prices.  
Claybourne street was awarded to fifth lowest bidder at modified prices.

Street Construction.—*Concluded.*

CONTRACT.	Awarded to	Dated.	Progress of Work.	Cost of Contract, as per Estimated Quantities, not Including Materials Furnished by the City.	Amount Expended in 1908.
1 Speedwell street, between Topliff and Hamilton streets.....	William Barrett.....	Oct. 9, 1907	Completed May 26, 1908..	\$1,579 10	\$420 85
1 Larchmont street, between Waldeck and Greenbrier streets.....	D. E. Coleman Company.	Nov. 1, 1907	Completed July 17, 1908..	2,919 25	2,866 51
1 Norton street, between Bowdoin and Speedwell streets.....	D. E. Coleman Company.	Nov. 1, 1907	Completed July 20, 1908..	1,726 40	1,405 69
1 Samoset street, between Centre street and Welles avenue.....	D. E. Coleman Company.	Nov. 1, 1907	Completed June 29, 1908..	2,193 50	1,250 63
1 Parkview street, between Seaver and Hutchings streets.....	Robert L. Barrett.....	Nov. 11, 1907	Completed July 14, 1908..	1,414 80	850 21
1 Bruce street, between Dracut and Wrentham streets.....	Daniel E. Lynch.....	Nov. 11, 1907	Completed Sept. 2, 1908..	517 90	468 89
1 South Huntington avenue, between Huntington avenue and Heath street.....	William J. Barry.....	Nov. 13, 1907	Completed June 20, 1908..	5,223 60	6,687 86
1 Cottage street, between Maverick and Gove streets.....	James Doherty.....	Nov. 14, 1907	Completed May 28, 1908..	2,297 00	2,363 57
1 Frankfurt street, between Maverick and Gove streets.....	James Doherty.....	Nov. 14, 1907	Completed May 29, 1908..	2,507 60	2,599 88
1 Ashland street, between Mill and Everdean streets.....	Philip Doherty.....	Nov. 19, 1907	Completed June 18, 1908..	983 00	531 97
1 Everdean street, between Green Hill and Preston streets.....	Philip Doherty.....	Nov. 19, 1907	Completed June 20, 1908..	1,454 20	1,665 08
1 Norwood street, from Tolman street 444 feet northwesterly.....	Philip Doherty.....	Nov. 19, 1907	Completed May 22, 1908..	1,740 60	1,619 14
1 Bellevue street, between Hamilton and Kane streets.....	John McCourt.....	Nov. 23, 1907	Completed July 16, 1908..	1,729 60	1,788 52
1 Everdean street, between Ashland and Green Hill streets.....	J. W. Collins.....	Nov. 29, 1907	Completed June 20, 1908..	1,370 50	833 03

1 Advertised and awarded to lowest bidder.

## Furnishing and Laying Artificial Stone Sidewalks.†

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
* 1 Speedwell street, between Top-liff and Hamilton streets.....	Warren Bros. Company.....	Oct. 31, 1907	Completed May 16, 1908.	6,645 square feet @ \$0 20.. \$1,329 00.....	\$771 00
* 1 Mallet street, between Florida and Adams streets.....	Simpson Bros. Corporation..	Nov. 14, 1907	Completed Oct. 24, 1908.	6,215 square feet @ 0 20.. 1,243 00.....	765 95
* 1 Larchmont street, between Waldeck and Greenbrier sts..	Warren Bros. Company.....	Nov. 29, 1907	Completed July 14, 1908.	10,660 square feet @ 0 20.. 2,132 00.....	2,148 20

\* Laid in connection with the construction of the street, under chapter 393 of the Acts of 1906.

† These walks are guaranteed by a surety company bond for ten (10) years from date of completion.

‡ Awarded without competition.

## Lease of Land, etc.

CONTRACT.	Awarded to	Dated.	Expires.	Estimated Cost.	Amount Expended in 1908.
* 1 Lease of wharf, etc., at Revere street,	J. J. Costello.....	July 20, 1899	July 20, 1909	\$6,500 per year and all taxes during the first five years, and \$7,250 per year and all taxes during the second five years.....	\$3,625 00
‡ 1 Lease of a portion of Glendon Wharf and stable on said wharf.....	Blodgett & Whidden.....	May 14, 1900	May 14, 1910	\$3,000 per year and all taxes for ten years.....	3,000 00

\* One-half paid by the Sewer Division.

‡ Awarded without competition.

Quarrying and Cutting Stone, etc.

CONTRACT.	Awarded to	Dated.	Expires.	Estimated Cost.	Amount Expended in 1908.
1 Quarrying stone from ledge on Centre street, between Allandale and Walter streets.....	Thomas F. Minton.....	Sept. 4, 1906	Canceled December 3, 1906,	Over \$2,000; 70 cents per ton for stone or strippings delivered; labor, standard rate; teams, established rates.....	Nothing.
1 Quarrying and crushing stone from ledge on Centre street, corner of Grove street, West Roxbury.....	Thomas F. Welch.....	Oct. 2, 1906	Canceled December 27, 1907,	Over \$2,000; \$1.25 per ton for stone crushed; labor, standard rate; teams, established rates.....	Nothing.
1 Quarrying, cutting and crushing stone from ledge on Centre street, corner Grove street, West Roxbury.....	Thomas F. Welch.....	April 2, 1907	Canceled December 27, 1907,	Crushing, \$1.25 per ton; strippings delivered, 70 cents per ton; teams, established rates.....	Nothing.
1 Quarrying and cutting stone at the ledge on Columbia road.....	James A. Mahan.....	Sept. 3, 1907	Canceled January 3, 1908,	Over \$2,000; stone or strippings delivered 70 cents per ton; labor, \$2 per day; teams, established rates.....	\$5,749 89
Quarrying and cutting stone at the Chestnut Hill avenue ledge.....	Coyle & Clark.....	Oct. 11, 1907	Canceled January 6, 1908,	Over \$2,000; stone or strippings delivered, 70 cents per ton; labor, \$2 per day; teams, established rates.....	5,816 47

<sup>1</sup> Awarded without competition.



## Paving and Regulating.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Cost of Contract, as per Estimated Quantities, not Including Material Furnished by the City.	Amount Expended in 1908.
1 Walk Hill street, between Blue Hill avenue and Almont street.	Mark H. Lynch.	Sept. 19, 1907	Completed Nov. 21, 1907.	\$1,125 00	\$180 06
1 Dorchester avenue, between Adams and Park streets.	Daniel E. Lynch.	Oct. 19, 1907	Completed Dec. 4, 1907.	1,750 00	185 87
1 D street, between West Fifth and West Seventh streets.	William Higgins.	Oct. 30, 1907	Completed Dec. 30, 1907.	1,550 00	270 02
1 Shawmut avenue, between Lenox and Sawyer streets.	Daniel H. Shea.	Nov. 1, 1907	Completed Nov. 27, 1907.	1,050 00	61 04
1 Rutherford avenue, from Essex street to about 25 feet east of Baldwin street.	James J. Brock.	Nov. 7, 1907	Completed Dec. 3, 1907.	1,975 00	260 58
1 Worthington street, in front of Normal School.	Charles W. Kinney.	Nov. 11, 1907	Completed May 16, 1908.	1,900 00	1,369 62
1 Melcher street, from Summer street 484 feet southeasterly.	Peter W. Hill.	Nov. 22, 1907	Completed Dec. 9, 1907.	1,650 00	292 37
1 East Sixth street, south side, between O and P streets.	Peter J. Herr, Jr.	Nov. 23, 1907	Completed Dec. 28, 1907.	875 00	112 72
1 Dorchester street, from West First street 240 feet northerly.	Suffolk Contracting Co.	Nov. 27, 1907	Completed Dec. 26, 1907.	850 00	472 74
1 Boynton street, between South and Call streets.	George H. Noone.	Nov. 30, 1907	Completed Sept. 21, 1908.	1,050 00	964 60
1 D street, between Gold street and Broadway.	William Higgins.	Dec. 2, 1907	Completed Aug. 21, 1908.	1,900 00	1,531 33
1 Washington street, west side, between Cliff and Bartlett streets.	Peter Gilligan.	Dec. 2, 1907	Completed Aug. 24, 1908.	1,275 00	1,107 33
1 Rutherford avenue, between Baldwin and Thorndike streets.	James J. Brock.	Dec. 5, 1907	Completed Sept. 23, 1908.	2,024 00	1,966 08
1 Lawn street, from Heath street to another part of Heath street.	Trimount Contracting Co.	Dec. 10, 1907	Completed Sept. 26, 1908.	1,625 00	1,525 80

1. Awarded without competition.

Leasing Ledge Lots.

CONTRACT.	Lessor.	Dated.	Expires.	Estimated Cost.	Amount Expended in 1908.
* 1 Lease of land on Kenney street, near Day street.....	James W. Kenney.....	Sept. 5, 1906	Jan. 31, 1908	\$200 per month rent; 17 cents per ton for stone removed.....	\$1,000 00
1 Lease of ledge on Centre street, between Allandale and Walter streets.....	Thomas Minton.....	Sept. 4, 1906	Feb. 1, 1908	\$7,500; 18 cents per ton for stone removed.....	30 16
1 Lease of ledge on Columbia road, near Brunswick street.....	W. J. Wilcox <i>et al.</i> .....	Dec. 29, 1906	March 22, 1908	\$6,250; 12½ cents per ton for stone removed.....	656 13

\* \$200 per month from February 1, 1906.

1 Awarded without competition.

Miscellaneous Agreements.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1908.
1 Old Road, Dorchester, earth and rock excavation.....	James F. Murphy.....	Oct. 19, 1907	Completed Feb. 1, 1908...	\$2,850 00	\$1,595 26
1 Hancock street, Braintree street 420 feet south- erly, relaying tar concrete walks.....	Simpson Bros. Corp.....	Nov. 21, 1907	Completed Dec. 19, 1907...	575 00	575 00
1 Harvard street, Dorchester, erecting wood fence at bridge.....	P. J. Dinn & Co.....	Dec. 23, 1907	Completed Jan. 7, 1908...	110 00	110 00
1 Asphalting carriage wash in stable at Jamaica Plain yard.....	Simpson Bros. Corp.....	Dec. 31, 1907	Completed Jan. 18, 1908...	125 00	125 00

1 Awarded without competition.

APPENDIX E.

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REPORT OF THE DEPUTY SUPERINTENDENT OF  
THE SANITARY DIVISION.

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ROOMS NOS. 917-920, TREMONT BUILDING,  
BOSTON, MASS., February 1, 1909.

MR. GUY C. EMERSON,  
*Superintendent of Streets:*

DEAR SIR, — I hereby respectfully submit the annual report of the expenditures, income and operation of the Sanitary Division of the Street Department for the financial year ending January 31, 1909.

Respectfully submitted,

GEORGE H. FOSS,  
*Deputy Superintendent.*

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On July 1, 1908, the collection of ashes in the East Boston district was let by contract. On July 15 the collection of ashes in the Brighton district was let by contract.

On July 15, 1908, the carrying capacity of the ash carts was increased from fifty-four cubic feet to sixty-three cubic feet.

The City Ordinances of 1892, chapter 36, require that house dirt and ashes and house offal shall be kept in an easily accessible place for their removal, the men being obliged to enter the yards and remove the receptacles to the sidewalk, where their contents are dumped into the carts. The receptacles are then placed in their original position.

Ordinance of 1907, chapter 4: The Sanitary Division shall remove house offal, house dirt and such ashes as are the product of burning materials for heating habitations, cooking and other domestic purposes and all other noxious and refuse substances from yards and areas when so placed as to be easily removed.

During the year six (6) new winged carts were built by the Sanitary Division, having a carrying capacity of eighty-seven cubic feet each.

The scarcity of low land available for dumping purposes has greatly increased the cost of collection. The division is now paying for dumping privileges at the rate of ten (10) cents per load in East Boston, Charlestown, Roxbury, the South End and Cambridge.

The division also has charge of the construction and repairs of carriages, carts, wagons and harnesses, etc., for this and other divisions and departments.

### FINANCIAL STATEMENT.

Amount of appropriation . . . . .	\$750,000 00
Paid by Fire Department (through City Collector),	329 00
	\$750,329 00

Transferred to Street Cleaning and Watering Division . . . . .	\$3,905 31
Transferred to Ferry Division . . . . .	1,272 79
	5,128 10

Total amount of appropriation . . . . .	<u><u>*\$745,200 90</u></u>
---	-----------------------------

Total expenditures of the Sanitary Division, including work done for other divisions and departments and paid by them . . . . .	\$786,089 78
Less amounts paid by other divisions and depart- ments . . . . .	40,888 88

Net cost of maintenance, Sanitary Division . . . . .	<u><u>\$745,200 90</u></u>
--	----------------------------

#### TOTAL COST ON HOUSE DIRT, ASHES, WASTE AND RUBBISH AND HOUSE OFFAL.

Salaries: Deputy superintendent and office force,	\$10,067 05
Office supplies and expenses . . . . .	5,448 04
Ashes, waste and rubbish account . . . . .	494,254 20
House offal account . . . . .	227,431 91
	\$737,201 20

#### CONSTRUCTION, REPAIR AND HORSESHOEING ACCOUNT.

Foremen . . . . .	\$1,357 84
Expended for labor . . . . .	32,005 48
Expended for stock . . . . .	15,525 26
	48,888 58

Total expenditures of the Sanitary Division for the fiscal year ending January 31, 1909 . . . . .	<u><u>\$786,089 78</u></u>
--	----------------------------

\*Of this sum, \$3,945.96, for miscellaneous credits, is not carried into tables, page 304 and facing the same.

REVENUE RECEIVED FROM OUTSIDE DIVISIONS  
FOR BOARD AND CARE OF HORSES, RENT, USE  
OF DUMPING BOATS, SHOEING AND FOR  
REPAIRING VEHICLES, ETC.

Bridge Division . . . . .	\$314 33	
County of Suffolk . . . . .	1,877 14	
Lamp Division . . . . .	443 08	
Paving Division . . . . .	9,358 51	
Sewer Division . . . . .	4,575 81	
Street Cleaning and Watering Division . . . . .	24,267 01	
Supply Department . . . . .	53 00	
	<hr/>	\$40,888 88

Net cost of maintenance to Sanitary Division . \$745,200 90

Amount of money deposited and bills presented to the City  
Collector during the year ending January 31, 1909, for general  
revenue :

MONEY DEPOSITED.

From letting of scow privileges . . . . . \$4,448 54

BILLS PRESENTED.

For the collection of engine ashes .	\$12,675 65	
Less bills withdrawn . . . . .	118 50	
	<hr/>	\$12,557 15
For rents, Fort Hill and Hecht's wharves . . . . .	1,104 00	
For sale of manure . . . . .	119 93	
For repair work for Fire Depart- ment . . . . .	*329 00	
	<hr/>	14,110 08
		<u>\$18,558 62</u>

\* This amount was added to the appropriation.

## Items of Expenditure for the Year.

ITEMS.	Total Amount Expended.
Salaries of deputy superintendent and office force.....	\$10,067 05
Salaries of foremen.....	11,298 54
Labor — collection and disposition of house dirt and ashes,	226,672 30
Labor — collection and disposition of waste and rubbish.	37,407 00
Labor — collection and disposition of house offal.....	149,473 04
Labor and stock in stables and yards.....	46,051 03
Hired teams on ashes, waste and rubbish and house offal..	45,529 00
Contracts on ashes — East Boston, Brighton, West Rox- bury, North Dorchester and South Dorchester.....	42,418 57
Contracts on offal — East Boston, Brighton, West Rox- bury and Dorchester.....	33,563 35
Ash and offal stock.....	505 97
Allowed time and holidays.....	23,759 45
Grain.....	33,503 03
Hay and straw.....	23,538 31
Medical attendance and allowed time on account of injured men.....	165 00
Horses.....	5,415 00
Veterinary services and medicine.....	3,162 29
Hired horses.....	4,275 00
Outside board and care of horses.....	3,055 29
Outside horseshoeing, blacksmith, wheelwright, harness and painting.....	4,576 68
Labor, stock, etc. — wheelwright, blacksmith, paint, har- ness and horseshoeing shops.....	44,261 20
Dumping boats, stock, etc.....	121 19
Repairs on stables, sheds, wharves and boats.....	7,628 95
Fuel.....	1,252 54
Gas.....	1,053 41
Electric lighting and power.....	1,169 63
Printing, stationery, office items and incidentals.....	6,981 36
Advertising.....	501 14
Rents.....	12,539 04
Tolls and fares.....	53 49
Telephones.....	1,042 08
Damages caused by teams.....	52 00
Taxes on Hecht's estate, as per lease.....	4,997 85
<b>Total.....</b>	<b>\$786,089 78</b>
Amounts paid by other departments and divisions.....	40,888 88
Amount charged to the Sanitary Division.....	\$745,200 90

## Amount of House Dirt and Ashes Removed.

YEARS.	Number of Loads at 54 Cubic Feet.	Cubic Yards.	Tons. (2,000 lbs.)
1904.....	325,955	651,910	260,764
1905.....	321,545	643,090	257,236
1906.....	352,124	704,248	281,699
1907.....	377,058	754,116	301,647
1908.....	*339,913	745,918	311,586

\* Loads increased to sixty-three cubic feet July 15, 1908.

**Force Employed on House Dirt and Ashes January 31, 1909.**

CITY FORCE.	Number.	Hired Teams.	CONTRACTORS' TEAMS.					Total.
			East Boston.	Brighton.	West Roxbury.	North Dorchester.	South Dorchester.	
Inspectors.....	25							25
Teamsters.....	127	5	4	6	3	11	6	162
Helpers.....	130	5	10	6	5	25	15	196
Dumpers.....	24							24
<b>Totals.....</b>	<b>306</b>	<b>10</b>	<b>14</b>	<b>12</b>	<b>8</b>	<b>36</b>	<b>21</b>	<b>407</b>

**Amount of Waste and Rubbish Removed.**

YEARS.	NUMBER OF LOADS.		Cubic Yards.	Tons. (2,000 lbs.)
	Paper Carts.	Market Wagons.		
1904.....	7,064	9,170	101,616	11,431
1905.....	6,569	10,540	108,596	12,387
1906.....	6,271	11,133	125,281	12,836
1907.....	6,098	11,071	112,960	12,708
1908.....	5,892	10,346	123,839	13,566

**Force Employed on Waste and Rubbish January 31, 1909.**

CITY FORCE.	Number.
Inspectors.....	2
Teamsters.....	13
Helpers.....	25
Dumpers.....	1
<b>Total.....</b>	<b>41</b>

**Amount of House Offal Removed.**

YEARS.	Number of Loads.	Cubic Yards.	Tons. (2,000 lbs.)
1904.....	64,084	128,168	64,084
1905.....	64,803	129,606	64,803
1906.....	65,387	130,774	65,387
1907.....	64,712	129,424	64,712
1908.....	62,892	125,784	78,615

## Force Employed on House Offal January 31, 1909.

CITY FORCE.	Number.	CONTRACTORS' TEAMS.				Total.
		East Boston.	Brighton.	West Roxbury.	Dorchester.	
Inspectors.....	13					13
Teamsters.....	51	4	5	2	8	70
Helpers.....	50	4	3	2	14	73
Dumpers.....	4					4
Totals.....	118	8	8	4	22	160

## Capacity of Carts and Wagons in Use by the Sanitary Division.

	Cubic Feet.		Cubic Feet.
Single ash carts . . . . .	63	Single offal wagons . . . . .	55
Double ash carts . . . . .	136	Double offal wagons . . . . .	85
Paper carts . . . . .	106	Paper wagons . . . . .	219

## WINTER WEIGHTS.

	Lbs.
Average weight of paper cart loads . . . . .	1,000
Average weight of ash cart loads . . . . .	2,300
Average weight of offal wagon loads . . . . .	2,600
Average weight of paper wagon loads . . . . .	1,800

## SUMMER WEIGHTS.

	Lbs.
Average weight of paper cart loads . . . . .	1,100
Average weight of ash cart loads . . . . .	1,800
Average weight of offal wagon loads . . . . .	2,500
Average weight of paper wagon loads . . . . .	2,000

## Number of Loads of Material Collected from February 1, 1904, to January 31, 1909.

YEAR.	Waste and Rubbish.	Ashes.	Offal.	Total Loads.	Total Tons. (2,000 lbs.)
1904.....	16,234	325,955	64,084	406,273	336,279
1905.....	17,109	331,545	64,803	413,457	334,426
1906.....	17,404	352,124	65,387	434,915	359,922
1907.....	17,169	377,058	64,712	458,939	379,067
1908.....	16,238	339,913	62,892	*419,043	403,767

The above includes the loads collected by the contractors on ashes and offal.

\* Decrease in number of loads carried due to the increase in the carrying capacity of the carts.



## Average Number of Employees and Horses Cared for by the Sanitary Division.

Average number of employees for 1908.....		664
Average number of horses, Sanitary Division.....	248	
Average number of hired horses.....	12	
Average number of all other horses.....	29	
Average number of horses fed by the Sanitary Division.....		289

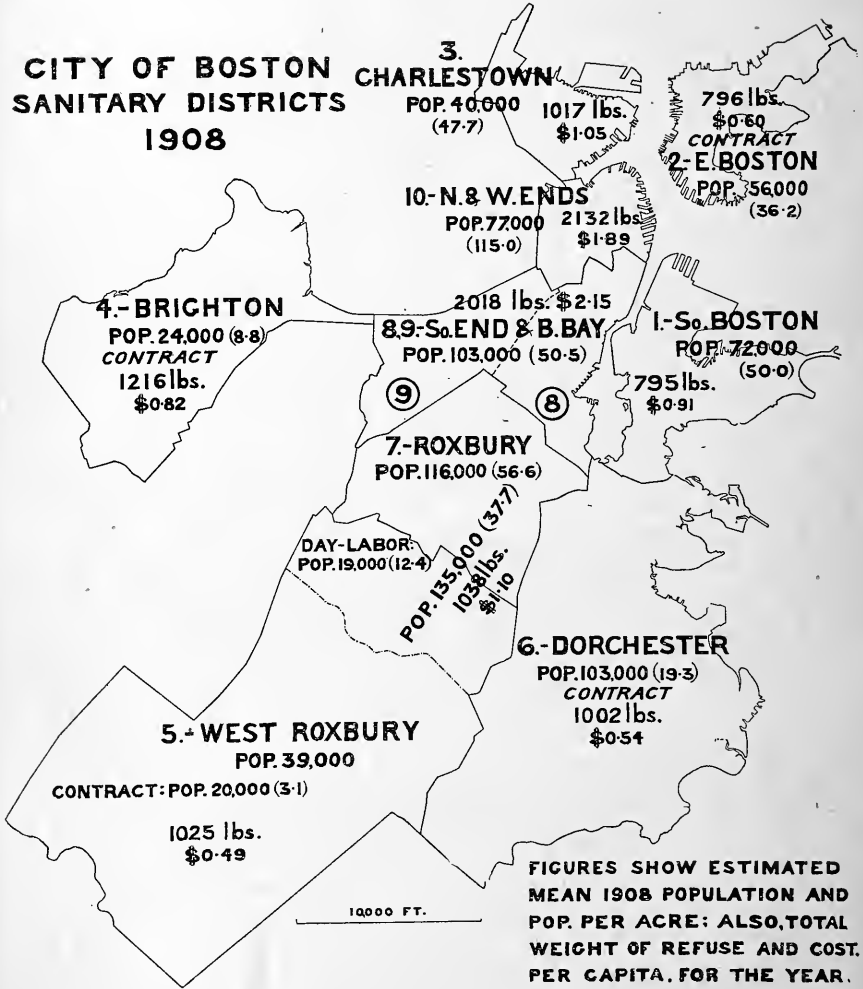
## Loads Collected by Contractors.

	Ash Loads.	Cubic Yards.	Tons. (2,000 lbs.)
East Boston.....	8,736	17,470	8,010
Brighton.....	5,373	10,750	4,925
West Roxbury.....	8,747	17,460	8,018
North Dorchester.....	25,595	89,120	40,697
South Dorchester.....	18,803		
Totals.....	67,254	134,800	61,650
	Offal Loads.	Cubic Yards.	Tons. (2,000 lbs.)
East Boston.....	4,645	8,300	5,806
Brighton.....	2,500	4,470	3,125
West Roxbury.....	1,784	3,200	2,230
Dorchester.....	8,725	15,630	10,909
Totals.....	17,654	31,600	22,070

## Loads of Material Collected by Districts.

	South Boston.	East Boston.	Charlestown.	Brighton.	West Roxbury.	Dorchester.	Roxbury.	South End and Back Bay.	North and West Ends.	Total Loads.	Total Tons. (2,000 lbs.)
House dirt and ashes.....	25,505	17,987	18,570	12,508	24,054	44,398	45,530	80,190	71,171	339,913	311,586
Waste and rubbish.....	370						602	8,872	6,394	16,238	13,566
House offal....	3,937	4,645	2,654	2,500	4,327	8,725	8,445	18,395	9,264	62,892	78,615
Totals.....	29,812	22,632	21,224	15,008	28,381	53,123	54,577	107,457	86,829	419,043	403,767

**CITY OF BOSTON  
SANITARY DISTRICTS  
1908**



**Cost of Collection and Disposal of Refuse by Day Labor Force in the City of Boston for the Year 1908-09.**

District and Population.	CHARACTER OF REFUSE.	Tons. (2,000 lbs.)	Total Tons.	COST PER TON BY DISTRICTS.			COST BY DISTRICTS.					WHERE DISPOSED OF.	
				To Collect.	For Disposal.	Total Collection and Disposal.	To Collect.	Total Cost to Collect.	For Disposal.	Total Cost of Disposal.	Total Cost of Collection and Disposal.		Total Cost per Capita, Collection and Disposal.
1 (72,000)	Mixed refuse, principally ashes (no kitchen refuse).....	23,379		\$1 3697	\$0 4735	\$1 8432	\$32,021 90		\$11,069 97				Inland dumps.
	Store refuse, principally paper.....	315		1 6143	2 2005	3 8148	508 50		693 16				City Refuse Utilization Company.*
	Garbage, principally kitchen wastes.....	4,920	28,614	3 1567	1 1633	4 3200	15,531 03		5,723 25				New England Sanitary Product Company.*
2 (56,000)	Ashes (from February 1, 1908, to July 1, 1908).....	8,480	8,480	Av. \$1 6796	Av. \$0 6111	Av. \$2 2907							
3 (40,000)	Mixed refuse, principally ashes (no kitchen refuse).....	17,025		1 8757	0 2057	2 0814	\$15,906 40	15,906 40	\$1,744 16	1,744 16	17,650 56	† 3152	Inland dumps.
	Garbage, principally kitchen wastes.....	3,317	20,342	1 4833	0 1498	1 6331	\$25,253 59		\$2,550 48				Inland dumps.
4 (24,000)	Mixed refuse, principally ashes (no kitchen refuse).....	5,576		3 1840	1 1247	4 3087	10,561 34		3,730 50				New England Sanitary Product Company.*
	Ashes (from February 1, 1908, to July 15, 1908).....	6,540	6,540	Av. \$1 7606	Av. \$0 3088	Av. \$2 0694							
5 (part) and 7 (135,000)	Mixed refuse, principally ashes (no kitchen refuse).....	55,706		1 2540	0 0945	1 3485	\$8,201 25	8,201 25	\$617 68	617 68	8,818 93	† 3675	Inland dumps.
	Store refuse, principally paper.....	580		1 4480	0 1684	1 6164	\$80,748 82		\$9,391 24				Inland dumps.
	Garbage, principally kitchen wastes.....	13,735	70,081	2 6054			1,511 10						Inland dumps.
8 and 9 (103,000)	Mixed refuse, principally ashes (no kitchen refuse).....	73,306		2 9462	1 1447	4 0908	40,466 10		15,723 00				New England Sanitary Product Company.*
	Store refuse, principally paper.....	7,403		Av. \$1 7512	Av. \$0 3584	Av. \$2 1096							
	Garbage, principally kitchen wastes.....	22,993	103,902	1 4980	0 0202	1 5182	\$110,109 76		\$1,455 18				62.95 per cent inland dumps; 37.05 per cent dumped at sea.
10 (77,000)	Mixed refuse, principally ashes (no kitchen refuse).....	65,240		3 1126	2 1834	5 2960	23,042 81		16,163 54				57.36 per cent City Refuse Utilization Company; 12.64 per cent inland dumps.*
	Store refuse, principally paper.....	5,268		1 9439	1 1239	5 0678	44,696 49		25,840 00				New England Sanitary Product Company.*
	Garbage, principally kitchen wastes.....	11,580	82,088	Av. \$1 7117	Av. \$0 4186	Av. \$2 1306							
507,000	Mixed refuse, principally ashes (no kitchen refuse).....	65,240		1 1716	0 1886	1 3602	\$76,434 90		\$12,305 06				Dumped at sea.
	Store refuse, principally paper.....	5,268		2 7831	2 1738	4 9569	14,661 59		11,451 36				City Refuse Utilization Company.*
	Garbage, principally kitchen wastes.....	11,580	82,088	1 5283	1 1247	2 6530	17,697 50	108,793 99	13,024 05	36,780 47	145,574 46	1 6570	New England Sanitary Product Company.*
	Totals.....	320,047	320,047	Av. \$1 6165	Av. \$0 4109	Av. \$2 0274	\$517,353 08	\$517,353 08	\$131,512 63	\$131,512 63	\$648,865 71	\$ 1 2798	

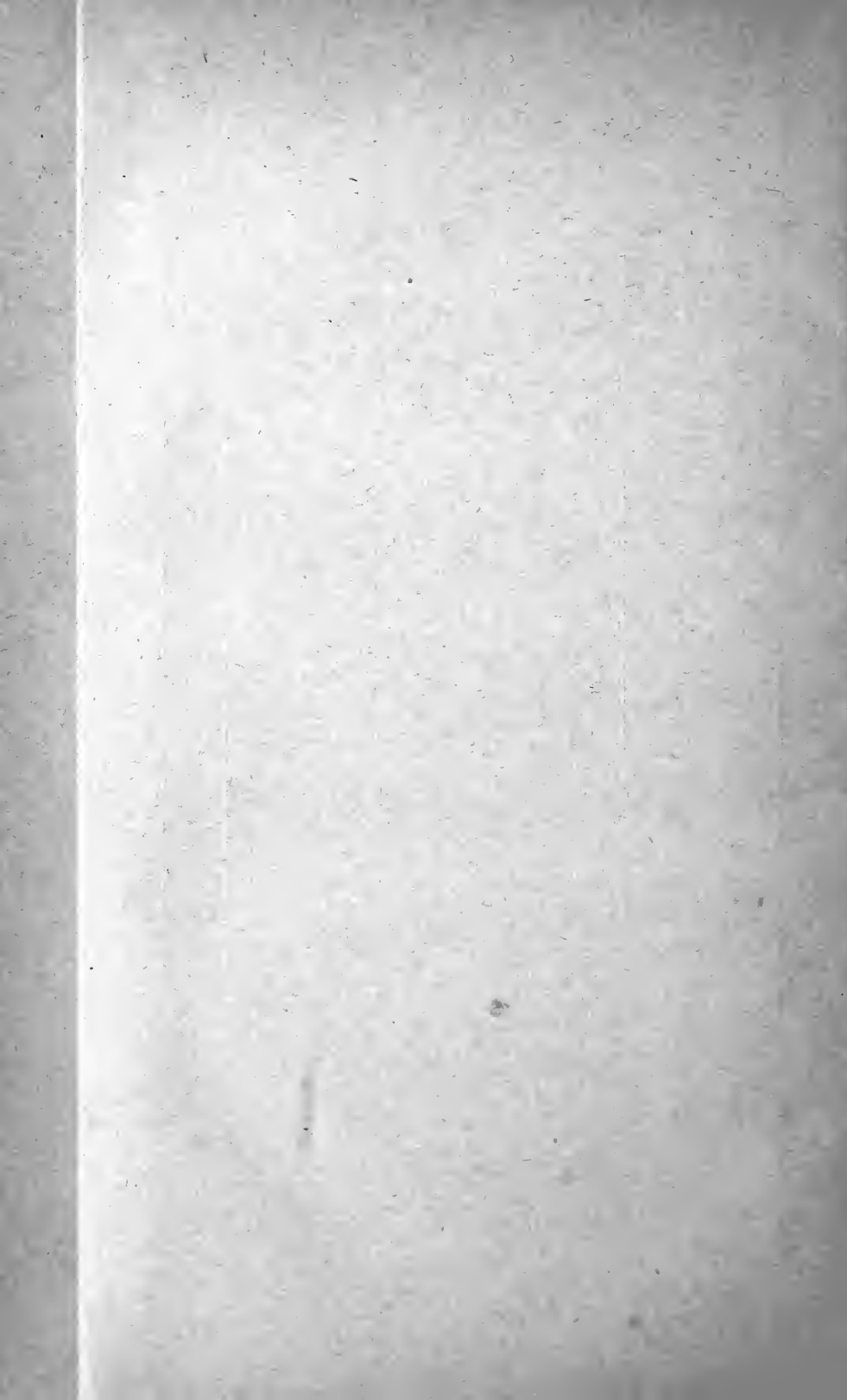
\* Contract for disposal.

† Proportional total cost per capita for entire year, \$0.7577.

