

City of Manchester, N. H.



.. TO ..

N. H. Historical Society.



Floor

Section

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No.

Presented by

*James E. Dodge,
June 25, 1888.*

compliments of

James E. Dodge,

City Auditor.

FIFTY-SECOND ANNUAL REPORT

OF THE

RECEIPTS AND EXPENDITURES

OF THE

CITY OF MANCHESTER

NEW HAMPSHIRE

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1897.

TOGETHER WITH

OTHER ANNUAL REPORTS AND PAPERS RELATING
TO THE AFFAIRS OF THE CITY.



MANCHESTER, N. H. :

PRINTED BY THE JOHN B. CLARKE COMPANY.

1898.

MANCHESTER
CITY GOVERNMENT.

1897.

Mayor.

WILLIAM C. CLARKE.....Office, City Hall

Chosen at biennial election in November, 1896. Salary, \$1,800 per annum, payable quarterly. (Act of June, 1848, section 1. Chapter 223, Laws of 1883. Public Statutes, chapter 47.) Telephone at house and office.

Aldermen.

Act of June, 1848, section 1. Public Statutes, chapter 48.

Ward 1. Gardner K. Browning, 55 Stark Corporation, Canal street.

Ward 2. Ossian D. Knox, 757 Chestnut street.

Ward 3. George W. Reed, 483 Chestnut street.

Ward 4. Charles E. Cox, 475 Hanover street.

Ward 5. Richard J. Barry, 232 Lake avenue.

Ward 6. John T. Gott, Mammoth road.

Ward 7. John F. Frost, 11 West Merrimack street.

Ward 8. Gillis Stark, 42 School street.

Ward 9. Frank T. Provost, 21 Amory street.

President of the Common Council.

George B. Rogers, 277 Laurel street.

Members of the Common Council.

Act of June, 1848, section 1. Public Statutes, chapter 48.

WARD 1.

Murdock A. Weathers, 944 Elm street.

William Watts, 31 Stark Corporation, Mechanic street.

Carl E. Rydin, 28 Stark Corporation, Mechanic street.

WARD 2.

De Lafayette Robinson, 255 Front street (A.).

William H. Maxwell, Goffstown road (A.).

James R. Carr, 104 Prospect street.

WARD 3.

George N. Baker, 78 Ashland street.

Edmond Pinard, 101 Pearl street.

Carl A. Soderberg, 256 East High street.

WARD 4.

George H. Phinney, 133 Hanover street.

Joseph W. Abbott, 256 Manchester street.

Eugene B. Worthen, 515 Hall street.

WARD 5.

John J. Lynch, 194 Chestnut street.

Edward F. Murray, 296 Lake avenue.

James F. White, 52 Auburn street.

WARD 6.

George B. Rogers, 277 Laurel street.

Charles Hazen, 436 Central street.

William E. Pierson, 122 Willow street.

WARD 7.

Alexander Knight, 50 West Merrimack street.

Samuel F. Davis, 57 West Merrimack street.

Robert Morrow, 66 Amoskeag Corporation, West Merrimack street.

WARD 8.

Peter Gunderman, 211 Douglas street.

G. Walter Taylor, 23 Boynton street.

James F. Wyman, New Mast, near D street.

WARD 9.

Augustus Filion, 73 Beauport street.

Joseph D. Masse, 332 Beauport street.

John Montplaisir, 252 Coolidge avenue.

Clerk of Common Council.

George L. Stearns, 129 Salmon street.

Salary, \$200. (General Laws, chapter 46, sections 7-9. City Laws and Ordinances, page 33, chapter 6, section 11.)

City Clerk.

Edward C. Smith Office, City Hall

Salary, \$900. The city clerk, in addition to his salary, is in receipt of fees as registrar of births, marriages, and deaths, and as a recording officer for record of mortgages on personal property, of attachments of real estate, of partnerships and assignments, and for recording various other legal papers. He also receives fees for issuing dog licenses, billiard and bowling alley licenses, for certifying records, and for various other matters.

These fees are established by the state legislature under various laws, and are estimated to be between \$2,100 and \$2,500 per annum. Chosen in convention of City Councils in January, annually. (Charter, section 22. Public Statutes, chapter 50. Act of 1849. City Laws and Ordinances, pages 42, 43, 68, 72, 73, 84, 86, 89, 114, 122, 123, 124, 166, 189.) Residence, 900 Union street.

City Auditor.

James E. Dodge.....Office, City Hall

Salary, \$1,200. Appointed by Mayor and approved by Board of Aldermen, in January, annually. (Laws of 1889, chapter 287. City Ordinances, pages 44, 71, 83-88, 173.) Residence, River road north.

Auditor's Clerk.

Lizzie M. Cogswell.....Auditor's Office, City Hall

Residence, 1589 Elm street.

City Treasurer.

Fred L. Allen.....Office, City Hall

Salary, \$1,200. Elected in convention of City Councils in January, annually. (Charter, section 23. Act of 1856, section 4. General Laws, chapter 48, sections 3, 4. Act of 1859, section 4. City Laws and Ordinances, pages 36, 86-89, 170, 172.)

Treasurer's Clerk.

Blanche E. Bullock.....Treasurer's Office, City Hall

Collector of Taxes.

George E. Morrill.....Office, City Hall

Salary, \$1,650 and fees. Elected by Mayor and Aldermen before May 1, annually. (Act of July, 1851. Act of June, 1859, section 6. Public Statutes, chapter 43. City Laws and Ordinances, chapter 33.) Residence, 740 Chestnut street.

Deputy Collector of Taxes.

Edwin C. Paul.....Collector's Office, City Hall

Paid by collector. Appointed by tax collector with approval of Mayor and Aldermen. (City Laws and Ordinances, chapter 33, section 3.) Residence, 416 Central street.

City Solicitor.

Edwin F. Jones. . . . Office, Patten Block, 936 Elm street

Salary, \$800. Elected in convention of City councils, in January, annually. (City Laws and Ordinances, chapters 4, 6, pages 70, 72.) Residence, 15 High street.

City Messenger.

John A. Barker. Office, City Hall

Salary, \$700. Elected in convention of City Councils in January, annually. (City Laws and Ordinances, chapters 4, 6.) Residence, 49 Appleton street.

Joint Standing Committees.

On Finance.—The Mayor and Alderman Cox; Councilmen Hazen, Robinson, and Filion.

On Accounts.—Aldermen Provost and Browning; Councilmen Taylor, Pierson, and Worthen. (Meet Wednesday succeeding the 24th of each month. All bills must be left at the city auditor's office, properly approved, not later than the 20th of each month.)

On Claims.—Aldermen Cox and Reed; Councilmen Knight, Baker, and Maxwell. (Meets third Friday in each month.)

On Streets.—Aldermen Gott and Cox; Councilmen Robinson, Wyman, and Pinard.

On Sewers and Drains.—Aldermen Frost and Stark; Councilmen Masse, Weathers, and Watts.

On Lighting Streets.—Aldermen Browning and Gott; Councilmen Phinney, Gunderman, and Montplaisir.

On Lands and Buildings.—Aldermen Reed and Provost; Councilmen Morrow, Carr, and Rydin.

On Fire Department.—Aldermen Knox and Cox; Councilmen Taylor, Pierson, and Murray.

On Commons and Cemeteries.—Aldermen Knox and Browning; Councilmen Knight, Soderberg, and Watts.

On Public Instruction.—Aldermen Stark and Knox; Councilmen Montplaisir, Murray, and Morrow.

On Water-Works.—Aldermen Frost and Provost; Councilmen Gunderman, Wyman, and Pinard.

On City Farm.—Aldermen Frost and Barry; Councilmen Watts, Weathers, and Soderberg.

On House of Correction.—Aldermen Frost and Barry; Councilmen White, Abbott, and Maxwell.

On Military Affairs.—Aldermen Barry and Gott; Councilmen Lynch, Filion, and Baker.

On Public Health.—Aldermen Stark and Barry; Councilmen Pinard, Lynch, and White.

Standing Committees.

BOARD OF ALDERMEN.

On Enrollment.—Aldermen Knox and Stark.

On Bills on Second Reading.—Aldermen Reed and Frost.

On Licenses.—Aldermen Browning and Gott.

On Setting Trees.—Aldermen Provost and Reed.

COMMON COUNCIL.

On Election Returns.—Councilmen Phinney, Masse, and Baker.

On Bills on Second Reading.—Councilmen Soderberg, Taylor, and Hazen.

On Enrollment.—Councilmen Carr, Abbott, and Wyman.

City Physician.

Irving L. Carpenter.....Office, 961 Elm street

Salary, \$600. Elected by City Councils in convention in January, annually. . (Laws of 1870, chapter 99. City Ordinances, chapter 9, sections 29, 30.) Residence, 1458 Elm street.

City Engineer.

Winfred H. Bennett.....Office, City Hall

Salary, \$1,200. Chosen by City Councils in convention in January, annually. (City Ordinances, chapter 6, sections 33, 34.)

Water Commissioners.

(Chapter 70, Laws of 1871. City Ordinances, chapter 36, and laws of 1891, chapter 26, page 319, act approved March 31, 1891. Chapter 183, Laws of 1893.) One commissioner elected annually by Mayor and Aldermen, in the month of September, for a term of six years. Office at Court House, corner Franklin and West Merrimack streets. Telephone at office and at pumping station.

The Mayor, *ex officio*.

Charles H. Manning, term expires January, 1901.

Andrew C. Wallace, term expires January, 1900.

Alpheus Gay, term expires January, 1899.

Henry Chandler, term expires January, 1898.

Harry E. Parker, term expires January, 1903.

Charles T. Means, term expires January, 1902.

Alpheus Gay, chairman.

Henry Chandler, clerk. Salary, \$100. Chosen by the board of commissioners.

Superintendent of Water-Works.

Charles K. Walker. .Office, Court House, Franklin street

Salary, \$2,000. Chosen by water commissioners annually. Residence, 68 South Main street, West Manchester.

Clerk of the Water-Works.

Arthur E. Stearns. .Office, Court House, Franklin street

Salary, \$1,500. Chosen by water commissioners annually. Residence, 421 Hanover street.

Engineer at Old Pumping Station.

Josiah Laselle. Salary, \$700, rent, fuel, and use of land.

Chosen by water commissioners annually.

Engineer at New Pumping Station.

Henry A. Donaway. Salary, \$2.50 per day, rent, and fuel.

Justice of the Police Court.

Isaac L. Heath, court room at Police Station, corner Manchester and Chestnut streets.

Salary, \$1,500. Appointed by the Governor with the advice of the Council. (General Laws, chapter 215; chapter 163, sections 17, 18, 19, of the Laws of 1878, as amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.)

Associate Justice of the Police Court.

George W. Prescott. Salary, \$300 per annum.

Appointed by the Governor, with the advice of the Council. (Chapter 215, General Laws, sections 2-14. Public Statutes, chapter 211. Chapter 296, Laws of 1893.)

Clerk of the Police Court.

John C. Bickford. Salary, \$600.

Appointed by the justice of the police court. (Chapter 163, sections 17-19, General Laws, amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.) Residence, 15 Ash street.

Police.

The members of the police are appointed by the Police Commissioners, and hold their commissions during good behavior. They are, by virtue of their appointment, constables and conservators of the peace, and their jurisdiction extends throughout the city. (Chapter 253, section 5, General Laws; chapter 303, Laws of 1887; chapter 202, Laws of 1893.) Police station, at the corner of Chestnut and Manchester streets.

Police Commissioners.

See chapter 202, Laws 1893.

Noah S. Clark, clerk, term expires January, 1898.

Frank P. Carpenter, term expires January, 1902.

Harry E. Loveren, chairman, term expires January, 1900.

Chief of Police.

Michael J. Healy.....Office at Police Station

Salary, \$900. Residence, 304 Central street. Telephone at house and office.

Deputy Chief of Police.

John F. Cassidy.....Office at Police Station

Salary, \$800. Residence, 415 Manchester street.

Captain of the Watch.

Thomas E. Steele. Salary, \$2.50 per day. Residence, 56 Nashua street.

Sergeant.

Leon E. Magoon. Salary, \$2.50 per day. Residence, 355 East Spruce street.

Patrolmen.

SALARY, \$2.25 PER DAY.

Randall W. Bean.	Joseph Archambeault.
Frank E. Bourrassa.	James S. Butler.
Olaf Ring.	John C. Badger.
John T. O'Dowd.	Peter Callaghan.
Florence Sullivan.	John J. Connor.
Henry A. Burns.	Frank P. Moore.
Theodore Flodin.	John T. Welch.
George A. Lovejoy.	John T. Nixon.
John D. Healy.	Elmer E. Somers.
Frank W. Marden.	Levi J. Proctor.
Oscar R. Pochlman.	Joseph A. Farrell.
Albert Russell.	James S. Hampston.

Janitor of Station.

Frank P. Wiggin. \$1.75 per day. Residence, 255
Auburn street.

Matron.

Miss A. B. Brown. \$415 per annum. Residence, 277
Merrimack street.

School Committee.

Chosen at the biennial election in November, 1896; Mayor and president of the Common Council members *ex officio*. The board of school committee choose the clerk of the board, the superintendent of public instruction, the truant officer, and the teachers in the public schools, and determine their salaries. They have charge of the repairs of schoolhouses, to a limited extent, and the purchase of free text-books and other supplies, and are limited by the appropriations of the City Councils. The salary of the committee is \$10 each.

WARD 1.

Walter B. Heath. Elliott C. Lambert.

WARD 2.

Augustus P. Horne. Charles H. Manning.

WARD 3.

George D. Towne. Louis E. Phelps.

WARD 4.

Henry D. Soule. Nathaniel L. Colby.

WARD 5.

James P. Slattery. John T. Kelley.

WARD 6.

Harry I. Dodge. Herbert E. Richardson.

WARD 7.

Edson S. Heath. Edward B. Woodbury.

WARD 8.

Luther C. Baldwin. Ned T. Wallace.

WARD 9.

Robert E. Walsh. Henry I. Lemay.

William C. Clarke, *ex officio* chairman.

George B. Rogers, *ex officio*.

George D. Towne, vice-chairman.

Edward B. Woodbury, clerk.

Superintendent of Public Instruction.

William E. Buck. Office, City Hall

Salary, \$2,300. Residence, 324 Myrtle street.

Superintendent's Clerk.

Fannie L. Sanborn.....Residence, 161 Hanover street
 Salary, \$500.

Truant Officer.

Curtis W. Davis.....Office, City Hall
 Salary, \$750. Residence, 849 Chestnut street.

Assessors.

One assessor from each ward chosen at the biennial election in November. Paid \$2.50 each for each day while employed in the assessment and abatement of taxes. Office, City Hall. (Charter, section 25. Public Statutes, chapter 48, section 1; chapter 50, section 4; chapter 49, sections 10, 11, 12. City Ordinances, chapter 6, section 26.) Assistant assessors, not exceeding six, chosen by the city councils.

- Ward 1. Henry Lewis, 32 Amoskeag Corporation.
- Ward 2. John E. Stearns, 58 Myrtle street.
- Ward 3. David O. Furnald, 384 Lowell street.
- Ward 4. Harrison D. Lord, 387 Hanover street.
- Ward 5. George F. Sheehan, 85 Cedar street.
- Ward 6. George H. Dudley, 159 Laurel street.
- Ward 7. Robert Leggett, 50 Amoskeag Corporation.
- Ward 8. Eugene W. Brigham, 6 Marlboro street.
- Ward 9. John T. Hannigan, 159 Cartier street.

CHAIRMAN OF ASSESSORS.

David O. Furnald.....Office, City Hall

CLERK OF ASSESSORS.

George H. Dudley.....Office, City Hall

Inspectors of Check-Lists.

One in each ward, chosen at the biennial election in November. Compensation, \$2.25 per day for each day actually employed. Office, City Hall. (Laws of 1878, chapter 163, sections 5, 6, 7, 9, 10, 11, 12, 13, 14, 16, and City Ordinances, chapter 14, section 9.)

- Ward 1. George C. Kemp, 40 Machine Shop block.
- Ward 2. Charles B. Tucker, 777 Union street.
- Ward 3. William B. Corey, 88 Pearl street.
- Ward 4. Albert T. Barr, 336 Merrimack street.
- Ward 5. Daniel A. Murphy, 246 Auburn street.
- Ward 6. Albert J. Peaslee, Cohas avenue, near Water-Works.
- Ward 7. Joseph A. Foster, 42 Amoskeag Corporation.
- Ward 8. Charles C. Tinkham, 9 Parker avenue.
- Ward 9. John B. Bourque, 22 Wayne street.

Overseers of the Poor.

One in each ward, chosen at biennial election in November. The Mayor is a member *ex officio*. Compensation, \$25 per annum, each; clerk of the board, \$100 per annum, determined by City Ordinances, chapter 14, section 18, as amended by Ordinance of August 5, 1890. Meet third Wednesday of each month in City Hall building.

- Ward 1. William H. Maxwell, clerk, 20 Amoskeag Corporation, Stark street.
- Ward 2. Thomas L. Quimby, railroad station, foot of West Salmon street.
- Ward 3. Benjamin F. Garland, 28 Linden street.
- Ward 4. Charles B. Clarkson, 249 Concord street.
- Ward 5. Patrick Costello, 106 East Spruce street.
- Ward 6. Charles Francis, Candia road, East Manchester.
- Ward 7. William Marshall, 72 Amoskeag Corporation, West Merrimack street.
- Ward 8. Charles S. McKean, 495 Granite street.
- Ward 9. Thomas C. Stewart, 27 Marion street.
- William C. Clarke, *ex officio*, Office, City Hall.

Board of Health.

(City Ordinances, chapter 14, section 10, as amended. Laws of 1885, chapter 165; Laws of 1887, chapter 227; Public Statutes, chapters 108, 109, 110.) One member appointed by the Mayor in January of each year, to hold office for a term of three years. Salary, \$200 each per annum. Office, Court House, West Merrimack, corner of Franklin street.

John C. Bickford. Term expires first Monday in February, 1900.

William K. Robbins. Term expires first Monday in February, 1898.

William M. Parsons, Term expires first Monday in February, 1899.

William B. Blake, sanitary inspector, Hanover-street road. Office, Court House, Merrimack, corner of Franklin street.

John F. Looney, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street.

Carl O. Seaman, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street.

Fire Department.

The chief engineer and four assistant engineers are chosen annually in the month of January, by a majority of the City Councils in convention. The salary of the chief engineer is \$1,300 per annum; the assistant engineers, each \$125 per annum. They exercise the powers and perform the duties of firewards. The said engineers constitute the board of engineers, and elect a clerk whose compensation is \$25 a year. The annual compensation of the call members of the several hook-and-ladder, hose, steam fire engine, and chemical engine companies is as follows: Captains, each \$165; lieutenants, each \$160; clerks, each \$160; assistant engineers, each \$155; all other members, each \$150; payable in equal semi-annual payments, on the first of January and July. (Laws of 1870, chapter 99. General Laws, chapter 106. City Ordinances, chapters 6 and 12.) Six members are permanently employed as engineers at \$76.25 per month each, and twenty-one as drivers at \$68.33 $\frac{1}{3}$ per month each, six other permanent men at \$65 per month each, and receive no compensation as call members. Members and officers of each company are appointed by the board of engineers.

Chief Engineer.

Thomas W. Lane. . . . Office, Central Station, Vine street
Residence, 1937 Elm street. Telephone at house and office.

Fred S. Bean, clerk, 102 Orange street.

Ruel G. Manning, 52 Douglas street, West Manchester.

Eugene S. Whitney, River road north, corner West
North street.

Clarence R. Merrill, 418 Merrimack street.

For further information see chief engineer's report.

Trustees of City Library.

(Laws of 1854, chapter 1588. See contract with Manchester Athenaeum, printed on pages 107 and 108 of City Report for fiscal year ending January 31, 1855.) Board of seven trustees, one of whom is elected by Aldermen and board of trustees in joint convention in September, annually. Term of service, seven years; no salary. Two additional trustees, Mayor, and president of Common Council, *ex officio*.

Frank P. Carpenter, term expires October 1, 1902, Elm, corner West North Street.

Nathan P. Hunt, term expires October 1, 1901, 747 Union street.

Herman F. Straw, term expires October 1, 1900, 607 Chestnut street.

Walter M. Parker, term expires October 1, 1899, 1883 Elm street, corner Webster.

Isaac W. Smith, term expires October 1, 1898, 1855 Elm street.

Moody Currier, term expires October 1, 1897, Ash street, corner Myrtle. Reappointed.

C. D. McDuffie, term expires October 1, 1903, Ash street, corner Myrtle.

William C. Clarke, *ex officio*.

George B. Rogers, *ex officio*.

Board of Street and Park Commissioners.

The City Councils in joint convention, biennially, elect one member of said board for a term of six years. Not more than two members can be of the same political party. Said board, consisting of three members, has full charge, management, and control of the building, constructing, repairing, and maintaining of all the streets, highways, lanes, sidewalks, bridges, and public sewers and drains, and public parks and commons. (See Laws of 1893, chapter 264.) Office, City Hall building. Open from 8 to 12 A. M., 2 to 5 P. M. Regular meeting of the board at 2 o'clock P. M. each day. Salary of each member, \$600 per year, payable quarterly, and each is allowed \$150 annually for horse hire.

George H. Stearns, clerk, term expires 1898.

Horace P. Simpson, chairman, term expires 1900.

Byron Worthen, term expires 1902.

Assistant Clerk.

Julia F. Stearns.

City Weigher.

Elected annually in convention of City Councils. Salary, \$400 per annum; all fees for weighing returned monthly to city treasurer with sworn statement. Stationed at city scales on Franklin street.

Asa B. Eaton. Office, city scales; residence, 23 Appleton street.

Sealer of Weights and Measures.

Charles B. Clarkson.

Elected annually in January by City Councils in convention. Paid by fees. (Section 25, chapter 43, Public Statutes, and chapter 125, Public Statutes.)

Fish and Game Wardens.

(Public Statutes, chapter 130.) Elected by City Councils in convention.

- John C. Higgins, 143 Orange street.
 Charles H. Richardson, 411 Hanover street.
 Dennis F. Scannell, 74 Clinton street.
 Harry P. Ray, River road north.
 C. R. Hodge, 574 Hall street.

Trustees of Cemeteries.

(City Ordinances, chapter 39, sections 1, 2, 3, 4.) Two trustees elected by City Councils in convention in January, annually, for the term of four years. Sub-trustees appointed by board of trustees.

J. Adam Graf, 10 Middle street, term expires January, 1899.

William H. Huse, Mammoth road, term expires 1899.

John L. Sanborn, 25 Market street, term expires 1898.

Bushrod W. Hill, 299 Hanover street, term expires 1898.

Stillman P. Cannon, 43 Elm street, term expires 1901.

Alfred D. Maxwell, Goffstown road near Front street, term expires 1901.

Edwin F. Jones, 15 High street, term expires January, 1900.

John P. Young, 346 Merrimack street, term expires January, 1900.

Fred L. Allen, clerk and treasurer, 6 Linden street.

Sub-Trustees of Cemeteries.

VALLEY CEMETERY.

Alderman Gardner K. Browning, 55 Canal street.

Councilman Carl A. Soderberg, 256 East High street.

John L. Sanborn, 25 Market street.

Bushrod W. Hill, 299 Hanover street.

Stillman P. Cannon, 43 Elm street.

PINE GROVE CEMETERY.

Alderman Ossian D. Knox, 757 Chestnut street.

Councilman Alexander Knight, 50 West Merrimack street.

J. Adam Graf, 10 Middle street.

John P. Young, 346 Merrimack street.

Edwin F. Jones, 15 High street.

AMOSKEAG CEMETERY.

Councilman William Watts, 31 Mechanic street.

Alfred D. Maxwell, Goffstown road near Front street.

William H. Huse, Mammoth road, East Manchester.

SUPERINTENDENT OF PINE GROVE CEMETERY.

Byron A. Stearns. Office and residence at the cemetery. Telephone.

SUPERINTENDENT OF VALLEY CEMETERY.

Charles H. G. Foss. Office at the cemetery; residence, 267 Lake avenue.

TRUSTEES OF CEMETERY FUNDS.

Charles H. Bartlett, 25 High street.

Otis Barton, 122 Orange street.

William C. Clarke, *ex officio*.

Inspector of Milk.

Archie F. Precourt. Central, corner Chestnut street

Residence, 335 E. Spruce street. Term expires February 1, annually. (Public Statutes, chapter 127.) Appointed by Mayor and Aldermen. Salary, \$300 per annum.

Inspector of Buildings.

Thomas W. Lane. Office at Central Fire Station

Residence, 1937 Elm street. Appointed by Board of Mayor and Aldermen, biennially, in February. Salary, \$100 per annum. (City Ordinances, chapter 15. Laws of 1883, chapter 94. Public Statutes, page 170.) Telephone at house and office.

Inspectors of Oil.

Joseph B. Baril.....99 Bridge street
 John Cayzer.....383 Granite street

(Public Statutes, chapter 129, sections 25-34. City Ordinances, chapter 25.) Paid by fees, $\frac{1}{4}$ of 1 per cent per gallon.

Moderators.

Elected biennially. (General Laws, chapter 31, sections 3, 9; chapter 36, section 9; chapter 44, section 7. City Ordinances, page 18. See Public Statutes relating to towns and cities.)

Ward 1. Abial W. Eastman.
 Ward 2. William M. Butterfield.
 Ward 3. Allen W. Wilson.
 Ward 4. Ernest C. Wescott.
 Ward 5. Thomas F. Slattery.
 Ward 6. Herbert S. Clough.
 Ward 7. Robert Morrow.
 Ward 8. Eben C. Chase.
 Ward 9. Norbert Descoteau.

Ward Clerks.

Elected biennially. (General Laws, chapter 44, sections 10, 12. City Ordinances, page 18. Public Statutes relating to towns and cities.)

Ward 1. George A. Stokes.
 Ward 2. Elmer W. Nutting.
 Ward 3. John H. Hayes.
 Ward 4. Robert H. Scott.
 Ward 5. Martin J. Whalen.
 Ward 6. Arthur B. Dickey.
 Ward 7. Charles E. Bartlett.
 Ward 8. G. L. Putnam.
 Ward 9. Jean B. Archambeault.

Selectmen.

Elected biennially. (General Laws, chapter 1, section 27; chapter 12, section 6; chapter 40, sections 2, 3; chapter 109, section 27; chapter 213, section 1. City Ordinances, page 18. Public Statutes relating to towns and cities.)

WARD 1.

John H. Wales, Jr. John V. Brandt.
Alexander Hanna.

WARD 2.

Fred K. Ramsey. Silas R. Wallace.
James E. Orrill.

WARD 3.

Walter B. Wright. Victor Johnson.
John Cronin.

WARD 4.

Albert E. Blanchard. Joseph E. Merrill.
Thomas Mungall.

WARD 5.

William H. Quinn. Hugh C. Duffy.
Thomas F. Daly.

WARD 6.

George M. Bean. John Ferguson.
Harrison W. Haselton.

WARD 7.

Edward S. Stratton. Hanson R. Armstrong.
Robert Leggett.

WARD 8.

Richard P. Grossman. Hervey Stratton.
Osman W. Pettingill.

WARD 9.

Louis Gauthier. Eugene Quirin.
Treffle Raiche.

INAUGURAL ADDRESS.

INAUGURAL ADDRESS.

Gentlemen of the City Councils:

Having by the oath of office this day administered to you assumed the duties of the positions to which you have been called by the suffrages of your fellow-citizens, your responsibility for the work of the ensuing year is now begun.

Manchester occupies a prominent position in the affairs of our state and her influence is felt in many ways throughout New England. Her growth has been continuous and prosperous and with the growth new conditions have arisen and new conditions must continue to arise to engage the attention of each succeeding administration. These requirements call for more careful consideration in every public expenditure and greater economy in every department. It is impossible to outline at the commencement of the municipal year the details of the work to be accomplished. I shall, however, give you a general synopsis of the work performed during the past two years by the several branches of our municipal government, making such suggestions bearing upon the needs of the city as seem to me expedient, and submit some recommendations for your consideration.

It is an easy matter to map out a policy for municipal administration, but it is not always easy to consistently follow it. It would be comparatively easy, however, in the common run of affairs, if there were a unanimity of opinion among a majority of the members of both branches of the city councils that the policy outlined was the cor-

rect one to follow, and a determination upon their part to follow it. An experience of two years in municipal affairs has convinced me that it is just as easy to run the affairs of this city in a straight, business-like, economical manner as it is for any successful man of business to conduct his own private affairs, providing always that business-like methods are adopted at the outset and rigidly adhered to.

The lack of experience has a great deal to do with the success or failure of municipal administration in a city like Manchester, as it does in our state legislative bodies. Inexperienced men in city affairs, however able, competent, and honest they may be, have much to learn before they can become useful public servants. We find in every new administration some men peculiarly well fitted for public service, but just as they have about acquired an intelligent and practical knowledge of city affairs, and have become useful members, their term of office expires and their places are filled by others, who, while they may be equal, or perhaps superior, in general equipment, are apt to be wholly lacking in experience and must in turn serve an apprenticeship before they can become fully useful and efficient. And so it may be said that each new incoming city government is made up in a large measure of "raw material" which must be developed before its true worth can be ascertained and utilized; and this will always be so until the present custom of ward nominations is changed.

In some respects the municipal government of the ensuing two years is somewhat of an exception, as in its membership we find sixteen members who have had previous experience in city affairs. This should augur well from the standpoint of experience, and as the new members include among their number men of accredited success in their own business, and others of brightness and intelligence in other avocations, I am encouraged to believe that the affairs of the city during the next two years will be acceptably conducted.

There has seldom been a period in the history of this city when its general affairs were in better shape or when so little needed to be done. About every city department, so far as I know, is adequately provided for and calls for no more than ordinary expenses to operate. There is, of course, now, as there always has been and will be, opportunity for improvements, and they will doubtless be vigorously called for; but in my judgment the best improvement this city government can give the taxpayers and citizens of Manchester, so far as possible, is to "let well enough alone" and conduct the business of the city under its present equipment. The present policy of our large corporations and business houses of curtailment and economy wherever practicable is a wise policy for this administration not only to adopt but to follow.

THE CITY DEBT.

Manchester's city debt has not decreased any in the past two years, but on the contrary has been increased, and I have little hope of seeing it much if any decreased in the two years to come. But this, my associates, we can do: We can, unless unforeseen emergencies arise, prevent it from being increased. For your information and that of the general public, I herewith submit the figures of Manchester's bonded indebtedness January 1, 1897:

City bonds	\$155,000
School bonds	230,000
Water bonds	900,000
Bridge bonds	190,000
Improvement bonds	400,000
Cemetery bonds	42,250
Security bonds	100,000
	<hr/>
	\$2,017,250

By the foregoing you will observe that the total bonded indebtedness of the city is \$2,017,250, or 6.84 per cent of

our total assessed valuation. Omitting the city water debt, the percentage is 3.79. It is customary, I know, not to reckon the bonded indebtedness of our water-works in this list, but really it is a part of the city's debt, for which the city as a corporation is alone responsible. These are large figures, a great deal larger than they should be, but they will never become any smaller until the policy of enlarging them by yearly bond issues ceases.

There has been issued during the past four years \$400,000 worth of permanent improvement bonds and under legislative enactment it is within your province to issue \$100,000 more during your term of office. The question then for you to decide is, whether you will sanction this further issue or whether you will stop where we are and keep the city debt from further increasing. For myself I can only speak, and I have no hesitation in saying that I believe the material interests and prosperity of Manchester urgently require us at this time not to increase the city's bonded indebtedness in any way that is not forced upon us. To save the city an additional burden of debt of \$100,000 during the next two years is something to be seriously considered, and that it can be saved by a prudent apportionment of money I sincerely believe. Pay the city's bills from the taxes alone this year and next and contract no more bills than you can pay in this way, and you will have made a beginning at least toward preventing the city's debt from accumulating.

Our taxes in themselves are not excessively burdensome but they bear heavily, nevertheless, upon many of our people and should not be increased. It is in the condition of things that they necessarily fluctuate from year to year, yet I do not believe there is occasion at this time, with the city's needs so generously cared for, to increase the present tax rate, but to reduce it if possible. As showing the manner in which our city taxes have operated

during the past five administrations, covering a period of ten years, I submit the following table of figures:

Year.	Rate.	Average.
1887	\$1.70	
1888	1.95	\$1.82½
1889	1.90	
1890	1.91	1.90½
1891	1.78	
1892	1.95	1.86½
1893	1.87	
1894	1.78	1.81½
1895	1.74	
1896	1.86	1.80

THE CITY TAXES.

The total assessed valuation of the city of Manchester for the year 1896 was \$29,443,668, and based upon this valuation there was collected in taxes about \$540,000. During the past two years collections have been the hardest ever experienced in the official career of the present collector, covering a period of fifteen years. The amount of uncollected taxes assessed in 1896 was between \$50,000 and \$55,000, or about \$13,000 larger than in 1895. This increase is accounted for by the fact that the total tax of 1896 was about \$45,000 larger than in 1895. Of the amount uncollected in 1896 a certain portion is collectible and will be paid this year.

There is no denying the fact that the business depression of the past two years has borne heavily upon many business men in Manchester and that taxes, whether great or small, have been in many instances extremely hard to collect. That some have not been paid is for the plain, honest reason that those now delinquent have not had the means at their command to pay them with. That the tax collector might have used the authority given him to cause arrests and imprisonment is doubtless true, but this would have been in hundreds of cases a most inhuman act

of legal justice, as it would have plunged many families, now almost in distress, into a condition of absolute want and suffering, or would have aroused the pity of friends to such an extent that they would have stepped forward and made settlement in their behalf to avoid the disgrace of imprisonment. The record of the tax collector's office during the past fifteen years is a most creditable one and demonstrates that the interests of this important department of the city have been carefully and faithfully looked after.

The amounts received from the state into the city tax fund for the year 1896 were as follows: Insurance tax, \$2,632.59; railroad tax, \$29,530.64; savings bank tax, \$50,770.79; literary fund, \$3,869.60; total, \$86,803.53. A comparison of these figures with those for past years shows a large decrease in the amounts received from the state each year by the city. The state tax upon the city is increasing steadily, while the other taxable properties, as shown above, and from which the city receives an annual revenue, are as steadily decreasing in amount.