‡ Proportional total cost per capita for entire year, \$0.8084.

§ Proportional total cost per capita for entire year, \$1.3496.

See also table, page 305, and map, page 304, based on these two tables.



## Cost of Collection and Disposal of Refuse by Contract in the City of Boston for the Year 1908-09.

Contract Districts and Population.	Character of Refuse.	Tons. (2,000 lbs.)	Total Tons.	Cost per Ton by Districts: Collection and Disposal.	Costs by Districts.			Where Disposed of.
					Cost.	Total Cost.	Total Cost per capita.	
2. (56,000)	{ Mixed refuse, principally ashes (no kitchen wastes) . . . . .	8,010	.....	\$0 9465	\$7,581 84	.....	Inland dumps.	
	{ Garbage, principally kitchen wastes . . . . .	5,806	.....	1 4379	8,348 19	.....	Inland dumps.*	
4. (24,000)	{ Mixed refuse, principally ashes (no kitchen wastes) . . . . .	4,925	.....	Av. \$1 1530	.....	.....	Inland dumps.	
	{ Garbage, principally kitchen wastes . . . . .	3,125	.....	1 1625	\$5,725 08	.....	Inland dumps.*	
5. (part) (20,000)	{ Mixed refuse, principally ashes (no kitchen wastes) . . . . .	8,018	.....	1 6450	5,140 64	.....	Inland dumps.	
	{ Garbage, principally kitchen wastes . . . . .	2,230	8,050	.....	10,865 72	4527	Inland dumps.*	
6. (103,000)	{ Mixed refuse, principally ashes (no kitchen wastes) . . . . .	40,697	.....	Av. \$1 3498	\$6,400 00	.....	Inland dumps.	
	{ Garbage, principally kitchen wastes . . . . .	10,909	.....	0 7982	3,394 51	.....	{ New England Sanitary Product Company.	
203,000	{ Mixed refuse, principally ashes (no kitchen wastes) . . . . .	40,697	10,248	1 5222	9,794 51	4897	Inland dumps.	
	{ Garbage, principally kitchen wastes . . . . .	10,909	51,606	2 2095	24,102 80	.....	{ New England Sanitary Product Company.	
Totals . . . . .	Totals . . . . .	83,720	83,720	Av. \$1 0812	\$92,389 23	\$0 4551		

\*Removed beyond city limits and presumably fed to swine.  
See also table, facing this page, and map, page 304, based on these two tables.

Amount Expended for the Collection and Disposition of House Dirt, Ashes, Waste and Rubbish and House Offal, by Districts, Including Labor, Stock, Etc.

DISTRICTS.	Popu- lation.	WASTE AND RUBBISH.		ASHES.		OFFAL.		Total Cost.	Total Cost per Capita.
		Cost.	Cost per Capita.	Cost.	Cost per Capita.	Cost.	Cost per Capita.		
1. South Boston.....	72,000	\$508 50	\$0 0071	\$31,939 97	\$0 4436	\$14,674 74	\$0 2038	\$47,123 21	\$0 6545
2. East Boston.....	56,000	.....	.....	22,606 44	4037	7,920 04	1414	30,526 48	5451
3. Charlestown.....	40,000	.....	.....	27,946 53	6987	11,377 33	2844	39,323 86	9831
4. Brighton.....	24,000	.....	.....	13,334 83	5556	4,712 49	1964	18,047 32	7520
5. West Roxbury.....	39,000	.....	.....	22,336 69	5727	9,975 47	2558	32,312 16	8285
6. Dorchester.....	103,000	.....	.....	30,724 18	2983	24,627 72	2391	55,351 90	5374
7. Roxbury.....	116,000	1,511 10	0130	70,666 56	6092	32,591 72	2809	104,769 38	9031
8-9. South End and Back Bay.	103,000	22,134 50	2149	109,535 92	1 0634	45,267 55	4395	176,937 97	1 7178
10. North and West Ends.....	77,000	14,283 63	1855	76,456 94	9930	17,130 56	2225	107,871 13	1 4010
11. Dumping boats.....	.....	26,328 28	.....	23,940 13	.....	59,154 29	.....	109,422 70	.....
Totals.....	630,000	\$64,766 01	.....	\$429,488 19	.....	\$227,431 91	.....	\$721,686 11	\$1 1455

**Comparative Table Showing the Cost of Collecting Ashes, Offal, Waste and Rubbish and Delivering the same at Various Dumps.**

Cost per ton (2,000 lbs.), including administrative expenses . . . . .	\$1 85
Cost per ton, labor on ashes; hired teams and contractor, . . . . .	1 41
Cost per ton, labor on offal; hired teams and contractor, . . . . .	2 98
Cost per ton, labor on waste and rubbish . . . . .	5 02
Cost per load, transportation to sea . . . . .	22
Cost per dumping boat load to transport to sea . . . . .	74 05

The total cost is divided by the total number of tons.

**Final Disposition of all Material Collected by the Sanitary Division from February 1, 1908, to January 31, 1909.**

MATERIAL.	Deposited on Low Lands.	Towed to Sea.	Plant of the New England Sanitary Product Company.	Plant of the City Refuse Utilization Company.	Collected by Contractors and Disposed of by them.	Total Number of Loads of Material Disposed of.
House dirt and ashes . . . . .	177,737	94,922	.....	.....	67,254	339,913
Waste and rubbish . . . . .	2,062	*3,969	.....	14,176	.....	20,207
House offal . . . . .	.....	.....	53,963	.....	8,929	62,892
Cesspool dirt . . . . .	.....	3,970	.....	.....	.....	3,970
Street sweepings . . . . .	.....	37,159	.....	.....	.....	37,159
Totals . . . . .	179,799	140,020	53,963	14,176	76,183	464,141

\* The above includes 3,969 loads of barrel refuse delivered at dumping boats.

**MAINTENANCE OF FORT HILL WHARF AND DUMPING BOATS.**

For towing by division towboat . . . . .	\$8,190 14	
For towing by hired towboats . . . . .	1,362 50	
		\$9,552 64
For repairs on wharves and boats . . . . .	\$5,843 50	
For dumping boat stock and supplies, . . . . .	2,661 76	
For labor, crew and dumpers . . . . .	12,134 13	
For allowed time, holidays, etc. . . . .	465 82	
		21,105 21
Total cost for maintenance of Fort Hill Wharf and dumping boats . . . . .		<u>\$30,657 85</u>
Number of trips to sea by division towboat . . . . .	380	
Number of trips to sea by hired towboats . . . . .	33	
		413
Number of scows to sea . . . . .		414
Cost per cart load . . . . .		\$0.22
Cost per boat load . . . . .		\$74.05

## Contracts.

ОБЪЕКТ.	Name.	Price per Month.	Commence.	End.
Removal of house dirt and ashes:				
East Boston *	Charles Berman.....	\$1,041 66 $\frac{2}{3}$	July 1, 1908	July 1, 1910
Brighton *	John H. Carter.....	601 66 $\frac{2}{3}$	July 15, 1908	July 15, 1910
Part of West Roxbury.	John J. Moore.....	458 33 $\frac{1}{3}$	April 10, 1907	April 10, 1909
North Dorchester.....	Dennis Flynn.....	1,454 16 $\frac{2}{3}$	Sept. 1, 1907	Sept. 1, 1908
North Dorchester.....	Arthur C. Mullen.....	1,275 00	Sept. 1, 1908	Sept. 1, 1910
South Dorchester.....	John D. Lyons.....	775 00	Aug. 1, 1907	Aug. 1, 1908
South Dorchester.....	Martin F. Gaddis.....	745 83 $\frac{1}{3}$	Aug. 1, 1908	Aug. 1, 1910
Removal of house offal:				
East Boston.....	Thomas Mulligan.....	700 00	April 1, 1906	July 15, 1908
East Boston.....	John T. Lane.....	416 66 $\frac{2}{3}$	July 15, 1908	July 15, 1910
Brighton.....	John Newbury.....	216 66 $\frac{2}{3}$	June 20, 1908	June 20, 1910
Part of West Roxbury.....	William H. Kennelly.....	207 50	June 15, 1908	June 15, 1910
Dorchester.....	Timothy F. Bradley.....	1,666 66 $\frac{2}{3}$	April 11, 1907	April 11, 1909
Lease of wharf, Atlantic avenue †.....	Middlesex Trust.....	958 33 $\frac{1}{3}$	March 1, 1903	Dec. 1, 1908
Disposal of house offal.....	New England Sanitary Product Com- pany.....	4,366 66 $\frac{2}{3}$	Nov. 7, 1901	Jan. 1, 1912
Disposal of waste and rubbish †.....	City Refuse Utilization Company.....	458 33 $\frac{1}{3}$	Dec. 1, 1898	Dec. 1, 1908
Removal of dead animals.....	N. Ward Company.....	No charge	Nov. 9, 1901	Jan. 1, 1912

\* Collected by city teams before July.  
† Running at will since December 1, 1908, at same rate.  
All contracts advertised and let to lowest bidder.



Amounts Paid to Contractors.— Year of 1908.

DISTRICTS.	ASHES.		DISTRICTS.	OFFAL.	
	Name.	Per Year.		Name.	Per Year.
2. East Boston.....	Charles Berman.....	\$6,250 04	2. East Boston.....	Thomas Mulligan.....	\$4,526 66
4. Brighton.....	John H. Carter.....	3,329 19	2. East Boston.....	John T. Lane.....	2,053 30
5. Part West Roxbury..	John J. Moore.....	5,500 00	4. Brighton.....	John Newbury.....	2,600 00
6. North Dorchester...	Dennis Flynn *.....	13,087 44	5. Part West Roxbury..	W. H. Kennelly.....	2,494 51
6. North Dorchester...	Arthur C. Mullen.....	5,100 00	6. Dorchester.....	Timothy F. Bradley*....	21,666 66
6. South Dorchester...	John D. Lyons.....	5,425 00	Disposition.....	New England Sanitary Product Company *....	56,767 00
6. South Dorchester...	Martin F. Gaddis.....	3,729 15			
Disposition.....	City Refuse Utilization Com- pany.....	5,500 00			

\* Dennis Flynn.....\$1,454 16  
 Timothy F. Bradley..... 1,666 66 } Bills left over from year 1907.  
 New England Sanitary Product Company... 4,367 00 }

## CONSTRUCTION AND REPAIR SHOPS.

For work done and material furnished for other divisions the different shops received as follows:

Wheelwright shop . . . . .	\$2,645 68	
Blacksmith shop, South End . . . . .	4,696 87	
Blacksmith shop, West End . . . . .	578 73	
Paint shop . . . . .	2,250 80	
Harness shop . . . . .	1,918 51	
Horseshoeing shop, South End . . . . .	2,153 25	
Horseshoeing shop, West End . . . . .	2,008 25	
	<hr/>	\$16,252 09

For work done and material furnished for the Sanitary Division the following amounts were expended by the different shops:

Wheelwright shop . . . . .	\$6,688 93	
Blacksmith shop, South End . . . . .	7,426 75	
Blacksmith shop, West End . . . . .	1,315 00	
Paint shop . . . . .	3,759 11	
Harness shop . . . . .	5,303 69	
Horseshoeing shop, South End . . . . .	2,200 91	
Horseshoeing shop, West End . . . . .	1,314 72	
	<hr/>	28,009 11

Total amount paid out, stock and labor, all divisions . . . . .		\$44,261 20
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Foreman in charge . . . . .	\$1,357 84	
Allowed time, holidays . . . . .	2,734 69	
Allowed time, medical attendance . . . . .	3 00	
Expended for electric power, printing and incidentals . . . . .	531 85	
	<hr/>	4,627 38

Total of maintenance of shops . . . . .		\$48,888 58
Income from other divisions . . . . .		16,252 09

Net cost to Sanitary Division . . . . .		<u>\$32,636 49</u>
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DETAILED ACCOUNT OF AMOUNTS PAID TO THE SANITARY DIVISION DURING THE YEAR ENDING JANUARY 31, 1909.

For repair and construction work . . . . .	\$12,090 59
For horseshoeing . . . . .	4,161 50
For use of dumping boats . . . . .	10,441 75
	<hr/>
Carried forward . . . . .	\$16,593 84

<i>Brought forward</i> . . . . .	\$16,593 84
For hay, straw and grain, board and care of horses, . . . . .	5,726 78
For feeders, stablemen and watchmen . . . . .	1,231 60
For fuel, light, etc. . . . .	696 58
For board and care of sick horses at veterinary hospital . . . . .	881 00
For rent of wharf, Atlantic avenue . . . . .	5,200 00
For labor, removing snow for Street Cleaning and Watering Division . . . . .	200 25
For horse loaned to County of Suffolk . . . . .	143 00
For furnishings for prison vans . . . . .	115 83
	<hr/>
	<u>\$40,888 88</u>

**Horseshoeing by Divisions.**

KINDS AND STYLES.	Sanitary Division.	Street Cleaning and Watering Division.	Sewer Division.	Paving Division.	Lamp Division.	Supply Department.	County of Suffolk.	Total.
Plain shoes.....	6,968	3,748	890	172	68	14	103	11,963
Bar shoes.....	121	144	142	.....	.....	.....	45	452
Leathers.....	4,064	2,647	406	10	28	8	73	7,236
Resets.....	1,121	515	109	12	6	.....	38	1,801
Pads.....	211	152	74	114	2	.....	12	565
Springs.....	3	12	4	.....	.....	.....	.....	19

Average cost per shoe, 41 cents.

**Cost of Horseshoeing.**

	Division Shops.	Outside Shops.*
Stock.....	\$2,740 07	\$4,086 38
Labor.....	4,937 06	.....
<b>Totals.....</b>	<b>\$7,677 13</b>	<b>\$4,086 38</b>

\* Average charge per shoe, 50 cents.

## HAY AND GRAIN.

Amount of hay, grain, straw, oats, shorts and corn used by the Sanitary Division for the year of 1908:

Hay . . . . .	2,454,223	pounds.
Straw . . . . .	173,085	pounds.
Cob corn . . . . .	26,480	pounds.
Oats . . . . .	53,904	bushels.
Shorts . . . . .	30 $\frac{1}{4}$	tons.
Highest price paid for hay . . . . .	\$23 00	per ton.
Lowest price paid for hay . . . . .	15 00	per ton.
Highest price paid for straw . . . . .	20 00	per ton.
Lowest price paid for straw . . . . .	15 00	per ton.
Highest price paid for oats . . . . .	65	per bushel.
Lowest price paid for oats . . . . .	56 $\frac{1}{2}$	per bushel.
Highest price paid for shorts . . . . .	31 00	per ton.
Lowest price paid for shorts . . . . .	27 00	per ton.
Highest price paid for cob corn . . . . .	1 64	per 100.
Lowest price paid for cob corn . . . . .	1 35	per 100.

## Repairs and Insurance, Year Ending January 31, 1909.

OBJECT.	Contractor.	Amount Paid.	Date of Contract.
Repairs to dumper No. 4. . . . .	Benjamin Rose. . . . .	\$960 00	June 9, 1908.
Repairs to dumper No. 3. . . . .	D. D. Kelly & Son. . . . .	765 00	July 17, 1908.
Repairs to dumper No. 2. . . . .	D. D. Kelly & Son. . . . .	515 00	Sept. 3, 1908.
Dredging wharf, Atlantic avenue. . . . .	Bay State Dredging Company (15 hours at \$20). . . . .	300 00	Dec. 29, 1908.
Insurance on automobile. . . . .	G. R. Griffin & Co. . . . .	88 00	Jan. 29, 1909.

Number of Carts, Wagons and Sleds used by the Sanitary Division for the Collection of House Dirt and Ashes, Waste and Rubbish and Offal During the Year Ending January 31, 1909.

Districts.	ASH CARTS.		OFFAL.				PAPER.		Sleds.	Name of Contractor.
	ALL WOOD.		IRON.		WOOD.		Carts.	Wagons.		
	Single.	Double.	Single.	Double.	Single.	Double.				
1. South Boston . . . . .	17	..	..	..	8	..	1	1	12	
3. Charlestown. . . . .	11	..	5	..	1	..	1	..	15	
5 and 7. Roxbury . . . . .	46	5	10	..	14	1	3	2	41	
8. South End shop. . . . .	6	1	..	1	4	..	..	..	5	
8 and 9. South End and Back Bay. . . . .	73	1	23	2	15	..	19	10	39	
10. North and West Ends . . . . .	44	..	9	1	..	..	9	7	5	
Total number used by Sanitary Division. . . . .	197	7	47	4	42	1	33	20	117	
IN USE BY CONTRACTORS.										
2. East Boston . . . . .	..	4	..	..	..	..	..	..	..	Charles Berman.*
2. East Boston . . . . .	..	..	..	..	..	4	..	..	..	John T. Lane.*
4. Brighton. . . . .	..	3	..	..	..	..	..	..	..	John H. Carter.*
4. Brighton. . . . .	..	..	..	..	..	5	..	..	1	John Newbury.
5. West Roxbury . . . . .	1	2	..	..	2	..	..	..	..	John J. Moore.*
5. West Roxbury . . . . .	..	..	..	..	..	3	..	..	3	William H. Kennelly.
6. North Dorchester . . . . .	3	8	..	..	..	..	..	..	..	Arthur C. Mullen.
6. South Dorchester . . . . .	1	6	..	..	..	..	..	..	..	Martin F. Gaddis.
6. Dorchester . . . . .	..	..	..	6	2	3	..	..	7	Timothy F. Bradley.
Totals of all carts, sleds and wagons used. . . . .	202	30	47	10	46	16	33	20	128	

\* Contractors furnished their own teams.

LANDS AND BUILDINGS IN CHARGE OF THE SANITARY  
DIVISION.

*South Boston Stable. (Leased.)*

Stables and sheds, with accommodations for nineteen horses, located at 317 and 319 First street, South Boston.

*East Boston Stable. (Leased.)*

Stables and shed, with accommodations for fifteen horses, located at 324 East Eagle street and occupied jointly by Paving, Sewer, Street Cleaning and Sanitary Divisions.

*Charlestown Stable.*

With accommodations for twenty-five horses, situated on Rutherford avenue; lot contains 17,300 square feet of land; stable built in 1875, cost \$5,083.07; sheds and outbuildings built in 1879.

*Brighton.*

Accommodation was provided by the Sewer Division at its stable on Western avenue for two horses of the Sanitary Division. Discontinued July 15, 1908.

*Highland Stable.*

With accommodations for seventy-two horses on the old almshouse lot, Highland street, containing 81,082 square feet. A part of this stable and adjoining lot is used by the Paving Division. There is on this lot a brick stable, built in 1878, which cost \$88,594.13. On this lot is an offal shed, erected in 1875 at a cost of \$1,160.12. This offal shed was abandoned on April 1, 1897, and in 1900 part of it was remodeled and is now used as a carriage house and wash room.

*South City Stables, Shops and Sheds.*

Situated on Albany street, opposite Newton street. The lot belonged to the city before being used for this purpose, and contains 90,780 square feet of land.

The stables and buildings connected therewith are of brick. There are also on the premises five wooden sheds, used for storing wagons, etc. The stable is two stories high, with

French roof, and has accommodations for 100 horses. Twenty-three horses are kept in sheds. Total original cost, exclusive of land, \$79,089.23. In 1899 a veterinary hospital was built and equipped for the purpose of caring for sick and disabled horses.

Connected with stables are blacksmith, wheelwright, paint and harnessmaker's shops, in which wagons, carts, harnesses, etc., used by this and other departments are constructed and kept in repair, also a horseshoeing shop for shoeing the horses of the division located in this section of the city.

#### *West Stables and Sheds.*

The stable is a brick building, a story and a half high, 128 feet by 50 feet, located on North Grove street; built in 1860 without buildings attached to same. It has accommodations for ninety horses in stables and sheds. The lot contains about 45,152 square feet. On May 11, 1896, a horseshoeing shop was established for the purpose of shoeing horses of the division stabled in this section of the city.

#### *Fort Hill Wharf.*

Containing 21,054 square feet, placed in charge of the Sanitary Division; used as a dumping station for the city's garbage and refuse and as a mooring place for dumping boats and scows, which convey this material to sea and to the plant of the New England Sanitary Product Company. Cost of constructing platform and dredging dock, \$6,219.33. There are five Barney dumping boats which are in continual use and are towed to sea by the tugboat "Cormorant."

A portion of this wharf is used by the Street Cleaning Division as a locker for patrol push-carts, etc., and a part is in use by the Paving Division.

#### *Litchfield's Wharf. (Leased.)*

Situated at 466 to 470 Atlantic avenue, containing about 35,460 square feet. Leased from Jacob H. Hecht March 1, 1898, for a period of ten years. This wharf adjoins Fort Hill Wharf and is occupied in part by the New England Sanitary Product Company as a berth for their scows, and also by the buildings of the City Refuse Utilization Company for the disposal of waste and rubbish. This property is now owned by the Middlesex Trust. Lease extended from March 1, 1908, to December 1, 1908, and now running at will.

*Weighing Shed. (Hired.)*

Situated at the corner of Massachusetts avenue and Southamptton street. Rented from the Boston Consolidated Gas Company. Lot contains about 2,300 square feet of land.

*Wharf Property on Freeport Street, Dorchester.*

On Freeport street, Dorchester, wharf property containing 160,745 square feet, bought by the city for the Sanitary Division but never used.



APPENDIX F.

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REPORT OF THE DEPUTY SUPERINTENDENT OF  
THE SEWER DIVISION.

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BOSTON, MASS., February 1, 1909.

MR. GUY C. EMERSON,  
*Superintendent of Streets:*Dear Sir,—I submit herewith report of the Sewer Division  
for the year ending January 31, 1909.

Yours respectfully,

C. R. CUTTER,  
*Acting Deputy Superintendent.*

---

The work of the division is carried on under chapter 3, City Ordinances, 1908, and chapter 47, Revised Ordinances, 1898, and the following statutes:

Chapter 426—1897, as amended by 450—1899 and 268—1903.

Chapter 383—1903, as amended by 464—1907.

Chapter 485—1907.

Chapter 550—1907.

Chapter 204—1908.

Chapter 514—1908.

## THE DUTIES OF THE SEWER DIVISION.

Charge of the entire sewerage system of the city.

The care and maintenance of the pumping station, reservoirs, etc.

The designing and building of all sewers and surface drains and catch-basins and the maintenance of same after construction.

The collection of all entrance fees against such estates as have not paid any sewer assessment.

Making all plans for the assessments of betterment on account of sewer construction, as determined by the Street Commissioners.

The granting of permits to licensed drain layers to connect with common sewers and the inspection, plotting and recording of all such connections.

Total number of employees on pay roll February 1, 1908	857
Total number of employees on pay roll February 1, 1909	608
Total amount of weekly pay roll February 1, 1908,	\$12,608.11
Total amount of weekly pay roll February 1, 1909,	\$10,173.50
Total amount of monthly pay roll February 1, 1908	\$1,123.32
Total amount of monthly pay roll February 1, 1909	\$617.00
Average weekly pay roll, including monthly roll, for fiscal year amounted to	\$12,107.54
Charged as follows:	
* Maintenance	\$4,409 53
Sewerage works	3,093 20
Separate systems of drainage	4,604 81
	<u>\$12,107 54</u>
Average number of men employed	730
Average number of horses maintained by the division during the year	60
The rate of wages per day paid to common laborers	\$2.25

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\* Includes sums charged to { Sanitary Division . \$9,174.15  
Other divisions . 1,097.93

## Financial Statement from February 1, 1908, to January 31, 1909.

OBJECT.	Balances on Hand Feb. 1, 1908.	Appropriations, Loans and Transfers.	Revenue Received During the Year.	Total Credits.	Expenditures During the Year.	Balances on Hand Jan. 31, 1909.
Sewer Division .....	.....	\$350,000 00	\$2,142 14	\$352,142 14	\$351,162 41	* \$979 73
Sewerage Works .....	\$73,778 09	300,000 00	.....	373,778 09	322,482 32	51,295 77
Separate Systems of Drainage.....	176,597 47	655,000 00	.....	831,597 47	599,973 76	231,623 71
Totals .....	\$250,375 56	\$1,305,000 00	\$2,142 14	\$1,557,517 70	\$1,273,618 49	* \$282,919 48

\* Balance transferred to Ferry Division, \$979.73.

MAINTENANCE EXPENDITURES, FEBRUARY 1, 1908, TO  
JANUARY 31, 1909.

SEWER DIVISION.

*Improved Sewerage.*

Pumping station, inside . . . . .	\$58,548 65	
Pumping station, outside . . . . .	12,447 85	
Pumping station, engines . . . . .	27,328 05	
Pumping station, boilers . . . . .	16,205 83	
	\$114,530 38	
Moon Island . . . . .		12,236 72
Main and intercepting sewers . . . . .		15,872 67
Towboat . . . . .	\$16,570 58	
Less amount paid by Sanitary Division . . . . .	8,190 14	
		8,380 44
Office salaries . . . . .		3,000 00
		\$154,020 21

*Stony Brook.*

Maintenance . . . . .	* 5,685 88
-----------------------	------------

*Miscellaneous Maintenance Charges.*

Cleaning catch-basins . . . . .		52,771 59
Yard and lockers . . . . .		7,907 78
Employed at yards . . . . .		20,809 33
Horses, carts, harnesses, etc. . . . .	\$32,832 34	
Less amount earned by division teams . . . . .	15,578 21	
		17,254 13
Automobiles . . . . .		4,296 45
Garage, West Roxbury . . . . .		1,548 90
Cleaning sewers . . . . .		31,776 86
Office salaries . . . . .		16,643 83
Office expenses . . . . .		3,802 39
		\$316,517 35

Culverts, repairing and maintaining . . . . .	\$923 99	
Repairing department buildings . . . . .	1,111 23	
Repairing catch-basins, South Boston . . . . .	926 47	
Repairing catch-basins, East Boston . . . . .	174 74	
Repairing catch-basins, Charlestown . . . . .	1,355 75	
Repairing catch-basins, Brighton . . . . .	693 24	
Repairing catch-basins, West Roxbury . . . . .	156 73	
Repairing catch-basins, Dorchester . . . . .	2,296 02	
Repairing catch-basins, Roxbury . . . . .	2,284 71	
Repairing catch-basins, City Proper . . . . .	1,269 06	
Repairing sewers, East Boston . . . . .	1,022 74	
Repairing sewers, South Boston . . . . .	696 15	
Repairing sewers, Charlestown . . . . .	410 59	
Repairing sewers, Brighton . . . . .	1,248 01	
Repairing sewers, West Roxbury . . . . .	823 93	
Repairing sewers, Dorchester . . . . .	1,735 28	
Repairing sewers, Roxbury . . . . .	1,610 85	
Repairing sewers, City Proper . . . . .	1,419 96	
Repairing streets . . . . .	269 88	
		20,429 33
Fuel and oil . . . . .		1,310 42
		\$338,257 10

*Carried forward*

\* Includes cleaning Stony brook, \$1,528.85.

<i>Brought forward</i> . . . . .	\$338,257 10
Hardware, tools, etc. . . . .	1,930 75
Sundries . . . . .	381 16
Damages, claims and medical attendance . . . . .	2,851 70
Telephones not included elsewhere . . . . .	1,717 99
Examining and locating . . . . .	504 38
House connections . . . . .	5,807 17
Rubber goods . . . . .	457 50
Gatehouse, Fenway . . . . .	163 91
Corporation inspection . . . . .	741 00

*Miscellaneous Charges.*

Boston Consolidated Gas Company . . . . .	985 04
Transit Commission . . . . .	223 40
Water Department . . . . .	58 23
Boston Elevated Railway Company . . . . .	207 11
Edison Electric Illuminating Company . . . . .	1,201 67
Sanitary Division . . . . .	110 35
Finance Commission . . . . .	233 34
Boston & Maine Railroad . . . . .	136 22
Old Colony Street Railway . . . . .	73 36
City Hospital . . . . .	38 89
Boylston Market Association . . . . .	6 48
Suffolk County Courthouse . . . . .	9 18
Schoolhouse Commission . . . . .	18 10
Consumptives' Hospital . . . . .	151 97
	<u>\$356,266 00</u>

*Credit.*

Decrease of stock in yards . . . . .	\$1,736 75
Amount earned by division engines . . . . .	2,670 32
Northern avenue and Sleeper street, paid by Engineering Department . . . . .	696 52
	<u>5,103 59</u>
	<u>\$351,162 41</u>

*Amount Collected by City Collector and Credited to Appropriation for Sewer Division Maintenance, February 1, 1908, to January 31, 1909.*

New York, New Haven & Hartford Railroad . . . . .	\$1 87
Old Colony Street Railway Company . . . . .	78 11
Boston Consolidated Gas Company . . . . .	754 25
Edison Electric Illuminating Company . . . . .	471 42
Boston Elevated Railway Company . . . . .	327 92
Transit Commission . . . . .	174 67
Coughlan & Sheils Company . . . . .	14 00
Boston & Maine Railroad . . . . .	136 22
Schoolhouse Department . . . . .	18 10
City Hospital . . . . .	38 89
Courthouse . . . . .	10 82
Consumptives' Hospital . . . . .	115 87
	<u>\$2,142 14</u>
Appropriation for 1908-1909 . . . . .	\$350,000 00
Collections for 1908-1909 . . . . .	2,142 14
	<u>\$352 142 14</u>
Transfer by auditor to Ferry Division . . . . .	979 73
	<u>\$351,162 41</u>

## SEWERAGE WORKS.

February 1, 1908, to January 31, 1909.

Office salaries . . . . .	\$8,322 61	
Engineers' salaries . . . . .	53,750 10	
Engineers' expenses . . . . .	4,681 35	
Engineers' salaries and expense, Stony brook improvement . . . . .	2,291 52	
Miscellaneous, Stony brook . . . . .	191 42	
Land takings . . . . .	16,432 35	
Manholes, construction . . . . .	1,995 93	
Automatic gage, Hereford street . . . . .	505 94	
Sundries . . . . .	1,061 75	
Tickets . . . . .	400 00	
Stock . . . . .	630 92	
	<hr/>	\$90,263 89

## IMPROVED SEWERAGE — CONSTRUCTION.

Pumping station . . . . .	\$28,951 00	
Main and intercepting sewers . . . . .	2,803 93	
Moon Island . . . . .	778 32	
	<hr/>	32,533 25

## SEWERAGE WORKS — SEWER CONSTRUCTION.

South Boston. (Day Labor.)

A street, West First street to Mt. Washington avenue . . . . .	\$25,984 83	
West First street, Dorchester avenue to A street . . . . .	31,016 34	
	<hr/>	\$57,001 17

Contract.

Gold street, existing sewer to E street . . . . .	\$452 23	
Washburn street, Dorchester avenue to Boston street . . . . .	2,273 30	
	<hr/>	2,725 53
		59,726 70

East Boston. (Day Labor.)

Bennington street, Walley and Gladstone streets, connections, Bennington street, Leverett street to Revere line . . . . .	\$2,091 20	
Condor street, Putnam street to Brooks street . . . . .	136 27	
Cottage street, outlet . . . . .	570 30	
East Boston low level sewer, private land and streets, Austin avenue to Bennington street . . . . .	1,064 40	
Glendon street, Condor street to East Eagle street . . . . .	15,464 09	
Glendon and Putnam streets, interceptor, Section 2 . . . . .	1,213 99	
Putnam street, Condor street to White street . . . . .	20,398 85	
	2,347 81	
	<hr/>	43,286 91
Carried forward . . . . .	\$43,286 91	\$182,523 84

Brought forward . . . . . \$43,286 91 \$182,523 84

*Contract.*

Ashley street, Bennington street to Breed street . . . . .	\$1,618 11	
Border street, Central square to 170 feet north . . . . .	268 39	
Border street, Eutaw street to 160 feet southeast . . . . .	145 98	
Breed street, Leyden street to Gladstone street . . . . .	73 88	
Cleveland street, Prescott street to 200 feet east . . . . .	359 83	
Walley street, Leyden street to Orient avenue . . . . .	962 15	
	<hr/>	
		3,428 34
		<hr/>
		46,715 25

*Charlestown. (Contract.)*

Charles street place, off Charles street to end of place . . . . . 412 79

*Brighton. (Contract.)*

Western avenue, Rena street to North Harvard street . . . . . 951 84

*West Roxbury. (Day Labor.)*

Canterbury street, at Calder street, culvert . . . . . \$1,664 32

*Contract.*

Canterbury street, Talbot avenue high level-sewer to Paine street, Canterbury street, Calder street to Angell street . . . . .	\$1,807 77	
Canterbury street, Angell street to 140 feet west . . . . .	159 47	
Canterbury street, Angell street to 140 feet west . . . . .	41 30	
Centre street, Spring street to 100 feet northeast of Cottage avenue . . . . .	470 79	
Hawthorne street, Sycamore street to Heathcote street . . . . .	1,792 34	
Heathcote street, Hawthorne street to Poplar street . . . . .	283 61	
Kittredge street, Mayo street to 175 feet southwest . . . . .	588 93	
Mendum street, Walter street to 340 feet southeast . . . . .	71 58	
Neponset avenue, 60 feet west of Stony brook to 160 feet east . . . . .	188 98	
Poplar street outlet, Section 1 . . . . .	1,583 83	
Poplar street outlet, Section 2 . . . . .	3,594 17	
Poplar street outlet, Section 3 . . . . .	39 44	
Wachusett street, Weld Hill street to 630 feet southwest . . . . .	2,094 87	
Westover street, Dunbar street to existing sewer . . . . .	587 83	
	<hr/>	
		13,304 91
		<hr/>
		14,969 23

Carried forward . . . . . \$245,572 95

Brought forward . . . . . \$245,572 95

*Dorchester. (Day Labor.)*

Dakota street, Greenbrier street to Geneva avenue . . . . .	\$1,193 73	
Oakland brook, Rockdale street to railroad . . . . .	71 62	
Oakland brook, private land, Edgewater drive to River street . . . . .	32 56	
Freeport street brook, private land, from Bowdoin street to 265 feet east . . . . .	57 46	
Morton street, Lucerne street to Blue Hill avenue . . . . .	2,373 48	
	<u>          </u>	\$3,728 85

*Contract.*

Bellevue street, Hamilton street to Kane street . . . . .	\$1,107 15	
Bowdoin street, Draper street to Hamilton street . . . . .	270 74	
Codman street, Dorchester avenue to Washington street . . . . .	1,284 75	
Elmo street, existing sewer to Erie street . . . . .	232 58	
Favre street, Oakland street to 350 feet northeast . . . . .	2,399 10	
Hamilton street, existing sewer to Mt. Everett street . . . . .	1,120 87	
Harvard street, Hansborough street to Randolph avenue . . . . .	506 18	
Howard avenue, Cunningham street to Dalkeith street . . . . .	400 19	
Malta street, River street to Edgewater drive . . . . .	1,501 96	
North Munroe terrace, Neponset avenue to Train street . . . . .	1,090 00	
Payson avenue, Glendale street to 335 feet north . . . . .	2,184 91	
Randolph road, Rosewood street to Hollingsworth street . . . . .	1,000 93	
South Munroe terrace, Neponset avenue to Train street . . . . .	1,132 60	
Randolph road, Rosewood street to River street . . . . .	224 51	
Tokio street, River street to Edgewater drive . . . . .	1,169 47	
Train street, King street to South Munroe terrace . . . . .	944 07	
Wayland street, Hartford street to 170 feet northwest . . . . .	549 57	
Whitney park, existing sewer to 80 feet northeast . . . . .	337 05	
	<u>          </u>	17,456 63
		<u>          </u> 21,185 48

*Roxbury. (Day Labor.)*

Hoffman street, overflow in private land over Stony brook, southeast of Lamartine street, . . . . .	\$378 69	
Carried forward . . . . .	\$378 69	\$266,758 43



## STREET DEPARTMENT — SEWER DIVISION.

325

<i>Brought forward</i> . . . . .	\$378 69	\$266,758 43
Phillips street, Ward street to Longwood avenue . . . . .	1,309 27	
	<u>1,309 27</u>	\$1,687 96

*Contract.*

Ellis street, Fulda street to Haw- thorne street . . . . .	\$549 11	
Larkin street, Hampden street to Adams street . . . . .	178 04	
Seaver street, Harold street to Parkview street . . . . .	2,631 23	
Sherwood street, from Norfolk avenue to end of street . . . . .	662 62	
	<u>4,021 00</u>	5,708 96

*City Proper. (Day Labor.)*

Beacon street, Spruce street to Hancock avenue . . . . .	\$2,298 48	
Brighton street, Chambers street to Leverett street . . . . .	994 98	
Central street, India street to Broad street . . . . .	10,736 98	
Franklin and Broad streets . . . . .	16,555 42	
Morton street, Endicott street to Salem street . . . . .	714 61	
Myrtle street, Revere street to 100 feet south . . . . .	382 82	
Oak street, Harrison avenue to May place . . . . .	1,837 26	
Prince street and North End Playground . . . . .	1,063 18	
	<u>34,583 73</u>	

*Contract.*

Broad street, Custom House street to India square (paving) . . . . .	\$760 16	
Congress street, Franklin street to Milk street (paving) . . . . .	945 00	
Cooper street, Washington Street North to Endicott street . . . . .	97 58	
	<u>1,802 74</u>	36,386 47

## STONY BROOK CONDUIT.

*Contract.*

Section 2 . . . . .	\$781 29	
Section 4 . . . . .	601 55	
	<u>1,382 84</u>	

## NEW CATCH-BASINS.

South Boston . . . . .	\$491 24	
East Boston . . . . .	946 64	
Charlestown . . . . .	120 83	
Brighton . . . . .	862 23	
West Roxbury . . . . .	1,460 18	
Dorchester . . . . .	3,412 84	
Roxbury . . . . .	4,729 27	
City Proper . . . . .	222 39	
	<u>12,245 62</u>	
Total . . . . .	<u>\$322,482 32</u>	

SEPARATE SYSTEMS OF DRAINAGE, FEBRUARY 1, 1908, TO  
JANUARY 31, 1909.

Engineers' salaries . . . . .	*\$23,064 60
Engineers' expenses . . . . .	936 07
Sundries . . . . .	2,990 69

OLD STONY BROOK CHANNELS, BETWEEN BACK BAY  
FENS AND ELMWOOD STREET.

*Day Labor.*

Back Bay Fens to Bryant street, at Hemenway street, Section No. 1 . . . . .	\$31,822 85	
Across Huntington avenue . . . . .	19,480 18	
Rogers avenue, between Hunt- ington avenue and Ruggles street (test-pits) . . . . .	548 39	
Downing street, Old Whittier street to Vernon street . . . . .	4,752 85	
Vernon street to Linden Park street . . . . .	31,002 96	
Linden Park street to Elmwood street . . . . .	23,280 86	
	<hr/>	\$110,888 09

*Contract.*

Bryant street, Section 2 . . . . .	\$26,521 32	
Huntington avenue at Bryant street connection . . . . .	2,953 73	
Rogers avenue, Section 3 and part of Section 4 . . . . .	57,983 39	
Part of Section 4 . . . . .	17,444 55	
Section 5 . . . . .	52,611 82	
	<hr/>	157,514 81
		268,402 90

STONY BROOK.

*Day Labor.*

Canterbury branch, 630 feet south of Neponset avenue to Harvard street . . . . .	\$23,963 56
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ROSLINDALE BRANCH.

Railroad and Corey streets . . . . .	\$7,938 70	
Bellevue avenue to Belgrade avenue and extension to rail- road . . . . .	44,878 35	
Private land and Fresno street, One hundred and fifty feet northeast of Ashland street to Poplar street . . . . .	2,802 53	
	<hr/>	71,664 00

*Contract.*

Stony brook conduit in Meehan street and private land Williams street to 150 feet south of Lotus place . . . . .	55,681 20	
	<hr/>	151,308 76

*Carried forward* . . . . . \$446,703 02

STREET DEPARTMENT — SEWER DIVISION. 327

<i>Brought forward</i> . . . . .		\$446,703 02
Avenue Louis Pasteur, day labor . . . . .		2,166 02
Shepard brook, day labor . . . . .		39,868 21
Talbot avenue high level sewer, between Lyons street pumping station and Talbot avenue . . . . .	\$47,695 56	
Between Helen and Bernard streets . . . . .	<u>15,539 00</u>	
		63,234 56

EAST BOSTON.

*Day Labor.*

East Boston low level sewer . . . . .		3,717 74
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CHARLESTOWN.

*Day Labor.*

Miller and Lawrence streets . . . . .		524 70
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BRIGHTON.

*Contract.*

Corey road (balance contract 1905) . . . . .	\$69 05	
Commonwealth terrace, from Allston street to 300 feet west . . . . .	1,370.61	
Market street, Spring street to Wicklow street, . . . . .	<u>1,015 10</u>	
		2,454 76

WEST ROXBURY.

*Day Labor.*

Cotton street, Walter street to Fairview street . . . . .	\$2,295 37	
South street, Guernsey street to Centre street . . . . .	<u>1,288 30</u>	
		\$3,583 67

*Contract.*

Arden street, Belgrade avenue to Colberg avenue . . . . .	\$498 45	
Hewlett street brook, in private land between Robert street and Roslindale Playground . . . . .	1,003 84	
Mendum street, between Walter and Fairview streets and out- let . . . . .	3,829 11	
Neponset avenue brook, Mt. Hope street . . . . .	292 50	
Perkins street, Canterbury street to Grew avenue . . . . .	789 15	
Poplar street, Metropolitan ave- nue, etc. . . . .	12,541 36	
Richards avenue, Hyde Park avenue to Hyde Park line . . . . .	1,256 56	
Sycamore street, Florence street brook to Hawthorne street . . . . .	2,264 77	
West street, Orange street to Bellevue avenue . . . . .	534 22	
Williams street, Meehan street to Stedman street . . . . .	<u>6,808 35</u>	
		29,818 31
		<u>33,401 98</u>

<i>Carried forward</i> . . . . .		\$592,070 99
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Brought forward . . . . . \$592,070 99

DORCHESTER.

Day Labor.

Harlem street, Greenwood street to Glenway street . . . . . \$1,964 85

Contract.

Adams street, Minot street to Oak avenue . . . . .	\$45 50	
Corona street, Bowdoin street to Geneva avenue . . . . .	168 22	
Fremont street, River street to Norfolk street . . . . .	2,051 64	
Minot street, Adams street to Sheridan street . . . . .	476 02	
Old road, Glenway street to Elmo street . . . . .	39 00	
	<u>2,780 38</u>	4,745 23

ROXBURY.

Day Labor.

Whittier street, 20 feet north-west of Tremont street (test-pit) . . . . .	\$2 92	
Wyoming street, Wabeno street to Humboldt avenue . . . . .	774 47	
	<u>\$777 39</u>	

Contract.

Centre street, Amory street to Oakview terrace . . . . .	1,890 05	2,667 44
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CITY PROPER.

Day Labor.

Beacon street, Spruce street to Hancock avenue . . . . .	\$439 91	
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Contract.

Beacon street, Hereford street to Massachusetts avenue . . . . .	50 19	490 10
Total . . . . .		<u>\$599,973 76</u>

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\* Total amount of engineers' salaries charged to this appropriation, \$38,739.17.  
 As follows: General account.....\$23,064 60  
 To jobs.....15,674 57  
\$38,739 17

## Catch-basins Cleaned by Day Labor, 1908-09.

Districts.	Number Basins.	Cubic Yards Excavated.	Cubic Yards per Basin.	Labor.	Teams.	Excavating and Locating.	Miscellaneous.	Dumping.	Total.	Cost per Basin.	Cost per Cubic Yard.
1. South Boston.....	747	1,447	1.94	\$1,671 82	*\$863 50	\$30 00	.....	.....	\$2,565 32	\$3 42	\$1 77
2. East Boston.....	106	289	2.72	805 51	285 20	14 00	\$12 50	.....	1,117 21	10 54	3 87
3. Charlestown.....	562	1,404	2.50	1,877 13	955 50	16 00	18 87	.....	2,867 50	5 10	2 04
4. Brighton.....	147	421	2.86	779 17	339 50	.....	9 54	.....	1,128 21	7 67	2 68
5. West Roxbury.....	226	572	2.53	968 67	† 534 50	.....	13 57	.....	1,516 74	6 51	2 57
6. Dorchester.....	584	1,720	2.94	2,062 96	1,410 90	.....	.....	.....	3,473 86	5 95	2 02
7-8. Roxbury and city,	674	1,722	2.56	2,377 55	1,326 72	252 13	25 90	\$58 75	4,041 05	6 00	2 35
9-10. City Proper.....	707	2,181	3.08	2,510 70	† 1,292 25	192 25	30 50	\$ 405 00	4,430 70	6 19	2 00
Totals.....	3,753	9,756	2.60	\$13,053 51	\$7,008 07	\$504 38	\$110 88	\$463 75	\$21,140 59	\$5 63	\$2 17

\* \$7.50 paid 1909.

† \$45.00 paid 1909.

‡ \$41.25 paid 1909.

§ \$15.00 paid 1909.

Catch-basins Cleaned by Contract, 1908-09.

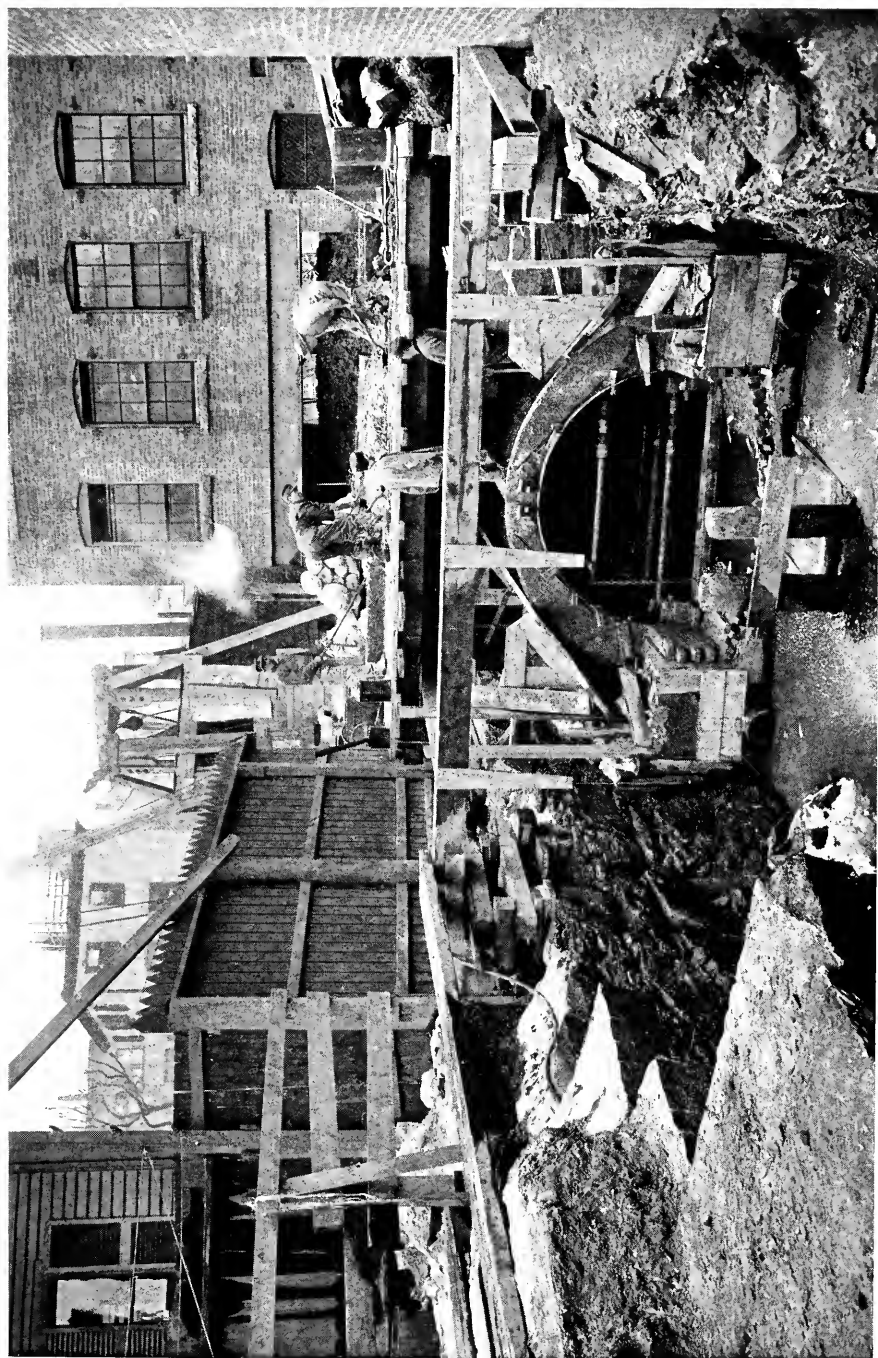
Districts.	Contractor.	Start and Finish of Contract.	Price per Cubic Yard.	Total Cubic Yards Excavated.	Contractor Paid.	Total Basins Cleaned.	Average Cubic Yards per Basin.	Contractor Average per Basin.	Inspection.	Average Cost to City per Basin.	Average Number Basins Cleaned per Day.
1. South Boston.	M. F. Gaddis.	{ July 16, 1908 } { Sept. 28, 1908 }	\$1 49	2,180.00	\$3,248 20	698	3.12	\$4 65	\$250 11	\$4 98	11.1
2. East Boston.	J. H. Ferguson.	{ July 13, 1908 } { Nov. 24, 1908 }	1 68	1,148.90	1,930 19	400	2.87	4 825	No charge.	4 825	3.6
3. Charlestown.	James F. Nyhan.	{ July 21, 1908 } { Sept. 23, 1908 }	1 33	563.80	749 85	200	2.82	3 75	\$168 00	4 59	3.6
4. Brighton.	Mark H. Lynch.	{ Aug. 4, 1908 } { Sept. 14, 1908 }	1 25	914.80	1,143 51	304	3.01	3 76	148 01	4 25	8.4
5. West Roxbury.	Mark H. Lynch.	{ July 16, 1908 } { Nov. 3, 1908 }	1 25	1,910.30	2,387 88	600	3.18	3 98	418 50	4 68	6.4
6. Dorchester.	James F. Murphy	{ July 10, 1908 } { Nov. 3, 1908 }	1 20	2,552.90	3,063 48	805	3.17	3 81	270 43	4 14	8.1
7-8. Roxbury and City Proper.	M. Doyle & Co.	{ June 19, 1908 } { Jan. 16, 1909 }	1 00	4,842.70	4,842 70*	1,486	3.26	3 26	1,512 63†	4 27	8.4
9-10. City Proper.	Mark H. Lynch.	{ June 15, 1908 } { Dec. 16, 1908 }	1 25	3,161.10	3,951 39	1,007	3.14	3 92	729 91	4 65	6.5

\* \$4,460.20 paid in 1908-09.

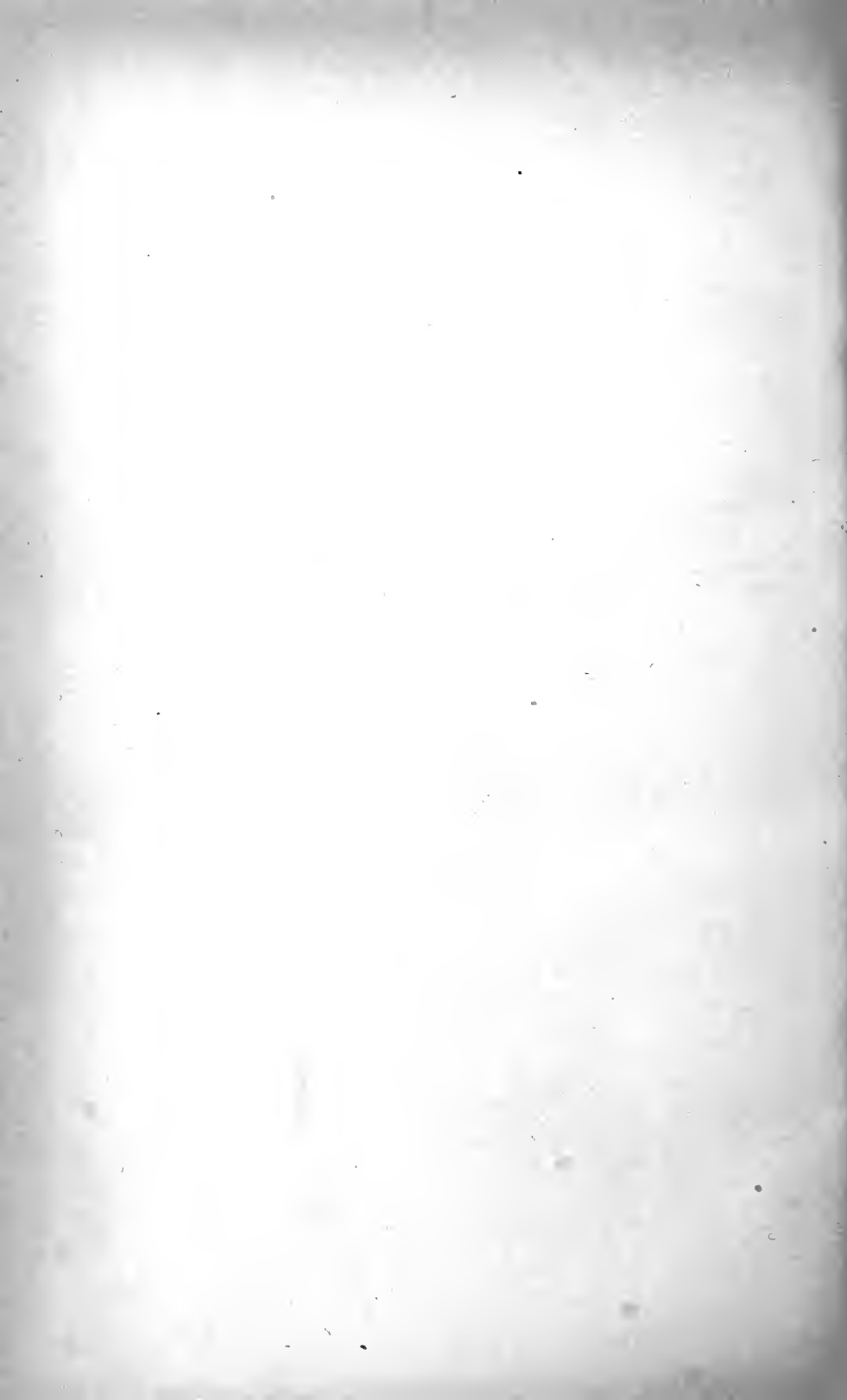
† \$4.55 paid in 1909.

Total basins cleaned.	5,500	Total Cost: Contractors	\$21,317 20
Total excavation.	17,274.5 cubic yards.	Inspection	3,518 89
Average per basin.	3.14 cubic yards.	Advertising and printing	51 89
		Miscellaneous	24 00

Average cost per basin.	\$4 53
Average cost per cubic yard.	\$1 44



8-FOOT BY 6-FOOT STONY BROOK CONDUIT, UNDER THE TOWER MANUFACTURING COMPANY'S BUILDING, ROXBURY.





**Sewerage Works.**  
*Expenditures, February 1, 1908, to January 31, 1909.*

ACCOUNTS.	Labor.	Teaming.	Materials.	Contracts.	Miscellaneous.	Total.
Engineers' salaries.....	\$53,750 10					\$53,750 10
Engineers' expense.....	1,520 53	\$138 88	\$155 23		\$2,866 71	4,881 35
Tickets, Boston Elevated Railway Company.....					400 00	400 00
Office salaries.....	8,322 61					8,322 61
Stock.....	630 92					630 92
Pumping station.....	6,238 26			\$21,502 74	1,210 00	28,951 00
Sundries.....					1,061 75	1,061 75
Main and intercepting sewers.....			2,803 93			2,803 93
Moon Island.....	750 82		27 50			778 32
Land takings and court executions.....					16,432 35	16,432 35
New manholes, entire city.....	1,093 66	313 39	588 88			1,995 93
New catch-basins, South Boston.....	116 86	56 75	159 42	158 21		491 24
New catch-basins, East Boston.....	78 20	86 75	215 75	565 94		946 64
New catch-basins, Charlestown.....			47 33	73 50		120 83
New catch-basins, Brighton.....	378 74	110 40	373 09			862 23
New catch-basins, West Roxbury.....	621 18	114 00	513 50	211 50		1,460 18
New catch-basins, Dorchester.....	827 77	247 75	1,292 91	1,044 41		3,412 84
New catch-basins, Roxbury.....	1,333 82	503 57	1,203 14	1,688 74		4,729 27
New catch-basins, City Proper.....	106 57	28 00	87 82			222 39
Automatic gage, Hereford street.....	435 93	10 50	59 51			505 94
<i>Carried forward.....</i>	\$76,205 97	\$1,609 99	\$7,528 01	\$25,245 04	\$21,970 81	\$132,559 82

## Sewerage Works.

Expenditures, February 1, 1908, to January 31, 1909.—Concluded.

ACCOUNTS.	Labor.	Teaming.	Materials.	Contracts.	Miscellaneous.	Total.
<i>Carried forward</i> .....	\$76,205 97	\$1,609 99	\$7,528 01	\$25,245 04	\$21,970 81	\$132,559 82
Stony brook:						
Engineers' salaries.....	1,880 32					1,880 32
Engineers' expense.....					411 20	411 20
Miscellaneous.....	8 75				182 67	191 42
Stony brook conduit, Section 2.....				777 67	3 62	781 29
Stony brook conduit, Section 4.....		24 50	19 50	557 55		601 55
Sewers built in entire city.....	85,844 56	11,135 78	55,855 93	33,220 45		186,056 72
Totals.....	\$163,939 60	\$12,770 27	\$63,403 44	\$59,800 71	\$22,568 30	\$322,482 32

## Separate Systems of Drainage.

Expenditures, February 1, 1908, to January 31, 1909.

ACCOUNTS.	Labor.	Teaming.	Materials.	Contracts.	Miscellaneous.	Total.
Engineers' salaries.....	\$23,064 60					\$23,064 60
Engineers' expense.....	307 89	\$15 75			\$612 43	936 07
Cleaning Stony brook.....	1,515 43	443 73	\$29 40			1,988 56
Weir, Stony brook.....	387 74	38 50	152 22			578 46
Sundries.....		32 99			390 68	453 67
Sewers built in entire city.....	218,779 19	23,242 91	113,258 98	\$217,701 32		572,982 40
Totals.....	\$244,054 85	\$23,773 88	\$113,440 60	\$217,701 32	\$1,003 11	\$599,973 76

## Catch-basins Built, 1908-09.

DISTRICTS.	Contract.	Day Labor.	REBUILT.	
			Contract.	Day Labor.
City Proper.....		2*		
Roxbury.....	7	17	2	2
Dorchester.....		16		
West Roxbury.....	5	11		
Brighton.....		8†		
Charlestown.....				
East Boston.....		1		
South Boston.....		5‡		2§

Total catch-basins built, 78.

\* One charged to Boston & Maine Railroad.  
† One paid by Paving Division.‡ Two charged to Edison Company.  
§ Charged with West First street sewer.

## Land-takings.

M. A. & C. J. Arthur <i>et als</i> .....	\$10,000 00	Relocation Stony brook, Washington street to Green street, Street Commissioners' award.
E. J. Lane .....	1,937 94	Foster street, Brighton, court execution.
W. C. Burt.....	372 00	River street, Street Commissioners' award.
N. M. Neil.....	175 00	Freeport street brook, court execution.
A. Brennan.....	150 00	Clifford street, Street Commissioners' award.
R. F. Scannell Company.....	2,559 96	Oakland brook, court execution.
Margaret Brooks.....	107 20	Canterbury branch, Stony brook, Street Commissioners' award.
Town of Brookline.....	750 00	Addington road.
James H. Morton.....	50 00	Neponset avenue, Street Commissioners' award.
L. Karle.....	330 25	Avondale place, Street Commissioners' award.
Total .....	\$16,432 35	

SEWERAGE WORKS LOAN.

New Catch-basins Paid for, February 1, 1908, to January 31, 1909. (Contract and Day Labor.)

District.	Built by	BUILT IN 1907.		BUILT IN 1908.		Total Expenditure.	Location.	Number Catch-basins Built.	Number Catch-basins Rebuilt.
		Contractor.	Materials, etc.	DAY LABOR COST.					
				Labor.	Material.				
New catch-basins, South Boston.	Built in 1907.	\$158 21	\$27 68	\$43 84	\$69 70		Dorchester avenue.	1	
New catch-basins, South Boston.	W. F. Lowe.			73 02	118 79		A street.	2	
New catch-basins, East Boston.	Built in 1907.	565 94	255 74	\$116 86	\$188 49	\$491 24	* Maverick street.	3	
New catch-basins, Charlestown.	Built in 1907.	73 50	47 83			946 64		1	
New catch-basins, Brighton.	A Pitts.			232 98	313 40	120 83	North Beacon street.	5	
				58 73	75 15		Montfern avenue.	1	
				87 03	94 94		Western avenue.	1	
New catch-basins, West Roxbury.	Built in 1907.	211 50	154 21	\$378 74	\$483 49	\$862 23		7	
New catch-basins, West Roxbury.	John Kelly.			171 18	142 35		Lamartine street.	2	
				261 90	226 60		Brookside avenue.	3	
				130 15	104 84		Canterbury street.	2	
New catch-basins, West Roxbury.	William Park.			57 95			* Canterbury street.	1	
				\$621 18	\$473 29	1,460 18		8	

New catch-basins, Dorchester.....	Built in 1907.....	1,044 41	754 36	62 06 51 20 57 50 339 76 74 75	255 50 57 50 401 09 72 21	3,412 84	Corona street..... Remington street..... Dakota street..... Blanche street.....	4 1 6 1
New catch-basins, Roxbury.....	Built in 1907.....	1,059 68	209 77	\$827 77	\$786 30		Crawford street.....	12
New catch-basins, Roxbury.....	P. F. Kelley.....			58 40 319 15 253 25 48 65 561 62 † 92 75	85 63 279 43 205 86 66 95 308 07 368 39		Dewey street..... Lawn street..... Texas street..... Linden park..... * Gerard street..... South Huntington avenue.....	1 4 2 1 8 7
New catch-basins, Roxbury.....	William J. Barry.....			\$1,475 78	\$1,354 98		South Huntington avenue.....	24
New catch-basins, City Proper.....	F. E. McCarthy.....	\$3,113 24	\$1,449 06	† 629 06 106 57 \$4,234 16	115 82 \$3,449 13	4,729 27 222 39 \$12,245 62	Washington and Cornhill.....	1

\*Not completed.

† Inspection.

‡ Built by contract.

## New Manholes Built, February 1, 1908, to January 31, 1909. (Day Labor.)

LOCATION.	Built by	Number.	Teaming.	Costr.		Total.
				Labor.	Material.	
Boylston and Church streets.....	A. Pitts.....	1	\$5 25	\$30 85	\$61 40	\$97 50
Eaton and North Russell streets.....	Thomas Clougherty.....	1	26 25	31 10	28 38	85 73
No. 3 Bishop street, West Roxbury.....	John Kelly.....	1	21 00	74 12	34 72	129 84
Florence street, West Roxbury.....	John Kelly.....	1	17 50	92 25	42 15	151 90
Riverside street, near Tremont street.....	A. Pitts.....	1	33 50	58 87	31 69	124 06
Grosvenor road, at Centre street.....	John Kelly.....	1	7 00	26 65	35 42	69 07
Fixeter street, corner Boylston street.....	F. E. McCarthy.....	1	18 25	63 58	33 55	115 38
Whittier street.....	P. F. Kelley.....	1	16 50	90 07	22 53	129 10
Passageway, near Greenwich park.....	P. F. Kelley.....	1	2 66	18 34	22 07	43 07
Albany street, at Ambulance station.....	P. F. Kelley.....	1	10 50	33 13	35 60	79 23
East Fifth street, between L and M streets.....	W. F. Lowe.....	1	29 75	91 85	37 73	159 33
Orchard street, near Eustis street.....	P. F. Kelley.....	1	21 84	38 83	31 44	92 11
Groton street.....	P. F. Kelley.....	2	7 88	42 90	80 68	131 46
Shawmut avenue.....	P. F. Kelley.....	1	5 88	59 87	24 81	90 56
Leedsville street.....	William Park.....	1	8 75	16 82	16 80	42 37
Lime street.....	F. E. McCarthy.....	* 2	12 00	57 38	.....	69 38
Dudley and Dana streets.....	P. F. Kelley.....	1	59 25	123 55	50 54	233 34
Prescott street, 50 feet north of Lexington street.....	John Conry.....	* 1	.....	117 25	.....	117 25
Cabot street.....	P. F. Kelley.....	* 1	.....	26 25	.....	26 25
Totals.....	.....	21	† 9 00	\$1,093 66	\$589 51	\$1,995 93

\* Cost not complete.

† Teaming done in 1907.

**SEWERAGE WORKS.**

**SEWERS AND SURFACE DRAINS BUILT BY THE CITY, FEBRUARY 1, 1908, TO JANUARY 31, 1909.**

City Proper.