In 1895, the state tax paid by the city was \$65,615, and the amount paid the city by the state, \$88,204.15, making the net income to the city \$22,589.15. The state tax in 1894 was the same, or \$65,615, and the state paid \$110,532.59, or a balance of \$44,917.59 to the city. In 1893 the figures were \$65,615 and \$120,228.74, and the city received \$54,613.74. The figures for 1892 were \$65,615 and \$114,161.72, and the city benefited by the sum of \$48,546.72.

In 1891 the conditions were a little different. The state tax was only \$63,435 and the amount due the city from the state was \$104,542.33, a net balance paid into the city treasury by the state of \$41,107.33.

This change in money received from the state is most directly due to a falling off in the savings bank deposits and also to a reduction in the tax upon these deposits

from 1 per cent to $\frac{3}{4}$ of 1 per cent. The maximum of taxable deposits was reached in 1893, when they amounted to \$77,024,282 for the state. In the three years following they have decreased about seven millions each year, the total decrease being \$20,140,082. In the year of 1893 the sum of \$2,162,389.32, and in 1894 the sum of \$3,169,790.90 was deducted under the state law exempting the banks on their real estate taxed locally wherever it may exist, either within or without the state. In 1895 an act was passed by the legislature exempting all loans at 5 per cent made to parties in the state and secured by real estate within the limits of the state. This double exemption on 5 per cent state loans increased the total amount exempted for that year to \$6,643,139.73. Last year this amount was further increased, the exemption on the savings bank securities being \$8,426,255.42.

This large exemption, coupled with the immense decrease in deposits, has reduced the savings bank tax realized by this city for the year 1896 to \$50,770.79.

It is due to the savings bank tax more than to any other one item that the city received last year from the state \$36,035.21 less than she did in 1893.

This item makes a very appreciable difference in meeting the expenses of the city and entails increased care and prudence in the distribution of the city money. During the two years just elapsed there has been received by the city from the state \$41,167.68, as against \$99,531.33 during the two years immediately preceding, a difference against the city of \$58,363.65. At the same time the state tax against the city is increasing. This is regulated by the assessed valuation and is apportioned according to the returns made to the state board of equalization once in every four years. Since 1891, when the state tax was \$63,435, it has increased \$4,790, to the year 1896. For the succeeding three years it will remain at the present figure and will at the end of that time be newly apportioned. In the insurance and railroad tax and the literary

fund the change year by year is very small and makes no appreciable difference in the balance accruing to the city treasury from the state under the existing conditions.

With the marked decrease in the difference between the state tax and the various apportionments from the state, which Manchester now realizes, the balance in a few years promises to be against the city rather than in its favor.

With all of these conditions confronting us it is the sacred duty of every member of this city government to employ his best efforts to lighten the burdens of taxation in Manchester, and to avert, if possible, any increase in the city's debt. The estimates of the various departments for the current year are most of them larger than they have been in the past, and without curtailing expenditures which are necessary, still, proper economy should be observed, and we should not undertake new enterprises without most careful consideration. We should go slowly. The times do not warrant any unnecessary expenditure. Every class in the community has suffered by the financial depression of the past year, and the people should be given time to recuperate in 1897. The people want neither extravagance nor parsimony, but they have a right to demand economy.

The net cash in the city treasury December 31, 1896, was \$160,863.04, against \$143,088.90 December 31, 1895, and \$76,721.90 December 31, 1894. The sinking fund deposits are steadily increasing, the amount now aggregating \$94,645.24, of which \$59,422.59 is credited to the water-works, and \$35,222.65 to the liquidation of improvement bonds.

Following is the statement of the city auditor after an examination of the accounts of the city treasurer for the year ending December 31, 1896:

The net cash on hand January 1, 1896, was . . .	\$143,088.90
Receipts during the year	1,419,841.15.
Total	\$1,562,930.05
Amount of drafts during the year	\$1,402,067.01
Net cash on hand December 31, 1895	160,863.04
Total	\$1,562,930.05

The cash balance taken December 31, 1896, I find to be as follows:

Deposited in Suffolk National Bank	\$20,652.00
Deposited in Second National Bank	212,404.12
Deposited in office safe	6,498.62
Deposited in National Bank of Commonwealth	1,406.83
Gross amount of cash on hand	\$240,961.57
Deduct amount of bills unpaid	80,098.53
Net cash on hand December 31, 1896	\$160,863.04

MUNICIPAL SUITS AND CLAIMS.

In regard to suits and claims against the city for damages for various reasons, those at present existing are embraced mainly within three classes: First, damages claimed for the flowage of land by the water of Lake Massabesic, and the change of flow of the water in Cohas brook, occasioned by the use of these waters for water-works purposes; second, damages claimed to have been occasioned to real estate by the change of grade of highways; and third, damages for personal injuries received by employees of the street and park commission while engaged in the performance of their work.

The change of the law regarding damages occasioned by defective highways has limited the liability of the city practically to injuries received by travelers upon bridges and across culverts and sewers, and upon places in the highways where there are embankments without suitable railings. If the supreme court should follow the trend of its latest decisions, it is expected that it will be held that

no liability exists upon the city for the injuries received by the employees of the street and park commission. If, however, the court should hold that the relation of master and servant exists between the city and such laborers, there are several cases which will have to be tried and will rest upon the determination of the jury whether or not the city was guilty of any negligence in not providing proper appliances or giving suitable instructions to the workmen.

Regarding the water-works cases, the disposition of the suits now existing and future claims which may arise, all will doubtless be adjusted by acquiring, under the due process of law, all rights in the waters which the needs of the water-works system may demand. The absolute control of the water in Lake Massabesic and Cohas brook by the city seems to be essential, and the authority of the statutes is sufficient to enable the city to acquire it, and with that control any future claims for damages will be obviated.

As to the other classes of cases, the main conclusion to be drawn seems to be this: That boards of mayor and aldermen should be extremely careful in laying out highways and the taking of land therefor; that the grade of highways should not be changed so as to damage the abutting real estate, except in case of great necessity; that great care be exercised by the proper authorities in seeing that the bridges and sewers are kept in proper condition, and that all dangerous embankments should be safely and securely guarded by strong and suitable railings.

The legal work of the city has been ably and faithfully discharged by the present solicitor, who, during his term of office, covering a period of ten years, has acquired a broad and practical knowledge of municipal law, which renders him a very valuable public official.

MUNICIPAL FRANCHISES AND PRIVILEGES.

The question of municipal franchises is one of great importance and the granting of them should be properly guarded. The city of Manchester receives a meagre return from the corporations which have received many valuable privileges at her hands. The street railway company pays nothing to the city for the immensely valuable franchises granted to it years ago by the New Hampshire legislature.

By a law passed at the January session, 1895, important and responsible duties were placed upon the board of mayor and aldermen of cities relative to the supervision and regulation of railways in public highways. This law is so clear and concise that it requires no professional interpretation to be understood. It states plainly what the duties of a board of mayor and aldermen are and I respectfully urge upon the attention of the incoming board close and careful study and consideration of this law, that it may be able to act intelligently and judiciously for the interests of the city and the public.

In past years the Manchester Street Railway has enjoyed many remarkable privileges at the hands of the city and has derived from the legislature even more remarkable franchises. That such wholesale privileges should be granted in the future without bringing in return therefor material benefits to the city no intelligent citizen believes, and it is a source of satisfaction to know that the aldermanic board, so lately retired from office, used its powers in some directions to save the city expenses that it had uncomplainingly borne in the past. No extension of the electric car service should be granted without requiring the railroad company to place the highways upon which its lines are built in a thorough and satisfactory condition after the work is completed, and whenever such extension is made over ungraded highways the railway

corporation should be obliged to place the street at grade and build it in a first-class manner along the full line of the extension. This the Manchester Street Railway was required to do in extending its lines to the Pine Grove cemetery and on Beech street last fall, and also to bear its proportion of the expense of paving the new Granite bridge and its approaches, and these are the only instances that I know of wherein the city has not given the street railway everything it asked for unconditionally.

With the regulation of fares of the street railway the board of aldermen has nothing whatever to do. The fare question is one that the legislature alone can settle, or it can delegate this power to others. At present it is delegated to the board of railroad commissioners.

In many of the large cities of the country where street railways are in operation, municipalities are in receipt of fixed revenues from these corporations. In many instances this takes the form of a license fee for every car in use and a certain per cent, about $2\frac{1}{4}$ per cent generally, of the gross earnings of the road. In some cities street railway franchises are sold at auction. In the year 1895 the city of New York sold one of these franchises for $38\frac{1}{2}$ per cent of the gross receipts of the proposed road. The roads of Milwaukee pay 1 per cent of the first \$250,000 of the gross receipts and a larger per cent on larger receipts. Buffalo gets $2\frac{1}{2}$ per cent of the gross receipts of its street railway and in 1895 this was over \$30,000. Chicago collects an annual license of \$50 for each car operated, and received in 1895 from that source nearly \$74,000. It also collects compensation for various permits granted the street roads, one of which paid \$570,000 for permission to change its horse car road into a trolley line, and another \$250,000 for similar concessions. In Philadelphia the street railways are compelled to pave all streets in which their cars are operated.

And so you will find that many of the larger cities are today requiring street railways to pay into the city treasury a percentage of their earnings, as well as a license fee. But the trouble here in Manchester is that about every valuable privilege and franchise enjoyed by the Manchester Street Railway was freely given away by the legislature when the road was originally chartered in 1864, and in the various extensions and amendments of its charter which have since been made, and that about all the city can do now is to refuse to grant further extensions of the road unless the corporation accedes to certain reasonable conditions, and these can be made very important. Our citizens now begin to realize the fact that this city has allowed many very valuable privileges to be given away to corporations in years past, without the city's receiving any adequate return therefrom, and a vigorous attempt should be made in the future to correct these mistakes so far as possible.

The streets of Manchester are the property of the people of Manchester. The expense of laying out, building and improving them has amounted to millions of dollars and has been paid by the people in taxes. The mayor and aldermen are trustees, holding these streets in trust for the use and benefit of the people, and as such trustees it is the duty of this board to preserve the trust property solely for the interest and benefit of those who have trusted them. If the right to use these streets, which are the property of the people, is a grant of value in the market or to any corporation, it is manifest that this grant should not be given without just and full compensation. Our streets are becoming more valuable from year to year through inevitable increase in population, and the time has come when we must use further grants for the interests of the city. We must look further ahead than tomorrow, remembering that we are laying the foundations of a city that is destined to become great and populous.

The people fix the value of the streets, and no further-privileges should be granted without adequate returns to the city. I would recommend that all privileges hereafter granted by the board of mayor and aldermen contain a clause guaranteeing to the city a fixed percentage of the gross receipts of the party or company obtaining the privilege. The old gas company is a conspicuous instance of corporations that amassed great wealth as the result of franchises granted them for which the city received no compensation. When this company changed hands a few years ago at what seemed upon the surface a large price, it was simply paying the stockholders for the value of the franchise it had acquired for nothing, and by acquiring it, it is able today to pay the stockholders of the old company 32 per cent per annum and earn large dividends besides for the stockholders of the new company.

It should be remembered that franchises are more valuable than formerly, and that the utilization of machinery and improved methods have cheapened electricity, electric supplies and nearly every kind of material, which enables applicants for franchises to make better terms with the city.

But these statements apply not alone to the street railway company. They apply with equal force and justice to all other corporations holding rights and privileges in the highways of this city. The electric light company, which has a ten years' contract for lighting the streets, parks, and commons of Manchester, should of its own volition furnish the city with a certain number of free public lights, and under the terms of the contract, whenever it is able to do so, reduce the expense of lighting to the city, which now pays the company \$115 per year for every light in use. Under the terms of this contract the company agreed that whenever the time arrived when there was a radical change in the manner of generating electricity, whereby the cost of producing the current was

materially lessened, an adequate reduction in the price of the electric lighting service would be made, and as there has been no disposition on the part of either party to break faith with the other, it is reasonable to suppose that the company will fulfill this obligation.

Regarding the New England Telephone and Telegraph Co., the city receives some benefits from the privileges granted to it to lay an underground conduit in the streets,—the setting apart of one duct in the conduit for the use of city wires without expense to the city; but greater concessions, I believe, should be made by the company in the use of telephones by the city, for the use of public property for its private benefit. In this and other ways alluded to the revenue of the city of Manchester would practically be increased by a lessening of the expenses necessary to be incurred annually and a consequent reduction of the tax rate, which is a matter of direct benefit to every taxpayer.

It is the settled policy of some cities, which awakened to the importance of this subject earlier than Manchester, to exact cash returns for all privileges which may be granted by the city, and from these, large returns are received into the city treasury from street railway, electric light, telephone, gas, and other corporations holding rights in the streets and highways. The trend of popular municipal economies now is to own its own quasi-public plants. In nearly every city of England, Scotland, Germany, Belgium, and even in Italy, this is now the case, and they are being leased by the cities at enormous profits. It is the case now in Toronto; Detroit has taken the initiative in this country and the idea is growing.

Whatever future contracts are made by the city of Manchester in relation to these matters should be for a stipulated period, with the reserved right at the end thereof to purchase at an arbitrated consideration, or at the end of the contract to make new stipulations. And so there is a

general awakening to a correct and enlightened understanding of the public rights and interests on this subject, and the mayor and aldermen of Manchester cannot afford to shut their eyes to the light or ignore the vested rights of the taxpayers and people, or be in a hurry to give away rights over and in the streets which are undoubtedly of great and increasing value.

If there are any grave doubts in your minds relative to your powers in these matters it may be proper for you to consider whether it might not be advisable to apply to the next legislature for such remedial legislation as would enable the city to more adequately protect its rights in these and all other questions regarding public franchises and privileges.

CITY SALARIES.

Manchester pays fair salaries to her officials and employees; in some instances as much, if not more, than she can afford. Certain it is that the times do not at present warrant any further increase in any department. There have been several increases during the past two years that I believe to have been uncalled for, and by means of which the city salary list has been burdened too heavily. Here as elsewhere in municipal affairs the principles of men conducting their own private business should be strictly applied:

There is one method prevailing in salaries that should be remedied, and that is the abolishment of all fees from every office where they now appertain. The payment of a fixed salary to city officials is the only business way to pursue, and I hope to see this matter fairly and satisfactorily adjusted during this administration. There are a few instances only of this kind in vogue and they have long been open to the deserved censure of taxpayers.

PUBLIC BUILDINGS.

The public building property owned by the city of Manchester is generally in excellent condition and adequately meets all present and all immediately prospective requirements made upon it. A recommendation made by me two years ago in regard to remodeling the city hall was adopted by the last administration, and I think I express public opinion fairly when I say that the changes made upon it have since received almost universal approval. To my mind it is today one of the most attractive buildings upon our principal business thoroughfare, and it is certainly as conveniently and comfortably arranged for the transaction of city business as any city hall I know of. The improvements were carried out for a comparatively small sum of money, and I can see no reason why the present city hall quarters will not answer Manchester's purposes for the next quarter of a century, and possibly longer. As there had been for several years prior to these alterations a strong and growing sentiment in favor of the erection of a new city hall, with a fair prospect that such an enterprise would have been attempted within a few years, had these changes not taken place, it must be admitted that for the time being at least the city has been saved from an expenditure of not less than a quarter of a million of dollars.

Our public school buildings, fire engine houses, city library, city farm, courthouse, and police station buildings are all in good condition, and aside from the usual yearly repairs called for are well enough, with the possible exception of the city library building, and do not need to be changed. In fact, nearly all of the real estate property owned by the city is in good shape for the uses to which it is put.

THE PUBLIC LIBRARY.

Manchester has many reasons to be proud of her public library. It is of good size for a city of our proportions

and contains an excellent collection of books. Its shelves contain 40,558 volumes, an increase of over 2,000 volumes during the past two years. The number of new books added in 1896 was 1,109. The home circulation for the year was 66,488. What is most lacking at the library building is a suitable public reading room, and until such is provided this institution will never attain its full measure of popularity and educational value. A reference room, supplied with dictionaries, histories, encyclopedias, and other kindred books, where they will be of easy access, would also be of great value and convenience, particularly to professional men and women. A large, well lighted, attractive reading room, open early and late, Sundays as well as week days, with magazines and newspapers within reach, without having to be asked for, as they are now, would, I believe, do more to increase the educational value of our library than anything else that could be attempted. Until such a reading room is furnished there seems to be practical objection to keeping the library open on Sundays, a matter I have always believed in and favored.

And it is personally gratifying in this connection to state that a movement urged by me a little over a year ago, making a change in the library hours, met with favorable consideration from the board of trustees, and that the new system has been a success from the start. Since December 1, 1895, the city library has been open week days continuously from 10 A. M. to 8 P. M., with the result that all of the old patrons of the library are well pleased with the change and many new ones have been secured thereby. The open noon hour is a great accommodation to the laboring classes, as is also the period from 5 to 7 P. M., during which, under the old management, the library was closed. Neither the librarian nor the public would favor returning to the former method.

Under the management of Miss Kate Sanborn, librarian, the Manchester city library has steadily gained in circu-

lation. The gain for 1895 was 1,441 over that of 1894, and for 1896, 6,993 over that of 1895. The gain has been a steady one throughout and seems likely to continue. Miss Sanborn has brought to her duties an extensive and valuable knowledge of public library work and is constantly seeking after the newest and best ideas to build up the library and render greater its benefits. No library in New England is conducted under a more approved system, and none of its size is doing better work for a community. It is a matter of regret that the library is so inadequately supplied with good magazines and daily newspapers. Outside of the Manchester papers the library is today unprovided with a single daily newspaper, while the supply of magazines is very meager. This is a condition of affairs that should be remedied.