Location.	Built by	Engineer's Preliminary Estimate	Amount of Contractor's Bid.	Number of Inlets.	Begun.	Finished.	Cost, 1908-9		Turning Included in Cost.	Cost Excessive to Estimate by February 1, 1908.	Total Cost.	Dimensions.	Kind.	Average Cut.	Character of Soil.	Notes.	
							Labor.	Total.									
<i>Day Labor.</i>																	
Oak street, from Harrison avenue to May place	P. T. Kelley	\$1,829 22			July 22, 1908	Sept. 26, 1908	\$1,689 90	\$1,837 26	\$240 31		\$1,837 26	173 77 ft. 2 ft. by 4 ft. 14 in.	Concrete	7 1/2 feet	Clay	Sewerage works	
Central street, from Indiana street to Broad street.	F. E. McCarthy	6,600 01			July 14, 1908	Nov. 5, 1908	6,290 94	10,736 98	767 15		10,736 98	222 32 ft. 3 ft. 9 in. by 3 ft. 14 in.	Brick	15 feet	Filling and gravel	Sewerage works	
Franklin and Broad streets.	F. E. McCarthy	19,557 07			Mar. 20, 1908	Aug. 27, 1908	6,294 75	16,555 42	1,366 50		16,555 42	705 80 ft. 30 in. by 36 in.	Brick.	14 feet	Clay and filling.	Sewerage works	
Beacon street, from Science street to Hancock avenue	Thomas Closeberry				Dec. 6, 1907	Feb. 17, 1908	668 95	2,298 48	400 25	\$3,058 11	\$5,796 90	7 34 ft. 12 in. by 20 3/4 ft. 15 in.	Pipe	14 feet	Clay and gravel	Sewerage works separate systems of drainage	
Houghton street, from Chatham street to Levere street	J. T. Owen				Nov. 1, 1907	Jan. 8, 1908		993 98	73 75	4,263 11	5,258 12	Built in 1907.				Sewerage works	
Morton street, from Ludlow street to Salem street	Thomas Chazyberry				Oct. 16, 1907	Dec. 5, 1907		714 61	42 60	4,685 40	5,400 01	Built in 1907				Sewerage works	
Ermine street, from Endicott playground	Thomas Chazyberry				July 24, 1907	Oct. 18, 1907		1,063 48		10,070 13	11,133 61	Built in 1907.				Sewerage works	
Mertle street, from Levere street to 100 feet south.	F. E. McCarthy	420 00			April 28, 1908	May 8, 1908	256 66	382 82	33 50		382 82	100 8 ft. 15 in.	Pipe	8 1/2 feet	Clay and gravel	Sewerage works	
<i>Contract.</i>																	
Congress street, from Franklin street to Milk street	J. E. Burns Company				July 9, 1908	July 16, 1908		945 00			945 00	Paving, 375 sq. yds. at \$2.50.					Sewerage works
Broad street, from Canton House street to India square	D. E. Lynch				Nov. 3, 1908	Dec. 7, 1908		700 16			747 30 ft. at \$1.90, 22 sq. yds. flag paving at \$1.40						Sewerage works
Casper street, from Washington street North to Endicott street	M. H. Lynch				Aug. 14, 1908	Oct. 9, 1907		97 78		4,794 54	4,892 19	Built in 1907.					Sewerage works
Totals.							\$17,361 17	\$30,386 47									

\* Includes \$439.91 on separate systems of drainage sheet. † Contract by Paving Division. ‡ Not completed.

**Roadbury.**

<i>Day Labor.</i>																	
Huffman street, private land, over Stone brook to north-end of Laminator street	A. Pitts				Oct. 28, 1907	Feb. 21, 1908	\$310 71	\$378 69	\$8 75	\$424 38	\$80 07	9 55 ft. 12 in.	Pipe.	8 7/8 feet	Gravel	Sewerage works	
Phillips street, from Ward street to Longwood avenue	P. F. Kelley	\$1,016 39			July 22, 1908	Aug. 18, 1908	680 88	1,309 27	118 70		1,809 27	237 03 ft. 24 in.	Pipe.	9 feet	Gravel.	Sewerage works.	
<i>Contract.</i>																	
Seaver street, from Handel to Parkway street	Joseph J. Conley				Jan. 3, 1908	April 2, 1908	210 00	2,631 23	5 25	61 00	2,694 23	203 5 1/2 ft. 12 in. by 20 1/2 ft. 12 in.	Pipe	8 1/2 feet	Block and gravel	Sewerage works	
Larkin street, from Hampden to Adams street	James P. Collins				Nov. 4, 1907	Dec. 26, 1907		378 01	41 25	1,554 07	1,932 11	Built in 1907.					Sewerage works
Ellis street, from 1/4 way in Hasbroune street	George J. Regan				Jan. 2, 1908	June 10, 1908	24 50	539 11			549 11	175 40 ft. 10 in.	Pipe	9 5/8 feet	Block and gravel.	Sewerage works	
Sherwood street, from Norfolk avenue to end of street	J. Guarano	1,720 00	\$1,231 54	5	Nov. 2, 1908	Nov. 10, 1908	82 00	662 62			303 64 ft. 12 in.	Pipe	8 2 feet	Soft gravel and sand	Sewerage works		
Totals.							\$1,278 00	\$5,770 06									

\* Not completed.

**Dorchester.**

<i>Day Labor.</i>																	
Oakland brook, from Edgewater drive to River street	William Park				June 21, 1907	Nov. 4, 1907		842 56		\$28,618 22	\$28 059 75	Built in 1907					Sewerage works
Oakland brook, from Brookdale street to railroad	William Park				Aug. 30, 1906	June 20, 1907		71 62		5	\$1,627 42	Built in 1907					Sewerage works
Frontport street, brook, from Bowdoin street 263 feet east	William Park				Oct. 3, 1907	Jan. 1, 1908		57 16		5,669 56	5,727 05	Built in 1907.					Sewerage works
Morton street, from Burrone street to Blue Hill avenue	William Park	\$1,961 54			Mar. 18, 1908	May 7, 1908	\$1,526 24	2,373 48	\$146 88		2,373 48	380 ft. 12 in.	Pipe	9 5 feet	Clay, rock and gravel	Sewerage works	
Holy street, from Greenfield street to Geneva avenue	William Park	722 25			June 12, 1908	July 9, 1908	803 91	1,103 75	72 75		1,683 73	322 35 ft. 12 in. by 19 ft. 10 in.	Pipe, catch basin open	6 7/8 feet	Gravel and sand	Sewerage works	
<i>Contract.</i>																	
Bowdoin street, from Dwyer street to Hamilton street	D. E. Lynch				Dec. 26, 1907	Jan. 8, 1908		270 74	7 45	423 94	764 67	Built in 1907					Sewerage works
Mills street, from River street to Edgewater drive	J. J. Conroy				Dec. 23, 1907	April 7, 1908	154 10	1,301 96	11 37	96 88	1,508 84	257 41 ft. 12 in.	Pipe	10 feet	Very wet sand and gravel.	Sewerage works	
Fayson avenue, from Gowhale street 345 feet north	J. J. Murphy				Dec. 30, 1907	April 25, 1908	291 75	2,184 93	13 17	79 25	2,264 16	256 50 ft. 12 in.	Pipe.	10 feet	Block and gravel	Sewerage works	
Edgewater street, from River street to Edgewater drive	H. Marr & Son				Dec. 19, 1907	Feb. 10, 1908	52 50	1,109 47	4 63		1,312 07	Built in 1907					Sewerage works
Handolph road, from Rowland street to Holdingsworth street	M. H. Lynch				Jan. 1, 1908	Feb. 20, 1908	115 50	1,081 93	14 38	63 00	1,163 83	125 5 ft. 12 in.	Pipe.	10 feet.	Hard ledge, sand and gravel.	Sewerage works	
Handolph road, from River street to Bowwood street	F. H. Cowan Company				Sept. 16, 1907	Dec. 21, 1907		224 51		2,658 76	2,281 27	Built in 1907					Sewerage works
Lyons street, from Oakland street 356 feet northeast	M. H. Lynch				Dec. 31, 1907	Feb. 24, 1908	139 01	2,109 10	14 00	124 50	2,323 60	149 5 1/2 ft. 2 ft., circular 35 ft. 12 in.	Brick Pipe	5 feet, 5 feet	Gravel, clay and sand	Sewerage works	
Bellvue street, from Hamilton street to Kaseo street	H. T. Bowers				Dec. 30, 1907	Feb. 22, 1908	84 00	1,107 15	10 50	339 32	1,646 47	90 ft. 10 in. by 100 65 ft. 12 in. by 15 ft. 10 in.	Pipe, catch basin open	13 1/2 feet, 7 feet	Gravel, sand and rock	Sewerage works	
Limo street, from existing sewer authority to Eric street	F. F. Maean	325 00	\$174 90	13	May 15, 1908	May 28, 1908	38 50	232 58			232 58	56 41 ft. 10 in.	Pipe	8 feet	Gravel.	Sewerage works	
Hamilton street, from existing sewer westerly to Mc Everett street	George J. Regan	1,045 00	\$73 28	15	June 11, 1908	July 20, 1908	136 23	1,120 87	1 75		1,120 87	175 20 ft. 10 in.	Pipe.	10 feet	Ledge	Sewerage works	
Hawthorn street, from Hancock street to Randolph avenue	George J. Regan	815 00	615 11	20	May 12, 1908	May 20, 1908	28 00	506 18			506 18	250 ft. 12 in.	Pipe.	9 1/2 feet	Sand and gravel.	Sewerage works	
Howard avenue, from Cunningham street to Dalkent street	George J. Regan	615 00	337 38	20	May 20, 1908	May 25, 1908	14 00	400 19			400 19	208 45 ft. 12 in.	Pipe	6 feet.	Sand	Sewerage works	
Whitney park, from existing sewer 80 feet north-easterly	George J. Regan	520 00	294 31	12	May 10, 1908	June 3, 1908	26 25	337 05			337 05	78 45 ft. 12 in.	Pipe	10 1/2 feet.	Solid rock	Sewerage works	
Train street, from King street to North Vernon terrace	John Guarano	1,920 00	709 67	10	Sept. 20, 1908	Oct. 31, 1908	87 50	944 07			944 07	301 37 ft. 12 in.	Pipe.	9 feet.	Hard-pan	Sewerage works	
Delman street, from Dorchester avenue to Washington street	John Bowles	3,184 00	1,715 60	11	Oct. 26, 1908	Dec. 8, 1908	127 75	1,284 75			1,284 75	109 72 ft. 12 in.	Pipe.	11 feet.	Hard-pan	Sewerage works	
Wayland street, from Hartford street 420 feet north-west	H. H. Connolly	750 00	365 05	11	Nov. 9, 1908	Dec. 17, 1908	122 50	519 57	8 00		519 57	170 30 ft. 10 in.	Pipe.	5 1/2 feet.	Sand and rock	Sewerage works	
North Vernon terrace, from Newport avenue to Train street	Timothy McCarthy	2,130 00	1,067 10	11	Nov. 14, 1908	Dec. 28, 1908	88 00	1,600 10			1,600 10	88 30 ft. 12 in.	Pipe.	9 1/2 feet.	Hard-pan	Sewerage works	
South Vernon terrace, from Newport avenue to Train street	Timothy McCarthy	2,324 00	1,197 13	11	Nov. 27, 1908	Jan. 4, 1909	\$1 00	1,132 90	1 50		1,132 90	92 16 ft. 12 in.	Pipe.	9 5 feet.	Hard-pan	Sewerage works	
Totals.							\$10,996 66	\$21,185 48									

\* Not completed.

**West Dorchester.**

## West Roxbury.

Day Labor		Contractor	Date	Description	Quantity	Unit	Value	Remarks	Material	Depth	Soil	Use		
Canterbury street, at Calder street	William Park												\$618 00	Oct. 30, 1908
Contract.														
Poplar street, outlet, Section 1	F. Wilhaus Company		Dec. 3, 1908	Dec. 5, 1907	1,583 83		\$12,966 80	14,550 63	Built in 1906 and 1907.				Sewerage works.	
Poplar street, outlet, Section 2	Trinmont Contracting Co.		Oct. 14, 1907	Mar. 16, 1908	212 50	3,594 17	15 73	3,214 96	* 39 76 ft. 24 in. 233 36 ft. 24 in.	Brick Pipe.	11.3 feet. 6.9 feet.	Clay and gravel.	Sewerage works.	
Poplar street, outlet, Section 3	M. H. Lynch.		Oct. 16, 1907	Nov. 7, 1907		39 14		2,296 84	2,338 28	Built in 1907.			Sewerage works.	
Wolcott street, from Danaher street to existing street.	William L. Dolan		Nov. 27, 1907	Jan. 20, 1908	14 00	587 83	3 50	1,522 73	2,116 88	Built in 1907.			Sewerage works.	
Canterbury street, from Angell street to 140 feet west.	A. O'Farlo		July 29, 1907	Aug 23, 1907		41 30		664 96	706 29	Built in 1907.			Sewerage works.	
Canterbury street, from Calder street to Angell street	George J. Regan		Dec. 2, 1907	Dec. 31, 1907		139 47	6 50	396 80	756 36	Built in 1907.			Sewerage works.	
Canterbury street, from Talbot avenue high level to Fair street	George H. Noone		Dec. 19, 1907	Feb. 25, 1908	95 00	1,897 77	14 00	846 03	2,093 80	156 08 ft. 12 in.	Pipe	11 8 feet.	Sand and gravel.	Sewerage works.
Washington street, from West Main street to West Main street	William T. Barry		Oct. 18, 1907	April 7, 1908	127 00	2,094 87	3 59	1,306 74	3,401 61	43 60 ft. 10 in.	Pipe	10 8 feet.	Gravel and rock.	Sewerage works.
Newport avenue, from 60 feet west of Stony Brook to 60 feet east.	M. H. Lynch.		Nov. 21, 1907	Dec. 31, 1907		188 08	12 01	572 80	761 87	Built in 1907.			Sewerage works.	
Hawthorne street, from Symonds street to Hawthorne street	Bruno & Pettini		Dec. 19, 1907	Jan. 18, 1908		1,792 34	29 75	92 15	1,884 40	Built in 1907.			Sewerage works.	
Hawthorne street, from Hawthorne street to Hooper street	W. L. Dolan		Jan. 3, 1908	Jan. 30, 1908	21 00	283 61	8 75	369 86	833 50	Built in 1907.			Sewerage works.	
Kittredge street, from 45 feet northeast of Mayo street to 42 1/2 feet southeast.	Trinmont Contracting Co.		Jan. 2, 1908	Jan. 30, 1908	42 00	588 93	7 60	63 00	651 90	Built in 1907.			Sewerage works.	
Centre street, from Spring street to 100 feet northeast of Village avenue	A. O'Farlo		Aug. 24, 1907	Dec. 5, 1907		470 79		3,447 23	4,288 02	Built in 1907.			Sewerage works.	
Medford street, from Walter street to 240 feet south-east	George J. Regan		Nov. 13, 1907	Dec. 7, 1907		71 58		726 84	798 42	Built in 1907.			Sewerage works.	
Totals					\$1,676 97	\$14,969 23								

\* Not completed.

## Charlestown.

Contract		Contractor	Date	Description	Quantity	Unit	Value	Remarks	Material	Depth	Soil	Use		
Charles street place, Charles street to end of place	Thomas A. Nolan												\$1,280 00	\$481 35

## Brighton.

Contract		Contractor	Date	Description	Quantity	Unit	Value	Remarks	Material	Depth	Soil	Use		
Western avenue from North Harvard street	T. J. Young Company													Dec. 17, 1907

## East Boston.

Day Labor		Contractor	Date	Description	Quantity	Unit	Value	Remarks	Material	Depth	Soil	Use		
East Boston low level sewer, private fund and streets, from Austin avenue to Bevington street.	J. Conroy													May 17, 1907
Gloucester and Putnam streets, intercept Section 2	J. Conroy	\$17,363 50		June 16, 1908	Nov. 27, 1908	12,417 15	20,309 85	961 92	29,398 85	816 38 ft. 12 in. 432 80 ft. 13 in. 48 ft. 16 in. iron.	Pipe	13 9 feet	Filling, silt and clay	Separate systems of drainage.
Bennington street, from Lovett street to Revere line.	J. Conroy		June 16, 1908	June 25, 1908	90 38	176 27	8 75	136 27	24 1/2 ft. 12 in. 29 1/2 ft. 8 ft. wood	Pipe	7 7/8 feet, pipe 4 3/8 feet, wood.	Sand clay filling, gravel and peat	Sewerage works.	
Bennington street, Walley street and Glastonbury street	J. Conroy		July 16, 1908	Dec. 24, 1908	4,315 10	2,694 20	365 38	2,094 29	Connectors.				Sewerage works.	
Gloucester street, from Canby street to East English street	J. Conroy	4,196 25		Dec. 3, 1908	Jan. 7, 1909	984 21	1,219 90	60 60	† 413 10 ft. 12 in. 74 ft. 10 in.	Pipe, cast-iron connection	8 feet	Clay	Sewerage works.	
Putnam street, from Canby street to White street	J. Conroy	2,275 00		Dec. 11, 1908		2,277 21	2,347 81	69 00	† 11 1/2 ft. 10 in. 609 63 ft. 12 in.	Pipe, cast-iron connection	7 5 feet	Clay	Sewerage works.	
Collage street outlet	J. Conroy		Mar. 1, 1909	July 23, 1908	552 11	1,064 40	31 50	1,068 40	280 ft. 2 ft. 4 in. by 3 ft.	Box			Sewerage works.	
Canby street, from Putnam street to Brooks street	J. Conroy	1,830 00		Jan. 15, 1908		670 36	570 36		† 150 ft. 12 in.	Pipe	6 9 feet	Clay	Sewerage works.	
Contract														
Cherland street, from Prescott street 200 feet east	A. M. Casark	691 00	\$488 70	5	July 9, 1908	July 24, 1908	45 00	359 83	339 83	200 87 ft. 10 in.	Pipe	12 2 feet	Clay	Sewerage works.
Athlet street, from Benjamin street to Bevel street	G. M. Byrne Company	3,635 00	2,072 50	6	Oct. 5, 1908	Nov. 2, 1908	70 00	1,638 11	1 75	† 700 ft. 10 in.	Pipe	9 feet	Filling, peat, sand, gravel and clay	Sewerage works.
Walley street, from Leaden street to Trent avenue	Kennedy & Gaddin	1,890 00	1,044 03	8	Oct. 19, 1908	Nov. 30, 1908	91 00	962 15		† 551 11 ft. 12 in.	Pipe	13 feet.	Hard clay	Sewerage works.
Boyle street, from Luntaw street to 100 feet southeast	C. P. Condon					145 94	6 00	378 33	524 31	Built in 1907.			Sewerage works.	
Boyle street, from southern side Central square to 170 feet north	Santella & Russo				42 00	288 39	34 00	269 17	637 56	Built in 1907.			Sewerage works.	
Bevel street, from Leaden street to Glastonbury street	P. A. McIntyre					73 88		809 28	883 16	Built in 1907.			Sewerage works.	
Totals					\$20,267 90	\$36,715 25								

\* Includes \$3,117 74 on separate systems of drainage street

† Not completed.

## South Boston.

Day Labor		Contractor	Date	Description	Quantity	Unit	Value	Remarks	Material	Depth	Soil	Use			
West End street, from Duncker avenue to A street.	W. F. Lowe												\$13,041 01	\$4,010 34	\$2,878 00
A street, from West End street to Mt. Washington street extension	W. F. Lowe	\$38,526 50			16,270 69	25,584 83	2,176 82		* 396 ft. 42 in. by 36 in. 782 ft. 24 in.	Concrete Pipe	6 3 feet 14 5 feet	Gravel silt filling	Sewerage works.		
Contract															
Washington street, from Boston street to Duncker avenue	M. H. Lynch	2,617 00	\$1,619 80	12	Feb. 28, 1908	April 16, 1908	147 00	2,273 30	5 25	2,273 30	47 80 ft. 42 in. 33 ft. 10 in. 297 ft. 8 ft.	Pipe Pipe, cast-iron New house drain Old house drain	10 3 feet 9 feet 10 feet 9 feet 8 feet	Gravel and sand	Sewerage works.
Gold street, existing sewer southeast to F street	W. J. Rafferty Company	446 00	384 40	9	May 18, 1908	May 26, 1908	24 50	482 23		482 23	18 ft. 6 in. 162 90 ft. 12 in.	House drain Pipe	9 feet 8 feet	Gravel and sand.	Sewerage works.
Totals					\$40,383 81	\$60,726 70									

\* Not completed.





Dorchester.

Day Labor																			
Tribut sewer, high level sewer between Lyons street, Thompson station and Franklin Park.	William Park			Oct 31, 1907	Oct. 30, 1908	\$38,494.54	\$47,693.56	\$4,199.01	\$12,927.18	\$59,722.64	8 ft. 11 ft. 3 in. by 3 ft. 6 in., circular	Brick	20 feet.	Leige, clay and gravel.	Separate systems.				
Tribut sewer, high level sewer, Helen street to Burnside street.	William Park	\$14,768.54		Sept 22, 1908	Jan 14, 1909	11,996.63	15,539.93	1,615.24		15,539.19	8 ft. 2 ft. 2 in. by 3 ft. 6 in. 10 ft. 2 ft. 5 in. by 3 ft. 6 in. 14 ft. 10 in. by 3 ft. 6 in. 20 ft. 12 in.	Concrete Concrete Pipe Pipe	16 feet.	Leige, sand and clay.	Separate systems.				
Helen street from Greenwood street to Glenway street.	William Park	1,485.25		July 17, 1908	Aug 13, 1908	1,399.91	1,064.85	173.00		1,064.85	9 ft. 10 ft. 12 in. 3 ft. 10 in.	Pipe Pipe, catch-basin drain	6 7 feet.	Sand and gravel	Separate systems				
Contract																			
Fremont street, from River street to Norfolk street	Tronout Contracting Co.			Dec. 31, 1907	April 9, 1908	211.75	2,051.64	12.63	242.64	2,291.24	8 1/2 ft. 15 in. 255 1 ft. 12 in	Pipe Pipe	7 9 feet 7 6 feet	Leige, gravel and sand.	Separate systems				
Adams street, from Miller street to Oak avenue	T. J. Javela Company			Aug. 24, 1907	Oct. 15, 1907		45.56		2,862.91	2,908.47	Built in 1907								
Main street, from Adams street to Sheridan street	T. H. Connolly			Sept. 5, 1907	Nov. 13, 1907		479.62	7.75	6,270.85	6,740.47	Built in 1907								
Old road, from Oldway street to Elm street.	James F. Murphy			Nov. 20, 1907	Nov. 20, 1907		39.00		315.29	354.29	Built in 1907.								
Garson street, from Garson avenue to Bondum street.	T. H. Hranley			Aug. 6, 1907	Sept. 1, 1907		168.22	1.75	1,792.00	1,960.22	Built in 1907								
Totals.						\$44,032.83	\$67,979.79												

West Roxbury.

Day Labor																			
Roadside branch, Stony Brook private land, 150 feet northeast from Ashland street to Poplar street.	John Kelly	\$25,000.00		Oct 7, 1908		\$11,744.48	\$18,044.42	\$698.25	*		155 ft. x 11 1/2 in. by 6 ft. 9 in. 211 ft. x 11 1/2 in. by 3 ft. 6 in., circular 12 ft. 20 in.	Concrete Concrete Iron pipe Pipe	16 feet. 10 6 feet.	Gravel and clay Leige and boulders	Separate systems.				
Roadside branch, Stony Brook in private land and streets, Billerica avenue to Middlebury avenue and extension to railroad	John Kelly	55,713.04		Dec 27, 1907	Oct 1, 1908	29,120.07	44,873.35	1,895.50	\$4,663.44	\$49,434.21	1,168.29 ft. 7 ft. 24 ft. 12 in. 296.79 ft. 12 in.	Concrete Iron pipe Pipe	111 feet.	Gravel and clay Leige and boulder	Separate systems				
Roadside branch, Stony Brook, Railroad street from Wilbur street to Core street.	John Kelly	6,544.00		July 22, 1908	Oct. 17, 1908	4,219.66	7,938.70	390.00		7,938.70	23 1/2 ft. 20 in 318 ft. 20 in.	Pipe Concrete	53 feet.	Clay and gravel	Separate systems.				
Roadside branch, Stony Brook private land and Trees street from Boston street to Bellevue avenue	John Kelly			May 2, 1907	Dec 29, 1907		2,802.53	264.00	50,647.14	53,449.55		Built in 1907							
Cantabury branch, Stony Brook, 630 feet south of Newport avenue to Harvard street.	William Park	24,541.00		Aug 5, 1908		18,820.04	23,063.58	1,479.25			3,723 ft. open trench 48 ft. 13 1/2 in. by 9 ft. 6 in.	Concrete	8 feet	Sand and clay. Gravel and stamps	Separate systems.				
Cotton street, from Water street to Farrow street	John Kelly	1,879.70		June 22, 1908	July 22, 1908	1,563.97	2,295.37	143.25	2,295.37	2,295.37	48 ft. 10 in. 744 ft. 12 in.	Pipe, catch-basin drain Pipe	6 6 feet. 13 3 feet.	Clay. Clay and gravel	Separate systems				
South street, from Garney street to Centre street.	John Kelly	1,085.00		Sept 28, 1908	Oct 15, 1908	1,082.86	1,288.30	72.00	1,288.30	1,288.30	310 20 ft. 10 in.	Pipe	13 3 feet.	Clay and gravel	Separate systems				
Contract																			
Symphony street, from Florence street brick to Hawthorne street	A. C. Fals			Dec 31, 1907	April 13, 1908	347.50	2,264.77	5.25	131.50	2,696.07	128 ft. 2 ft. 95 ft. 10 in	Brick Pipe, catch-basin manometer	10 2 feet	Sand, gravel and peck	Separate systems.				
Headley street brick private land, Robert street to Roadside Plantation	W. J. Barry			Nov 11, 1907	May 16, 1908	70.25	1,063.81	44.25	3,442.92	4,446.76		Built in 1907							
Newport avenue brick, 165 feet north-west to Bradstreet avenue	T. J. Shea			June 12, 1907	Sept 28, 1907		292.50		5,741.14	6,033.64		Built in 1907							
Perkins street, from Cantabury street to Green avenue.	DeMarco & Carrillo	1,950.00	\$776.07	11	Oct 12, 1908	Nov 13, 1908	749.15	19.00			650 ft. 10 in	Pipe	10 2 feet	Sand and gravel	Separate systems.				
Dollar street, Metropolitan avenue James street, South street and private land	Thomas A. Nolan	28,570.00	\$6,565.25	8	Oct 16, 1908		2,140.94	12,564.30	32.25		6,019 ft. 10 in 1,215 ft. 12 in 1,215 ft. 15 in	Pipe Pipe Pipe	11 3 feet 13 3 feet 14 1 feet	Brick, gravel and clay	Separate systems				
West street from Orange street to Billerica avenue	A. C. Fals	900.00	\$27.32	6	Oct. 19, 1908	Nov 4, 1908	65.90	531.22	1.75		215 ft. 5 in. 10 in	Pipe	10 feet	Gravel, sand and clay	Separate systems				
Andra street, from Bright avenue to Collins avenue	A. M. Casark	798.00	\$421.60	7	Oct. 19, 1908	Nov 7, 1908	97.41	198.45	3.50		498.45 290 6 2 ft. 10 in	Pipe	9 9 feet	Clay	Separate systems				
Harvard avenue from Hyde Park avenue to Hyde Park line.	A. M. Casark	2,588.02	\$1,431.00	11	Oct. 19, 1908	Nov 6, 1908	96.75	1,256.66	3.50		1,255.56 374 9 5 ft. 10 in	Pipe	10 5 feet.	Gravel, sand and clay	Separate systems				
Meadow street, from Walter street to Farrow street and south in private land and south street.	William L. Dolan	6,742.00	\$147.28	12	Nov. 23, 1908		353.36	3,829.11	14.00		233 ft. 44 1/2 ft. 12 in 1,211 22 ft. 10 in 184 10 ft. 12 in 290 9 ft. 10 in 103 ft. 24 in	Open trench Pipe Pipe Pipe Pipe	13 feet 12 5 feet 6 4 feet 7 7 feet 3 1 feet	Clay and gravel	Separate systems				
Williams street from Mehan street to Stebbins street.	Coughlan & Shields Com-pany	5,341.00	\$426.70	7	April 10, 1908	June 29, 1908	917.75	6,888.35	5.25		379 20 ft. 4 ft 3 in by 1 ft. 9 in	Brick	17 feet	Sand, clay and gravel	Separate systems				
Stony Brook cut-in, Section 5	Coughlan & Shields Com-pany	150,000.00	\$102,990.01	10	Aug 19, 1908		4,835.26	35,681.20			428 ft. 20 ft. by 16 ft.	Concrete	23 feet.	Sand, clay and gravel	Separate systems				
Totals.						\$70,116.22	\$148,740.74												

\* Not completed.

Brighton.

Day Labor																			
Shepard brook, section 3	J. E. McArthur A. Pitts			Nov 11, 1907	Aug 5, 1908	\$1,039.83	\$23,053.97	\$1,549.80	\$10,078.55	\$33,131.62	48 ft. 5 ft. 1,029 97 ft. 3 ft. 6 in 295 9 5 ft. 10 in 372 99 ft. 3 ft	Brick Brick Brick Concrete	16 7 feet 14 7 feet 13 5 feet 14 1 feet.	Sand, gravel and clay	Separate systems				
Shepard brook, Section 4	A. Pitts	\$37,621.00		July 16, 1908.		13,184.08	16,815.14	1,607.45	*		177 12 ft. 3 ft. 20 ft. 9 ft. 6 in. 194 10 ft. 12 in. 234 9 ft. 10 in. 50 8 ft. 10 in	Concrete Concrete Concrete Pipe Pipe Catch-basin drain.	10 4 feet 11 9 feet 11 9 feet	Sand, gravel and clay	Separate systems.				
Contract																			
Commonwealth terrace, from Allston street, 300 feet west	John McCourt	1,158.00	\$418.58	8	Sept 11, 1908	Nov 2, 1908	190.70	1,370.61	1,370.61	299.94 ft. 10 in	Pipe.	10 feet	Clay, gravel and peck	Separate systems					
Market street, Spring street to Wicklow street	T. J. Young Company			Dec 17, 1907	April 8, 1908		56.00	1,015.40	1,390.80	2,315.95	Built in 1907								
Corey road, 294 feet north from Falmouth road	T. J. Young Company			Oct 13, 1905	Oct 23 1905		69.05		438.28	507.33	Built in 1905								
Totals.						\$26,461.90	\$42,822.97												

\* Not completed.

East Boston.

Day Labor																			
East Boston low level sewer	John Conay			May 17, 1907	June 29, 1908	\$599.16	\$3,717.74	\$101.00			No sewerage works								

Charlestown.

Day Labor																			
Miler and Lawrence streets	J. F. Owens			Jan. 6, 1908	Jan 28, 1908	\$113.38	\$524.70	\$186.25	\$847.59	\$1,372.29	Built in 1907.								Separate systems.

SEWERS BUILT BY PRIVATE PARTIES, FEBRUARY 1, 1908, TO JANUARY 31, 1909.

## South Boston.

STREET.	Between	Length in Feet.	Dimensions and Materials.	Average Cut.	Character of Material.
Scott street.....	East Eighth street and East Seventh street..	198.65	12-inch pipe sewer.		
<b>Brighton.</b>					
Princeton avenue.....	Harvard avenue and Allston square.....	580.21 131.20	12-inch pipe. 10-inch pipe.		
Quint avenue.....	Princeton avenue, 463 feet north.....	210.70	10-inch pipe.		
Radcliffe road.....	Quint avenue, 273 feet west.....	268.05	10-inch pipe.		
Richards street.....	Washington street, northerly.....	129.27	10-inch pipe.		
Upland road.....	Brooks street and Dunboy street.....	454.21	10-inch pipe.		
<b>West Roxbury.</b>					
Prince street.....	810 feet north of Arborway and Pond street..	91.80	10-inch pipe.		
Garden street extension.....	Maple street, 220 feet easterly.....	222.65	10-inch pipe.		
Danville street.....	Bellevue street and Wren street.....	339.76	10-inch pipe.		
Washington street.....	At Forest Hills square.....	162.60	3 feet by 4 feet, brick.		
Johnswood road.....	Southerly section.....	169.98 160.47	10-inch pipe surface. 10-inch pipe sewer.		
Heldun street.....	Gardner street, 410 feet north.....	409.83	10-inch pipe.		
Halliday street.....	Neponset avenue and Bourne street.....	480.54 379.60	15-inch pipe 12-inch pipe.		

**Sewers Built by Private Parties. — Concluded.**  
**North Dorchester.**

STREET.	Between	Length in Feet.	Dimensions and Materials.	Average Cut.	Character of Material.
Bentham road . . . . .	Draper street and Robinson avenue . . . . .	233.35	12-inch pipe.		
Intervale street . . . . .	Normandy street, westerly . . . . .	226.70	10-inch pipe.		
Pleasant terrace . . . . .	Off Pleasant street . . . . .	178.25	10-inch pipe.		
Rowell street . . . . .	Hancock street and Cushing avenue . . . . .	510.20	10-inch pipe.		
Vaughan avenue extension and Wales court . . . . .	Devon street and Wales place . . . . .	337.00	10-inch pipe.		
Whittemore terrace . . . . .	Hancock street and end of terrace . . . . .	234.70	10-inch pipe.		

**South Dorchester.**

Assabet street . . . . .	Neponset avenue and Train street . . . . .	409.97	12-inch pipe.		
Deering road . . . . .	Blue Hill avenue and 433 feet northwesterly . . . . .	444.08	12-inch pipe.		
Randolph road . . . . .	Harvard street and 425 feet easterly . . . . .	425.00	12-inch pipe.		

**City Proper.**

City Hospital grounds . . . . .	Massachusetts avenue and Burnham Building . . . . .	221.60	12-inch pipe sewer.		
City Hospital grounds . . . . .	Massachusetts avenue and Burnham Building . . . . .	81.25	10-inch pipe surface drain.		
		43.68	8-inch pipe surface drain.		

## Sewer Contracts Awarded, 1908-09.

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Contractor.	Engineer's Preliminary Estimate.
Washburn street, between Boston street and Dorchester avenue.	Mark H. Lynch (12 bidders.)	Feb. 26, 1908.	100 cubic yards earth excavation, below grade, at \$1 cubic yard. 5 cubic yards earth excavation, outside trench, at \$1 cubic yard. 1 cubic yard rock excavation at 10c. cu. yd. 6 M. feet, board measure, spruce sheeting at \$22 M. feet. 4 M. feet, board measure, spruce platforms at \$22 M. feet. 2 cubic yards concrete at \$3 cubic yard, 476 linear feet 12-inch pipe sewer at \$1.50 linear foot. 20 linear feet 10-inch pipe catch-basin drain at \$1.05 linear foot. 285 linear feet house sewer removed at 50c. linear foot. 40 linear feet house drains to be laid at 75c. linear foot. 90 linear feet old house drain rebuilt at 75c. linear foot. 3 manholes built at \$48 each. 50 cubic yards sand or gravel refil at \$1 cubic yard. 476 linear feet 6-inch pipe underdrain at 20c. linear foot. 1 manhole rebuilt and connected with sewer at \$12. 25 square yards pavement taken up and relaid at 50c. square yard.	£2,070 46	£2,047 00

The bids include the furnishing by the contractor of all materials except ironwork.

## Sewer Contracts Awarded, 1908-09.—Continued.

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Contractor.	Engineer's Preliminary Estimate.
Williams street, between Meehan street and Stedman street, West Roxbury.	Coughlan & Sheils Company. . . (7 bidders.)	April 13, 1908.	<p>390 linear feet earth excavation for 4-foot 3-inch by 4-foot 9-inch brick conduit at \$4.50 linear foot.</p> <p>10 cubic yards earth excavation, below grade, at \$1.50 cubic yard.</p> <p>5 cubic yards extra earth excavation at \$1.50 cubic yard.</p> <p>10 cubic yards rock excavation at \$5 cubic yard.</p> <p>153 cubic yards brick masonry in Portland cement at \$6 cubic yard.</p> <p>5 cubic yards concrete of Portland cement at \$5 cubic yard.</p> <p>15.6 M. feet, board measure, spruce sheeting at \$23 M. feet.</p> <p>1 M. feet, board measure, spruce platforms, etc., at \$40 M. feet.</p> <p>24 linear feet 10-inch pipe surface drain at \$1 linear foot.</p> <p>10 linear feet 18-inch pipe surface drain at \$1 linear foot.</p> <p>390 linear feet 6-inch pipe underdrain at 15c. linear foot.</p> <p>34 pipe connections with brick conduit at 25c. each.</p> <p>10 cubic yards gravel refill at \$1 cubic yard.</p> <p>2 catch-basins built at \$30 each.</p> <p>1 manhole built on brick surface drain at \$30.</p> <p>44 linear feet of old brook on Williams street filled and surfaced at 60c. linear foot.</p> <p>8 linear feet old 4-foot by 3-inch brick surface drain removed at \$1.50 linear foot.</p> <p>18 linear feet old 30-inch pipe surface drain removed at \$1 linear foot.</p>	\$4,349 89	£5,341 00

<p>Ellis street, between Fulda street and Hawthorne street, Roxbury.</p>	<p>George J. Regan..... (11 bidders.)</p>	<p>May 9, 1903.</p> <p>56 cubic yards earth excavation, above grade, at 70c. cubic yard. 1 cubic yard earth excavation, outside trenches, at \$2 cubic yard. 114 cubic yards rock excavation at \$3 cubic yard 200 feet, board measure, spruce sheeting at 1c. foot. 1 cubic yard concrete at 1c. cubic yard. 160 linear feet 10-inch pipe sewer at 40c. linear foot. 4 linear feet 6-inch pipe house drain at \$1 linear foot. 6 linear feet old house drain rebuilt at \$1 linear foot. 3 manholes built at \$49 each. 1 cubic yard brick masonry at \$7 cubic yard. 50 linear feet 6-inch pipe underdrain at 10c. linear foot. 1 old lamp hole to be removed at \$5.</p>	<p>497 07</p>	<p>970 00</p>
<p>Elmo street, from existing sewer north-westerly to Erie street, Dorchester.</p>	<p>Thomas F. Mahan. .... (13 bidders.)</p>	<p>May 9, 1903.</p> <p>1 cubic yard earth excavation, below grade, at 1c. cubic yard. 1 cubic yard earth excavation, outside trenches, at 1c. cubic yard. 10 cubic yards rock excavation at \$1 cubic yard. 200 feet, board measure, spruce sheeting at 1c. cubic yard. 1 cubic yard Portland cement concrete at 1c. cubic yard. 86 linear feet 10-inch pipe sewer at \$1.50 linear foot. 1 manhole built at \$32. 1 cubic yard brick masonry at 1c. cubic yard. 5 cubic yards gravel and sand refill at 25c. cubic yard. 50 linear feet 6-inch pipe underdrain at 1c. linear foot. 1 old manhole rebuilt at \$2.</p>	<p>179 51</p>	<p>325 00</p>

The bids include the furnishing by the contractor of all materials except ironwork.

## Sewer Contracts Awarded, 1908-09.—Continued.

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Contractor.	Engineer's Preliminary Estimate.
Hamilton street from existing sewer westerly to Mt. Everett street, Dorchester.	George J. Reegan..... (18 bidders.)	May 9, 1908.	65 cubic yards earth excavation, above grade, at 65c. cubic yard. 1 cubic yard earth excavation, outside trenches, at \$1.50 cubic yard. 130 cubic yards rock excavation at \$3 cubic yard. 200 feet, board measure, spruce sheeting at 1c. foot. 1 cubic yard concrete at 1c. cubic yard. 175 linear feet 10-inch pipe sewer at 45c. linear foot. 25 linear feet house sewer removed and handling sewage at 25c. linear foot. 4 linear feet old drain rebuilt at \$1 linear foot. 1 manhole built at \$50. 1 cubic yard brick masonry at 1c. cubic yard. 50 linear feet 6-inch pipe underdrain at 1c. linear foot.	\$773 25 Includes extra work amounting to \$92.28.	\$1,015 00
Gold street, from existing sewer south-easterly to E street, South Boston.	William J. Rafferty & Co..... (9 bidders.)	May 9, 1908.	1 cubic yard earth excavation, below grade, nothing. 1 cubic yard earth excavation, outside trenches, nothing. 1 cubic yard rock excavation at \$5 cubic yard. 3 M. feet, board measure, spruce sheeting nothing 1 cubic yard concrete at \$5 cubic yard. 165 linear feet 12-inch pipe sewer at \$1.36 linear foot. 60 linear feet house sewer removed, including handling sewage, at 25c. linear foot. 20 linear feet 6-inch pipe house drain at 75c. linear foot. 2 manholes built at \$56 each. 1 cubic yard brick masonry at \$5 cubic yard. 1 cubic yard gravel and sand refill, nothing. 100 linear feet 6-inch pipe underdrain, nothing.	395 69	645 00



<p>Harvard street, between Hansborough street and Randolph, avenue, Dorchester.</p>	<p>George J. Regan..... (16 bidders.)</p>	<p>May 9, 1908.</p>	<p>10 cubic yards earth excavation, below grade, at \$1 cubic yard. 10 cubic yards earth excavation, outside trenches, at 1c. cubic yard. 25 cubic yards rock excavation at \$3 cubic yard. 1 M. feet, board measure, spruce sheeting at \$15 M. feet. 1 M. feet, board measure, spruce platforms at 1c. M. feet. 5 cubic yards concrete at \$7 cubic yard. 250 linear feet 15-inch pipe sewer at \$1.50 linear foot. 1 manhole built at \$45. 10 cubic yards gravel and sand refill at \$1 cubic yard. 250 linear feet 6-inch pipe underdrain at 20c. linear foot.</p>	<p>463 30</p>	<p>815 00</p>
<p>Howard avenue, between Cunningham street and Dalkeith street, Dorchester.</p>	<p>George J. Regan..... (20 bidders.)</p>	<p>May 9, 1908.</p>	<p>1 cubic yard earth excavation, below grade, at 1c. cubic yard. 1 cubic yard earth excavation, outside trenches, at \$2 cubic yard. 1 cubic yard rock excavation at \$5 cubic yard. 200 feet, board measure, spruce sheeting at 1c. per foot. 1 M. feet, board measure, spruce platforms at 1c. M. feet. 1 cubic yard concrete at \$5 cubic yard. 239 linear feet 12-inch pipe sewer at 95c. linear foot. 2 manholes built at \$40 each. 1 cubic yard brick masonry at \$6 cubic yard. 30 cubic yards gravel and sand refill at 1c. cubic yard. 200 linear feet 6-inch pipe underdrain at 1c. cubic yard. 1 old manhole rebuilt and connected with sewer at \$10.</p>	<p>360 53</p>	<p>645 00</p>

The bids include the furnishing by the contractor of all materials except ironwork.

Sewer Contracts Awarded, 1908-09. — Continued.

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Preliminary Contractor.	Engineer's Preliminary Estimate.
Whitney park, between existing sewer and 80 feet northeasterly, Dorchester.	George J. Regan..... (12 bidders.)	May 9, 1908.	10 cubic yards earth excavation, above grade, at 65c. cubic yard. 5 cubic yards earth excavation, outside trenches, at 1c. cubic yard. 70 cubic yards rock excavation at \$3.45 cubic yard. 1 M. feet, board measure, spruce sheeting at 1c. M. feet. 1 M. feet, board measure, spruce platforms at 1c. M. feet. J cubic yard concrete at 1c. cubic yard. 80 linear feet 12-inch pipe sewer at 45c. linear foot. 8 linear feet old house drain rebuilt at 1c. linear foot. 5 cubic yards gravel and sand refill at 1c. cubic yard. 10 linear feet 6-inch pipe underdrain at 1c. linear foot. 1 old manhole rebuilt at \$5. 1 8-inch pipe chimney built at \$5.	\$301 50	\$520 00
Charles street place, between Charles street and end of place, Charlestown.	Thomas A. Nolan..... (12 bidders.)	June 27, 1908.	1 cubic yard earth excavation, below grade, at 47c. cubic yard. 10 cubic yards earth excavation, outside trenches, at 39c. cubic yard. 10 cubic yards rock excavation at \$3.75 cubic yard. 5 M. feet, board measure, spruce sheeting at 1c. M. feet. 10 cubic yards concrete at \$7.90 cubic yard. 310 linear feet 10-inch pipe sewer at 66c. linear foot. 12 linear feet 6-inch pipe chimneys at 16c. linear foot.	314 39	1,240 00

<p>Cleveland street, between Prescott street and point 200 feet easterly, East Boston.</p>	<p>Andrew M. Cusack..... (5 bidders.)</p>	<p>June 27, 1908.</p>	<p>60 linear feet old drain rebuilt at 98c. linear foot. 2 manholes built at \$43 each. 10 cubic yards gravel and sand refill at 1c. cubic yard. 50 linear feet 6-inch pipe underdrain at 18c. linear foot. 1 old manhole in vert rebuilt at 1c.</p>	<p>300 08</p>	<p>650 00</p>
<p>Rebuilding old Stony brook channel, part of Sections 3 and 4 in Rogers avenue, Roxbury, from Huntington avenue 1,100 feet south.</p>	<p>Peter W. Hill..... (12 bidders.)</p>	<p>Aug. 4, 1908.</p>	<p>1 cubic yard earth excavation, below grade, at \$1 cubic yard. 5 cubic yards earth excavation, outside trenches, at \$1 cubic yard. 10 cubic yards rock excavation at \$2 cubic yard. 2 M. feet, board measure, spruce sheeting at \$20 M. feet. 100 feet, board measure, spruce platforms at \$10 M. feet. 2 cubic yards concrete at \$6 cubic yard. 200 linear feet 10-inch pipe sewer at \$1.24 linear foot. 18 linear feet 6-inch pipe chimney at 40c. linear foot. 1 manhole built at \$29. 5 cubic yards gravel and sand at \$1 cubic yard. 25 linear feet 6-inch pipe underdrain at 22c. linear foot. 1 invert to be rebuilt in old manhole at \$15. 1,100 linear feet, more or less, earth excavation and refilling for double channels 8 feet 3 inches by 10 feet 6 inches, including removal of present channels, at \$20 linear foot. 100 cubic yards, more or less, earth excavation, below grade, at \$2 cubic yard. 10 cubic yards, more or less, extra earth excavation at \$2 cubic yard. 10 cubic yards, more or less, rock at \$5 cubic yard. 237 cubic yards, more or less, brick masonry in Portland cement at \$12 cubic yard.</p>	<p>Final payment not made.</p>	<p>\$1,566 00</p>

The bids include the furnishing by the contractor of all materials except iron work.

Sewer Contracts Awarded, 1908-09. — Continued.

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Contractor.	Engineer's Preliminary Estimate.
<p>Rebuilding old Stony brook channel, part of Sections 3 and 4, in Rogers avenue, Roxbury, from Huntington avenue 1,100 feet south.</p>	<p>Peter W. Hill..... (12 bidders.)</p>	<p>Aug. 4, 1908.</p>	<p>1,400 linear feet, more or less, Portland cement reinforced concrete, double channel conduit: (a.) Arches reinforced with Monolith steel inverts, and side walls also reinforced with steel bars, at \$30 linear foot. (b.) Arches reinforced with I-beams, Kahn No. 2 rib metal and wire lathing, side walls and inverts to correspond, reinforced with steel bars, at \$33 linear foot. (c.) Arches reinforced with steel bars and side walls and inverts to correspond, reinforced with steel bars, at \$33 linear foot. 14 cubic yards, more or less, plain concrete at \$8 cubic yard. 1 M. feet, board measure, more or less, 5-inch tongued and grooved Georgia pine sheeting, left in place, at \$60 M. feet. 1 M. feet, board measure, more or less, 2-inch tongued and grooved spruce sheeting, left in place, at \$50 M. feet. 53 M. feet, board measure, more or less, spruce sheeting, left in place, at \$25 M. feet. 2 M. feet, board measure, more or less, spruce for permanent use, other than sheeting and shoring, at \$30 M. feet. 22 M. feet, board measure, more or less, spruce for posting arches at \$35 M. feet. 2,200 linear feet, more or less, 8-inch pipe underdrain at 25c. linear foot. 100, more or less, pipe connections at \$1 each. 100 cubic yards, more or less, gravel refill at \$2 cubic yard. 1,000 linear feet, more or less, spruce piles driven and cut off at 20c. linear foot. 2,200 linear feet, more or less, 12-inch pipe house sewer at 25c. linear foot. 10 manholes, more or less, to be built at \$60 each.</p>		

<p>Rebuilding old Stony brook channel, part of Section 4, in Rogers avenue, private land, Ruggles and Whittier streets, Roxbury.</p>	<p>William J. Barry..... (4 bidders.)</p>	<p>Sept. 9, 1908.</p>	<p>50 linear feet, more or less, old drain relaid at \$1 linear foot. For furnishing Akron or Portland pipe, 70 per cent discount from list prices. 2,750 square yards, more or less, of water-proofing at 40c. square yard.</p> <p>314 linear feet, more or less, earth excavation and refilling for double channels 8 feet 3 inches by 10 feet 6 inches including removal of present channels, at \$22.50 linear foot. 183 linear feet, more or less, earth excavation and refilling 11-foot by 9-foot conduit and 2-foot by 3-foot brick sewer, siphon and two manholes, at \$18.50 linear foot. Excavating and refilling flushing machine chamber attached to 11-foot by 9-foot conduit, sum of \$50. Excavating and refilling in Whittier street, at connection of 11-foot by 9-foot conduit with present channels and with Section 5 for attached and adjacent 12-inch pipe sewer, etc., sum of \$100. 100 cubic yards, more or less, earth excavation, below grade, at \$2.50 cubic yard. 10 cubic yards, more or less, earth excavation, outside trenches, at \$5 cubic yard. 10 cubic yards, more or less, rock at \$2 cubic yard. 106 cubic yards, more or less, brick masonry at \$13.50 cubic yard. 1,640 cubic yards, more or less, Class A concrete at \$7 cubic yard. 5 cubic yards, more or less, Class B concrete at \$10 cubic yard. 1 M. feet, board measure, more or less, 5-inch tongued and grooved Georgia pine sheeting, left in place, at \$25 M. feet. 1 M. feet, board measure, more or less, 2-inch tongued and grooved spruce sheeting, left in place, at \$25 M. feet. 21 M. feet, board measure, more or less, spruce sheeting, left in place, at \$22 M. feet.</p>	<p>\$36,000 00</p> <p>Final payment not made.</p>
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The bids include the furnishing by the contractor of all materials except ironwork.

## Sewer Contracts Awarded, 1908-09.—Continued.

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Contractor.	Engineer's Preliminary Estimate.
Rebuilding old Stony brook channel, part of Section 4, in Rogers avenue, private land, Ruggles and Whittier streets, Roxbury.	William J. Barry..... (4 bidders.)	Sept. 9, 1908.	1 M. feet, board measure, more or less, spruce for permanent use, other than sheeting, etc., at \$25 M. feet. 830 linear feet, more or less, 8-inch and 10-inch pipe under drain at 15c. linear foot. 40 pipe connections, more or less, at 50c. each. 50 manholes, more or less, old drains relaid at 50c. linear foot. 490 linear feet, more or less, 12-inch house sewer at 30c. linear foot. 20 linear feet, more or less, 12-inch and 16-inch double iron pipe siphon at \$1.50 linear foot. 33 linear feet, more or less, 12-inch house sewer at \$1.50 linear foot. 47 linear feet, more or less, pipe house drain at \$1.50 linear foot. For placing flushing gate frames in chamber in Rogers avenue, sum of \$50. 6 manholes, more or less, built on pipe sewers at \$45 each. 2 manholes, more or less, built on siphon at \$45 each. 50 cubic yards, more or less, gravel refill at 50c. cubic yard. 1,000 linear feet, more or less, spruce piles driven and cut at 10c. linear foot. 1,200 square yards, more or less, waterproofing at 20c. square yard. For furnishing Akron or Portland pipe, 70 per cent discount from list prices. 68 tons, more or less, steel I-beams at \$40 ton of 2,000 pounds. 51 tons, more or less, steel rods or bars at \$40 per ton of 2,200 pounds. 5,520 square feet, more or less, Kahn No. 2 rib metal at 9c. square foot. 430 square yards, more or less, Kahn No. 2 rib lathing at 20c. square yard.		

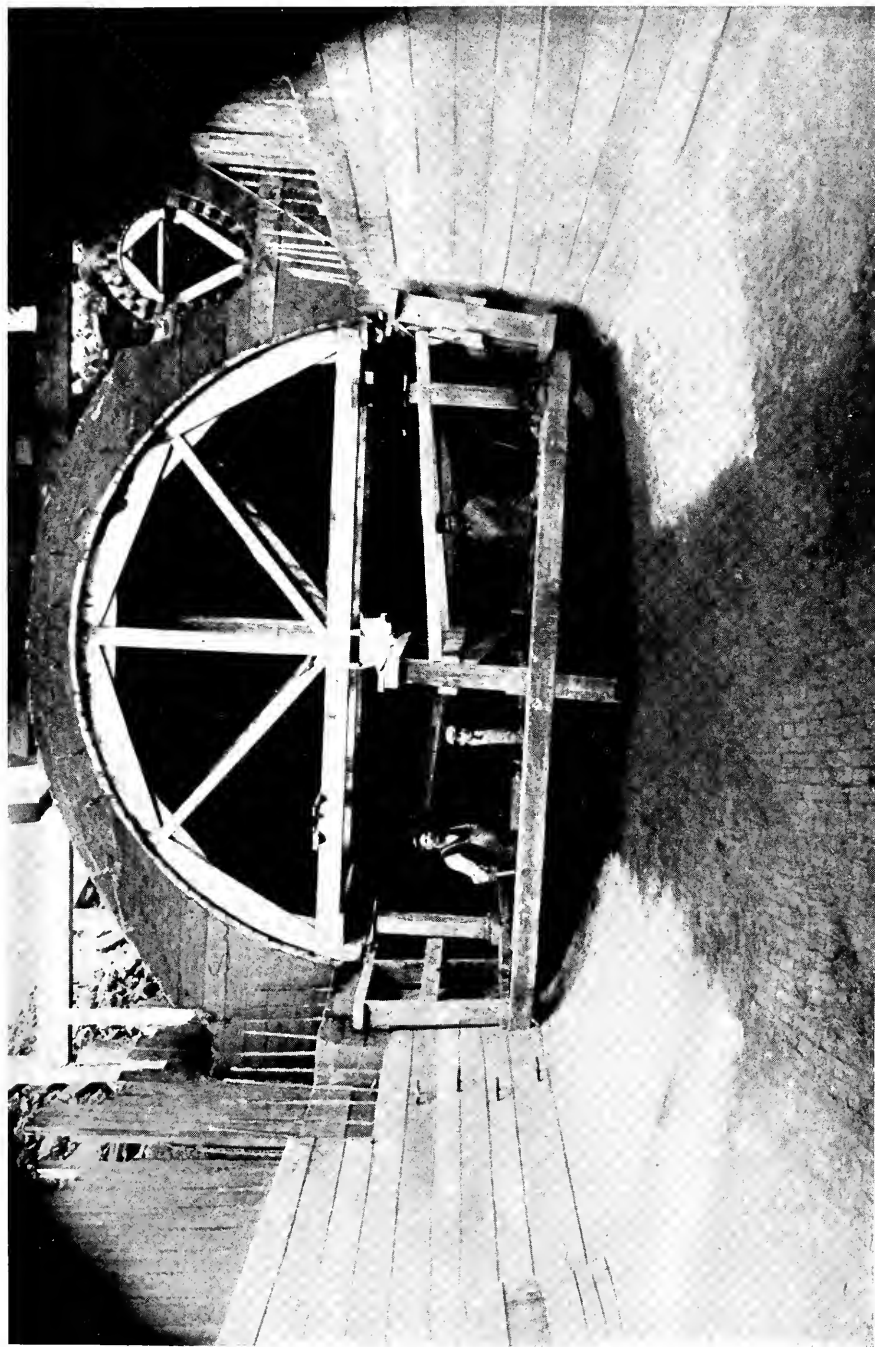
Rebuilding old Stony brook channel, Section 5, in Whittier street, Roxbury, between Ruggles street and Downing street.	Thomas J. Young Company.... (8 bidders.)	Aug. 26, 1908.	693 linear feet, more or less, earth excavation and backfilling for double channeled reinforced concrete conduit, 8 feet 3 inches by 9 feet 6 inches, at \$23.75 linear foot. 228 linear feet, more or less, earth excavation and backfilling for reinforced concrete conduit, 8 feet by 6 feet, at \$10.25 linear foot. 42 linear feet earth excavation and back filling for reinforced concrete conduit, 11 feet by 7 feet 6 inches, at \$16.75 linear foot. 25 cubic yards, more or less, earth excavation, below grade, at \$3 cubic yard. 200 cubic yards, more or less, extra earth excavation at \$1.25 cubic yard. 10 cubic yards, more or less, rock excavation at \$5 cubic yard. 200 cubic yards, more or less, brick masonry in Portland cement at \$13.50 cubic yard. 2,848 cubic yards, more or less, Class A concrete at \$7.75 cubic yard. 350 cubic yards, more or less, Class B concrete at \$7 cubic yard. 78 tons, more or less, steel rods or bars at \$37.50 ton. 41 tons, more or less, I-beams at \$40 ton. 11,200 square feet, more or less, Kahn rib metal No. 2 at 8c. square foot. 280 square yards, more or less, Kahn rib lathing No. 2 at 15c. square yard. 1 M. feet, board measure, more or less, 3-inch spruce tongued and grooved sheathing at \$50 M. feet. 75 M. feet, board measure, more or less, spruce sheathing at \$20 M. feet. 3 M. feet, board measure, more or less, spruce, other than sheathing, etc., at \$40 M. feet. 1,650 linear feet, more or less, 8-inch or 10-inch pipe undertrain at 15c. linear foot. 75 pipe connections, more or less, at 25c. each. 108 linear feet, more or less, 15-inch, 12-inch or 10-inch pipe house sewer in separate trench at \$1.25 linear foot.	Final payment not made.	\$70,025 00
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The bids include the furnishing by the contractor of all materials except ironwork.

Sewer Contracts Awarded, 1908-09. — *Continued.*

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Contractor.	Engineer's Preliminary Estimate.
Rebuilding old Stony brook channel, Section 5, in Whittier street, Roxbury, between Kuggles street and Downing street.	Thomas J. Young Company.... (8 bidders.)	Aug. 26, 1908.	1,288 linear feet, more or less, 12-inch or 10-inch pipe house sewer in main trench attached to or between conduit at 25c. linear foot. 34 linear feet, more or less, double iron pipe, 30-inch by 12-inch siphon, at \$1.50 linear foot. 100 linear feet, more or less, old drains relaid at 50c. linear foot. 50 cubic yards, more or less, gravel refill at \$1.50 cubic yard. 28,500 linear feet, more or less, spruce piles at 15c. linear foot. 17 manholes, more or less, on house sewer at \$40 each. 2 manholes, more or less, on siphon at \$300 each. 1 old catch-basin, or more, rebuilt at \$15 each. Pipe furnished, Akron or Portland pipe, 72 per cent discount from list price. 2,140 square yards, more or less, waterproofing at 75c. square yard. 3 connections, more or less, with old sewer at \$10 each.		
Building Stony brook conduit in Meehan street and private land, Section- 5, West Roxbury.	Coughlan & Sheils Company.... (10 bidders.)	Aug. 11, 1908.	908 linear feet, more or less, earth excavation and refilling for 20-foot by 16-foot concrete conduit and 2-foot 8-inch by 4-foot brick sewer, including removal of existing stone-work of present channel, at \$27.30 linear foot. 600 cubic yards, more or less, earth excavation, below grade, at \$1.50 cubic yard. 48 linear feet, more or less, excavation and refill for 9-foot conduit, above grade, at \$13.42 linear foot.	Final payment not made.	\$120,000 00





20-FOOT BY 16-FOOT STONY BROOK CONDUIT, AND LOW LEVEL SEWER.



75 cubic yards, more or less, extra earth excavation at 75c. cubic yard.  
 50 cubic yards, more or less, rock at \$4 cubic yard.  
 636 cubic yards, more or less, brick masonry in Portland cement at \$14 cubic yard.  
 3,277 cubic yards, more or less, concrete, of Portland cement for arches at \$7 cubic yard.  
 3,535 cubic yards, more or less, concrete of Portland cement for invert and side walls at \$7 cubic yard.  
 52.5 M. feet, board measure, 5-inch tongued and grooved Georgia pine sheeting, left in place, at \$60 M. feet.  
 47.88 M. feet, board measure, 3-inch tongued and grooved Georgia pine sheeting, left in place, at \$60 M. feet.  
 23.82 M. feet, board measure, 2-inch tongued and grooved spruce sheeting, left in place, at \$45 M. feet.  
 54.70 M. feet, board measure, more or less, spruce sheeting, left in place, at \$30 M. feet.  
 1 M. feet, board measure, more or less, spruce other than sheeting and shoring, at \$60 M. feet.  
 910 linear feet, more or less, 10-inch pipe under-drain at 30c. linear foot.  
 100 linear feet, more or less, 6-inch pipe under-drain at 30c. linear foot.  
 40 linear feet, more or less, 10-inch pipe surface drain at \$1.25 linear foot.  
 40 linear feet, more or less, 6-inch house sewer removed at \$1 linear foot.  
 10 linear feet, more or less, 6-inch house sewer laid at \$1 linear foot.  
 30 linear feet, more or less, 12-inch spiral riveted steel pipe at \$3 linear foot.  
 50 linear feet, more or less, pipe to connect existing drains at \$1 linear foot.  
 4 catch-basins, more or less, at \$60 each.  
 95 pipe connections, more or less, at 50c. each.  
 For furnishing Akron or Portland pipe, 70 per cent discount from list price.  
 600 cubic yards, more or less, gravel refill at \$1.40 cubic yard.

The bids include the furnishing by the contractor of all materials except ironwork.

Sewer Contracts Awarded, 1908-09. — *Continued.*

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Contractor.	Engineer's Preliminary Estimate.
<p>CONTRACT.</p> <p>Building Stony brook conduit in Meehan street and private land, Section 5, West Roxbury.</p>	<p>Coughlan &amp; Sheils Company . . . . (10 bidders.)</p>	<p>Aug. 11, 1908.</p>	<p>945 linear feet, more or less, wooden flume at \$8 linear foot. For underpinning, supporting and protecting the buildings on the line of the work, sum of \$100. 60 square yards, more or less, macadam to a depth of 6 inches at 75c. square yard. 90 cubic yards, more or less, of riprap at \$1.50 cubic yard. For removing the wooden bridge covering the channel on Keyes street, sum of \$50. 67 cubic yards, more or less, old concrete removed at \$4 cubic yard. 35 cubic yards, more or less, old riprap removed at 50c. cubic yard. For removing wooden screen, wooden bulk-head, 46 linear feet of 15-inch spiral riveted pipe and 10 cubic yards, more or less, of concrete around pipe, sum of \$50. 18 cubic yards, more or less, old brick bulk-head and piers removed at \$2.50 cubic yard.</p>	<p>\$1,144 35</p>	<p>\$1,158 00</p>
<p>Commonwealth terrace, between Allston street and point about 300 feet west, Brighton.</p>	<p>John McCourt . . . . . (8 bidders.)</p>	<p>Aug. 31, 1908.</p>	<p>1 cubic yard, more or less, earth excavation, below grade, at 60c. cubic yard. 5 cubic yards, more or less, earth excavation, outside trenches, at \$1.25 cubic yard. 230 cubic yards, more or less, rock excavation at \$3.85 cubic yard. 1 M feet, board measure, more or less, spruce sheeting at \$10 M. feet. 1 cubic yard, more or less, concrete at \$6 linear foot. 300 linear feet 10-inch pipe sewer at 50c. linear foot. 12 linear feet 6-inch pipe chimney at 27c. linear foot. 2 manholes built at \$45 each. 1 cubic yard, more or less, gravel and sand refill at \$2 cubic yard. 1 old manhole invert rebuilt at \$5.</p>	<p>\$1,144 35</p>	<p>\$1,158 00</p>

Richards avenue, between Hyde Park avenue and Hyde Park line, West Roxbury.	Andrew M. Cusack..... (11 bidders.)	Sept. 21, 1908.	<p>2 cubic yards, more or less, earth excavation, below grade, at 50c. cubic yard.</p> <p>10 cubic yards, more or less, earth excavation, outside trenches, at 50c. cubic yard.</p> <p>230 cubic yards, more or less, rock excavation at \$3.40 cubic yard.</p> <p>2 M. feet, board measure, more or less, spruce sheeting at \$1 M. feet.</p> <p>2 cubic yards, more or less, concrete at \$2 cubic yard.</p> <p>575 linear feet 10-inch pipe sewer at 92c. linear foot.</p> <p>20 linear feet 6-inch pipe chimney at 20c. linear foot.</p> <p>10 linear feet old drain rebuilt at 50c. linear foot.</p> <p>2 manholes built at \$39 each.</p> <p>5 cubic yards, more or less, gravel or sand refill at 70c. cubic yard.</p> <p>50 linear feet 6-inch pipe underdrain at 15c. linear feet.</p> <p>1 special inlet built at \$10.</p>	1,115 56	2,588 00
Train street, between King street and South Munroe terrace, Dorchester.	John Guarino..... (10 bidders.)	Sept. 25, 1908.	<p>2 cubic yards, more or less, earth excavation, below grade, at 1c. cubic yard.</p> <p>2 cubic yards, more or less, earth excavation, outside trenches, at 1c. cubic yard.</p> <p>10 cubic yards, more or less, rock excavation at 5c. cubic yard.</p> <p>1 M. feet, board measure, more or less, spruce sheeting at 1c. M. feet.</p> <p>1 M. feet, board measure, more or less, spruce platforms at 2c. M. feet.</p> <p>2 cubic yards, more or less, concrete at 5c. cubic yard.</p> <p>800 linear feet 12-inch pipe sewer at 80c. linear foot.</p> <p>10 linear feet old drain rebuilt at \$1 linear foot.</p> <p>4 manholes built at \$35 each.</p> <p>2 cubic yards, more or less, gravel or sand refill, nothing.</p> <p>100 linear feet 6-inch pipe underdrain at 1c. linear foot.</p> <p>1 manhole invert rebuilt at \$5.</p>	796 07	1,920 00

The bids include the furnishing by the contractor of all materials except ironwork.

Sewer Contracts Awarded, 1908-09,---Continued.