During the past two years certain needed improvements have been made in the interior of the library building, one of the most commendable being the substitution of electric light for gas. Under the old system of gas the building was very poorly lighted. A portion of the librarian's inclosure has been carpeted and a marked reduction of noise is noticeable. An extension of this work throughout the building would be a great improvement and one that those who go to the library to read would especially appreciate. The building has also been much improved by needed painting within and without. A heroic statue of Abraham Lincoln, a gift of the eminent sculptor John Rogers, was presented to the city last year and placed in the library building. Owing to its great size and the cramped condition of the present public waiting and reading room, it occupies too much valuable space, and I would suggest that at the completion of the new high school it be transferred to that building, where it can be better received and displayed. The increase of help at the library occasioned by the change of hours, and the substitution of electric lights for gas, have added somewhat

to the running expenses of the institution and a little larger appropriation will be required for the library the coming year.

THE PUBLIC SCHOOLS.

Manchester pays a large sum of money annually for the maintenance of her public schools. The appropriation in 1895 was \$92,500 and there was expended \$94,431. In 1896 the sum of \$103,500 was appropriated and \$102,559.91 expended, and the estimated expense by the school board of maintaining them for the year 1897 is \$113,800. No city in New England is better equipped with public school buildings than Manchester. Under the last administration three new eight-room brick buildings and a new high school building were erected to meet the pressing requirements of more school accommodations. Three of these structures were built by means of the issue of school bonds and one was paid for directly out of the taxes. The school bonds issued are all provided with an annual sinking fund, and when the bonds mature in twenty years these improvements will be fully paid for.

It is estimated that Manchester has today invested in public school property the large amount of \$800,000. For a city of 55,000 population, and by no means a wealthy city, this is an enormous investment for the purposes of public school education, and yet the statistics of the last few years show that about as fast as new school buildings are erected, in whatever section of the city they are placed, they are rapidly filled, and in a short time there is again call for more.

The last administration was confronted by an imperative demand for greatly needed school accommodations and they were provided; how wisely or well, you and the public have already had an opportunity to judge. It may be fairly said, however, that in design, construction, appointments, and equipment they are thoroughly substan-

tial and modern, and in these respects, and also in cost, will bear favorable comparison with similar school edifices erected anywhere in New England during the past two years. In securing plans and estimates for construction and equipment the members of the city councils have been materially aided by representatives of the school board, both bodies co-operating harmoniously and zealously in carrying forward these permanent improvements. To one member, especially, of the board of education the city of Manchester is deeply indebted for counsel and advice in these matters. I refer to Capt. Charles H. Manning, who has given generously, cheerfully, and gratuitously of his time, ability, and expert knowledge in every instance where they have been sought (and this has been very often), and not a little of the credit for the superior excellence of these handsome and commodious institutions of learning belongs to him.

Manchester is so well provided with public school buildings at the present time that I can see no urgent necessity of erecting any more new ones during the coming two years. The new high school will be opened next spring and this will place at the disposal of the school authorities for other school needs the Straw building of eight rooms. This will be used for the relief of the overcrowded rooms of primary and middle grades in the Ash-street, Spring-street, and Lowell-street schools, and to this new building will also be transferred the pupils of the Blodget-street school, who for many years have been badly housed. The transfer of these schools will relieve any further use of the Blodget-street building for public school purposes. After the foregoing changes are effected the Straw school will be organized with a lady principal at its head, similar to the Spring-street school.

The Straw school, named in honor of the late ex-Gov. E. A. Straw, remembered as one of Manchester's ablest and most illustrious citizens, was the first of the quartet

of new school buildings to be finished during the last administration, and upon its completion was at once occupied by the high school, and will continue to be so occupied until the new high school building is ready. This will probably be by the first of April next.

The new high school is a noble and imposing edifice, "built," as one of our public speakers not long since said, "not for today, but for generations." It stands upon the old high school site, and since its erection the electric car service has been extended to its doors. The building is capable of accommodating 700 pupils. In arrangement it is a model of comfort and convenience. Aside from a complete equipment of study and recitation rooms, it is provided with a library, chemical laboratory, astronomical observatory, armory and drill room, and a spacious assembly hall that will seat 800 people, and where the public exercises of the school may hereafter be held. The building is perfectly lighted, ventilated, and heated. In fact, these three essentials are conspicuous not only in the new high school, but in the new Straw school, Wilson school, and Parker school, and offer a striking comparison in sanitary equipment to the conditions found in the Ash-street and Lincoln-street houses, that not so very long ago were pointed out as specimens of modern school buildings. Despite the apparent large seating capacity of the new high school building, a large part of it will be utilized at once when the high school is reopened there. As the grammar schools continue to further increase in attendance, the new building may be used to relieve them, as is successfully done in other cities, by transferring the first class of the first divisions of the grammar schools during their last year to the high school. This will not only avoid the expense of erecting other new grammar school buildings for some years, but will also bring grammar school pupils more closely in touch with high school work before taking up a regular course of high school study.

If this plan is adopted the new high school building, instead of giving accommodations to some 300 pupils next spring, will ere long have an attendance of 500, and eventually of the full quota, 700. In this connection it can be said that Manchester's new high school building is practically fire-proof.

It is a matter of general regret to our citizens that the Manchester high school has been of late years the scene of so many sensational disturbances and disruptions, and it is earnestly to be hoped that the school will enter upon a new era of harmony and prosperity in the new building. Of the causes or origin of these troubles we are not now disposed to speak, but we believe we voice the sentiments of a large class of intelligent citizens in this community when we say that if some of the customs now followed by pupils of this school, outside of the class and study room, were prohibited, and pupils made to understand that they were not yet expected, and would not be permitted to ape the manners and habits of the colleges and seminaries, it would be far better, not only for the welfare of the school but for the welfare of the young ladies and gentlemen now pursuing there a course of education. The tendency of the hour in our public school system is to crowd into it too many superfluities, all clearly antagonistic to the fundamental and legitimate aims and purposes of a common school education; and when to these are added silly imitations of college and boarding school, it is not surprising that outbreaks occur and that the public exclaims, "What is the matter with our high school?"

From an aggregate attendance in our public schools of 3,632 in 1886, the attendance has increased during a decade, or until the close of the year 1896, to 5,382, a gain of 1,750. Ten years ago the number of public school teachers employed was 74; today the number is 115, an increase of 41. Our schools are generally well governed, and are taught by a corps of intelligent, conscientious,

and ambitious teachers, who are well paid for their services. In standing they are classed among the best in New England. Certainly no city is more liberal than Manchester in affording school accommodations, and with considerably over one hundred thousand dollars at the disposal of the public school authorities, parents and citizens of all classes have a right to expect that the present high standard will be maintained.

I am heartily in accord with the recommendation made by the superintendent of schools in the report just prepared by him as the report of the school board to be transmitted to the city councils, wherein he urges a modification of the high school course of study, that a larger proportion of grammar school graduates may be induced to enter the high school. Only about 70 per cent of our grammar graduates have been accustomed to enter the high school. There are several reasons accounting for this, not one of the least being a feeling prevailing in the community that the teaching of the English branches in this institution has been subordinated to the teaching of the classics. As comparatively few of the parents of pupils attending our public schools are able to send their children to the colleges or seminaries, instruction in such branches as will best meet the requirements of the masses should be of paramount consideration in the curriculum of this school, and not, as now, secondary.

THE FIRE DEPARTMENT.

To speak of the Manchester fire department is only to say, what every citizen of Manchester knows and takes pride in saying, that it is equal to any and excelled by none. This reputation was established years ago and has been sustained and steadily added to ever since. At no time in its honorable history has the Manchester fire department ever stood upon a higher plane of excellence than it does today; this not alone in the character and

number of men connected with it, but in the quality and perfection of its equipment.

A great deal has been done for the department during the past two years. A new hose house has been opened at South Manchester and equipped with a two-horse combination hose wagon; a new independent hose company has been installed at East Manchester; the old hose reel attachment at Lake avenue has been replaced by a two-horse hose wagon; a two-horse truck has been added to the Webster-street house and the stable and engine room enlarged. Three new exercise wagons, a large quantity of new hose, and a supply of fire-hose jackets have been purchased for the department; new wagon sheds have been built at the Fulton and Webster street houses; nineteen horses have been bought, exchanged, or traded by the fire department committee, and at the opening of the year 1897 we find it amply equipped and with no immediate call for further apparatus. There are now thirty-four firemen under salary, and during the past year the pay of the call men has been raised. The expense of maintaining the fire department during the year 1896 was \$65,298.07, and with the fire hydrant service added, \$82,098.07. Thus it will be seen that while satisfactory as is this department today to most taxpayers and property holders, it is a very expensive department to maintain, and as there appears to be no imperative reason for additional outlay at the present time, the expenses of the department ought not to be materially increased either this year or next. There were eighty-six box alarms of fire in 1896, entailing a total fire loss of \$23,882.30, on which \$20,977.05 insurance was paid, making the net fire loss for a city of not less than 55,000 population only \$2,905.25. It is doubtful if there is another city in the United States the size of Manchester that can furnish a fire record as creditable as this.

One menace to public safety has arisen the past year in the construction of the electric car service, through the failure or neglect of the Manchester Street Railway Co. to provide suitable guard wires along the full length of its trolley wires to prevent other wires from falling upon them. This applies not only to fire-alarm wires, but to telephone, telegraph, or any other wires that might become loaded with sleet or ice and fall and become crossed with the fire-alarm or other wires. It was but a few weeks ago that the entire fire-alarm system of a Michigan town was burned out through the faulty construction of trolley wires connected with an electric railroad. Anything that threatens the security and safety of the fire-alarm service of Manchester should receive prompt attention at the hands of the city officials, and its interests should be closely watched and guarded at all times.

The selection of suitable horses for service in the fire department is one entailing not a little care and judgment. Horses individually good and fit for many purposes may, upon trial, prove to be practically worthless as fire horses. There are in the department at the present time many good horses, but some of them are growing old and will soon have to be replaced. There are others that were never suitable for fire service and never will be. Too much money has been paid generally for horses for the Manchester fire department. As long as the present market prices for horses hold, good fire horses should be and may be honestly bought at a price not exceeding \$125 per head, and until there is some marked change in the condition of the horse market no sum exceeding this should be paid. When horses are purchased and turned over to the fire department they should be under the absolute control and management of the board of fire engineers and should not be interfered with in any way by the committee on fire department without the knowledge and sanction of this board. And in all matters

pertaining to this department, the chief engineer, who is its responsible head, should be fully consulted and co-operated with by the city committee whenever any action relating to the interests of the department is under consideration.

In connection with the fire department I believe there should be established a pension system. The duties of a fireman are dangerous and exacting, and provisions should be considered for a pension fund for the relief of disabled firemen as well as for those who have given the best years of their lives in the employ of the fire department and have become unfitted to perform duty or labor in other occupations.

STREET LIGHTING.

Unquestionably, Manchester is one of the best lighted cities in the United States. There are in operation in the city at the present time about 440 electric arc lights of 2,000 candle power each, besides a large number of oil, gas, and gasoline lamps in the suburbs. Of this number thirty-six were ordered in the past year; seven others have been voted in by the city councils and fifteen more have been recommended by the committee on street lighting. Fourteen petitions were laid over by the committee. The electric lights burn from twilight to twilight, and during whatever periods they cease to burn, a corresponding reduction is made in the expense charged to the city. A record of the condition of the lights at night is kept by the patrolmen of the police force and is furnished the mayor each month for inspection and adjustment. The lighting is done by the Manchester Electric Co. under a contract running seven years longer at the yearly rate of \$115 per light. It is hoped under the conditions of the contract between the city and the company that some material reduction in the expense of public lighting will be made during this administration.

The cost of street lighting increases yearly, the expense in 1896 being \$51,426.60 as against \$46,800.71 in 1895, an increase of \$4,625.89. The call for additional electric lights is a large and increasing one every year, and the committee having this department in charge is possessed of great responsibilities. To deal fairly with the petitioners and honestly with the city is far from easy. Many lights are petitioned for that are not needed; and as every electric light ordered in adds \$115 annually to the city's expense, the utmost conservatism should prevail in the deliberations of this committee. A redistribution of many of the lights now in operation would be a marked saving to the city and might be done without impairing the general service. Another very material saving might be made by the establishment of gas lamps in places where electric lights are called for. In some open places gas lamps provide sufficient light for all needed purposes and will continue to do so for several years to come; and as the expense of operating a gas lamp is about \$15 a year, as against \$115 for an electric light, a manifest lessening of expense could here be made.

CITY WATER WORKS.

The water-works department of the city of Manchester is managed by a board of commissioners and in most respects holds no immediate relations with the city councils, yet it is at all times more or less under your supervision and control, and as it is one of the most important of our city departments it should not be overlooked in any treatment of our public affairs.

It is a rational statement to make that few cities in this country are so well equipped with a public water service as Manchester. The value of this plant is conservatively estimated at two million dollars, sufficient to liquidate the entire debt of the city. The water rates exacted will compare favorably with those of some other cities, but

I believe they should be reduced whenever the water-works department is in a condition to do so. It seems to me that the city itself, owning the water-works, is required by those having its management in charge to pay too heavily for city water privileges. Last year the city turned into the water-works department about \$20,000, of which \$16,800 was paid for the use of fire hydrants. The fire hydrant fee of twenty-five dollars a year for each hydrant in use is fixed by statutory law, and the money thus received is credited to the water-works and is to be held by it inviolate, as a sinking fund for the liquidation of the water loan bonds, under such conditions as the board of water commissioners and the city councils shall deem for the interest of the city. This arrangement is undoubtedly a wise one, as it provides a practical ultimate method of paying the indebtedness of the water-works. But aside from this tariff, the city pays some \$4,000 for other water privileges, including \$700 for the use of water on the commons, or about one sixth of the money annually appropriated for commons; nearly \$800 for the use of the public schools; over \$400 for the fire department; about \$500 for city hall; nearly \$1,100 for cemeteries, and proportionate amounts for other departments. Aside from the cemeteries, no revenue is received in return.

By discontinuing charges to the city for the use of water for public purposes, or, at least, by making them nominal, the city would be saved an expense yearly of about \$4,000, and I can see no good reason why this should not be done.

Just at present it does not seem likely that the rates fixed for private water takers will be changed. As is well understood, the water commissioners are engaged in a great financial undertaking, that of acquiring the complete ownership and control of the full shore front of Lake Massabesic for the purpose of preserving the purity of Manchester's supply of drinking water.

Since this movement of land purchases was inaugurated the commissioners have acquired for the ownership of the city about 70 per cent of the shore front of the lake. The purchases of land made will average about 300 feet back from, and including, the shore front. While this undertaking on the part of the water-works is involving a large expenditure of money, intelligent public sentiment, which has been aroused by the dangers of recent years that have threatened the purity of Manchester's water supply, is generally in favor of the step, exorbitant though some of the prices paid for land seem to be.

Some public alarm has been manifested for several years on account of the periods of low water in the lake. Today, with winter fully set in, the lake is extremely low, though not as low by a few inches as it was two years ago. No doubt that the light rainfall during the past summer months had much to do with this condition, and while there was an increased fall of rain during the recent autumn months, the lake did not fill up as formerly. A similar state of affairs exists in many other city water supplies in other parts of the country, and no satisfactory explanation is given why this is so other than the summer drouth. Brooks and springs that serve as feeders to the lake in periods of good water seem inactive in times of very low water. And yet there is not the slightest occasion for fearing a water famine in the city of Manchester. With two pumping systems, a high service and low service, all of the water necessary for a city of 55,000, of 100,000 people even, can be afforded from Lake Massabesic. The present low lake, however, entails a greater loss of water at the old pumping station than if the lake were full, as so much more runs to waste down Cohas brook, which is the means of furnishing water to the Devonshire mills at Goffe's Falls.

The city of Manchester made a serious mistake years ago in not acquiring this mill privilege, which it might

have had at a very low cost and which it may eventually be obliged to obtain to protect its water interests. Instead of taking seven or eight gallons to pump one at the low service station, it now requires from ten to twelve, this being altogether due to the low state of the lake. There is now being pumped on an average from the old station from two and a half to three millions of gallons of water daily, and from the high service station half a million gallons per day. So well equipped is the high service station that in case of any accident to the old station the new plant is abundantly able to furnish daily all the water required for use in Manchester.

In addition to the heavy expenses now bearing upon the water-works from land purchases, the commissioners have yet to meet the cost of replacing some fourteen miles of old cement pipe, which was laid when the water-works was established, by new iron pipe. In the extension of water service the board has adopted the general financial policy of making no extension unless water takers will guarantee the payment of 6 per cent interest on the cost of extending, based upon the cost of putting in a six-inch pipe. There are at the present time about eighty-eight miles of city water pipe laid in the city of Manchester.

The total receipts of this department for the year 1896 were \$128,907.03, and the total expenditures \$113,068.36. The income from the sale of water during the year was \$111,091.41. There were sixteen fire hydrants set during the year, making the total number now in use 688, and placing the expense of the fire hydrant service to the city in 1897, if no more are added, at \$17,200. The bond issue of the water-works department January 1, 1897, was \$900,000.