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Contractor.	Engineer's Preliminary Estimate.
Arden street, between Belgrade avenue and Colberg avenue, West Roxbury.	Andrew M. Cusack..... (7 bidders.)	Sept. 28, 1908.	1 cubic yard, more or less, earth excavation, below grade, at 25c. cubic yard. 5 cubic yards, more or less, earth excavation, outside trenches, at 25c. cubic yard. 20 cubic yards, more or less, rock excavation at \$3.90 cubic yard. 2 M. feet, board measure, more or less, spruce sheeting at \$1 M. feet. 2 cubic yards, more or less, concrete at \$1 cubic yard. 290 linear feet 10-inch pipe sewer at 84c. linear foot. 1 10-inch slant to be placed in old brick sewer at \$3. 2 manholes built at \$38 each. 1 cubic yard, more or less, gravel or sand refill at 50c. cubic yard. 60 linear feet 6-inch pipe underdrain at 25c. linear feet.	£380 29	£798 00
Ashley street, between Bennington street and Breed street, East Boston.	G. M. Bryne Company*..... (6 bidders.)	Sept. 29, 1908.	250 cubic yards, more or less, earth excavation, below grade, at \$1 cubic yard. 10 cubic yards, more or less, earth excavation, outside trenches, at \$1 cubic yard. 5 cubic yards, more or less, rock excavation at \$5 cubic yard. 6 M. feet, board measure, more or less, spruce sheeting at \$25 M. feet. 2 M. feet, board measure, more or less, spruce platform at \$35 M. feet. 20 cubic yards, more or less, concrete at \$8 cubic yard. 700 linear feet 10-inch pipe sewer at \$1.15 linear foot. 120 linear feet old drain rebuilt at 60c. linear foot. 4 manholes built at \$35 each. 250 cubic yards gravel or sand refill at \$1.25 cubic yard. 200 linear feet 6-inch pipe underdrain at 35c. linear foot. 1 manhole invert rebuilt at \$10.	1,641 34 Including extra work amounting to \$110.81.	3,625 00

Perkins street, between Canterbury street and Grew avenue, West Roxbury.	DeMarco & Cartullo..... (11 bidders.)	Oct. 7, 1908.	<p>1 cubic yard, more or less, earth excavation, below grade, at 1c. cubic yard.                  5 cubic yards, more or less, earth excavation, outside trenches, at 1c. cubic yard.                  25 cubic yards, more or less, rock excavation at \$3 cubic yard.                  2 M. feet, board measure, more or less, spruce sheeting at \$25 M. feet.                  1 cubic yard, more or less, concrete at \$6 cubic yard.                  650 linear feet 10-inch pipe sewer at 80c. linear foot.                  18 linear feet 6-inch pipe chimney at 50c. linear foot.                  10 linear feet old drain rebuilt at 50c. linear foot.                  3 manholes built at \$35 each.                  1 cubic yard, more or less, gravel or sand refill at 1c. cubic yard.                  10 linear feet, more or less, 6-inch pipe under-drain at 10c. linear foot.                  1 manhole invert rebuilt at \$5.</p>	722 29	1,950 00
West street, between Orange street and Bellevue avenue, West Roxbury.	Antony Cefalo..... (6 bidders.)	Oct. 7, 1908.	<p>1 cubic yard, more or less, earth excavation, below grade, at 1c. cubic yard.                  5 cubic yards, more or less, earth excavation, outside trenches, at 1c. cubic yard.                  120 cubic yards, more or less, rock excavation at 1c. cubic yard.                  1 M. feet, board measure, more or less, spruce sheeting at 1c. M. feet.                  1 cubic yard, more or less, concrete at 1c. cubic yard.                  176 linear feet 10-inch pipe sewer at \$2.75 linear foot.                  3 linear feet, more or less, 6-inch pipe chimney at 1c. linear foot.                  10 linear feet, more or less, old drain rebuilt at 50c. linear foot.                  1 manhole built at \$35.                  1 cubic yard, more or less, gravel or sand refill at 1c. cubic yard.                  10 linear feet, more or less, 6-inch pipe under-drain at 10c. linear foot.                  1 manhole invert rebuilt at \$1.</p>	518 99	900 00

The bids include the furnishing by the contractor of all materials except ironwork.  
 \*The bids of Kennedy & Gaddis (\$1,071) and James P. Collins (\$1,764.50) rejected by superintendent on account of bids being informal.  
 awarded to G. M. Bryne Company, third lowest bidder.

Contract

Sewer Contracts Awarded, 1908-09.—Continued.

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Contractor.	Engineer's Preliminary Estimate.
<p>Poplar street, Metropolitan avenue, Cornell, James and Beech streets and private land, West Roxbury.</p>	<p>Thomas A. Nolan..... (8 bidders.)</p>	<p>Oct. 9, 1908.</p>	<p>80 cubic yards, more or less, earth excavation, below grade, at 73c. cubic yard. 55 cubic yards, more or less, earth excavation, outside trenches, at 39c. cubic yard. 550 cubic yards, more or less, rock excavation at \$4.23 cubic yard. 60 M. feet, board measure, more or less, spruce sheathing at \$15 M. feet. 2 M. feet, board measure, more or less, spruce platforms at \$25 M. feet. 70 cubic yards, more or less, concrete at \$3.80 cubic yard. 738 linear feet, more or less, 15-inch pipe sewer at \$1.98 linear foot. 2,012 linear feet, more or less, 12-inch pipe sewer at 96c. linear foot. 6,751 linear feet, more or less, 10-inch pipe sewer at 64c. linear foot. 700 linear feet, more or less, 6-inch pipe chimney at 8c. linear foot. 30 linear feet, more or less, old drain rebuilt at 98c. linear foot. 44 manholes, more or less, at \$32 each. 2 special manholes, more or less, at \$53 each. 110 linear feet, more or less, old 10-inch pipe sewer removed at 1c. linear foot. 1,000 linear feet, 6-inch pipe underdrain at 9c. linear foot. 50 cubic yards, more or less, gravel or sand refill at 1c. cubic yard. 50 linear feet, more or less, 8-inch pipe underdrain at 11c. linear foot. 1 manhole invert rebuilt at \$8. Pipe furnished, 67 per cent discount from list price, Akron or Portland.</p>	<p>Final payment not made.</p>	<p>\$28,570 00</p>
<p>Walley street, between Leyden street and Orient avenue, East Boston.</p>	<p>Kennelly &amp; Gaddis..... (8 bidders.)</p>	<p>Oct. 15, 1908.</p>	<p>1 cubic yard earth excavation, below grade, at \$1 cubic yard. 10 cubic yards earth excavation, outside trenches, at 75c. cubic yard.</p>	<p>\$1,000 66</p>	<p>1,800 00</p>



<p>Sherwood street, between Norfolk avenue and end of street, Roxbury.</p>	<p>John Guarino..... (5 bidders.)</p>	<p>Oct. 22, 1908.</p>	<p>20 cubic yards rock excavation at \$4.50 cubic yard.                  3 M. feet, board measure, spruce sheeting at \$18 M. feet.                  3 cubic yards concrete at \$6.50 cubic yard.                  530 linear feet 12-inch pipe sewer at \$1.29 linear foot.                  30 linear feet 6-inch pipe chimney at 21c. linear foot.                  3 manholes built at \$42 each.                  10 linear feet old surface or catch-basin drains at 50c. linear foot.                  5 cubic yards gravel or sand refill at 25c. cubic yard.                  50 linear feet 6-inch pipe underdrain at 10c. linear foot.                  1 old lamp hole to be removed and connecting sewer at \$4.                  Connecting the old with the new sewer, \$4.                  Connecting new sewer and building brick bulkhead, \$6.                  10 linear feet old house drains rebuilt at 50c. linear foot.                  15 cubic yards earth excavation, below grade, at \$1 linear foot.                  5 cubic yards earth excavation, outside trenches, at 75c. cubic yard.                  1 cubic yard rock excavation at \$4.50 cubic yard.                  1,260 linear feet spruce piles at 5c. linear foot.                  20 M. feet, board measure, spruce sheeting at \$18 M. feet.                  4 M. feet, board measure, spruce platform at 1c. M. feet.                  10 cubic yards Portland cement concrete at \$5 cubic yard.                  305 linear feet 12-inch pipe sewer at \$1.50 linear foot.                  30 linear feet of old house sewer removed and handling sewage at \$1 linear foot.                  10 linear feet of old house drain rebuilt at 50c. linear foot.                  1 12-inch slant placed in old sewer or drain at \$2.</p>
			<p>665 19</p> <p>1,720 00</p>

The bids include the furnishing by the contractor of all materials except ironwork.

## Sewer Contracts Awarded, 1908-09.—Continued.

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Contractor.	Engineer's Preliminary Estimate.
Sherwood street, between Norfolk avenue and end of street, Roxbury.	John Guarino (5 bidders.)	Oct. 22, 1908.	3 manholes built at \$45 each. 68 cubic yards gravel of sand refill at 25c. cubic yard. 305 linear feet 6-inch pipe underdrain at 15c. linear foot. 12 square yards pavement taken up and relaid at 25c. square yard. 400 cubic yards earth excavation in main trench, price to include the necessary back-filling and removal of surplus material, at 10c. cubic yard.		
Codman street, between Dorchester avenue and Washington street, Dorchester.	John Donley. (11 bidders.)	Oct. 21, 1908.	5 cubic yards earth excavation, below grade, at \$1 cubic yard. 10 cubic yards earth excavation, outside trenches, at 75c. cubic yard. 50 cubic yards rock excavation at \$3.50 cubic yard. 2 M. feet, board measure, spruce sheeting at \$18 M. feet. 1 M. feet, board measure, spruce platform at \$18 M. feet. 2 cubic yards concrete at \$5 cubic yard. 910 linear feet 12-inch pipe sewer at 98c. linear foot. 120 linear feet 6-inch pipe chimney at 25c. linear foot. 10 linear feet old house drain rebuilt and connected at 15c. each. 10 linear feet old drain rebuilt at 10c. linear foot. 5 manholes built at \$38 each. 5 cubic yards gravel or sand refill at \$1 cubic yard. 910 linear feet 6-inch pipe underdrain at 28c. linear foot. 400 square yards old stone block pavement removed and piled up at 20c. square yard. 1 connection new sewer with old sewer, \$10.	\$1,277.00	\$3,185.00

<p>Wayland street, from Hartford street about 170 feet northwesterly, Dorchester.</p>	<p>T. H. Connolly . . . . . (11 bidders.)</p>	<p>Nov. 2, 1908.</p>	<p>3 cubic yards earth excavation, below grade, at \$1 cubic yard. 3 cubic yards earth excavation, outside trenches, at 75c. cubic yard. 100 cubic yards rock excavation at \$1 cubic yard. 100 feet, board measure, spruce sheeting at \$18 M. feet. 1 cubic yard concrete at \$3.50 cubic yard. 170 linear feet 10-inch pipe sewer at 50c. linear foot. 10 linear feet old house sewer removed and handling of sewage at 25c. linear foot. 6 linear feet old house drain rebuilt at 25c. linear foot. 1 cubic yard brick masonry at \$7 cubic yard. 1 cubic yard gravel or sand refill at 50c. cubic yard. 2 old manholes rebuilt and connected at \$4 each. 60 cubic yards earth excavation in trench, above grade, the price to include all necessary backfilling and the removal of surplus material, at \$3 cubic yard.</p>	<p>475 10</p>	<p>736 00</p>
<p>North Munroe terrace, between Neponset avenue and Train street, Dorchester.</p>	<p>Timothy McCarthy . . . . . (11 bidders.)</p>	<p>Nov. 10, 1908.</p>	<p>2 cubic yards earth excavation, below grade, at \$1 cubic yard. 2 cubic yards earth excavation, outside trenches, at 75c. cubic yard. 5 cubic yards rock excavation at \$4.50 cubic yard. 1 M. feet, board measure, spruce sheeting at \$18 M. feet. 1 M. feet, board measure, spruce platforms at 1c. M. feet. 2 cubic yards Portland cement concrete at \$5 cubic yard. 891 linear feet 12-inch pipe sewer at 87c. linear foot. 100 linear feet old house sewer removed and reconnected, handling sewage, at 75c. linear foot. 20 linear feet house drain rebuilt at 30c. linear foot.</p>	<p>1,092 12 Including extra work amounting to \$123.</p>	<p>2,139 00</p>

The bids include the furnishing by the contractor of all materials except iron work.

Sewer Contracts Awarded, 1908=09. — Concluded.

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Preliminary Contractor.	Engineer's Estimate.
North Munroe terrace, between Neponset avenue and Train street, Dorchester.	Timothy McCarthy . . . . . (11 bidders.)	Nov. 10, 1908.	1 12-inch by 12-inch Y placed in old pipe sewer at \$2.50. 4 manholes built at \$31 each. 2 cubic yards gravel or sand refill at 1c. cubic yard. 100 linear feet 6-inch pipe underdrain at 1c linear foot. 1 old manhole rebuilt at \$25. 10 square yards paving taken up and relaid at 50c. square yard.		
South Munroe terrace, between Neponset avenue and Train street, Dorchester.	Timothy McCarthy . . . . . (11 bidders.)	Nov. 12, 1908.	2 cubic yards earth excavation, below grade, at \$1 cubic yard. 2 cubic yards earth excavation, outside trenches, at 75c. cubic yard. 5 cubic yards rock excavation at \$4.50 cubic yard. 1 M. feet, board measure, spruce sheeting at \$18 M. feet. 1 M. feet, board measure, spruce platforms at 1c. M. feet. 2 cubic yards Portland cement concrete at \$5 cubic yard. 970 linear feet 12-inch pipe sewer at 93c. linear foot. 100 linear feet house sewer removed and re-connected, handling sewage, at 75c. linear foot. 20 linear feet old house drain rebuilt at 30c. linear foot. 4 manholes built at \$31 each. 2 cubic yards gravel or sand refill at 1c. cubic yard. 100 linear feet 6-inch pipe underdrain at 1c. linear foot. 1 old manhole rebuilt at \$25. 10 square yards paving taken up and relaid at 50c. square yard. 1 connection with manhole at \$5.	Final payment not made.	\$2,328 00

Mendum street, between Fairview street and Walker street and outlet in private land and South street, West Roxbury.	William L. Dolan..... (12 bidders.)	Nov. 23, 1908.	6,745 00	<p>Final payment not made.</p> <p>5 cubic yards earth excavation, more or less, below grade, at 40c. cubic yard.  10 cubic yards earth excavation, more or less, outside trenches, at 75c. cubic yard.  100 cubic yards rock excavation, more or less, at \$1 cubic yard.  5 M. feet, board measure, spruce sheeting at \$15 M. feet.  5 cubic yards, more or less, concrete at \$4 cubic yard.  434 linear feet 12-inch pipe sewer at \$1.10 linear foot.  1,372 linear feet 10-inch pipe sewer at 98c. linear foot.  80 linear feet 24-inch double-thick pipe surface drain at \$1.50 linear foot.  1,017 linear feet 12-inch pipe surface drain at 84c. linear foot.  518 linear feet 10-inch pipe surface drain at 78c. linear foot.  30 linear feet 6-inch pipe chimneys at 20c. linear foot.  20 linear feet old house drain rebuilt at 40c. linear foot.  10 linear feet old drain rebuilt, other than house drain, at 40c. linear foot.  1 or more 12-inch Y's placed in old pipe drain at \$3.  9 manholes built on house sewer at \$33 each.  9 manholes built on surface drain at \$33 each.  1 special manhole built on house sewer at \$50.  5 cubic yards gravel or sand refill at \$1 cubic yard.  50 linear feet 6-inch pipe underdrain at 25c. linear foot.  1 special inlet built in old manhole at \$20.  For deepening old brook in private land for average depth of 1.5 feet and distance of 100 feet, more or less, at 40c. per linear foot.</p>
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The bids include the furnishing by the contractor of all materials except iron work.

## Pile-driving Contracts Awarded During 1908.

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Contractor.	Engineer's Preliminary Estimate.
Putnam and Glendon streets, interceptor Section 2, sewer in private land between outlet and Glendon street, East Boston.	Rendle and Stoddard . . . . . (8 bidders.)	June 29, 1908.	Furnishing and driving 200 spruce piles, 15 to 20 feet long, at 14½c. linear foot. Furnishing and driving 10 spruce piles, 20 to 30 feet long, at 14½c. linear foot.	\$354 40	\$471 25
A street sewer, between West First street and Mt. Washington avenue extension, South Boston.	W. A. Norton Company . . . . . (5 bidders.)	Aug. 4, 1908.	Furnishing and driving 624 spruce piles, average length not over 15 feet long, at 11½c. linear foot. Furnishing and driving 210 spruce piles, from 20 to 30 feet long, at 11½c. linear foot. Furnishing and driving 10 spruce piles, from 30 to 40 feet long, at 11½c. linear foot. Furnishing and driving 5 spruce piles, over 40 feet long, at 11½c. linear feet.	Final payment not made.	1,743 98
Avenue Louis Pasteur, southeasterly side, between Board of Survey stations 219 and 220, Roxbury.	John T. Scully Foundation and Transportation Company.	Jan. 19, 1909.	Furnishing and driving 230 spruce piles less than 25 feet long, with an average length of 18 feet, equals 4,140 linear feet at 11 cents per foot.	Nothing paid.	828 00

## Contracts for Cleaning Catch-basins Awarded During 1908.

CONTRACT.	Awarded to	Dated.	Estimated Number Basins.	Estimated Number Cu. Yds.	Price per Cu. Yd.	Amount Paid to Contractor.
City Proper, Districts 9 and 10.....	Mark H. Lynch.....	June 4, 1908.	1,000	2,000	\$1 25	\$3,951 39
Roxbury and City Proper, Districts 7 and 8.....	M. Doyle & Co.....	June 22, 1908.	2,000	5,000	1 00	4,818 70
South Boston, District 1.....	M. F. Gaddis.....	June 30, 1908.	700	1,400	1 49	3,248 20
East Boston, District 2.....	James H. Ferguson.....	June 30, 1908.	400	800	1 68	1,930 19
Charlestown, District 3.....	James F. Nyhan.....	June 30, 1908.	200	400	1 33	749 85
Brighton and West Roxbury, Districts 4 and 5.....	Mark H. Lynch.....	June 30, 1908.	300* 600†	600* 1,800†	1 25	1,143 51 2,387 88
Dorchester, District 6.....	James F. Murphy.....	June 30, 1908.	800	2,400	1 20	3,063 48

\* Brighton.

† West Roxbury.

## Contracts for Cleaning Sewers Awarded During 1908.

CONTRACT.	Awarded to	Dated.	Price per Linear Foot.	Amount Paid to Contractor.
Marginal street, between Jeffries street and Boston, Revere Beach & Lynn Railroad.....	Richard A. Nagle.....	March 30, 1908.	35 cents per linear foot.....	\$255 50

Contracts for Repaving and Regulating Awarded During 1908.

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Amount Paid to Contractor.
Congress street, between Milk and Frank- lin streets, City Proper.	John E. Burns & Co.....	July 9, 1908.	About 290 square yards of granite block paving to be relaid, including concrete base, with pitch joints, at \$2.50 square yard. About 10 square yards of existing flagging crosswalks to be relaid, including concrete base, with pitch joints, at \$2.50 square yard.	\$945 00
Broad street, between Custom House street and India square, City Proper.	Daniel E. Lynch.....	Nov. 3, 1908.	About 300 square yards of granite block paving to be taken up and relaid, including concrete base, with pitch joints, at \$1.90 square yard. About 25 square yards of existing crosswalks to be taken up and relaid, including concrete base, with pitch joints, at \$1.40 square yard.	Final payment not made.



**Contracts for Material Awarded During 1908.**

MATERIAL.	Awarded to	Dated.	Price per Barrel in Paper Bags.
3,213 barrels Portland cement, more or less, to be delivered at Stony brook channel .....	J. P. O'Connell & Co.....	March 27, 1908.	\$1 45
Coal from January 1, 1909, to April 1, 1909.....	Batchelder Bros.....	Jan. 1, 1909.	Price per Ton. Broken. Egg. Stove. Soft. \$5 50 \$6 10 \$6 10 \$4 25

The above contracts were made by the Supply Department.

**Miscellaneous Contracts Awarded, 1908-09.**

CONTRACT.	Awarded to	Dated.	Number Feet of Centers.	Size.	Shape.	Rental.
Rental for collapsible steel centers for period of nine months.	Blaw Collapsible Steel Centering Company..	Sept. 1, 1908.	50 feet	42 inches	Half round	\$80 00
Rental for collapsible steel centers for period of nine months.	Blaw Collapsible Steel Centering Company..	Sept. 1, 1908.	50 feet	24 inches	.....	60 00
Locks for flushing gates for old Stony brook channel.	Gibby Foundry Company.....	Jan. 29, 1909.	20 feet	96 inches	Half round	175 00
			.....	.....	.....	\$155 00

Miscellaneous Contracts Awarded, 1908-09.—Continued.

CONTRACT.	Awarded to	Dated.	Amount to be Paid.
Keeping the east shaft at Moon Island, Squantum, free from grease for a term of five years from August 5, 1908, and for a further period if the contractor shall so elect by a notice to the superintendent before the termination of the first five years, for the sum of \$75 per month.	Walter J. Tavender.....	Aug. 4, 1908.	\$75 per mo.
Improved plastic slate roofing on garage, Childs street.....	Improved Plastic Slate Roofing Company.....	July 6, 1908.	\$50 00
Removing stable and shed from the land of Alice F. Cahill and settlement of claim for damages for taking of said land for the improvement of Stony brook channel.	Alice F. Cahill.....	Oct. 10, 1908.	600 00
For the removal of stable of Lawrence Norton and settlement of claim for damages for taking of said land for the improvement of Stony brook channel.	Lawrence Norton.....	Nov. 24, 1908.	75 00
Automobile insurance from September 10, 1908, to September 10, 1909.....	Federal Insurance Company.....	Sept. 11, 1908.	* 162 00 † 52 50
Hot water heater for garage, Childs street.....	J. F. Houghton & Son.....	Nov. 11, 1908.	165 00
Agreement relative to the building of Stony brook channel, between Linden Park, Vernon and Lamont streets, as to rights in bed or channel of said brook; and settlement of suit for damages already instituted, occasioned by flooding the premises of A. J. Tower Company on or about December 9, 1907, during construction of conduit below their premises.	A. J. Tower Company.....	Sept. 21, 1908.	4,000 00
Compensation for right to erect derricks on the premises of A. J. Tower Company, and to have access across the same during the construction of said works.	.....	.....	500 00

\* Accident policy premium.

† Fire and damage policy.

Miscellaneous Contracts Awarded, 1908-09. — *Continued.*

CONTRACT.	Awarded to	Dated.	Amount Paid per Item.	Final payment not made.
Repairs on pumping engines Nos. 3 and 4, pumping station, Calif Pasture.	Lockwood Manufacturing Company.	July 31, 1908.	<p>Item 1. Lump sum of \$23,750. Extra work at the following rates under Item 2.</p> <p>Materials:</p> <p>Composition metal, 37c. pound. Machine steel, 41c. pound. Wrought iron, 41c. pound. Steel forgings, 6 to 18c. pound. Cast iron, 41c. pound. Tobin bronze, 30c. pound. Brass tubing (American Tube Works), seamless drawn, 27c. pound.</p> <p>Item 2. Labor:</p> <p>Machinists at pumping station or shop, per day, per man, \$4.50. Patternmakers at pumping station or shop, per day, per man, \$5. Carpenters at pumping station or shop, per day, per man, \$4. Riggers at pumping station, per day, per man, \$4. Steamfitter and helper at pumping station or shop, per day, per man, \$8. Foreman at pumping station, per day, \$6. Machinist in shop with small tools, per day, \$5. Machinist in shop with large tools, per day, \$7. Boilermaker in shop with small tools, per day, \$4.50. Blacksmith with one helper and forge, per day, \$9. Blacksmith with one helper and steam hammer, per day, \$12. Blacksmith with two helpers and steam hammer, per day, \$15.</p>	Final payment not made.

Miscellaneous Contracts Awarded, 1908-09. — Concluded.

CONTRACT.	Awarded to	Dated.	Price.
Making change in existing condenser piping layout at the pumping station, Calif Pasture.	The Lumsden and Van Stone Company.....	May 20, 1908.	\$170 00
Building two flushing pontoons for deposit sewer at the pumping station, Calif Pasture.	Richard F. Keough.....	May 20, 1908.	968 00
Remodeling ten operating stands at the pumping station, Calif Pasture.....	Coffin Valve Company.....	May 6, 1908.	3,710 00
Calking sludge scow, pumping station, Calif Pasture.....	C. A. Borden & Son.....	Sept. 8, 1908.	100 00
Repairing roofs of buildings at the pumping station, Calif Pasture.....	William Martin.....	Oct. 29, 1908.	150 00
Forty bucket and forty delivery valves at the pumping station, Calif Pasture,*	Gibby Foundry Company.....	Sept. 28, 1908.	480 00
Furnishing two lathes at the pumping station, Calif Pasture *.....	Frentiss Tool and Supply Company.....	Oct. 5, 1908.	2,886 00
Furnishing and installing two 7-inch expansion bends, pumping station, Calif Pasture.	Lumsden and Van Stone Company.....	July 31, 1908.	147 00

\* Contracts made by the Supply Department.

**Schedule of Sewers Built to Date in the City of Boston,  
February 1, 1909.**

DISTRICT.	Length of Common Sewers Built During the Year Ending January 31, 1909.		Length of Metropolitan Intercepting Sewers Built During the Year Ending January 31, 1909.		Length of Common Sewers Re-built or Abandoned During the Year Ending January 31, 1909.]		Additional Length of Common Sewers for the Year Ending January 31, 1909.	
	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Miles.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Miles.</i>		
City Proper.....	1,580.86			1,212.31	368.55	0.07		
East Boston.....	2,834.41	2,280.14	0.43	24.50	2,809.91	0.53		
Charlestown.....	309.78				309.78	0.06		
South Boston.....	3,289.18			1,094.00	2,195.18	0.42		
Roxbury.....	11,670.72			2,465.69	9,205.03	1.74		
West Roxbury....	20,895.21			505.39	20,389.82	3.86		
Dorchester.....	10,436.36	2,422.11	0.46	151.00	10,285.36	1.95		
Brighton.....	5,829.31			100.00	5,729.31	1.09		
Totals.....	56,845.83	4,702.25	0.89	5,552.89	51,292.94	9.72		
Total length built previous to January 31, 1908.....			5.92					705.14
Totals.....			6.81					714.86

Length of common sewers..... 714.86  
 Length of metropolitan intercepting sewers..... 6.81  
 Length of intercepting sewers..... 24.12

Total..... 745.79

Total mileage of streets containing sewerage works..... 475.23

**Summary of Sewer Construction for the Year Ending  
January 31, 1909.**

DISTRICT.	Built by the City by Contract or Day Labor.	Built by Private Parties.	Total Length Built.
	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>
City Proper.....	1,234.33	346.53	1,580.86
East Boston.....	5,114.55		5,114.55
Charlestown.....	309.78		309.78
South Boston.....	3,090.53	198.65	3,289.18
Roxbury.....	11,670.72		11,670.72
West Roxbury.....	18,468.98	2,426.23	20,895.21
Dorchester.....	9,859.22	2,999.25	12,858.47
Brighton.....	4,055.67	1,773.64	5,829.31
Totals.....	53,803.78	7,744.30	61,548.08

**Summary of Sewer Construction for Five Years Previous to  
February 1, 1909.**

	1904.	1905.	1906.	1907.	1908.
	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>
Built by the city by contract or day labor.....	157,077.28	160,715.87	103,823.72	79,340.46	53,803.78
Built by private parties....	6,758.47	17,919.17	9,641.49	11,590.87	7,744.30
<b>Totals.....</b>	<b>163,835.75</b>	<b>178,635.04</b>	<b>113,465.21</b>	<b>90,931.33</b>	<b>61,548.08</b>

**ENTRANCE FEES, PERMITS AND ASSESSMENTS.**

Entrance fees to the amount of \$4,135.16 have been collected from estates upon which no sewer assessment was ever paid, in accordance with the Ordinances of 1908, chapter 3, section 11.

Bills for sewer assessments amounting to \$1,214.28 have been deposited for collection, representing those estates assessed under chapter 456 of the Acts of 1889, and amendments thereto, which have been connected during the year with the sewers for which they were assessed.

Permits covering 363 connections have been issued to district foremen and fifty-eight to contractors; licensed drainlayers have received permits to lay or repair 1,856 house drains. The work done under these permits has been inspected and a record of the same made on the plans of this division, in accordance with the provisions of the Ordinances of 1908, chapter 3.

Plans for the assessments of estates for sewer construction have been furnished the Street Commissioners, representing 36,667.80 feet of sewers and appurtenances, costing \$406,887.69.

**Amount of Sludge Received and Removed from Deposit Sewers  
from February 1, 1908, to January 31, 1909, Inclusive.**

MONTH.	Cu. Yds. Received.	Cu. Yds. Removed.	
<b>1908.</b>			
February .....	340	425	Sludge in sewers February 1, 1908, 1,180 cubic yards.
March .....	325	340	
April .....	356	340	
May .....	549	255	
June .....	358	425	
July .....	572	425	
August .....	701	340	
September .....	332	170	
October .....	490	425	
November .....	322	340	
December .....	345	340	
<b>1909.</b>			
January .....	343	425	Sludge in sewers February 1, 1909, 1,963 cubic yards.
	5,033	4,250	

**Amount of Refuse Removed from Filth-hoist from February 1,  
1908, to January 31, 1909, Inclusive.**

MONTH.	POUNDS.
<b>1908.</b>	
February .....	95,700
March .....	111,900
April .....	111,000
May .....	103,800
June .....	96,000
July .....	98,400
August .....	88,800
September .....	118,500
October .....	90,600
November .....	103,200
December .....	99,300
<b>1909.</b>	
January .....	93,000
	1,210,200 = 605 tons 200 pounds.

Number of gates, regulators, sumps and overflows to be cleaned and cared for. These are under constant inspection and are cleaned after every storm or heavy rise of sewage due to other causes:

DISTRICT.	Gates.	Regulators.	Sumps.	Overflows.
Brighton.....	42	15	17	23
Charlestown.....	24	9	11	12
East Boston.....	47	18	19	20
City Proper.....	84	15	41	41
Dorchester.....	62	3	11	19
South Boston.....	49	4	22	21
Roxbury.....	44	2	11	25

Number of penstock and flushing gates.....	19
Regulators repaired.....	46
Tide gates repaired.....	208
Manholes repaired.....	54
Manhole steps put in.....	362
Tide gates cleaned.....	6,450
Regulators cleaned.....	2,520
Overflows cleaned.....	292
Sumps cleaned.....	3,050
Penstock and flushing gates cleaned, oiled and repaired.....	40

**Average Daily Amount of Sewage Received at Moon Island Reservoir.**

	Gallons.
<b>1906</b> . . . . .	80,241,046
<b>1907</b> . . . . .	87,661,058
<b>1908</b> . . . . .	83,376,502



## Real Estate in Charge of the Sewer Division.

	ASSESSED VALUATION.	
	Land.	Buildings.
OWNED BY CITY.		
Sewer yard, 678 Albany street, South End.....	\$56,400	\$3,000
Sewer yard, Massachusetts avenue, near Albany street, South End.....	7,900	1,100
Sewer yard, Western avenue, Brighton.....	9,200	5,500
Pumping station, Old Harbor Point, Dorchester.....	138,000	700,000
Land, buildings and reservoirs at Moon Island and Squantum.....		
Sewer yard, North Grove street, West End. (Occupied in common with Sanitary and Street Cleaning Divisions.).....	90,300	28,700
Sewer yard, Child and South streets, West Roxbury. (Occupied in common with Street Department.)..	19,300	3,000
Pumping station, Lyons street.....	1,200	
Gatehouse, Back Bay Fens.....		
LEASED.		
Sewer yard, Revere street, West End. (Part of rental paid by this division. Leased J. J. Costello estate from J. Costello.).....	74,400	900
Sewer yard, East Eagle street, East Boston. (Part of rental paid by this division. Leased from trustees of Glendon Company.).....		
Sewer yard, Old Harbor street and Columbia road, South Boston. (Office building owned by Sewer Division. Leased from estate of Choate Burnham.).....	5,200	3,200
Sewer yard, Gibson street, Dorchester. (Buildings erected by Sewer Division. Leased from trustees of Gibson School Fund.).....	7,000	5,000

APPENDIX G.

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REPORT OF THE DEPUTY SUPERINTENDENT OF  
STREET CLEANING AND WATERING DIVISION.

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BOSTON, MASS., February 1, 1909.

MR. GUY C. EMERSON,  
*Superintendent of Streets:*

DEAR SIR,—I respectfully submit the following report of the expenditures of the Street Cleaning and Watering Division for the financial year ending January 31, 1909.

Respectfully submitted,

C. B. PRATT,  
*Deputy Superintendent.*

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The work of the Street Cleaning and Watering Division consists in the machine sweeping and hand sweeping of all streets within certain district lines, and the watering of all streets throughout the city under Ordinance of 1908, chapter 3, section 1.

The district lines of the division comprise the entire city excepting part of Dorchester, Jamaica Plain, Brighton and West Roxbury:

- District 1, South Boston.
- District 2, East Boston.
- District 3, Charlestown.
- District 6, part of Dorchester under charge of District 1.
- District 7, Roxbury.
- District 8, South End, uptown.
- District 8, South End, downtown.
- District 9, Back Bay.
- District 10, West End.
- District 11, Patrol System.

The work of the street cleaning branch has been of the same general character as in past years. During the last few

months of the year a new type of flushing machine was used known as the Kindling Street Washing Machine. This machine consists of a steel tank of about 400 gallons capacity, mounted on four wheels. The tank feeds four sprinklers between the front and rear wheels, all operated with valves by the driver. Geared to the left hind wheel is a cleaning roller or squeegee. This is a heavy steel cylinder with twenty-four rubber fins. As the cylinder revolves the rubbers remove the dust, mud and slime from the pavement.