The suit for \$50,000 brought by the Devonshire mills for diverting the water from Cohas brook is not much nearer settlement than it was two years ago. There is a practical agreement that it shall be eventually tried by a

board of referees, who, in addition to trial of the suit itself, shall also determine the whole question of all damages, prospective as well as actual, to the mills occasioned by the absolute control of the water-works. But the referees themselves have not yet been selected.

THE POLICE DEPARTMENT.

Here we have another department that is virtually managed without the assistance or co-operation of the city councils, beyond the appropriation of money to maintain it. It is wholly in the hands of a board of police commissioners appointed by the governor and confirmed by his council. For its good or bad behavior the city councils of Manchester are in no way responsible and should not, therefore, be held responsible. About \$53,000 was appropriated last year for the expenses of this department, of which the sum of \$10,000 was specially appropriated for a police telegraph and patrol system. This system was installed the past year by the Municipal Signal Co. of Boston and is classed among the most modern city improvements in Manchester of late years. The system works perfectly and has added greatly to the efficiency of the department and to the character of police work. The installing of the system necessitated the building of a stable in connection with the police station and the purchase of a patrol wagon, a pair of horses, and other equipments, about all of which were provided within the appropriation.

The police force at present comprises thirty regular men and twelve special officers, and is believed to be well organized and efficient. Since the commission was established, three years ago, the number of liquor saloons in Manchester has been reduced from 352 to about 60. The total receipts from the police department in 1896 were \$58,634.39, more than sufficient to meet the annual appropriation, as against \$62,008.88 in 1895. All in all, the

police department of Manchester is rated among the best connected with cities of this size anywhere, and it is assuredly as well equipped as any. Undoubtedly it has one need, and that is quarters for women prisoners separate from the main prison. To place men and women in the same quarters is reprehensible, and until separate accommodations are furnished for men and women the interior life of the police station will not be above taint and criticism. Arrangements should also be perfected for housing the city ambulance at police headquarters, as it is now subject to emergency calls the same as the patrol wagon.

THE CITY FARM.

It is an open question today whether the maintenance of a city farm is of any advantage to the city of Manchester. There are many who believe that it is an expensive burden and should be abolished. The establishment of the county farm within a few miles of the city has opened the question if it would not be better and cheaper for the city to pay the board at this institution of such prisoners as it is obliged to furnish quarters for, after sentence in the police court, rather than the expense of keeping them at the city farm and operating that institution at the city's expense. Comparatively few paupers find their way to the farm. There were four only in 1895, and not more than ten in 1896, and most of them were there for short periods only.

The city farm land, comprising one hundred and twenty-eight acres, is a very valuable piece of property, and is yearly becoming more valuable. If put upon the market it would bring a round sum of money; but it is a question if now is a time to sell it even if there was no institution maintained at the city's expense upon it. A section of it might be a valuable and desirable annex in coming years to Derryfield park. There was appropriated last year for

the maintenance of the farm \$8,000. The receipts from the farm for the year were \$4,494.12, leaving the actual cost to the city of running the farm \$3,505.88. For the past few years the scavenger service of the street department has been let to the city farm, and this has brought in a revenue of about \$2,500 annually, which formerly was not received.

There is one way perhaps that the city farm might be made self-supporting; but if the method was attempted, it would undoubtedly receive severe condemnation. This would be by requiring every able-bodied man sentenced to the farm to perform day labor on the city ledge under the street department. This system is employed in many cities and is the means of saving a great deal of money to these cities, besides providing means for some kind of adequate punishment to the prisoners. "Convict labor" is far from popular in Manchester, and it is questionable whether this system could be successfully carried out here.

As long as the city farm is maintained under the present method it is doing about as well as could be expected, and the fact that it has been maintained all these years while the property has been steadily appreciating in value may afford some reason for operating it and continuing its operation. A great deal of work has been accomplished at the farm during the past two years. Many noticeable improvements upon the property have been made without cost to the city, and, judged throughout, the institution has been well and faithfully managed. Like all institutions of this class, however, it is capable of improvement, and whoever may be selected among you to supervise its management, I trust that you will carefully scrutinize its methods, and if a saving to the city in its management can be made you will promptly bring it about.

THE BOARD OF ASSESSORS.

It is the belief of a large number of the taxpayers of Manchester that the present method of assessing taxable property is attended by great injustice, and that the system should in some way be changed. This opinion is shared by me; but so long as a board of assessors is chosen as the present board is chosen, I see no immediate reason to expect change or improvement. The responsibilities of assessing the many millions of dollars' worth of property that should properly be assessed in a city like Manchester should be intrusted only to men of fairness, peculiar ability and sagacity, and unswerving honesty, and even with these qualifications, if they did not possess complete and accurate knowledge of the present values of property, and had not the courage and backbone to assess them upon a basis of strict equality, they would do no better than the present or past boards have done; and I believe that they have acted honestly and to the best of their ability while in office.

In seeking for a remedy to elevate the standard and increase the efficiency and favor of this department, I would look to a judiciously selected board of well-qualified men chosen in some manner that would insure a wise and proper selection, and that they be paid an ample salary for the work they are called upon to perform. So long as the present method of assessment is pursued, so long will inequalities and injustice continue. This is a question worthy of the serious and careful consideration of the Manchester delegation to the coming New Hampshire legislature, and I should be glad to see it fairly investigated and treated by the members. Other New England cities have had experiences in this line similar to those now occupying our attention, and the question was not satisfactorily decided until the personnel of the board was taken away from the loose and careless method of caucus

nominations and placed upon a higher plane of more thoughtful and intelligent selection.

THE HEALTH DEPARTMENT.

The health department of Manchester has become a most important and beneficial adjunct of the city works. Decried for years, it has by intelligent and conservative management steadily gained in public favor and confidence and is now accomplishing a large amount of useful and practical work in the community. It is still badly hampered in some directions; but as the quality and efficiency of its work become better understood, public sentiment is inclining toward enlarging and strengthening its field of action and supporting its methods.

The matter of a hospital for contagious diseases has long been deferred and should not be set aside a great while longer. As is well known, all that is now available for such purposes is a building located in Derryfield park, which, while better than none, is far from satisfactory in itself and is in a most improper locality. The establishment of a suitable building or set of buildings, where diphtheria, scarlet fever, or smallpox may have separate and comfortable apartments, and where patients may be treated and nursed in a proper manner, is no longer simply desirable but in the judgment of the health board necessary. Probably the cheapest way and the one most convenient for the health department would be the establishment in the local hospitals of contagious wards where patients could be sent, with no further responsibility than the payment of the necessary bills; but this is not likely to be possible in the near future, as most of the hospitals are too near other buildings, and probably none have the money to invest in what must necessarily be a losing venture financially, owing to the small number and irregularity of the occurring cases.

The next best way would be the establishment and maintenance of a municipal contagious hospital; but this

in a sufficient completeness would be too expensive for a city of this size. It might, therefore, seem advisable for the city to build a set of small and inexpensive buildings to serve as a place of refuge for cases of contagious diseases, which may be closed up when not in use, and I would therefore recommend to the city councils that careful consideration be given to this matter. The health department has been giving the matter much attention during the last year and has accumulated much information on the subject. The members of the board would be a valuable associate committee for doing the work, especially as it will be for their use and control when completed.

There is another city office that should come under the jurisdiction of this department, and that is the office of milk inspector. As at present conducted the office accomplishes very little and the money devoted to it is practically wasted. Until it is made a part of some department that will give its influence and backing to the official serving as milk inspector, it is not reasonable to expect much if any better results than those now attained, and they are far from satisfactory. This opinion is shared by those who have held this office as well as by others acquainted with its work.

GARBAGE AND REFUSE.

The problem of Manchester's waste and garbage confronts the city at this time as it has never done before. The usual way of carrying all the refuse to dumps for filling in low land is no longer deemed feasible by the street and health departments, the localities where this has been done in the past having, owing to the rapid growth of the city, become a part of the residential sections; and this further use is not only unsightly and undesirable, but a menace to the health of the community. To cart the materials farther away can be only a temporary

makeshift at increased expense, with the probable early complaints of nuisances wherever deposited.

Attenuation is the scientific way of disposing of these materials, by converting them into perfectly harmless and inoffensive products, either by some process of reduction or by simple cremation. The reduction processes, which aim at the conversion of the refuse into harmless and useful products, which have a commercial value, is expensive in plan and costly in operation, the resultants not paying the expense of the process even in the very large cities; and, besides, they consume only garbage, leaving the dead animals and general city refuse to be disposed of in some other manner; and it is the general refuse that gives Manchester the most concern. If these reduction processes cannot be worked economically in larger cities they must be proportionately more expensive for such a city as ours, aside from the fact that they do not fill the whole of our requirements.

It seems clear, therefore, that the simple crematory is best suited to a city of our size and circumstances, the cost of both plant and operation being less than that of other processes. As much is always gained by experience in the construction and operation of such plants, it seems advisable to start with a plant of considerably smaller size than would be considered adequate for consuming all the waste of a city of this size, including all garbage and night soil. At present, garbage and night soil are disposed of in a manner which, while not satisfactory from a strict sanitary view, can be tolerated for a while longer. A plant that would take care of the promiscuous perishable waste, including dead animals, would not need to be large, and while serving our immediate needs would afford a valuable basis of judgment for the establishment of a plant that will do the entire work in a satisfactory manner.

Just the exact cost of such a starting plant cannot be stated, as no department has at present the proper authority to incur the expense necessary to a determinative investigation of qualities and costs of the various crematories now in use; but from the best information at hand it is believed that it would require about \$8,000 to cover the entire expense, outside of land, for a location, and possibly \$6,000 would answer. In all the cities where such plants are in operation they are either operated by the health department or under its authoritative supervision, which appears to be the logical way, and should be so done in this city if a plant of this character is established. Certain it is that the garbage and refuse question, particularly the latter, must be fairly met within the next two years by the city of Manchester, and it is not any too early to take the matter under intelligent consideration.

MANCHESTER'S STREETS AND ROADS.

In common with nearly every city and town in the United States, Manchester is vitally interested in the subject of good roads and in the adoption of a more efficient, economical, and equitable system of highway improvements. It has become the fashion in this city for certain classes of people to denounce in a wholesale manner the condition of our streets and roads and to bitterly criticise our street department for not making them better. For one, I believe that a large share of this criticism is undeserved and is the result either of ignorance or malice. As a class our streets and roads are fairly good and will stand comparison with those of other cities which have the same or similar conditions of native soil and rock to deal with. Ours is a loose and sandy soil and our native rock has been proven unfit for road building except for purpose of ballast. Not until the street commissioners adopted the policy of sending elsewhere for a top dressing for our streets was the work of macada-

mizing successfully accomplished. Since the advent of the Salem trap rock the streets of Manchester have shown great improvement, and as the commissioners and the public are well satisfied with the present system of building a macadam road, it is likely to be continued with increasing favorable results. In macadamizing streets under the new process, a ballast consisting of native broken stone taken from the stone-crusher is laid about twelve inches deep and on top of this is placed trap rock to the thickness of about four inches, and the whole rolled down by the city road-roller, weighing eighteen tons. Samples of this kind of road building may be found in various parts of the city, and where the work has been thoroughly done the streets are in a most excellent condition.

Aside from an inferior quality of soil and rock, Manchester is poorly provided with a first-class quality of gravel, an essential factor in good road building. So in many ways the conditions here are largely against the best roads, and when such are built they are very expensive. If Manchester was provided, as some cities are, with an abundance of good material for good roads, the problem of building them would be an easy one; but as she is not, the officials of our street department have to do the best they can with the material at their command, and by buying the rest from other sections according to the means placed at their disposal.

It is an easy matter to criticise the condition of our streets; but did you ever stop to consider that there are two hundred miles of streets and roads within our city limits that call for the attention of our street department? If you have, then you will understand why Manchester has not a larger percentage of good streets and a smaller percentage of poor ones. Herein lies the fundamental reason for so many bad streets and roads,—we have too many of them laid out.

For years past it has been the policy of Manchester city governments (and I do not know as they differ greatly in this respect from those of other cities) to lay out streets petitioned for in a most lavish manner, regardless of the fact that the city is indictable if they are not built within a period of two years, and that the expense of building them all must be met sometime. Under this reprehensible policy, burden after burden has been forced upon the city until she has today on her shoulders thirty miles of accepted streets that are not built. This, as every thinking person and every taxpayer knows, is all wrong, and is a policy that should be stopped, and stopped now. "Lay out no more new streets, unless they are a public necessity, until the ones we have are properly taken care of," is a policy which, if adopted and consistently adhered to, would bring credit to the incoming board of aldermen. It is only fair to say of the board that has just gone out of office that it displayed commendable prudence in the matter of granting petitions for new streets, only about two miles of new streets being laid out in 1895 and three miles in 1896, and of these certain streets were built by the landowners before they were accepted and the owners placed under bonds for three years to continue improvements upon them.

This leads me to remark that a too large share of the petitions that come before the city councils for new streets represent purely the personal motives of individuals owning land that they want developed at the city's expense. These land speculators (for this they certainly are) have been very successful in their efforts in the past, and to their selfish greed Manchester is today indebted for the great street burden resting upon her. In a large measure this sort of business has been stopped during the past two years by the refusal of the aldermen to lay out the streets petitioned for. This stand is right, and it should be the stand of the new board. These land schemes have cost

the taxpayers of Manchester money enough already, and no man can honestly serve the city's interests who will assist in permitting them to thrive in the future, or who will not use his efforts and influence to prevent them going into effect.

Another policy pursued by the last aldermanic board I also esteem worthy of being followed out, and that relates to the purchase of land by the city for new streets. Not one dollar has been paid to landowners for the purposes of new streets and roads in Manchester during the two years just elapsed. Every abutting landowner has been required to give that portion of his land necessary for the laying out of a street and waive all claim for land damages, or the layout has not been granted. While in a few instances this has seemed a hardship to parties desiring the street, not for financial advantage but for public accommodation, the policy is thoroughly right, and should be adhered to. Let the speculators build the streets that are to personally benefit their pocketbooks before the city accepts them; and if there is land to buy in order for them to attain their ends, let them buy it, and not the city.

As an illustration of the reckless manner in which new streets have been laid out in Manchester in the past, it may be said that on one afternoon several years ago a board of aldermen visited a certain section of this city and in less than twenty minutes, and without alighting from their carriages, voted to lay out a system of new streets that at a conservative estimate will cost the city \$30,000 to make passable, and not less than \$50,000 to only fairly build them. And these grants were made solely in the interests of private landowners in that locality.

Unquestionably some of the worst pieces of roadway we have in Manchester are found directly in the heart of the city on Elm street. This street was paved many years ago with a style of block paving that looks strange

and old-fashioned compared with the new and modern block paving so recently completed on Granite bridge and its approaches. No doubt it was a good thing in its day, but it is now badly worn and uneven, full of holes and altogether a wretched looking piece of paved road, almost dangerous for horses under certain slippery conditions, and should be replaced with new and better paving. But the cost of paving is by no means small, and to attempt to repave Elm street throughout, where needed, in one year, would involve too burdensome an expenditure. However, if means warrant during your coming term of office, I think it might be advisable to make a beginning in this direction, and so continue this improvement year by year until the thoroughfare is paved with small block paving throughout its entire paved length. The old stones that are replaced might be utilized, if serviceable, to a good advantage in our back streets, some of which, in our business centers, already need paving quite as much as the main streets themselves.

Up to January 1, 1895, there were laid out and not built in Manchester 25.42 miles of streets, and at the first of January this year, 1897, the number of miles is found to be 30.63. Of the little over five miles laid out in the past two years, 5,360 feet have been built and 9,347 feet turn-piked so as to be open to travel.

The street department has had several large and important street and road undertakings to deal with the last two years, notable among them being the entire rebuilding of the Eddy road in Amoskeag, made necessary by the flood of 1895; the widening and building of Hanover road out to Lake Massabesic, an expense brought about by the extension of the electric car service; the widening and building of old Bridge street; the widening of the Mast road in West Manchester, and the building of Kelley street in McGregorville. The installation of the electric street railway also involved the city in considerable ex-

pense at both ends of Elm street and on Manchester street.

While upon the subject of streets I offer it as my opinion that concrete roadways are not a profitable investment for the city, particularly so where there is heavy team traffic. There are no asphalt paved streets in Manchester, the cost of the best quality of asphalt having been regarded too high to introduce here. It is conceded, however, that asphalt, properly laid, makes one of the finest, smoothest, and most enduring surfaces for city streets now in use. But one objection to using it in Manchester is on account of the necessity almost yearly of making changes and repairs in city pipes laid under ground. If these had been originally placed in our back streets we should be spared the annoyance of having our main streets so frequently disturbed and injured by attention upon them.

And right here it is proper to state that some more vigorous means should be provided to protect the interests of our city streets against the damages wrought upon them every year by private individuals. A large source of the trouble arises from sewer enterers, who dig up the streets for the purpose of laying private sewer pipe and neglect to replace them in a satisfactory condition. It would seem wise if some regulations were adopted stopping private individuals from disturbing the streets in any way whatever, allowing all work pertaining to streets by private individuals to be done under the direction of the street department at a reasonable compensation. Under the present arrangement it costs the city annually a large sum to repair damages occasioned to the streets by private individuals.

There are certain others that misuse our streets in the laying and repairing of underground pipes. The most complaint is made against the water-works department. This department is charged with handling our streets

very badly, causing the city, it is claimed, an expense of not less than \$2,000 every year for repairs on streets and crossings, the result of digging in and through them. As the city ordinances require the streets dug up by the water-works to be restored to a condition satisfactory to the superintendent of streets, this unnecessary expense should be promptly stopped. Frequent complaints have been made to the water-works department relative to this matter but they seem to have done no good, as the abuse continues year after year. I would suggest to the board of street and park commissioners if, after formal notice to the water-works department of the neglect of its employees to conform to the ordinances and the refusal of the department to comply, that the work be performed by the street department and the expense charged to the water-works. Certainly there is no reason why this department should be permitted, any more than private individuals or corporations, to add unjust expense to the care of our streets. If any lack of harmony exists between these two departments it should be at once adjusted and not made a burden of expense to the taxpayer.

The street department may also be at fault in not co-operating more fully with the water-works department in all street matters. It is known to be a fact that the grade of streets holding city water pipes has been changed and the grade cut down, and in consequence water pipes have frozen. No grade of streets containing city water pipes should be cut down without the knowledge of the water-works department, and in all matters in which the interests of the city are involved there should be the heartiest co-operation between department and department. And, while touching upon this question of street grade, permit me to say that herein lies a great deal of public dissatisfaction and uncalled for expense to the city. The changing of street grades after they have been once legally established has cost the city of Manchester thousands of

dollars in damage suits. The solution of this trouble I believe would be easy if, when new streets were laid out, their legal grade was carefully established and never changed afterwards. This can and should be done, and when this has become a fixed policy in street affairs a large burden of expense that has yearly been forced upon the city would be removed.

Some improvement has been shown during the past year or two in street cleaning, but the method still employed is far from satisfactory. Our streets are not as clean as they should be or as clean as they might be made without incurring a burdensome expense. No doubt our streets are indebted for much of the odium cast upon them to the quantities of loose paper which are carelessly permitted to be circulated. The "paper nuisance" in our streets is one of the city's greatest nuisances, and more vigorous means should be adopted to abate it than those now in vogue. No street sweeping in the business section should be done until the streets are first sprinkled. The cloud of dust and dirt raised by dry street sweeping damages goods in many of our stores and is the cause of general complaint throughout the business districts. Similar complaints also come from residential sections wherever concrete roadways are dry swept. Another public annoyance, although of a different nature, is caused by the storekeepers themselves in window and sidewalk washing during business hours. This work should be done in the early morning before the sidewalks are occupied by men and women on their way to their places of business, and I would recommend that the board of street and park commissioners adopt and enforce some stricter and improved regulations relating to this matter.

It is questionable if there is another city in New England more badly disfigured by poles set in the public streets than Manchester. It would seem as if no attention whatever had been paid by the city authorities to

this matter in years past, and that corporations had been permitted, unchecked, to encumber and disfigure our streets. The result is that Manchester today presents a most disgraceful exhibition of pole construction. Not only are private corporations responsible for this defacement but the city itself, some of the most wretched specimens of poles now in use being the property of the city. That this contamination of our highways is a disgrace to the city every intelligent person who has ever directed his attention to the disfigurement well knows, and it is incumbent upon every city official having the power to assist in regulating this nuisance to exercise it in the direction of a sweeping improvement.

The winter custom of flooding the public commons for skating purposes, as observed for several years past, is a popular one and worthy of being continued. The expense entailed is small, and as long as our water supply is in no way crippled thereby the custom should be followed. As a means of affording healthful recreation to the youth of Manchester, under conditions of perfect safety, it is to be highly commended.

CITY SEWERS.

There are about sixty miles of sewer pipe laid in the city of Manchester at the present time and about six miles more have been voted in. There was expended on sewers in 1895, \$71,950.76, and in 1896, \$71,629.86. Sewers are among the most expensive public improvements this city has to deal with, and the money spent upon them is the least apparent. Some of the sewer building of the past two years has been extremely costly. For instance: the Jewett-street sewer cost to build \$6.84 per foot, while the Silver-street sewer cost the city over \$8 per foot. These were two very important trunk sewers and had to be built. Until they were built and opened the public health was daily endangered. In one instance the expense was

aggravated by the ledge, and in the other by a deep, soft bottom. The latter invariably makes sewer building more costly than the former. In most of the big sewer improvements of the past two years the commissioners have encountered tracts of ledge which have rendered the work not only difficult but very expensive.

Among the notable large sewers laid during the past two years may be mentioned those on Silver street, Jewett street, Christian brook, Mast road, and North Elm street. Fortunately the city is well equipped for the present with trunk sewers, one large one only being in contemplation of building this year, that to drain the large area in West Manchester covered by the Whittemore, Amoskeag Company, and other property. A settlement of some forty houses and tenement blocks and four hundred people in this section is now without sewer facilities of any kind, and the interests of the public health demand that accommodations be afforded here the coming season. A well-arranged plan for taking care of the present and future needs of this locality has been devised and the work will doubtless be carried out this year.

A large number of branch sewers have been ordered built in the suburban districts, some of them of considerable importance. It is these growing sections that have of late years drawn so heavily upon the city's finances, and so long as they continue to enlarge, this expense will continue, though, as already stated, the large and most costly system is of trunk sewers now very well provided, and immediate future needs apply in a great measure to branch sewers, which are much less expensive to build. In regard to sewers, as also to streets, water, and lights, the city is paying heavily for the development of outside property, and in future extensions of these services the members of the city government should carefully consider not only the demands made by property holders but the ability of the city to grant them. Persons building

houses in remote parts of the city, where city improvements and accommodations have not yet reached, should not reasonably expect to acquire them at once; and yet it is a fact that they do, and that they look upon such public servants as oppose an expenditure of money to benefit them as guilty of gross meanness and injustice; yet it is your first duty to consult the city's interests and not the interests of the individual or individuals in every question that comes before you.

HIGHWAY BRIDGES.

In the two years that have just elapsed the city of Manchester has experienced two of the greatest floods ever known in the history of the Merrimack river, by which her bridge property severely suffered. The flood of 1895 did serious damage to nearly every highway bridge in the city; but it was nothing compared to the disaster that came last spring, whereby every bridge was affected and by which the city lost the most important of all its bridges,—Granite bridge. Public travel on Granite bridge was stopped March 3, 1896, and was not fully resumed until November 28 of the same year. It was weeks after the flood had subsided before temporary provisions for foot travel could be effected, and team traffic of every description was suspended from the day the old bridge was swept away until the new one was opened last November.

The selection of a bridge to replace Granite bridge was a matter a long time before the city councils, and no end of public discussion was indulged in before the city councils, with almost entire unanimity, decided in favor of a steel bridge sixty feet wide with a stone-paved roadway. It was found after the water in the river had reached a low point in the summer that all of the piers and abutments would have to be rebuilt to insure perfect safety to the new structure, and this discovery delayed

the progress of the bridge some weeks. The bridge has now been open to the public about six weeks and is regarded by all as a first-class modern structure throughout, and the equal of any highway bridge in this part of the country. The new piers and abutments were all built higher than the old ones so that the new bridge stands clear by eight feet of the high water mark of the flood of 1896. The stone work of the bridge was built by L. F. Kittredge & Son of Lowell and the steel superstructure by the Groton Bridge Co. of Groton, N. Y. All of the work came under the direction of the board of street and park commissioners, who employed the assistance of W. H. Bennett as city engineer and Capt. Charles H. Manning as consulting engineer, and, so far as any one has yet been able to discern, was performed to the eminent satisfaction of the public. The bridge, including all stone work, cost \$136,527.73. For its payment 4 per cent semi-annual bridge bonds were issued in the sum of \$130,000, payable in five years, and a sinking fund established providing for the payment of these bonds at the expiration of this time, \$25,000 being set aside annually for four years from the taxes, and \$30,000 the fifth year, so that imperative as was the necessity of building the bridge, provisions that seem to me wise were adopted for its payment without involving the city in a long term of bond indebtedness.

Our other two highway bridges across the Merrimack are not what most of us would like to see there, especially now, as they are held up to comparison with Granite bridge; but so far as we know both are safe for the business and travel that passes over them, and with careful attention paid to them every year will doubtless do good service a while longer, unless record-breaking floods repeat themselves and force the city to build others in their places. There has been some agitation concerning a new wooden bridge across the Merrimack at the foot of

Hancock street, and another across the Piscataquog north of Kelley's Falls, petitions for each being received by the last administration. Doubtless these improvements will come in the future, but there does not appear to be any urgent necessity for erecting them now.

BUILDING INSPECTOR.

A recommendation made by me two years ago regarding the appointment of a building inspector for the city of Manchester has received consideration in so far that a special committee was selected for the purpose of preparing a new set of rules and regulations, defining the duties and powers of such an official, which, if acceptable to the city councils, were expected to be incorporated into our city ordinances. This committee has given the subject intelligent consideration and will be able to make a report to you early in this administration. Until such rules and regulations are adopted it is useless in my opinion to continue the office.

PARKS AND COMMONS.

The parks and commons of Manchester are a source of pleasure, health, and of not a little pride to all of our citizens, and the improvements made in caring for them during the past few years are apparent to all.

During the two years just elapsed, conspicuous improvements have been made at both Derryfield and Stark parks. The former is the largest of Manchester's public "breathing places," and with its many natural advantages is destined to become one of the most beautiful and picturesque public grounds in New England. By the will of the late ex-Governor James H. Weston the sum of \$5,000 was bequeathed to the city for the purpose of erecting a public observatory to be known as the Weston Observatory, on the summit of Oak Hill, now part of this park. Under the conditions of the bequest steps have

been taken by the proper authorities to secure a satisfactory plan, and this now having been agreed upon, bids for erecting the structure will be received and the contract awarded for building it the coming season. The observatory will be constructed of stone, with a winding iron stairway on the interior leading to the top, and will be about sixty feet in height. The view from the summit of Oak Hill under natural conditions is a magnificent one, and from the top of the proposed observatory it will be one of the grandest to be obtained anywhere in this part of the state. The citizens of Manchester are certainly deeply indebted to Governor Weston for his thoughtfulness and generosity in life toward his native city, for whose best interests he had always unselfishly and zealously labored.

A fine stretch of macadamized graded road 1,528 feet in length has been built in this park during the past two years, and 2,000 feet of sewer pipe laid for draining the land. There are several excellent pieces of driveway in the park, one leading to the summit of Oak Hill, and in future one should be laid out and built winding down from the summit toward the west, entering upon Belmont street. This would afford a beautiful system of pleasure drives and one that the public would greatly enjoy in the summer season. The trees in the park have been carefully trimmed, the brush cleared out, and the grounds rendered as attractive as possible, for the money expended upon them.

There is one feature in this park that should no longer be permitted to remain, and that is the city "pesthouse," so called, for contagious diseases. This building stood upon the ground before it became a city park and its presence there now is so clearly bad that public sentiment calls for its prompt removal. During the past summer a case of varioloid was being treated within the building while a picnic party embracing 1,500 children was in

progress in the grounds about it. Such a condition of affairs in a public park, while no harm has thus far arisen, should no longer be tolerated.

Stark park has received many improving touches and is yearly becoming more attractive. Some eight hundred flowering shrubs were set out here last year and roses were in blossom throughout the summer. A macadamized driveway has been built and many things done that show a much improved condition of the park.

All of the city commons have received intelligent and skillful treatment at the hands of superintendent Fullerton and are yearly growing in public favor. The condition of cleanliness pervading them is a source of general comment. Every morning during the summer and fall seasons the commons are cleaned and twice a week thoroughly swept. In the dry season the grass is sprinkled five times a week; it is cut on an average nine times a year. About \$500 has been expended in wood ashes for fertilizing the lawns on the commons within the past two years. Considerable has been done in improving the walks, noticeably on Merrimack and Concord commons, and in setting out new trees in the place of old ones that have died. Altogether, Manchester's parks and commons make a most gratifying showing for the amount of money expended upon them, which was about \$5,000 on the latter last year.

Last year the city councils added to Manchester's park system by the purchase for \$12,000 of about nine acres of land in the southeastern section of West Manchester, which it is proposed to establish as a park for the West Side, now wholly unprovided with such public benefits. The cost of the establishment and improvement of parks may be made large or small as the work is laid out and conducted. In the instance of the new West Side park, it would seem to be an economical policy to make a small beginning, and so by annual appropriations gradually carry forward the work of improvement.

The history of many cities shows that the creation and maintenance of suburban parks are justified, and that from purely a financial point of view they are a good investment for a community. Much attention has been given to this question in Boston. A reference to the annual report of the park department of that city for 1895 will show that the value of the land in the vicinity of the Back Bay park improvement trebled in thirteen years, while the balance of the city increased only eighteen per cent. The increase of taxes on the land on account of the increased value during that time was \$2,000,000, which more than covered the cost of all improvements. They find that instead of increasing the rate of taxation the location and improvement of parks so affect the value of adjacent land that the rate may be reduced and still the tax levy be enough greater than before to provide for the maintenance of the parks. Parks must be a good thing else all the great cities of the world would not be acquiring so much land for the purpose.

Another new park was projected last year, also on the west side of the river. This is in the vicinity of Rock Rimmon, and the proposition includes the rock itself, of which the Amoskeag Company offers to make a free gift to the city, and about seventeen acres of land about it owned by private individuals. The site is one of historical interest and value and is well designed by nature for a public park. The cost of acquiring all of the land necessary for this park will be about \$21,000.

THE PUBLIC CEMETERIES.

The most important matter relating to Manchester's public cemeteries that has transpired during the past two years was the action of the trustees of the cemetery funds changing the conditions of voluntary contributions received by the city for the perpetual care of cemetery lots. This action, now in effect, allows the city to accept \$100 as

the minimum sum for the perpetual care of lots containing not more than 250 square feet, and forty cents per foot for all lots in excess of 250 square feet, the income therefrom to be expended for the care of the lots as provided by law governing cemeteries. This action on the part of the trustees has met with general approval from cemetery lot owners, especially from a large class who felt that they were being discriminated against under the old management, which seemed to favor the rich and deal unjustly by those of limited means. The money now in the hands of the trustees of the cemetery fund amounts to \$48,000, and is invested in five per cent bonds.

At the Pine Grove cemetery there are 340 lots under perpetual care, and under the new and more popular conditions relating to them the number is sure to steadily increase. Among the most apparent recent improvements at this cemetery are those carried out on Chapel Lawn, the public ground, and the G. A. R. lot. The latter has been considerably enlarged and placed under perpetual care. The public ground has been graded and made as attractive as any other part of the cemetery. The water service in the cemetery has been extended, some 3,000 feet of water pipe having been laid, and a number of new drinking fountains erected. About 800 feet of eight-inch sewer pipe has been laid for surface draining. Considerable new concreting has been done, a number of new plots laid out with shrubs, and in other directions this cemetery bears evidence of painstaking and sagacious management. The appropriation for this cemetery in 1896 was \$8,500, and the receipts of the year \$5,125.23.

Valley cemetery has lost nothing in public favor as a burying ground during the past two years. While the opportunities here for widespread improvements are not nearly so marked as at Pine Grove, this beautiful spot, so aptly named, continues to hold a warm place in the affections of our citizens. There are now here under perpet-

ual care some sixty lots. Within the past two years the work of grading over the valley and hills has been begun and carried forward with satisfactory results. The work of filling in the bank on the west side has also been started, corresponding to the improvements made on the east side.

One of the best changes recently effected here is the adoption of a new system of numbering the lots. The plan has been well started, and when in thorough working will be a decided convenience to the management and to lot owners. The winding brook flowing through the grounds now contains a carefully laid stone bottom, an improvement of recent occurrence. One of the foot-bridges across the brook has been rebuilt and another repaired; there have been a number of new concrete walks laid along the hill, and in other respects the past two years have seen a great deal of needed work faithfully and judiciously done here. There was appropriated by the city councils last year for the use of this cemetery \$3,000, and the receipts of the year were \$1,900.31.

At Amoskeag cemetery the first steps towards the erection of a new iron fence about the grounds were taken last year, a section 146 feet in length being built. A much needed extension of the water service in the cemetery has been made, 166 feet of 1½ inch water pipe having been laid. About sixty loads of gravel have been used during the year. The cemetery paths, which were cut very deep when the cemetery was laid out, have been kept in good order and are being gradually brought up to proper grade year by year. The sub-trustees recommend that an additional purchase of land adjoining the cemetery be soon made, as all the present available space for lots is now occupied. There were three burials here during the past year, and the sum of \$350 was appropriated for the maintenance of the cemetery. There is no income from this cemetery, a fact that should be borne in mind before further enlargements are granted.

There are fifteen burial grounds in Manchester, nine of which are private. The grounds owned and maintained by the city are Valley, Pine Grove, Amoskeag, Merrill's Yard, Moore, and the cemetery at East Manchester. The two latter are among the oldest and have of late years received no appropriations for maintenance from the city councils. Merrill's Yard was acquired in 1895.

GENERAL PUBLIC IMPROVEMENTS.

Aside from the many permanent public enterprises conducted under the auspices of the city during the past two years, Manchester has received important improvements from various outside sources, conspicuous among them being the introduction of an electric street railway plant and various needed extensions of the service for the public accommodation. A first-class plant has been installed; it is generally conceded that there is none better anywhere. The Boston & Maine Railroad has also done a great deal for Manchester during the past year, giving the city a new freight station that is the equal of any in New England, and adopting plans for a new passenger station to be built this year. These are improvements of a general and long-needed character, and, while the city has long been suffering for the lack of them, their coming at last in such splendid and substantial form is the occasion of universal satisfaction.