During the season a contract was made with the Calcide Process Company to treat about 268,000 square yards of macadam roadway with calcium chloride for laying dust. The price paid for five months was four cents (\$.04) per square yard. The material is brought to the roadway in carts of about 600 gallons capacity, filled with a concentrated solution of 40 per cent calcium chloride, specific gravity 1.4. A nest of five 110-gallon galvanized-iron cans is carried on a rack on the rear of the cart. The cart is driven to a standpipe on the roadway where a can is placed and filled with the solution. The remaining cans are left at other standpipes and filled. By means of a siphon arrangement the cart is filled with water from the standpipe and with the 110 gallons of the 40 per cent solution by one operation. The empty can is placed on the rack and the operation is repeated. One load, or about 600 gallons, covers about 1,900 square yards of roadway, or about ten loads to the mile of 32-foot roadway. In order to fill the surface thoroughly with the chloride two applications are made the first week. The following applications serve on an average twenty-one days. In shady areas the salt retains the moisture for a longer period than in areas exposed to the direct rays of the sun. It is usually necessary to feed the salt by the ordinary application of water, varying from one to three times per week, according to the condition of the weather and the road treated. The calcium chloride treatment by this method gives very satisfactory results. It leaves no odor, it is clean and, though not a road builder, it leaves the surface of the road in much better condition at the end of the season's treatment.

About twenty-five miles of roadway were also treated with an oil emulsion, mechanically prepared by the use of a soap solution to emulsify a residuum asphaltic base oil of twenty-five to thirty-five per cent asphalt. The emulsion is prepared as follows: The soap solution, consisting of twenty-five pounds of cotton seed oil soap to fifty gallons of steam-heated water, is prepared. This solution is mixed with 100 gallons of crude oil. Three hundred gallons of this mixture is

agitated about twenty minutes in a 600-gallon water cart until the emulsion is complete. An ordinary watering cart of 600 gallons capacity is filled with this preparation and driven to the roadway. One hundred gallons of the emulsion is drawn into a cart, filled with water from the standpipe and spread. Two applications are applied during the first four days. The following applications serve from eight to twenty-one days according to the weather conditions, locations and surface conditions of the road.

This treatment gives very satisfactory results. The roads are dustless, they become coated with a smooth, hard surface which is not washed into the gutters, thus adding life to the wearing surface of the roadway. There is the disadvantage of a slight odor and a wet, oily surface for three or four hours until complete penetration. These conditions are more than offset, however, by the results gained in laying the dust and in the protection and prolongation of the life of the roadway.

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#### FINANCIAL STATEMENT, 1908-1909.

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Amount of appropriation . . . . .	\$570,000 00
Transferred from Sanitary Division . . . . .	3,905 31
Received from Boston Elevated Railway Com- pany for tickets . . . . .	50 50
Received by sale of automobile to Sewer Di- vision . . . . .	300 00
	<hr/>
Total amount of appropriation . . . . .	\$574,255. 81
Expenditures of Street Cleaning Division . . . . .	\$419,575 91
Expenditures of Street Watering Division . . . . .	154,679 90
	<hr/>
	574,255 81
	<hr/> <hr/>

#### ITEMS OF EXPENDITURE FOR THE YEAR.

Salary of deputy and office pay rolls,	\$6,555 22
Stationery, printing, postage and office incidentals . . . . .	811 94
Board of horses . . . . .	438 42
Maintenance of automobile . . . . .	186 16
Advertising . . . . .	103 46
	<hr/>
<i>Carried forward</i> . . . . .	\$8,095 20

<i>Brought forward</i> . . . . .	\$8,095 20
Telephone service . . . . .	534 81
Foremen and sub-foremen on street work, snow and patrolling . . . . .	33,085 66
Labor, paved streets, gutters and patrolling . . . . .	132,100 88
Maintenance of dumps . . . . .	6,142 98
Hired teams, paved streets, gutters and patrolling . . . . .	27,687 72
Labor on snow work . . . . .	29,923 75
Hired teams on snow work . . . . .	5,998 64
Sanding streets . . . . .	411 35
Flushing streets . . . . .	341 85
Cleaning public alleys . . . . .	321 48
Work performed for Sewer Division on catch-basins . . . . .	720 10
Work performed for Sanitary Division on ashes . . . . .	1,569 25
Stable and yard labor, rent, fuel and light . . . . .	30,326 76
Hay, straw and grain . . . . .	23,246 73
Yard and stable repairs and furnishings . . . . .	922 92
Cart and carriage repairs and furnishings . . . . .	3,435 71
Harness repairs . . . . .	1,440 68
Sweeping machine repairs . . . . .	1,591 77
Tool repairs . . . . .	149 37
Horseshoeing . . . . .	4,794 50
Veterinary services and medicine . . . . .	1,659 40
Traveling expenses . . . . .	129 20
Broom stock purchased. . . . .	1,392 27
Refilling machine brooms. . . . .	3,174 00
Harnesses and horse furnishings purchased . . . . .	647 35
Tools purchased. . . . .	658 17
Street washing machine purchased, Holidays, allowed time, medical attendance . . . . .	1,291 00
Scow (cost of disposal at sea of 37,006 loads of street dirt) . . . . .	10,360 33
Annuity (see chapter 569, Acts of 1898) . . . . .	9,303 55
	300 00

*Patrol System.*

Foremen, inspectors, labor and teaming on push carts . . . . .	66,670 54
Labor and teaming, paper patrol . . . . .	2,406 30

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*Carried forward* . . . . . \$410,834 22

<i>Brought forward</i> . . . . .	\$410,834 22	
Yard and office repairs and furnish- ings . . . . .	454 45	
Cart and barrel repairs . . . . .	1,901 77	
Yard and dump labor, rent, fuel and light . . . . .	3,075 82	
Holidays, allowed time and medical attendance . . . . .	2,613 09	
Horse furnishings and harness re- pairs. . . . .	16 51	
Shoeing . . . . .	104 75	
Sand . . . . .	575 30	
	<hr/>	<u>\$419,575 91</u>

*Bills Deposited with City Collector.*

For cleaning farmers' market . . . . .	\$845 25	
For damages done to division carts, For removing gravel left by con- tractors in streets . . . . .	8 75	
	67 50	
	<hr/>	<u>\$921 50</u>

*Expenditures of the Street Watering Division.*

Superintendence . . . . .	\$839 67
Office pay rolls . . . . .	1,299 09
Telephone . . . . .	190 38
Printing . . . . .	117 13
Stationery . . . . .	21 32
Board of horses . . . . .	104 57
Horseshoeing . . . . .	14 00
Veterinary services and medicine . . . . .	4 00
Tools . . . . .	2 99
Cart and bicycle repairs . . . . .	361 12
Harness repairs . . . . .	2 76
Horse furnishings . . . . .	2 25
Standpipes, maintenance and repairs . . . . .	2,531 50
Sundries . . . . .	6 75
Teaming . . . . .	120,017 19
Labor, water cart chasers . . . . .	9,218 13
Installation of oil plants . . . . .	1,261 14
Maintenance of oil plants . . . . .	7,695 39
Repairs on oil plant . . . . .	64 24
Calceide process . . . . .	10,926 28
	<hr/>
Total . . . . .	<u>\$154,679 90</u>

**Distribution of Force February 1, 1909, Street Cleaning  
and Watering Division.**

*Office Force.*

1 deputy superintendent at . . . . .	\$3,000 00	per year.
1 chief clerk at . . . . .	1,300 00	" "
2 clerks at . . . . .	1,200 00	" "
1 clerk (draughtsman) at . . . . .	3 00	" day (from Dec. 16)
1 driver at . . . . .	2 50	" "
<hr/>		
6		

*Street Watering Force.*

1 inspector at . . . . .	\$1,400 00	per year.
1 steam engineer at . . . . .	3 25	per day.
2 laborers at . . . . .	2 25	" "
<hr/>		
4		

Table Showing Amount Expended by Districts, Including Superintendence, Labor and Hired Teams, for Cleaning Paved Streets, Gutters, etc.

DISTRICTS.	Paved Streets.	Cleaning Gutters.	Team Patrolling.	Superintending Labor.	STABLE AND YARD.	Repairs.
					Hay, Straw, Grain.	
1.....	\$16,467 74	\$2,797 10	\$1,432 47	\$5,469 61	\$2,715 88	\$304 48
2.....	6,161 25	5,846 29	374 38	4,947 09	2,061 41	80 94
3.....	12,753 27	3,194 53	595 12	2,585 61	2,166 30	126 13
6.....	5,806 78	3,770 50	1 13			
7.....	15,114 60	3,207 62	716 21	1,962 43	2,266 76	6 90
8 { Uptown.....	12,974 20	3,674 87	86 59	7,703 91	7,528 13	83 98
{ Downtown...	41,521 16					
9.....	4,083 10	7,815 58	75 06			
10 { West End....	17,102 61		166 59	8,161 71	6,508 25	47 95
{ North End...	17,633 22		113 96			
Totals.....	\$149,617 93	\$30,306 49	\$3,891 64	\$30,830 36	\$23,246 73	\$650 38

Miles and Areas of Streets Cared for.

DISTRICT No.	Location.	MILES OF STREETS CARED FOR.		SQUARE YARDS CARED FOR.		Total Square Yards.
		Paved.	Macadam.	Paved Streets.	Two Gutters, each 4' 6" Wide.	
1.....	South Boston.....	20.19	17.82	424,000	94,090	518,090
2.....	East Boston.....	7.21	19.23	154,000	101,535	255,535
3.....	Charlestown.....	12.91	11.60	293,000	61,250	354,250
6.....	Dorchester, part.....	5.29	24.32	109,000	128,410	237,410
7.....	Roxbury.....	17.32	9.29	383,000	49,050	432,050
8.....	South End, uptown.....	11.16	12.01	225,000	63,415	288,415
8.....	South End, downtown.....	28.20	1.22	570,000	6,440	576,440
9.....	Back Bay.....	12.46	18.00	252,000	95,040	347,040
10.....	North End.....	9.35	.94	189,000	4,965	193,965
10.....	West End.....	11.48		232,000		232,000
Totals.....		135.57	114.43	2,831,000	604,195	3,435,195



## Summary.

	STREET CLEANING.		STREET WATERING.	
	1907-08.	1908-09.	1907-08.	1908-09.
Labor.....	\$358,111 80	\$312,614 94	\$18,839 24	\$13,989 09
Teaming.....	61,333 25	40,808 39	127,801 50	120,550 70
Division bills.....	31,342 37	29,828 88	3,832 20	2,608 50
Sundry bills.....	50,901 25	36,323 70	1,762 51	586 79
Sundry bills, oil and calcium chloride.....				16,944 82
Totals.....	\$501,688 67	\$419,575 91	\$152,235 45	\$154,679 90

## Property Occupied by the Street Cleaning and Watering Division.

*South Boston.*— Lease of stable No. 162 West Second street.

*East Boston.*— Part of stable on East Eagle street (leased by Paving Division).

*Charlestown.*— Part of stable on Rutherford avenue, city stable (in charge of Sanitary Division).

*Charlestown.*— Office building, Rutherford avenue, city stable.

*Roxbury.*— Part of stable on Highland street, city stable (in charge of Sanitary Division).

*South End.*— Part of stable No. 650 Albany street, city stable (in charge of Sanitary Division).

*West End.*— Part of stable on North Grove street, city stable (in charge of Sanitary Division).

*Back Bay.*— Lease of building at No. 95 Columbus avenue.

## Amount of Hay, Straw, Oats and Shorts Used by the Street Cleaning and Watering Division for the Year 1908.

Hay . . . . .	860,639 lbs.
Straw . . . . .	78,191 "
Shorts . . . . .	22,000 "
Oats . . . . .	14,980 bushels.
Highest price paid for hay . . . . .	\$22.00 per ton.
Lowest price paid for hay . . . . .	14.00 "
Highest price paid for straw . . . . .	19.75 "
Lowest price paid for straw . . . . .	14.50 "
Highest price paid for shorts . . . . .	30.50 "
Lowest price paid for shorts . . . . .	27.00 "
Highest price paid for oats . . . . .	.68 per bu.
Lowest price paid for oats . . . . .	.54 "

## Snow Work for all Districts.

## Crossing and Gutter Work and Snow Removal.

Labor and Superintending Crossings and Gutters.	Snow Removal, Superintending Labor and Teaming.	Loads of Snow Removed.	Cubic Yds. of Snow Removed.	Cost per Load Removed.	Cost per Cubic Yd. Removed.
\$7,865 12	\$33,711 69	33,387 * 368	58,021	\$0 998	\$0 581

Capacity of teams, February, 1908, to July, 1908, 42 cubic feet.  
Capacity of teams, July, 1908, to January 28, 1909, 54 cubic feet.

\* Double loads.

## Distribution of Horses and Rolling Stock.

ITEMS.	1.	2.	3.	7.	South Stable.	West Stable.	Total.
Cart horses . . . . .	15	9	8	5	38	31	106
Driving horses . . . . .	2	1	1	*3	5	1	13
Single carts . . . . .	18	8	10	9	65	24	134
Watering carts . . . . .	2	1	1	1	5	2	12
Single machines . . . . .			1		8		9
Double machines . . . . .	4	2	2	4	20	7	39
Road machines . . . . .					4		4
Express wagons . . . . .	1	1	1	1	1		5
Concord . . . . .	1				1		1
Snow plows . . . . .	1	1	1		2	1	6
Buggies . . . . .	1	2	1	*3	6	1	14

\* Includes two of the deputy superintendent.

## Push-cart Patrol, by Districts.

DISTRICTS.	Superintending Labor and Hired Teams.	Barrel Loads Removed.	Cubic Yards Removed.	Cost per Cubic Yard.	Cost per Barrel.
1. . . . .	\$2,713 46	7,044	913	\$2 97	\$0 385
2. . . . .	548 52	1,276	165	3 32	430
3. . . . .	1,874 40	3,063	397	4 72	612
7. . . . .	4,873 59	11,957	1,550	3 14	407
8. Downtown . . . . .	43 04				
10. Paving (Patrol).. . . . .	7,050 81	12,163	1,651	4 27	579
11. . . . .	48,988 23	87,857	11,389	4 30	557
Totals . . . . .	\$66,092 05	123,360	16,065	* \$4 11	* \$0 536

Capacity of barrels . . . . . 3½ cubic feet.  
Waste barrels emptied . . . . . 15,749  
Subway barrels emptied . . . . . 2,706

Total . . . . . 18,455

\* Average.

Push-cart Patrol System — Total Cost, Including Superintendence, Labor, Hired Teams and Maintenance.

Superintending Labor and Hired Teams.	Cart and Barrel Repairs.	Yard and Plant Repairs and Furnishing.	Horse Furnishings and Shoeing.	Sand.	Holidays Allowed, etc.	Rent, Fuel, Light, Yard Labor.	Total Cost.	Cost per Barrel.	Cost per Cubic Yard.
\$66,092 05	\$1,901 77	\$1,032 94	\$121 26	\$575 30	\$2,613 09	\$3,075 82	\$75,412 23	\$0 611	\$4 69

Cost of Maintaining Horses.

Cost per Horse on a Basis of 365 Days per Year.

DISTRICTS.	SOUTH BOSTON.		EAST BOSTON.		CHARLESTOWN.		ROXBURY.		SOUTH STABLE.		WEST STABLE.		TOTAL.
	AVERAGE NUMBER OF HORSES KEPT.	17.4	10.4	10.5	10.1	43	32.3	123.7					
ITEMS.	Total Cost per Year.	Cost per Day per Horse.	Total Cost per Year.	Cost per Day per Horse.	Total Cost per Year.	Cost per Day per Horse.	Total Cost per Year.	Cost per Day per Horse.	Total Cost per Year.	Cost per Day per Horse.	Total Cost per Year.	Cost per Day per Horse.	Average.
Superintendence...	\$181 52	\$0 029	\$367 27	\$0 097	\$155 89	\$0 041	\$97 79	\$0 027	\$731 41	\$0 046	\$773 75	\$0 065	\$0 051
Labor.....	3,968 67	624	2,446 98	644	2,281 10	592	1,759 82	477	6,972 50	444	7,143 07	606	544
Hay and grain.....	2,715 88	427	2,061 41	543	2,166 30	565	2,266 76	515	7,528 13	479	6,508 25	552	514
Fuel, light and rent,	1,320 02	208	1,065 76	280	105 67	027	104 82	028	307 72	019	236 04	020	069
Shoeing.....	698 75	110	445 75	117	363 75	095	386 00	104	1,602 00	102	1,360 50	115	108
Stable repairs.....	304 48	048	80 94	021	126 13	033	6 90	002	83 98	005	47 95	004	014
Veterinary services and medicine....	215 13	034	117 38	031	118 00	031	122 34	033	779 90	049	302 15	025	036
Totals.....	\$9,404 45	\$1 480	\$6,585 49	\$1 733	\$5,316 84	\$1 384	\$4,744 43	\$1 186	\$18,005 64	\$1 144	\$16,371 71	\$1 387	\$1 336

The stable in South Boston is leased, and all expenditures are made directly by this division.

In East Boston the division occupies the stable as a tenant of the Paving Division, paying its share, per horse, of all expenses.

In Charlestown and Roxbury the division occupies the stables as a tenant of the Sanitary Division, paying a fixed rate per horse, per day, for feed, fuel, light and help.

In the South and West stables the division furnishes feed and help, but pays a fixed rate per day, per horse, for light and fuel.

STREET WATERING.

Table Showing Cost of Teaming and Labor; Miles Cared for by Districts.

DISTRICTS.	Number of Carts.	Cost of Teaming per Year.	Cost of Labor per Year.	Total Cost.	Miles Cared For.	Cost per Mile.	Average Thousand Square Yards per Mile.	Square Yards Cared For.	Cost per Square Yard per Year.
1. South Boston.....	15	\$9,331 13	\$571 50	\$9,902 63	30	\$330 08	21.0	630,000	\$0 0157
2. East Boston.....	11	7,145 00	573 75	7,718 75	25	308 75	21.3	532,500	0144
3. Charlestown.....	8	4,751 63	540 00	5,291 63	16	330 71	22.7	363,200	0145
4. Brighton.....	16	10,173 00	603 00	10,776 00	31	347 61	20.5	635,500	0169
5. West Roxbury.....	26	17,328 00	1,116 00	18,444 00	60	307 40	20.2	1,212,000	0152
6. Dorchester.....	35	22,937 00	2,066 50	25,003 50	83	301 24	20.6	1,709,800	0146
7. Roxbury.....	33	21,512 27	1,100 25	22,612 52	72	314 06	22.1	1,591,200	0142
8. South End.....	16	10,063 50	1,053 00	11,116 50	22	505 29	20.2	444,400	0250
9. Back Bay.....	12	6,454 75	550 13	7,004 88	16	437 80	20.2	323,200	0216
10. City Proper.....	18	10,320 91	1,044 00	11,364 91	25	454 59	20.2	505,000	0225
Totals.....	190	\$120,017 19	\$9,218 13	\$129,235 32	380	\$3,637 53	.....	7,946,800	\$0 1746
Average.....	.....	.....	.....	.....	.....	363 75	20.9	.....	0175

Note.— Cost of teaming includes Street Cleaning work performed for Street Watering, \$216.69; office and Deputy Superintendent's salary not included in labor cost.

Days Out, Cart-Days Worked, Number of Carts Out, Cost of Teaming and Labor, by Months.

MONTHS.	Days Out.	Cart-days Worked.	Average Cart-days Worked.	Number of Carts Out.	Average Carts Out.	Cost of Teaming.	Average Cost per Cart.	Cost of Labor.	Total Cost, Labor and Teaming.	Average Cost per Cart, Labor and Teaming.
March.....	3	13.5	4.5	23	7.0	\$161 42	.....	\$1,104 75	.....	.....
April.....	22	1,049.0	48.0	1,324	60.0	6,272 75	\$104 55	1,385 75	\$7,658 50	\$127 64
May.....	22	2,644.5	120.0	2,893	132.0	15,888 25	120 37	1,078 00	16,966 25	128 61.
June.....	26	4,420.5	170.0	4,717	181.0	26,660 00	147 29	1,079 13	27,739 13	153 25
July.....	25	3,806.5	152.0	4,354	174.0	23,017 75	132 28	1,338 50	24,356 25	139 98
August.....	20	3,181.5	159.0	3,375	169.0	19,274 25	114 05	1,078 00	20,352 25	120 43
September.....	24	3,353.0	140.0	3,464	144.0	20,305 50	141 04	1,347 50	21,653 00	150 37
October.....	19	1,104.0	58.0	1,328	70.0	6,678 75	95 41	754 00	7,432 75	106 18
November.....	10	284.0	28.0	331	33.0	1,703 25	52 40	52 50	1,755 75	53 20
Street cleaning.....	25	37.5	1.5	47	1.6	55 27	.....	.....	.....	.....
Totals.....	196	19,894.0	881.0	21,856	971.6	\$120,017 19	.....	\$9,218 13	.....	.....
Less March and November.....	183	19,549.0	847.0	21,455	930.0	\$118,097 25	.....	\$8,060 88	\$126,158 13	\$926 46
Averages April to October, incl....	22.5	2,792.7	121.0	3,065	132.8	.....	.....	.....	.....	\$132 35

NOTE.—During March only watering carts of the Street Cleaning Division were used. During the remaining months an occasional street cleaning cart was put out to cover particular territory or under extraordinary conditions. The average is given for April to October, inclusive, as that period covers the regular watering season.

**Calcide Process. Calcium Chloride Treatment.**

Districts.	Square Yards Cared For.	Cost per Square Yard.	Total Cost, July to November, Inclusive.	Average Number of Treatments.	Average Days Served by One Treatment.	Miles Cared For.
Back Bay.....	36,777	\$0 04	\$1,471 08	7.30	15.74	1.84
West Roxbury.....	152,050	04	6,082 00	7.64	19.53	10.83
Dorchester.....	79,305	04	3,172 20	5.62	20.22	4.95
Totals.....	268,132	.....	\$10,725 28	20.56	55.49	17.62
Averages.....	.....	.....	.....	6.85	18.49	.....

Previous to contract \$198 was paid for applying two coats to 23,000 square yards. \$3 was paid for teaming, outside contract.

**Oil Application.**

Districts.	Square Yards Cared For.	Miles Cared For.	Total Gallons of Oil Used.	Average Gallons per Yard.	Average Cost per Gallon.	Average Cost per Square Yard.	Estimated Cost for Six Months.	Average Days Served by One Oiling.
Dorchester.....	62,135	3.11	7,316.6	0.102	\$0 109	\$0 0100	\$0 0299	12.21
Roxbury.....	123,350	7.33	8,059.2	.065	108	0080	0502	9.08
South End.....	86,671	4.34	8,252.0	.095	107	0091	0286	11.48
Back Bay.....	207,534	11.00	24,391.7	.117	101	0119	0267	12.73
Totals.....	479,690	25.78	48,019.5	0.379	425	0390	1354	45.50
Averages.....	.....	.....	.....	0.095	106	0098	0339	11.375
Park Department.....	149,668	7.5	23,405.0	0.16	097	0155	0335	8.98

## STREET CLEANING.

### Machine Sweeping of Paved Streets and Gutters.

DISTRICT NUMBER.	PAVED STREETS.			GUTTERS.		TOTAL.	PAVED STREETS.			GUTTERS.			PAVED STREETS AND GUTTERS.			LOADS OF DIRT REMOVED.		CUBIC YARDS OF DIRT REMOVED.		Cost per Cubic Yard of Dirt Removed.	
	Miles Cleaned Once.	Average Thousand Square Yards per Mile.	Thousand Square Yards Cleaned Once.	Miles Cleaned Once.	* Thousand Square Yards Cleaned Once.	Total Thousand Square Yards Cleaned Once, Streets and Gutters.	Total Cost.	Cost per Mile Cleaned Once.	Cost per Thousand Square Yards Cleaned Once.	Total Cost.	Cost per Mile Cleaned Once.	Cost per Thousand Square Yards Cleaned Once.	Total Cost.	Cost per Mile Cleaned Once.	Cost per Thousand Square Yards Cleaned Once.	† Total.	Per Thousand Square Yards.	† Total.	Per Thousand Square Yards.		
1.....	1,591 07	21 0	32,782	763.36	4,030	36,812	\$16,467 74	\$10 54	\$0 502	\$2,797 10	\$3 66	\$0 694	\$19,264 84	\$8 29	\$0 523	18,468	0 50	32,978	0 90	\$0 584	
2.....	649 70	21 3	13,838	684 42	3,613	17,451	6,161 25	9 48	445	5,846 29	8 54	1 617	12,007 54	9 00	688	7,560	.43	13,406	.77	896	
3.....	1,161 68	22 7	26,370	408 23	2,155	28,525	12,753 27	10 98	483	3,194 53	7 84	1 482	15,947 80	10 15	559	9,979	.35	18,247	.64	874	
6.....	227 93	20 6	4,695	720 62	3,804	8,499	5,806 78	25 47	1 236	3,770 50	5 23	991	9,577 28	10 10	1 127	5,235	.62	9,114	1 07	1 051	
7.....	893 65	22 1	19,749	255 99	1,351	21,100	15,114 60	16 91	764	3,207 62	12 53	2 374	18,322 22	15 93	868	8,115	.38	14,453	.68	1 268	
8. [Uptown.....	1,238 77	20 2	25,023	448 44	2,367	27,390	12,974 20	10 47	518	3,674 87	8 19	1 553	16,649 07	9 88	608	8,176	.29	14,401	.53	1 156	
	Downtown.....	5,699 39	20 2	115,127	135 54	715	115,842	41,521 16	7 28	361	.....	.....	41,521 16	7 12	358	17,275	.15	29,978	.26	1 385	
9.....	818 44	20 2	16,532	633 67	3,345	19,877	4,083 10	4 99	247	7,815 58	10 23	2 336	11,898 68	8 19	598	5,043	.25	8,926	.45	1 333	
10. [West End.....	2,162 36	20 2	43,679	184 94	976	44,655	17,102 61	7 91	391	.....	.....	.....	17,102 61	7 29	383	8,101	.18	14,347	.32	1 192	
	North End.....	2,092 72	20 2	40,454	.....	.....	17,633 22	8 80	435	.....	.....	.....	17,633 22	8 80	435	8,088	.19	14,265	.35	1 236	
Totals.....	16,415 71	.....	338,249	4,235 21	22,356	390,605	\$149,617 93	.....	.....	\$30,306 49	.....	.....	\$179,924 42	.....	.....	96,040	.....	170,115	.....	.....	
Average.....	20 9	.....	.....	.....	.....	.....	.....	.....	.....	\$9 11	\$0 442	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1 058

\* Counting each gutter 4½ feet wide.

† Loads: 42 cubic feet up to July 1; 54 cubic feet from July 1 to January 28, 1909.





STREET CLEANING AND WATERING.  
Contracts, Year Ending January 31, 1909.

NATURE OF CONTRACT.	With Whom.	Amount.	Date.
Five years' lease of stable (Street Cleaning) .....	R. S. Brine Transportation Company .....	\$1,000 00	September 1, 1908.
Calcium chloride on streets (Street Watering) .....	Calcium Chloride Company .....	10,923 28	February 1, 1908, to January 31, 1909.

## APPENDIX H.

## REPORT OF THE CIVIL SERVICE CLERK.

BOSTON, February 1, 1909.

MR. GUY C. EMERSON,

*Superintendent of Streets:*

DEAR SIR,— I submit herewith a report of the work performed in connection with the Civil Service Commission for the year ending January 31, 1909:

Requisitions made . . . . .	71
Requisitions canceled . . . . .	3
Certificates returned, no selection being made . . . . .	26
Number of men called for . . . . .	208
Number of men certified . . . . .	364
Number of men selected, including veterans . . . . .	80
Number of veterans appointed . . . . .	5
Number of men appointed provisionally . . . . .	7
Applications made for promotion . . . . .	39
Promotions allowed . . . . .	5
Promotions allowed provisionally . . . . .	34
Requests for permission to reinstate . . . . .	16
Requests for permission to reinstate allowed . . . . .	9
Requests for permission to reinstate not allowed . . . . .	7
Number of men resigned through absence . . . . .	63
Number of men resigned through absence reinstated . . . . .	24
Number of men reported to Civil Service Commission as not having worked for more than six months . . . . .	427
Number of men reported to Civil Service Commission as having resigned . . . . .	20
Number of men reported to Civil Service Commission dead . . . . .	89
Number of discharges forwarded to Civil Service Commissioners . . . . .	253

Number of transfers made from other city and state departments to the Street Department, as follows:

From Bath Department . . . . .	1
From Charles River Basin Commission . . . . .	2
From Metropolitan Park Department . . . . .	2
From Metropolitan Water and Sewerage Board . . . . .	1

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Number of transfers from the Street Department to other city and state departments, as follows:

To Charles River Basin Commission . . . . .	1
To Fire Department . . . . .	1
To Metropolitan Water and Sewerage Board . . . . .	3
To Police Department . . . . .	3
To Schoolhouse Department . . . . .	1
	9

### Grade and Number of Employees.

TITLE.	DIVISIONS.								Total.
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lamp.	
Superintendent . . . . .	1								1
Deputies . . . . .		1	1	1	1	1	1	1	7
Clerks . . . . .	4	25	20	7	5	2	2	1	66
Messengers . . . . .	1	5	1	2	1		1	1	12
Chief engineers (civil) . . . . .		1	1						2
Assistant engineers (civil) . . . . .		5	14						19
Draughtsmen . . . . .			15						15
Instrument-men . . . . .			10						10
Rodmen . . . . .		2	25						27
Aids and tallymen . . . . .		3	1						4
Axeman . . . . .		1							1
Inspectors . . . . .		37	42	39	4			4	126
Foremen . . . . .		9	9	7	9				34
Sub-foremen . . . . .		23	5		26		3		57
Blacksmiths and assistants . . . . .		6	4	12					22
Boilermakers and assistants . . . . .						2			2
Bracers and assistants . . . . .			15						15
Boys . . . . .		1			1				2
Chauffeurs . . . . .		1	2						3
Carpenters and assistants . . . . .		8	13	1		2	5		29
Chief inspector . . . . .			1						1
Cement testers . . . . .			2						2
<i>Carried forward</i> . . . . .	6	128	181	69	47	7	12	7	457

## Grade and Number of Employees.—Continued.

TITLE.	DIVISIONS.								Total.
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lamp.	
<i>Brought forward</i> .....	6	128	181	69	47	7	12	7	457
Coal passers .....			8						8
Cashier .....						1			1
Drawtenders and assistants .....							132		132
Drivers .....		4	2	1	1		1		9
Dynamo tender .....			1						1
Deckhands .....						21			21
Dumpers .....				22					22
Engineers (steam) .....		14	18		1				33
Engineers (marine) .....						12			12
Electricians .....			1			1	1		3
Filth-hoist men .....			4						4
Feeder .....		1							1
Firemen .....			13			36			49
Gatemen .....			4			13			17
Harnessmakers and assistants .....		1		4					5
Horseshoers .....				4					4
Hostlers .....			12				1		13
Janitors .....		1		1		6	1		9
Janitresses .....						5			5
Joiners .....						3			3
Laborers and helpers .....		426	243	461	297	6	2		1,435
Lamplighters .....						2			2
Machinists and assistants .....			7			1	1		9
Mate .....			1						1
Masons (stone and brick) .....			8						8
Mechanic on scows .....				1					1
Oilers .....			13			8			21
Oil tester .....			1						1
Pavers and assistants .....		7							7
Painters .....		2		7	1	1	5		16
Pilots .....			1			11			12
Pipe layers .....			2						2
<i>Carried forward</i> .....	6	584	520	570	347	134	156	7	2,324

Grade and Number of Employees.—*Concluded.*

TITLE.	DIVISIONS.								Total.
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lamp.	
<i>Brought forward</i> .....	6	584	520	570	347	134	156	7	2,324
Powdermen .....		6							6
Quartermasters .....						11			11
Rigger .....						1			1
Rammers .....		6							6
Supervisor of construction .....							1		1
Sailors .....			2						2
Steam drillers .....		4	1						5
Sanitary engineer .....				1					1
Stenographers .....		1	2				1		4
Sign painters .....				2					2
Stonecutters .....		6	2						8
Superintendent main drainage .....			1						1
Storekeepers .....			1			1			2
Scowmen .....				3					3
Stablemen .....		14		29	17		1		61
Sweeping machine drivers .....					24				24
Teamsters .....		76	29				3		108
Tollmen .....						12			12
Watchmen .....		22	31	6	5	3	5	1	73
Weighers and assistants .....		6		1					7
Wharfingers and assistants .....		2		1					3
Wheelwrights and assistants .....				3					3
Yardmen .....		2	6	12	3				23
Totals .....	6	729	595	628	396	162	167	8	2,691

**Comparative Table Showing the Number of Employees February 1, 1908, and February 1, 1909.**

	Central Office.	Bridge.	Ferry.	Lamp.	Paving.	Sanitary.	Sewer.	Street Cleaning and Watering.	Total.
February 1, 1908 .....	168	193	153	886	731	855	500	3,486	
February 1, 1909 ..	6	167	162	8	729	628	595	2,691	

Respectfully submitted,

DANIEL R. MURRAY,  
*Civil Service Clerk.*

## APPENDIX I.

---

 REPORT OF THE COMMISSIONERS OF BOSTON AND  
 CAMBRIDGE BRIDGES.
 