The establishment of a new passenger station below Granite street will be the means of greatly reducing the dangers and annoyances so long existing at the Granite-street railroad crossing. With the location of both the passenger and freight stations south of Granite street, the crossing at this point will be used only for through train traffic, and the long waits and delays that public travel has encountered here for so many years will largely be done away with. It is sincerely to be hoped, however, that the time will come when all grade crossings within the city will be altogether eliminated.

THE SEMI-CENTENNIAL.

An occasion that will long be remembered with pleasure, satisfaction, and pride was celebrated in Manchester during the month of September last. It was the celebration of the fiftieth anniversary of the incorporation of Manchester as a city, and citizens of all classes united in making the event a credit and honor to Manchester. One of the most interesting features of the anniversary was the gathering of old residents and the formation by them of an Old Residents' Association. Over one thousand men and women, who were identified with the city at or before its birth, assembled here during the week and took a conspicuous part in the exercises. That such a large number of pioneers were still living and holding an interest in the welfare of a community which they had helped to create was a surprise to everybody, and it is to be hoped that they may continue to meet annually in social and other helpful relations for years to come.

The expenses of the celebration were met by means of a special appropriation of \$2,000 by the city councils and personal contributions amounting to \$5,258.75 by the people at large. So much of historical interest and value was developed by the anniversary that its general committee unanimously decided to secure the publication of an illustrated memorial volume of the occasion and the preparation of this is now well under way. It will be necessary in order to produce a creditable volume for the city councils this year to make a small appropriation sufficient only to meet the expenses of compilation, and I respectfully recommend that this be done. Authority to legalize such action is expected to be obtained of the coming New Hampshire legislature.

THE CITY POOR.

There are many worthy poor people in Manchester, and through the efforts of the city and county authorities and

that most helpful charitable organization, the City Mission, now so admirably managed by Miss Mary E. Gray, their interests are far better looked after than ever before. There are some two hundred worthy poor people being looked after at this season of the year by the city missionary, and her unselfish and devoted efforts merit every public and personal aid that can be afforded them. During the past year the overseers of the poor attended to 1,103 orders, the largest number that ever received the attention of this board in a single year. These cases applied to 137 families, comprising 441 persons, all having a settlement in Manchester. There was expended by the board during the year \$11,910.49, and there was received from the county commissioners \$3,471, making the net cost to the city of conducting the business of this department, \$8,510.78. Of the amount paid out the largest expenditure in any one ward was \$2,578.69 in ward five, and the smallest, \$40, in ward two. The affairs of this department have been prudently and carefully carried out. As clerk of the board, Col. W. H. Maxwell has performed his duties faithfully and well and merits special commendation.

CONCLUSION.

In conclusion, gentlemen, permit me to urge that you pursue a policy as liberal in all directions as will be consistent with our financial situation, permitting only the welfare of our city and the most friendly motives to actuate you in your official intercourse with each other, that each member will be impressed with that deep sense of duty characteristic of such an intelligent body, a duty well performed to himself, and to the people, ever watchful and critically inclined; bearing in mind at all times that honesty and integrity are the fundamental principles which should guide us in the performance of our public duty, and which if carried out will meet the approval of

our fellow-citizens. Satisfactory work can be accomplished only by a prompt and regular attendance at the sessions of the city councils, giving due consideration to all matters presented, and legislating in all with a regard for justice, economy, and the general welfare of the city. Under no circumstance neglect the work of the committee room, for here the real, practical, important work of municipal government is performed. To earn the reputation of being a hard, faithful, and conscientious worker in the committee chamber is to win the name of being a useful and valuable public servant.

Do not embarrass any department by the passage of orders which it may be impossible to execute by reason of limited appropriations. Previous to any recommendation for the passage of an order for an expenditure of money, ascertain whether the interests of the petitioners as well as the city will be enhanced thereby, carefully remembering that to pass an order which cannot be executed by a lack of funds necessitates relegating it to a pigeonhole.

Standing committees should especially bear in mind that they have advisory powers only, and, unless empowered by the passage of an order by the city councils, are wholly unauthorized to purchase anything in behalf of the city.

In his last annual report the city auditor drew particular attention to this subject, and in submitting his opinion I give it my free and hearty indorsement: "Several of the committees have been very lax in this respect during the past year, and have attempted to make contracts without the least semblance of authority from the city councils, which has put the parties contracted with to great annoyance and trouble in getting their bills approved, having to wait sometimes months for the necessary ratification by the city councils. Clerks of all committees should be requested by the chairman, when an

expenditure of money is deemed necessary, to prepare an order and present to the councils for legal authority before proceeding to make any contract."

I welcome you to your new duties and ask your earnest co-operation in all measures which shall be for the public advantage; and when your work is completed I trust you may be able to feel that your acts have been prudent and wise and your duties well and faithfully performed.

WILLIAM C. CLARKE,

Mayor.

MANCHESTER, N. H., January 5, 1897.

REPORT
OF THE
BOARD OF WATER COMMISSIONERS.

BOARD OF WATER COMMISSIONERS,
1897.

WILLIAM C. CLARKE, *Mayor, ex officio.*

ALPHEUS GAY, term expires January, 1899.

ANDREW C. WALLACE, term expires January, 1900.

HARRY E. PARKER, term expires January, 1903.

HENRY CHANDLER, term expires January, 1904.

CHARLES H. MANNING, term expires January, 1901.

CHARLES T. MEANS, term expires January, 1902.

Officers.

ALPHEUS GAY, *President.*

HENRY CHANDLER, *Clerk.*

CHARLES K. WALKER, *Superintendent.*

ARTHUR E. STEARNS, *Registrar.*

JOSIAH LASELLE, *Engineer at Low Service Pumping Station.*

H. A. DONAWAY, *Engineer at High Service Pumping Station.*

REPORT

OF THE

BOARD OF WATER COMMISSIONERS.

To the Honorable the City Councils of the City of Manchester:

GENTLEMEN,—The Manchester Water Board herewith submit their twenty-sixth annual report for the year ending December 31, 1897, with the report of the superintendent during the same period, to which reference may be made for details of the service.

FINANCIAL CONDITION.

Receipts and expenditures for the year have been as follows:

Balance unexpended December 31, 1896...	\$17,387.36
Received from water rentals and miscellaneous	125,719.17
Premium on bonds sold.....	6,248.00
<hr style="width: 100%;"/>	
Total.....	\$149,354.53
Paid interest on water bonds....	\$40,414.00
Current expenses and repairs....	32,111.72
Construction	33,002.25
Hydrant rentals set aside for sinking fund	17,175.00
<hr style="width: 100%;"/>	
	122,702.97
<hr style="width: 100%;"/>	
Balance unexpended	\$26,651.56

The commissioners have continued the policy of acquiring land on the shore of the lake, and have deeds from

eight different owners of land since our last report, which includes the full ownership of the Harvey mill privilege, so called.

No serious loss or damage has been incurred by leaks or defective pipes. No special progress has been made in the Devonshire Mill suit against the city during the year.

Respectfully submitted.

WILLIAM C. CLARKE, *ex officio*,

ALPHEUS GAY,

ANDREW C. WALLACE,

CHARLES H. MANNING,

CHARLES T. MEANS,

HARRY E. PARKER,

HENRY CHANDLER,

Water Commissioners.

JANUARY 1, 1898.

SUPERINTENDENT'S REPORT.

To the Honorable Board of Water Commissioners of the City of Manchester, N. H.:

GENTLEMEN,—The following is the report of your superintendent for the year ending December 31, 1897, which is respectfully submitted:

A gratifying feature of this report is as to the amount of water in the lake at the present time. It has been abundant enough to supply the city and run the low service pumps since February. The lowest point reached was 1 foot and 9 inches below the dam on January 3. The highest point reached was December 17, when it was 2 feet 8 inches above the dam.

The water stands today 2 feet above the dam, which is 3 feet 8 inches higher than one year ago. The water has been higher at times, but the average through the summer and fall has not been so much for over twenty years.

The amount of rainfall for 1897, measured at the new pumping station, was $49\frac{3}{4}$ inches, which is about 10 inches more than in 1896.

LOW SERVICE STATION.

The pumps at this station have done their work so satisfactorily that very slight repairs were required during the year.

Two arms on the bevel gear on the jack-shaft became disabled and were repaired. A new crank pin was put into the Davidson pump and new brass plates on the piston head of one piston.

On the east side of the station, a piazza was built from the pump house to the dwelling house, 12 by 18 feet, to

prevent the water which leaked through the concrete from running into the oil room.

The fence in the front yard was improved by putting in twenty-five new posts and repainting. This completed the general repairs in and about the station.

HIGH SERVICE STATION.

At this station, some considerable work has been done by way of improvements. A substantial wall has been built along the east side of the Borough road, north of the road leading to the pumping station, and on the westerly line of the Hunter place. Some grading has been done south of the station by the deposit of coal ashes from the boilers. A cottage which was included in the purchase of the Hunter farm has been moved to the northerly side of the barn and a shed built to connect them. All buildings have now been removed from the Hunter shore and also the Proctor shore. This removes all the buildings on the west shore of the Back Pond that are in Hillsborough county, so that the city now owns and controls all the shore to the Williams land.

The pumps at this station are now being overhauled, set over, and repacked. As the repairs are now in progress, the expense at the present time cannot be accurately estimated.

The men in charge at each station fully understand their business and are well qualified to have charge of their respective premises.

At the high service reservoir the banks were fertilized, which is all the improvement made at this point. The reservoir is in fine condition and as yet gives no evidence of leaks.

The two force mains on the high and low service have caused considerable trouble by leaks. Little damage has been done, however, except by the blowout of one plug near the brook on the Mammoth road, which washed out

AMOUNT PUMPED INTO THE LOW SERVICE RESERVOIR.

MONTHS.	Kind pump.	No. hours work.	Average strokes.	No. strokes.	No. gallons pumped.	Total each month.	Daily aver- age.
January.....	Davidson.....	465 h. 30 m.	19.29	538,984	81,925,568	81,925,568	2,642,760
February.....	"	375 " 05 "	20.08	407,597	61,963,527	61,963,527	2,560,191
"	Wood.....	30 " 30 "	22.41	72,151	3,721,816	71,685,343	
March.....	"	80 " 30 "	21.39	10,528	13,665,696	78,770,944	2,540,998
"	Davidson.....	350 "	20.43	428,324	65,105,248		
April.....	"	375 " 50 "	21.60	487,336	74,075,072	74,075,072	2,469,169
May.....	"	407 " 30 "	21.56	527,668	80,205,536	80,205,536	2,587,275
June.....	"	440 " 40 "	22.09	584,378	88,825,456	88,825,456	2,960,838
July.....	Wood.....	163 " 40 "	22.05	216,640	28,596,480	108,936,536	3,514,082
"	Davidson.....	425 " 35 "	22.15	570,768	80,340,056		
August.....	"	419 " 30 "	21.39	539,258	81,968,216	82,823,972	2,671,741
"	"	4 " 45 "	22.74	6,483	85,756	84,767,816	2,825,593
September.....	Wood.....	425 " 30 "	21.58	537,683	84,767,816		
October.....	Davidson.....	292 " 30 "	20.94	368,910	56,074,320	76,828,152	2,478,327
"	"	119 " 30 "	21.86	157,226	20,753,832	70,508,544	2,350,284
November.....	Wood.....	369 " 50 "	20.85	463,572	70,508,544	83,966,320	2,708,581
December.....	Davidson.....	420 " 45 "	21.83	552,410	83,966,320		
		5,166 h. 40 m.	20.23	6,480,211	983,319,259	983,319,259	2,692,403

Davidson, 909,725,679; Wood, 73,583,580.

PUMPING RECORD, HIGH SERVICE, 1897.

MONTHS.	Number of days pumping.		Total pump- ing time per month.		Total number of strokes.	Average strokes per minute.	Coal in pounds.				Gallons pumped per lb. of coal.	Dynamic head.	
	Hours.		Raising steam and bank- ing.	Pumping.			Asbes and clinkers.	Total coal.					
	Max.	Min.											
January	16	30	12,689	36,625	276,881	41.8	12,689	36,625	5,294	49,314	15,287,294	417	273
February	15	00	11,466	33,918	300,525	41.4	11,466	33,918	5,354	51,384	16,590,237	416	273
March	15	00	11,886	35,404	271,239	41.0	11,886	35,404	5,034	47,290	14,981,248	423	271
April	15	30	9,379	35,788	273,846	43.2	9,379	35,788	4,807	45,167	15,134,167	423	269
May	15	30	9,634	37,407	285,298	41.6	9,634	37,407	4,921	47,041	15,757,436	421	270
June	16	00	10,171	44,403	336,059	44.5	10,171	44,403	5,549	54,574	18,556,324	416	269
July	15	120	9,573	42,455	321,141	44.6	9,573	42,455	5,072	52,028	17,792,303	417	269
August	17	52	10,618	43,154	326,892	44.3	10,618	43,154	5,489	53,792	18,058,558	419	269
September	15	30	9,570	40,553	311,256	45.3	9,570	40,553	4,868	43,323	17,180,162	426	270
October	15	117	9,324	41,737	314,542	44.6	9,324	41,737	5,115	51,261	17,591,215	417	271
November	15	115	10,330	40,945	308,421	44.7	10,330	40,945	4,948	51,275	16,993,066	415	270
December	16	30	15,904	43,367	328,495	43.7	15,904	43,367	5,357	59,271	18,142,139	418	269
	185	1,400	130,744	481,556	3,654,595		130,744	481,556	61,808	612,320	201,794,149		

February 16, 17, 18, water was let into low service from gate Mammoth road.
 273.3 tons of coal were used in pumping.
 155 gallons of oil.
 370 pounds of waste.

about fifty loads of dirt. The reservoir being full at that time, this accident caused no serious alarm, as the plug was soon restored and the pumps again commenced action.

DISTRIBUTION PIPES.

These pipes have been extended about four and one half miles and there have been laid over about two and three quarters miles. There was laid in the same trench with the sewer pipe on the upper end of Elm street, 567 feet, on Carpenter street, 800 feet, and on Merrimack street, 220 feet. An arrangement was made with the street department whereby an allowance was made to it of \$2.50 per lineal foot on Elm and Merrimack streets, and \$2 per foot on Carpenter street, toward the cost of excavation, this being for blasting through solid rock. A 12-inch pipe was extended on Elm street, from the north line of Trenton street to Rowell street, thence west on Rowell street to River road. From here, an 8-inch pipe was laid south on the River road to the north line of the Elizabeth Stark house. A connection was made at the corner of Rowell street and River road, and a 6-inch pipe laid from this point to the Industrial School yard by the state of New Hampshire, for fire purposes. The pipe was extended south on Beech street from the north side of the Nutt road 4,446 feet, to the south side of Norfolk street. Less rock excavation was encountered on this line than was expected.

Distribution pipes have been extended in forty-three streets. A certain portion was relaid in twenty-three streets. The most expensive was on Elm street, where it was relaid from Manchester to Lowell streets, 1,540 feet, and at the same time most of the service pipes were laid over. In most cases, service pipes which have been laid fifteen to twenty years have become so corroded as to

render unsatisfactory service, particularly where under one inch in diameter.

There have been bursts in the cement pipe, although but little damage was done. There are now about ten miles of cement pipe in use, which is being gradually replaced with iron pipe, the completion of which we hope to see within two years. Water was supplied to West Manchester through the pipe on Granite bridge last winter. The expansion joint moved just one and one half inches from warm to cold weather.

The main pipe on North Elm street, which was laid in the sewer trench last winter, broke under the excessive weight of granite which had been piled upon it. The water waste was first discovered at the high service reservoir, where it seemed to leak out as fast as pumped in. It was traced, by the gates, to that part of the pipe between Carpenter and Trenton streets. The water was found to be running down the sewer trench, under the water pipe, and thus did not show on the surface. This break occurred in the month of June and it was some time in August before the excavated rock was removed by the street department, so as to repair the pipe. When found, it proved to be a crack three feet long, caused by the weight of stone on top and insecure filling underneath. During this time the water remained shut off above Carpenter street. This only corroborates what has been said in former reports about the undesirability of laying the water pipe in the same trench with the sewer pipe.

There are in the city 707 hydrants. They are the cause of a great deal of anxiety in the winter to the water-works officials, as they get out of order so easily. I will not repeat what I have said before about using the hydrants in cold weather, but it seems to me they are oftentimes opened when not necessary.

The following table shows the rainfall at the high service pumping station for 1897:

RAINFALL AT HIGH SERVICE PUMPING STATION, 1897.

DAY.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1						.02		.06			.21	
2			*.20		.29			.02	.73		2.09	
3			*.39		.07	.10					.06	*.16
4					.30	.71						
5	.77			.22		.23		1.18				.73
6			*.72								.07	
7		1.03		.04								*.07
8				.07					.04	.03		*.08
9				1.10		.67		.06		.02	.94	
10			.28	.12	.25	1.61						
11				.03	.07	.04		.11	.07	.02		
12		*.45	.26		.47		1.05	.04		1.31	*1.90	.81
13					.92	.63	2.78		.30			
14			*.39		.45	.14	1.01					.68
15				.31								1.56
16		*.09						.47			.34	
17				.26					.11			
18	.34											*.03
19								.22			*.02	
20			.33			1.12		.26			*.12	
21	*1.11	*.38	*.28		.06		.04		.09		.11	*.27
22							.29	.81				
23	*05	*.56					.08	.13			*.10	.05
24			*.63		.02			1.56	.51			
25					.66		.15					
26				.06	.34						.09	*.13
27				.13	.59				.16		.46	
28	*1.13			.02						.02		
29							.91				*.12	*.12
30						.97						
31					.28		.04					*1.02
	3.40	2.51	3.48	2.36	4.77	6.24	6.35	4.66	2.27	1.40	6.63	5.71

Total rainfall, 49.78 inches, 1897.