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Appropriation . . . . .	None
Expenditures . . . . .	\$18,524 29

The commission is composed of two members, one appointed by the Mayor of the City of Boston and the other appointed by the Mayor of the City of Cambridge. They have charge of the care and maintenance of the following seven bridges connecting Boston and Cambridge: Brookline Street, Cambridge, Cambridge Street, Harvard, North Harvard Street, Prison Point and Western Avenue to Cambridge.

As no specific appropriation was made for the work of the past year, the Boston share of the expenses was paid directly from the appropriation for Bridge Division, Street Department.

The bridges under the charge of the commission are, in general, in need of considerable repairs in the lines of renewal of woodwork and painting. This is particularly true of Harvard, Cambridge Street, North Harvard Street and Western Avenue bridges.

As usual, the greater portion of the executive work of the Commission has been performed by the Cambridge member.

**Boston and Cambridge Bridges.**  
*Draw Openings, February 1, 1908, to January 31, 1909.*

	CAMBRIDGE STREET.		HARVARD.		PRISON POINT.		NORTH HARVARD STREET.		WESTERN AVENUE.	
	Number of Openings.	Number of Vessels.	Number of Openings.	Number of Vessels.	Number of Openings.	Number of Vessels.	Number of Openings.	Number of Vessels.	Number of Openings.	Number of Vessels.
February.....			4	4	56	166				
March.....			18	27	68	120				
April.....	29	90	57	90	23	46	22	79	24	82
May.....	93	348	81	136	26	49	85	336	86	337
June.....	36	93	102	102	20	94	28	77	28	77
July.....	20	34	71	119	29	56	12	18	12	18
August.....	8	13	79	131	21	39	2	3	8	15
September.....	32	35	273	475	33	67	12	19	22	35
October.....	72	121	98	129	19	37	4	6	15	21
November.....	29	42	69	136	21	44	10	16	17	23
December.....	6	11	56	86	17	36				
January, 1909.....					12	19				
Totals.....	325	787	908	1,435	345	773	175	554	212	608



**Boston and Cambridge Bridges — Concluded.**  
*Expenditures by the City of Boston, February 1, 1908, to January 31, 1909, Being One-half of Cost of These Bridges,  
 the Other Half Being Paid by the City of Cambridge.*

	Brookline Street.	Cambridge.	Cambridge Street.	Harvard.	North Harvard Street.	Prison Point.	Western Avenue.	General Account.	Totals.
Maintenance:									
Drawtenders and caretakers.....		\$2,588 47	\$1,202 58	\$2,837 89	\$431 99	\$2,783 82	\$1,118 58	.....	\$10,963 33
Lighting.....	\$276 66	2,415 68	45 00	1,097 12	.....	22 50	45 00	.....	3,901 96
Cleaning bridges.....	39 00	.....	.....	78 75	.....	21 00	.....	.....	138 75
Fuel.....	.....	.....	11 54	31 72	.....	11 54	.....	.....	54 80
Tools and hardware.....	87	32 02	20 35	46 20	6 55	10 58	7 00	.....	123 57
Commissioner.....	.....	.....	.....	.....	.....	.....	.....	\$233 32	233 32
Clerical services.....	.....	.....	.....	.....	.....	.....	.....	250 03	250 03
Printing, stationery and postage.....	.....	.....	.....	.....	.....	.....	.....	67 87	67 87
Travelling expenses.....	.....	.....	.....	.....	.....	.....	.....	35 00	35 00
Sundry expenses.....	.....	3 75	5 96	26 59	.....	6 68	.....	57 95	100 93
Repairs:									
Lumber.....	56 26	.....	42 91	374 22	109 58	100 13	165 79	.....	848 89
Ironwork.....	.....	123 52	22 00	160 57	.....	3 13	24 75	.....	333 97
General.....	51 38	30 59	54 11	999 26	110 23	29 90	196 40	.....	1,471 87
Totals.....	\$424 17	\$5,194 03	\$1,404 45	\$5,652 32	\$658 35	\$2,989 28	\$1,557 52	\$644 17	\$18,524 29

APPENDIX J.

Purchases Made for Street Department Divisions by the Supply Department, Year ending January 31, 1909.

(Reprint from Annual Report of the Supply Department.)

	Bridge.	Ferry.	Lamp.	Paving.	Sanitary.	Sewer.	Street Cleaning and Watering.
Auto supplies.....				\$2,482 87	\$2,119 29	\$1,029 43	\$27 00
Bags.....						420 12	11 49
Badges.....				3 75	20 16	3 75	
Blankets.....	\$23 00		\$3 75	136 00	56 75	136 00	60 00
Bricks, paving.....	1 26	\$4 00		8,067 72			
Bricks, sewer.....						16,236 97	
Brooms.....	104 10	192 98		105 44	249 23	94 85	1,374 47
Carriage supplies.....	50 60			280 81	2,132 '57	60 43	82 95
Castings.....	10 01	164 87		308 44	4,295 05	3,712 97	5 00
Cement (Natural).....				17 85		523 50	
Cement (Portland).....		19 60		250 10		30,547 96	
Chemicals.....	6 00	21 34		223 03		7 13	80 00
Clocks.....	6 50			9 85		62 15	
Coal (bituminous).....		31,536 48		1,455 85	198 55	27,554 53	

Coal (anthracite).....	3,128 54				6,190 91	1,254 41	4,783 94	237 79
Corn.....	10 59				321 15	276 45	81 02	
Car tickets.....	15 80	20 00					191 00	26 00
Disinfectant.....					61 95	106 25	133 25	
Draughting supplies.....	3 45				109 05		1,343 58	30 00
Drugs.....	15 90	2 83			44 88	110 20	52 90	42 25
Dry goods.....	6 00				32 78	70 44	48 37	
Edgestones.....					19,182 52			
Electric supplies.....	124 83	235 28			59 14	11 44	421 43	
Explosives.....					602 45		91 63	
Engine parts.....	104 68	400 30			1,039 01	277 54	5,013 27	597 73
Flagging.....					4,702 89		6 00	
Furniture.....	12 24			3 00	6 00			
Garbage cans.....	27 80	65 60			7 65	360 25	95 30	421 27
Gasolene.....					84 95		90 57	
Glass.....	11 25	36 19		173 43	28 69	35 75	20 43	
Gravel, bank.....					9,331 61		3,011 51	
Gravel, beach.....					1,840 50			
Grease.....	9 89	123 68			58 21	113 56	253 68	43 30
Hardware.....	2,530 05	579 09			430 15	680 49	843 10	69 40
Harnesses.....				1 35	205 92	1,214 69	142 56	6 00
<i>Carried forward.</i> .....	\$6,202 49	\$33,402 24	\$181 53		\$57,731 62	\$9,592 07	\$97,013 33	\$3,064 65

## Purchases Made for Street Department Divisions by the Supply Department. — Continued.

	Bridge.	Ferry.	Lamp.	'Paving.	Sanitary.	Sewer.	Street Cleaning and Watering.
<i>Brought forward</i> .....	\$6,202 49	\$33,402 24	\$181 53	\$57,731 62	\$9,592 07	\$97,013 33	\$3,064 65
Hay.....	639 89	.....	.....	10,152 83	18,519 77	4,439 66	5,331 55
Horses.....	.....	.....	.....	.....	4,515 00	.....	.....
Horse supplies.....	51 73	.....	.....	630 92	2,221 58	108 62	87 38
Hose.....	14 00	396 45	.....	142 87	143 53	1,618 45	300 27
Hospital supplies.....	.....	.....	.....	.....	.....	12 00	.....
Iron.....	.....	67 26	.....	65 08	1,200 13	169 56	10 30
Lead, white.....	39 00	258 10	.....	.....	201 75	42 69	.....
Lighting supplies.....	54 48	156 17	.....	335 80	2 97	219 46	5 92
Lime.....	.....	.....	.....	1 25	3 40	5 00	1 25
Lumber, spruce.....	10,461 21	2,800 52	.....	4,810 64	1,743 84	19,687 07	71 44
Lumber, hard pine.....	1,735 13	1,380 11	.....	359 30	154 43	755 52	12 55
Lumber, hard wood.....	1,084 29	2,349 32	.....	659 71	1,916 44	374 76	.....
Oats.....	596 86	.....	.....	10,643 17	31,883 54	4,543 71	9,877 94
Oatmeal.....	.....	.....	.....	106 10	.....	116 89	.....
Office supplies.....	.....	28 50	.....	21 75	24 01	311 73	1 50
Oil, cylinder.....	875 15	796 13	.....	220 16	15 50	691 11	11 80
Oil, engine.....	77 57	611 83	.....	112 53	.....	723 57	87 54

Oil, illuminating.....	70 79	300 22	.....	701 90	68 96	803 57	13 65
Oil, road.....	.....	.....	.....	.....	.....	.....	2,381 16
Oil, linseed.....	23 43	128 60	.....	9 05	70 06	29 60	3 30
Machinery.....	.....	.....	.....	245 00	.....	2,836 00	1,551 71
Manhole covers.....	.....	.....	.....	.....	.....	5,547 29	.....
Manhole steps.....	.....	.....	.....	.....	.....	987 38	.....
Packing.....	10 30	491 61	.....	77 36	.....	3,925 75	5 00
Paints.....	114 25	271 41	.....	124 43	536 96	142 18	72 81
Paving blocks.....	.....	.....	.....	10,429 91	.....	170 50	.....
Pipe, iron.....	.....	29 44	.....	.....	.....	951 55	28 88
Pipe, sewer.....	.....	.....	.....	.....	26 23	.....	.....
Plumbers' supplies.....	.....	18 00	.....	.....	28 00	6,613 57	.....
Polish, metal.....	.....	55 83	.....	15 75	5 49	873 83	.....
Rugs.....	.....	.....	.....	.....	10 00	157 30	6 10
Rubber goods.....	13 06	.....	.....	19 13	32 50	32 73	.....
Salt.....	19 40	.....	.....	11 18	22 81	2,837 00	71 33
Sand, bank.....	.....	.....	.....	4,665 00	31 91	88 46	.....
Sand, beach.....	.....	.....	.....	1,975 85	.....	5,783 08	40 00
Seeds.....	50 00	.....	.....	.....	.....	53 45	239 65
Sewer traps.....	.....	.....	.....	.....	.....	14 11	.....
Ship chandlery.....	178 20	715 12	.....	23 79	1,050 82	4,103 84	6 68
<i>Carried forward.....</i>	\$22,361 23	\$44,256 86	\$181 53	\$104,292 08	\$74,021 70	\$167,451 76	\$23,284 36



## APPENDIX K.

FORMER SUPERINTENDENTS AND DOCUMENT  
NUMBERS OF ANNUAL REPORTS.

## Bridge Department before 1891.

*Previous to 1886 under charge of City Engineer.*

NAME.	Year.
Bartholomew M. Young.....	1886 to 1889
James H. Nugent.....	1889 to 1891

## Bridge Department before 1891.

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report.....	1886	1887	29
" ".....	1887	1888	26
" ".....	1888	1889	29
" ".....	1889	1890	22
" ".....	1890	1891	*

\* Published in annual report, Executive Department, Part I., City Document No. 1, 1891.

## Lamp Department before April 6, 1908.

SUPERINTENDENTS.	From	To
William Barnicoat.....	1854	Feb. 18, 1867
George H. Allen, Acting Superintendent..	Feb. 19, 1867	April 1, 1867
George H. Allen.....	April 1, 1868	April 2, 1883
Hugh J. Toland.....	April 2, 1883	April 18, 1884
John T. Manson.....	April 18, 1884	April 6, 1885
Hugh J. Toland.....	April 6, 1885	May 1, 1889
George H. Allen.....	May 1, 1889	June 1, 1891
Patrick O'Shea.....	June 1, 1891	May 1, 1895
James Buckner.....	May 1, 1895	Oct. 1, 1896
James Donovan.....	Oct. 1, 1896	Mar. 1, 1900
Bertrand T. Wheeler, Acting Superintend- ent.....	Mar. 1, 1900	Mar. 10, 1900
William D. Lang.....	Mar. 10, 1900	July 28, 1901
William Jackson, Acting Superintendent..	July 28, 1901	Jan. 30, 1902
John Drohan.....	Jan. 30, 1902	Aug. 10, 1902
James Donovan, Acting Superintendent..	Aug. 10, 1902	Jan. 3, 1906
Charles Logue, Acting Superintendent....	Jan. 3, 1906	Feb. 28, 1906
Dennis J. Hern.....	Feb. 28, 1906	April 5, 1908
Edward C. Wade, Acting Superintendent.	April 5, 1908	April 6, 1908

## Paving Department before 1891.

NAME.	Year.
Enoch Patterson, Superintendent Streets and Drains.....	1825 to 1831
Zephaniah Sampson, " " " " .....	1831 to 1846
Thomas Hunting, Superintendent.....	1846 to 1853
Alfred T. Turner, " .....	1853 to 1864
Charles Harris, " .....	1864 to 1883
Nehemiah T. Merritt, " .....	1883
James J. Flynn, " .....	1883
Charles Harris, " .....	1884
Michael Meehan, " .....	1884 to 1886
John W. McDonald, " .....	1886 to 1889
J. Edwin Jones, " .....	1889 to 1891

## Paving Department before 1891.

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Quarterly report.....		1851	6
" " .....		1851	29
Annual report.....	1851	1852	2
" " .....	1852	1853	6
" " .....	1853	1854	6
" " .....	1854	1855	5
" " .....	1855	1856	3
" " .....	1856	1857	3
" " .....	1857	1858	3
" " .....	1858	1859	5
" " .....	1859	1860	6
" " .....	1860	1861	5
" " .....	1861	1862	4
" " .....	1862	1863	3
" " .....	1863	1864	3
" " .....	1864	1865	7
" " .....	1865	1866	3
" " .....	1866	1867	6
" " .....	1867	1868	9
" " .....	1868	1869	14
" " .....	1869	1870	13
" " .....	1870	1871	12
" " .....	1871	1872	16
" " .....	1872	1873	21
" " .....	1873	1874	25
" " .....	1874	1875	27
" " .....	1875	1876	30
" " .....	1876	1877	38
" " .....	1877	1878	29
" " .....	1878	1879	24
" " .....	1879	1880	24
" " .....	1880	1881	48
" " .....	1881	1882	51
" " .....	1882	1883	47
" " .....	1883	1884	46



Paving Department before 1891.—*Concluded.*

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report . . . . .	1884	1885	97
" " . . . . .	1885	1886	30
" " . . . . .	1886	1887	16
" " . . . . .	1887	1888	23
" " . . . . .	1888	1889	30
" " . . . . .	1889	1890	19
" " . . . . .	1890	1891	*

\* Published in annual report, Executive Department, Part II., City Document No. 1, 1891.

## Sewer Department before 1891.

NAME.	Year.
Enoch Patterson, Superintendent . . . . .	1825 to 1831
Zephaniah Sampson, " . . . . .	1831 to 1837
Charles B. Wells, " . . . . .	1837 to 1856
Simeon B. Smith, " . . . . .	1856 to 1863
William H. Bradley, " . . . . .	1863 to 1883
Horace A. Moses, " . . . . .	1883 to 1885
Thomas J. Young, " . . . . .	1885 to 1887
Seth Perkins, " . . . . .	1887 to 1889
Charles Morton, " . . . . .	1889 to 1891

## Sewer Department before 1891.

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report . . . . .	1859	1861	11
" " . . . . .	1860	1861	12
" " . . . . .	1861	1862	12
" " . . . . .	1862	1863	13
" " . . . . .	1863	1864	11
" " . . . . .	1864	1865	5
" " . . . . .	1865	1866	6
" " . . . . .	1866	1867	8
" " . . . . .	1867	1868	13
" " . . . . .	1868	1869	11
" " . . . . .	1869	1870	3
" " . . . . .	1870	1871	11
" " . . . . .	1871	1872	10
" " . . . . .	1872	1873	13
" " . . . . .	1873	1874	12
" " . . . . .	1874	1875	17
" " . . . . .	1875	1876	11
" " . . . . .	1876	1877	13
" " . . . . .	1877	1878	15
" " . . . . .	1878	1879	11
" " . . . . .	1879	1880	16

Sewer Department before 1891.—*Concluded.*

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report .....	1880	1881	19
" " .....	1881	1882	18
" " .....	1882	1883	16
" " .....	1883	1884	43
" " .....	1884	1885	
" " .....	1885	1886	58
" " .....	1886	1887	69
" " .....	1887	1888	81
" " .....	1888	1889	129
" " .....	1889	1890	14
" " .....	1890	1891	*

\* Published in annual report, Executive Department, Part II., City Document No. 1, 1891.

## Health Department before 1891.

*Sanitary.*

NAME.	Year.
Ezra Forristall, Superintendent.....	1853 to 1854
Joseph W. Coburn, " .....	1854 to 1855
Ezra Forristall, " .....	1855 to 1869
George W. Forristall, " .....	1869 to 1890

## Health Department before 1891.

*Sanitary.*

NAME OF DOCUMENT.	Year.	Pub. Year.	No. of Doc.
Annual report .....	1853	1854	7
" " .....	1854	1855	6
" " .....	1855	1856	4
" " .....	1856	1857	4
" " .....	1857	1858	4
" " .....	1858	1859	4
" " .....	1859	1860	5
" " .....	1860	1861	6
" " .....	1861	1862	5
" " .....	1862	1863	5
" " .....	1863	1864	4
" " .....	1864	1865	4
" " .....	1865	1866	8
" " .....	1866	1867	7
" " .....	1867	1868	8
" " .....	1868	1869	12
" " .....	1869	1870	4

Health Department before 1891.—*Concluded.*

NAME OF DOCUMENT.	Year.	Pub. Year.	No. of Doc.
Annual report.....	1870	1871	10
“ “ .....	1871	1872	17
“ “ .....	1872	1873	40
Annual reports from 1873 to 1884, inclusive; the Superintendent's report was embodied in the report of the Board of Health.....	1885	1886	45
Annual report.....	1886	1887	22
“ “ .....	1887	1888	16
“ “ .....	1888	1889	23
“ “ .....	1889	1890	21
“ “ .....	1890	1891	*

\* Published in annual report, Executive Department, Part II., City Document No. 1, 1891.

## Commissioners of Cambridge Bridges before 1891.

(West Boston, Canal and Prison Point.)

NAME.	YEAR.
Frederick W. Lincoln, Commissioner for Boston....	{ May 22, 1871, to March, 1901.
Ezra Parmenter, Commissioner for Cambridge.....	{ June 14, 1871, to Jan. 31, 1883.
William J. Marvin, Commissioner for Cambridge....	{ March 28, 1883, to July 22, 1904.
George M. Clukas, Commissioner for Cambridge....	{ July 26, 1904, to present time.

NOTE.—Harvard Bridge added in 1892. Essex Street, Cambridge Street, North Harvard Street, and Western Avenue bridges to Cambridge were transferred from Street Department July 1, 1898.

## Commissioners of Cambridge Bridges before 1891.

(West Boston, Canal and Prison Point.)

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report.....	1871	1872	19
“ “ .....	1872	1873	12
“ “ .....	1873	1874	16
“ “ .....	1874	1875	23
“ “ .....	1875	1876	20
“ “ .....	1876	1877	12
“ “ .....	1877	1878	10
“ “ .....	1878	1879	8
“ “ .....	1879	1880	12
“ “ .....	1880	1881	8

Commissioners of Cambridge Bridges before 1891.—*Concluded.*

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report . . . . .	1881	1882	15
" " . . . . .	1882	1883	15
" " . . . . .	1883	1884	19
" " . . . . .	1884	1885	8
" " . . . . .	1885	1886	12
" " . . . . .	1886	1887	19
" " . . . . .	1887	1888	25
" " . . . . .	1888	1889	22
" " . . . . .	1889	1890	20
" " . . . . .	1890	1891	*

\* Published in annual report, Executive Department, Part I., City Document No. 1, 1891.

## Ferry Department before 1895.

NAME.	Year.	
Board of Ferry Directors . . . . .	1870	1891
William J. Burke, Superintendent . . . . .	1891	May 1, 1895
Thomas Kellough . . . . .	May 1, 1895	July 1, 1895

## Ferry Department before 1895.

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report . . . . .	1870	1871	41
" " . . . . .	1871	1872	55
" " . . . . .	1872	1873	81
" " . . . . .	1873	1874	42
" " . . . . .	1874	1875	65
" " . . . . .	1875	1876	51
" " . . . . .	1876	1877	53
" " . . . . .	1877	1878	49
" " . . . . .	1878	1879	60
" " . . . . .	1879	1880	74
" " . . . . .	1880	1881	77
" " . . . . .	1881	1882	72
" " . . . . .	1882	1883	93
" " . . . . .	1883	1884	76
" " . . . . .	1884	1885	72
" " . . . . .	1885	1886	28
" " . . . . .	1886	1887	12
" " . . . . .	1887	1888	10
" " . . . . .	1888	1889	3
" " . . . . .	1889	1890	4
" " . . . . .	1890	1891	*
" " . . . . .	1891	1892	12
" " . . . . .	1892	1893	11
" " . . . . .	1893	1894	11
" " . . . . .	1894	1895	11

\* Published in annual report, Executive Department, Part I., City Document No. 1, 1891.

## Street Department since 1891.

*Superintendent.*

Henry H. Carter, Member of American Society Civil Engineers.

*Resigned December 8, 1894.*

Charles R. Cutter, *Acting Superintendent from December 8, 1894, to January 14, 1895.*  
Member of the Boston Society Civil Engineers.

Bertrand T. Wheeler, *Superintendent from January 14, 1895, to February 4, 1896.*  
Member of the Boston Society Civil Engineers.

Benjamin W. Wells, *Superintendent from February 4, 1896, to February 1, 1900.*

Bertrand T. Wheeler, *Superintendent from February 2, 1900, to November 25, 1901.*  
Member of the Boston Society Civil Engineers.  
*Resigned November 25, 1901.*

William Jackson, *Acting Superintendent from November 25, 1901, to January 14, 1902.*  
Member of American Society Civil Engineers.

Guy C. Emerson, *Deputy Superintendent in charge of the department from November 25, 1901, to January 14, 1902.*

Member of American Society Civil Engineers.

Member of the Boston Society Civil Engineers.

James Donovan, *Superintendent from January 14, 1902, to January 2, 1906.*  
*Resigned January 2, 1906.*

Charles Logue, *Acting Superintendent from January 2, 1906, to February 28, 1906.*

James H. Doyle, *Superintendent from March 1, 1906, to January 6, 1908.*

*Resigned January 6, 1908.*

William Jackson, *Acting Superintendent from January 6, 1908, to April 13, 1908.*  
Member of American Society Civil Engineers.

James H. Sullivan, *Executive Engineer in charge of the department from January 6, 1908, to April 13, 1908.*

Guy C. Emerson, *Superintendent from April 14, 1908, to the present time.*

Member of American Society Civil Engineers.

Member of the Boston Society Civil Engineers.

BRIDGE DIVISION.— John A. McLaughlin, *Deputy Superintendent until June 1, 1895.*

BRIDGE DIVISION.— John P. Wise, *Deputy Superintendent from June 1, 1895, to February 14, 1896.*

BRIDGE DIVISION.— William K. Carberry, *Deputy Superintendent from February 14, 1896, to February 3, 1900.*

BRIDGE DIVISION.— Walter Reed, *Deputy Superintendent from February 3, 1900, to January 22, 1902.*

BRIDGE DIVISION.— Joseph P. Lomasney, *Deputy Superintendent from January 22, 1902, to December 30, 1905. Resigned December 30, 1905.*

BRIDGE DIVISION.— Peter O'Neil, *Acting Deputy Superintendent from December 30, 1905, to January 3, 1906.*

BRIDGE DIVISION.— Daniel J. Byrne, *Acting Deputy Superintendent from January 3, 1906, to February 23, 1906.*

BRIDGE DEPARTMENT.— Patrick F. McDonald, *Superintendent from March 1, 1906, to April 5, 1908.*

BRIDGE DEPARTMENT.— Thomas H. Sexton, *Acting Superintendent from April 5, 1908, to April 6, 1908.*

BRIDGE DIVISION.— Thomas H. Sexton, *Acting Deputy Superintendent from April 6, 1908, to July 17, 1908.*

- BRIDGE DIVISION.— Thomas H. Sexton, *Deputy Superintendent from July 17, 1908, to the present time.*
- FERRY DIVISION.— Thomas Kellough, *Deputy Superintendent from July 1, 1895, to February 14, 1896.*
- FERRY DIVISION.— William F. McClellan, *Deputy Superintendent from February 14, 1896, to February 3, 1900.*
- FERRY DIVISION.— Joseph J. Dennison, *Deputy Superintendent from February 3, 1900, to January 22, 1902.*
- FERRY DIVISION.— William J. Donovan, *Deputy Superintendent from January 22, 1902, to January 3, 1906. Resigned. Acting Deputy Superintendent from January 3, 1906, to February 1, 1906.*
- FERRY DIVISION.— Joseph F. Low, *Acting Deputy Superintendent from February 1, 1906, to May 14, 1906.*
- FERRY DIVISION.— John J. Douglass, *Deputy Superintendent from May 14, 1906, to March 9, 1907.*
- FERRY DIVISION.— James H. Sullivan, *Executive Engineer in charge of division from March 9, 1907, to January 20, 1908.*
- FERRY DIVISION.— Henry P. Christiernin, *Deputy Superintendent from January 20, 1908, to the present time.*
- LAMP DIVISION.— Edward C. Wade, *Acting Deputy Superintendent from April 6, 1908, to July, 17, 1908.*
- LAMP DIVISION.— Edward C. Wade, *Deputy Superintendent from July 17, 1908, to the present time.*
- PAVING DIVISION.— Charles R. Cutter, *Deputy Superintendent until January 24, 1895.*
- PAVING DIVISION.— Darius N. Payson, *Deputy Superintendent from January 24, 1895, to March 1, 1896.*
- PAVING DIVISION.— John L. Kelly, *Deputy Superintendent from March 1, 1896, to February 3, 1900.*
- PAVING DIVISION.— Darius N. Payson, *Deputy Superintendent from February 3, 1900, to January 24, 1902.*
- PAVING DIVISION.— Joshua Atwood, 3d, *Acting Deputy Superintendent from January 24, 1902, to March 26, 1902.*
- PAVING DIVISION.— Henry V. Macksey, *Deputy Superintendent from March 26, 1902, to December 2, 1905. Resigned December 2, 1905.*
- \* PAVING DIVISION.— James H. Sullivan, *Acting Deputy Superintendent from December 2, 1905, to February 28, 1906.*
- PAVING DIVISION.— James H. Sullivan, *Acting Deputy Superintendent from April 6, 1908, to July 17, 1908.*
- PAVING DIVISION.— James H. Sullivan, *Deputy Superintendent from July 17, 1908, to the present time.*
- SANITARY DIVISION.— George W. Forristall, † *Deputy Superintendent.*
- SANITARY DIVISION.— Philip A. Jackson, *Acting Deputy Superintendent from January 16, 1894, to February 1, 1895.*
- SANITARY DIVISION.— Charles A. Young, *Deputy Superintendent from February 1, 1895, to March 1, 1896.*
- SANITARY DIVISION.— Patrick O'Shea, *Deputy Superintendent from March 1, 1896, to February 3, 1900.*

\* For period from February 28, 1906, to April 6, 1908, see Street Department since 1891, page 407.

† Died January 12, 1894.

- SANITARY DIVISION.— Charles A. Young, *Deputy Superintendent from February 3, 1900, to January 22, 1902.*
- SANITARY DIVISION.— Daniel P. Sullivan, *Deputy Superintendent from January 22, 1902, to January 3, 1906. Resigned. Acting Deputy Superintendent from January 3, 1906, to March 1, 1906.*
- SANITARY DEPARTMENT.— Daniel H. Gillespie, *Superintendent from March 1, 1906, to April 6, 1908.*
- SANITARY DIVISION.— Daniel H. Gillespie, *Acting Deputy Superintendent from April 6, 1908, to May 8, 1908.*
- SANITARY DIVISION.— George H. Foss, *Acting Deputy Superintendent from May 8 to May 25, 1908.*
- SANITARY DIVISION.— George H. Foss, *Deputy Superintendent from May 25, 1908, to the present time.*
- SEWER DIVISION.— Henry W. Sanborn, *Deputy Superintendent until July 10, 1896. Member of Philadelphia Society Civil Engineers.*
- SEWER DIVISION.— Charles R. Cutter, *Deputy Superintendent from July 10, 1896, to February 3, 1900. Member of the Boston Society Civil Engineers.*
- SEWER DIVISION.— Guy C. Emerson, *Deputy Superintendent from February 3, 1900, to November 25, 1901, and from January 14 to January 22, 1902. Member of American Society Civil Engineers. Member of the Boston Society Civil Engineers.*
- SEWER DIVISION.— Henry W. Sanborn, *Acting Deputy Superintendent from November 25, 1901, to January 14, 1902. Member of Philadelphia Society Civil Engineers.*
- SEWER DIVISION.— George Phillips, *Deputy Superintendent from January 22, 1902, to January 3, 1906. Resigned.*
- SEWER DIVISION.— George Phillips, *Acting Deputy Superintendent from January 3, 1906, to January 18, 1906.*
- SEWER DIVISION.— Edgar S. Dorr, *Acting Deputy Superintendent from January 18, 1906, to March 1, 1906.*
- SEWER DEPARTMENT.— John J. Leahy, *Superintendent from March 1, 1906, to January 10, 1908.*
- SEWER DEPARTMENT.— Charles R. Cutter, *Acting Superintendent from January 10, 1908, to April 6, 1908.*
- SEWER DIVISION.— Charles R. Cutter, *Acting Deputy Superintendent from April 6, 1908, to the present time.*
- STREET CLEANING DIVISION.— Philip A. Jackson, *Deputy Superintendent until March 22, 1895.*
- STREET CLEANING DIVISION.— Benjamin M. Cram, *Deputy Superintendent from March 22, 1895, to March 1, 1906.*
- STREET CLEANING DIVISION.— Joshua Atwood, 3d, *Deputy Superintendent from March 1, 1896, to February 3, 1900. Member of the Boston Society Civil Engineers.*
- STREET CLEANING DIVISION.— Frank H. Haynes, *Deputy Superintendent from February 3, 1900, to April 16, 1901. Resigned April 16, 1901.*
- STREET CLEANING DIVISION.— Frank C. Shepard, *Deputy Superintendent from April 16, 1901, to January 22, 1902.*
- STREET CLEANING DIVISION.— Joseph J. Norton, *Deputy Superintendent from January 22, 1902, to January 3, 1906. Resigned. Acting Deputy Superintendent from January 3, 1906, to March 1, 1906.*

\* STREET CLEANING AND WATERING DEPARTMENT.—Matthew Cummings, *Superintendent* from March 1, 1906, to January 16, 1908.

Daniel H. Gillespie, *Acting Superintendent* from January 16, 1908, to April 6, 1908. *Acting Deputy Superintendent* from April 6, 1908, to April 15, 1908.

STREET CLEANING AND WATERING DIVISION.—C. Barton Pratt, *Deputy Superintendent* from April 15, 1908, to the present time.

STREET WATERING DIVISION.—M. Edward Libby, *Deputy Superintendent* from March 6, 1895, to March 1, 1896.

STREET WATERING DIVISION.—Thomas J. Finneran, *Deputy Superintendent* from March 1, 1896, to February 3, 1900.

STREET WATERING DIVISION.—Frederick Hammond, *Deputy Superintendent* from February 3, 1900, to January 22, 1902.

\* STREET WATERING DIVISION.—Ambrose Woods, *Deputy Superintendent* from January 22, 1902, to January 3, 1906. *Resigned. Acting Deputy Superintendent* from January 3, 1906, to March 1, 1906.

BOSTON AND CAMBRIDGE BRIDGES.—Henry H. Carter, *ex officio, Commissioner* for Boston, until December 8, 1894.

Charles R. Cutter, *ex officio, Acting* from December 8, 1894, to January 14, 1895.

Bertrand T. Wheeler, *ex officio, from* January 14, 1895, to February 4, 1896.

Benjamin W. Wells, *from* February 4, 1896, to February 2, 1900; *ex officio, to* May 26, 1898.†

Bertrand T. Wheeler, *from* February 2, 1900, to November 25, 1901.

Guy C. Emerson, *from* November 25, 1901, to January 14, 1902.

James Donovan, *from* January 14, 1902, to October 28, 1904.

Joseph P. Lomasney, *from* October 28, 1904, to December 30, 1905.

Peter O'Neil, *December 30, 1905, to* January 3, 1906.

Charles Logue, *from* January 3, 1906, to March 1, 1906.

Patrick F. McDonald, *from* March 1, 1906, to April 5, 1908.

Thomas H. Sexton, *from* April 5, 1908, to May 1, 1908.

Guy C. Emerson, *from* May 1 1908, to the present time.

William J. Marvin, *Commissioner* for Cambridge.‡

George M. Clukas, *July 26, 1904, to* December 19, 1907.

William H. Joyce, *from* December 19, 1907, to the present time.

\* March 1, 1906, Street Watering Division consolidated with the Street Cleaning Division under title of Street Cleaning and Watering Department.

† See chapter 467, Acts of 1898.

‡ Died July 22, 1904.



## Street Department.

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