Total rainfall, 38.41 inches, 1896.

Total rainfall, 42.06 inches, 1895.

The income from sale of water for 1897 has been as follows:

Received for water by rate.....	\$30,647.17
for water by meter....	76,148.60
for building purposes	331.85
from fines	321.80
	\$107,449.42

* Snow melted.

Received for old cement pipe...	\$172.00	
for labor and pipe sold	67.05	
from Smyth Block Co.,		
4-inch main	31.25	
from Frank Clement,		
old brass	56.40	
from Peter Riley, old		
brass	80.76	
from State Industrial		
School, pipe.....	54.30	
from Stark Corpora-		
tion, pipe	9.05	
from Claremont Water		
Co., bands	51.62	
from Manchester Elec-		
tric Light Co., pipe..	63.23	
from Baker & Dear-		
born, stop boxes....	2.00	
from E. R. Whitney,		
pipe	39.42	
		\$627.08
Received from Asa Haselton,		
rent	\$50.00	
from Mr. Hamblett,		
grass	2.00	
from L. E. Emery,		
grass	3.00	
from Charles Spofford,		
grass	20.00	
from Sarah Gilbert,		
grass	2.00	
from Mel Hall, 6 houses	150.00	
from F. H. Pettegrew,		
Perkins's pavilion..	20.00	
from H. S. Clough,		
Hobbs house	40.00	

Received from Amos Latuch, Proctor house	\$20.00	
from E. H. Fogg, Stuber boathouse	20.00	
from Boston & Maine R. R., damage to woods	6.67	
from Fletcher Brown, lease	1.00	
from G. G. Griffin, lease	1.00	
from Massabesic grange, rent	50.00	
from S. G. Prescott, rent	50.00	
from C. Draton, rent..	4.00	
from J. A. Sinclair, rent	48.00	
	<hr/>	\$467.67
		<hr/>
		\$108,544.17
Received for hydrant rentals.		17,175.00
		<hr/>
Total received.		\$125,719.17
Abatements, \$614.05.		
Amount on hand Dec. 31, 1896..	\$17,387.36	
received from water rates, etc.	108,544.17	
received from hydrant rentals	17,175.00	
Premium on bonds sold.	6,248.00	
	<hr/>	
Total		\$149,354.53
Amount paid for current ex- penses	\$32,111.72	
Amount paid for construction expenses	33,002.25	

Interest on bonds, 1897.....	\$40,414.00	
Hydrant rentals set aside for sinking fund.....	17,175.00	
	<hr/>	
Total expenditures, 1897.....		\$122,702.97
		<hr/>
Balance on hand December 31, 1897...		\$26,651.56

CLASSIFICATION OF ACCOUNTS FOR 1897.

Superintendence, repairs, and re- newals	\$23,837.22	
Stationery and printing.....	219.20	
Office and incidental expenses...	1,433.56	
Pumping expenses, low service	2,140.39	
Pumping expenses, high service	3,869.53	
Repairs to dam, canal, and res- ervoirs	239.99	
Repairs to buildings	371.83	
	<hr/>	
Total current expenses for 1897.....		\$32,111.72
Service pipes	\$3,064.05	
Distribution pipes	17,799.89	
Fire hydrants and valves.....	1,666.44	
Meters	3,356.92	
Land	6,450.00	
Grading and fencing.....	664.95	
	<hr/>	
Total construction expenses, 1897....		33,002.25
Sinking fund		17,175.00
		<hr/>
Total		\$82,288.97

Construction Expenses.

Land and water rights.....	\$142,184.00
Dam, canal, penstock and races	101,399.16
Pumping machinery, pump- house, and buildings.....	176,372.19

Distribution reservoirs.....	\$117,697.90
Force and supply main.....	89,769.02
Distribution pipes.....	585,811.13
Fire hydrants and valves.....	59,383.13
Meters and fixtures.....	54,449.98
Service pipes.....	71,681.94
Grading and fencing.....	17,376.92
Tools and fixtures.....	10,649.35
Boarding and store houses.....	919.36
Roads and culverts.....	4,405.20
Supplies	550.39
Engineering	22,176.19
Livery and traveling expenses..	2,856.64
Legal expenses.....	563.79

Total construction expenses to Dec. 31,

1897 \$1,458,246.29

Current Expenses.

Superintendence, collecting, and repairs	\$296,891.47
Stationery and printing.....	7,245.63
Office and incidental expenses..	32,840.82
Pumping expenses at low ser- vice	53,796.04
Pumping expenses at high ser- vice	13,628.08
Repairs to buildings.....	3,588.56
Repairs to dam, canal, races, and reservoir.....	5,274.37

Total current expenses to Dec. 31, 1897 413,264.97

Interest

Highway expenditures..... 14,000.53

54,679.04

Total amount of bills approved to date \$1,926,190.30

Interest, discount, and labor performed on highway, trans- fers, and tools and materials sold	\$67,200.92	
Current expenses to Dec. 31, 1897	413,264.97	
	<u> </u>	\$480,465.89

Total cost, exclusive of interest and
current expenses..... \$1,445,724.41

Interest and discount to Dec. 31, 1896.....	\$842,900.51
Interest for 1897.....	40,414.00
	<u> </u>

Total interest and discount to Dec. 31,
1897

\$883,314.51

AMOUNT OF WATER BONDS ISSUED TO DECEMBER 31, 1897.

Issued January 1, 1872, rate 6 per cent, due January 1, 1902.....	\$100,000.00
Issued January 1, 1887, rate 4 per cent, due January 1, 1907.....	100,000.00
Issued July 1, 1890, rate 4 per cent, due July 1, 1910.....	100,000.00
Issued January 1, 1892, rate 4 per cent, due January 1, 1910.....	100,000.00
Issued August 1, 1893, rate 5 per cent, due August 1, 1913.....	100,000.00
Issued November 1, 1893, rate 4½ per cent, due November 1, 1913.....	100,000.00
Issued October 1, 1894, rate 4 per cent, due October 1, 1914.....	50,000.00
Issued July 1, 1895, rate 4 per cent, due July 1, 1915.....	100,000.00

Issued December 16, 1895, rate 4 per cent, due December 16, 1915.....	\$50,000.00
Issued January 1, 1897, rate 4 per cent, due January 1, 1917.....	100,000.00
	\$900,000.00

SINKING FUND.

1893	\$12,750.00
1894	13,925.00
1895	15,800.00
1896	16,800.00
1897	17,175.00
	\$76,450.00

Total

STATEMENT OF RECEIPTS.

Year.	Total.	Hydrant rent.	Water by rate.	Water by meter.	Received for building purposes.	Fines.	Labor, pipe, and material sold.	Rentals and building sold.	Number of meters.
1872	\$573.61						\$573.61		
1873	2,097.60		\$1,692.69	\$190.84		\$14.00	200.07		
1874	32,154.07	\$22,425.00	7,987.27	1,436.56	\$119.10	104.18	699.85		98
1875	29,223.60	13,095.50	10,292.13	3,348.11	122.13	120.59	2,245.64		160
1876	39,028.47	16,320.00	15,900.63	6,305.81	72.32	180.16	249.55		166
1877	43,823.30	17,475.00	18,064.51	7,783.09	136.10	233.04	131.56		202
1878	48,874.26	17,970.00	20,255.97	10,090.25	83.60	232.82	241.62		226
1879	53,143.17	18,165.00	21,610.13	12,732.93	81.60	240.64	303.87		251
1880	57,655.25	18,300.00	23,795.96	14,794.34	79.50	210.39	465.06	\$10.00	280
1881	60,215.62	18,780.00	25,336.18	15,554.98	105.60	223.99	203.87	11.00	310
1882	67,630.13	20,130.00	26,803.06	19,898.69	146.65	197.49	443.24	11.00	371
1883	73,458.20	20,520.00	28,838.24	23,431.20	314.65	208.04	125.07	21.00	404
1884	75,580.08	21,350.00	31,724.07	21,329.75	195.10	231.96	738.20	11.00	446
1885	80,404.12	18,900.00	33,597.02	27,425.35	102.50	186.80	181.45	11.00	486
1886	75,129.99	19,750.00	33,062.11	21,573.45	287.40	130.80	320.23	6.00	613
1887	80,518.17	20,437.50	33,497.21	25,277.09	351.70	119.20	819.47	16.00	739
1888	85,643.82	21,000.00	33,864.78	29,838.82	543.80	149.80	243.62	3.00	842
1889	86,700.46	18,240.00	34,140.99	33,506.05	361.95	153.20	155.27	53.00	951
1890	90,463.37	19,880.00	32,431.10	37,009.80	649.90	151.80	298.77	42.00	1,135
1891	76,605.23	4,590.00	30,588.79	40,479.25	494.80	160.40	200.99	91.00	1,313
1892	83,474.79	5,000.00	31,344.24	46,139.35	416.00	168.40	139.80	267.00	1,608
1893	104,170.08	12,750.00	32,603.59	58,103.20	1,033.75	159.60	339.38	180.56	1,895
1894	110,210.29	13,925.00	32,176.28	62,501.35	697.80	227.40	334.82	347.64	2,182
1895	118,374.50	15,800.00	32,903.99	67,465.90	808.20	300.40	768.17	327.84	2,520
1896	128,907.03	16,800.00	32,540.03	77,610.10	638.48	302.80	440.12	575.50	2,865
1897	125,719.17	17,175.00	30,647.17	76,148.60	331.85	321.80	627.08	467.67	3,134

1878, meter rate was changed. 1884, hydrant rates reduced. 1886, meter and other rates reduced. 1889, hydrant rates reduced. 1891 and 1892, received only part of hydrant rent, and nothing from water-troughs or street sprinklers. 1893, hydrant rent and water-closets rate reduced.

The following amounts have been paid over to the city treasurer, and credited to the water-works:

1872, supplies and materials sold.....	\$573.61
1873, supplies and materials sold.....	177.07
accrued interest on water bonds sold	193.26
accrued interest on state bonds sold..	146.00
water rents.....	1,920.53
1874, supplies and materials sold.....	607.89
March 12, highway expenditures transferred from water account.....	14,000.53
March 17, interest and discount transferred from water account.....	12,347.25
September 1, interest and discount transferred from water account...	22,361.74
water and hydrant rent.....	30,233.54
December 29, interest transferred....	4,566.25
1875, water and hydrant rent.....	27,119.15
sundry items.....	2,104.45
1876, sundry items.....	149.00
water and hydrant rent.....	38,879.47
1877, sundry items.....	131.56
water and hydrant rent.....	43,691.74
1878, water and hydrant rent.....	48,632.64
sundry items.....	241.62
1879, sundry items.....	303.87
water and hydrant rent.....	52,839.30
1880, water and hydrant rent.....	57,180.19
sundry items.....	475.06
1881, water and hydrant rent.....	60,000.75
sundry items.....	214.87
1882, water and hydrant rent.....	67,175.89
sundry items.....	454.24
1883, water and hydrant rent.....	73,312.13
sundry items.....	146.07
1884, water and hydrant rent.....	74,830.88
sundry items.....	749.20

1885, water and hydrant rent.....	\$80,211.67
sundry items.....	192.45
1886, water and hydrant rent.....	74,803.76
sundry items.....	326.23
1887, water and hydrant rent.....	79,682.70
sundry items.....	835.17
1888, water and hydrant rent.....	85,397.20
sundry items.....	246.62
1889, water and hydrant rent.....	86,492.19
sundry items.....	208.27
1890, water and hydrant rent.....	90,122.60
sundry items.....	340.77
1891, water and hydrant rent.....	76,313.24
sundry items.....	291.99
1892, water and hydrant rent.....	83,067.99
sundry items.....	406.80
1893, water rents.....	90,900.14
sundry items.....	519.94
1894, water rents.....	95,602.83
sundry items.....	682.46
1895, water rents.....	101,478.49
sundry items.....	1,096.01
1896, water rents.....	111,091.41
sundry items.....	1,015.62
1897, water rents.....	107,419.42
sundry items.....	1,094.75
premium on bonds.....	6,248.00
Total	<hr/> \$1,811,878.77

METERS.

The number of meters set during the year has been two hundred and seventy-eight (278).

Total number of meters now in use, thirty-one hundred and thirty-four (3,134).

The number of applications for water has been two hundred and fourteen (214).

Total number of applications to date, fifty-three hundred and sixty-six (5,366).

SERVICE PIPES.

Two hundred and eighteen (218) service pipes have been laid this year, as follows:

216 1-inch	5,498.0 feet
1 1½-inch	33.0 "
1 6-inch	29.5 "
Total	<u>5,560.5 feet</u>

SERVICE PIPES RELAID, 1897.

1 ½-inch dia. 34.0 feet to 1-inch dia.....	33.0 feet
1 ½-inch dia. 21.0 " to 4-inch dia.....	19.0 "
69 ¾-inch dia. 2,282.0 " to 1-inch dia.....	2,187.5 "
1 1-inch dia. 0.0 " to 1-inch dia.....	18.0 "
15 1-inch dia. 674.2 " to 1-inch dia.....	701.9 "
2 1-inch dia. 31.8 " to 2-inch dia.....	30.8 "
1 2½-inch dia. 57.0 " to 2½-inch dia.....	63.0 "

92 old pipes, 3,202.0 feet to.....new pipes, 3,157.0 feet

Fifty-two hundred and one (5,201) service pipes have been laid to date, as follows:

27 ½-inch diameter.....	565.6 feet
1,548 ¾-inch diameter.....	39,926.8 "
3,485 1-inch diameter.....	88,312.3 "
22 1¼-inch diameter.....	893.5 "
25 1½-inch diameter.....	805.0 "
69 2-inch diameter.....	2,213.5 "
2 2½-inch diameter.....	63.0 "
5 3-inch diameter.....	89.8 "
11 4-inch diameter.....	288.5 "
	<u>133,158.0 feet</u>

Number miles of service pipe, 25.22.

The following streets are where cement-lined pipe was taken up and cast-iron pipe laid in 1897:

STREETS.	LENGTH OF PIPE.						GATES TAKEN OUT.		LOCATION.
	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	6 in.	4 in.	
Amberst.....					58		1		Corner Elm.
Beech.....		12							Corner Pearl.
Central.....					583				Beech to Maple.
Central.....					24				Corner Elm, west side.
Conant.....					55				Corner N. Main.
Concord.....					965				Pine to Beech.
Concord.....					58		1		Corner Elm.
Elm.....	1543				35				Merrimack to Lowell.
Franklin*.....					21	510		2	Merrimack to Market
Hanover.....					58		1		Corner Elm.
High.....							64		Corner Pine.
Laurel.....					1,810				Beech to Wilson.
South Main.....			557						Ferry to Railroad.
Manchester.....					1,218				Beech to Lincoln.
Manchester.....					58		1		Corner Elm.
Market.....					726		1		Canal to Elm.
Mechanic.....					36		1		Canal to Elm.
Merrimack.....				6	767				Maple to Lincoln.
Pearl.....					1,588				Pine to Maple.
Pine.....				822					Concord to Bridge.
Pleasant.....					318				Elm to Franklin.
Spring.....					699		1		Elm to Canal.
Spruce.....					1,100				Beech to Lincoln.
Stark.....					848				Elm to Canal.
Walnut.....						50			Corner Concord.
Water.....					41		1		Corner Elm.
	1543	12	557	828	11,066	624	8	2	

Total relaid, 14,630 feet, or 2.77 miles.

*Franklin street, 9 feet 4-inch cast-iron was taken out, and 510 feet 4-inch and 21 feet 6-inch cement-lined was taken out, and 540 feet 6-inch cast iron laid instead; also 2 4-inch gates were replaced with 6-inch gates.

PIPES LAID AND GATES AND HYDRANTS SET IN 1897.

STREETS.	LENGTH AND SIZE OF PIPES LAID.					GATES SET.					Hydrants.	LOCATION.	
	14 in.	12 in.	8 in.	6 in.	4 in.	14 in.	12 in.	8 in.	6 in.	4 in.			
Arlington				307								1	Ashland to Morrison.
Bacon				686					2				Bridge to Lowell.
Beech		214											South of Webster.
Beech			4446	45				4				5	Near Nutt road to Norfolk.
Bell				186									East of Wilson.
Buzzell					156								North of High.
Carpenter				800								1	Elm to Adams.
Cedar				286									West of Hall.
Central													Corner of Elm.
Central													East side of Beech.
Central													South of Amory.
Columbus				283									West side of Beech.
Concord													South of Amory.
Cumberland				197									Sheridan to Glenwood.
Donahoe				451								2	Carpenter to Rowell.
Elm		563	978	61								1	North side Merrimack, south side Stark and
Elm													[Water.
Essex				640									South of Amory.
Franklin													Corner of Market and Merrimack.
Glenwood				125									To Lovering.
Glenwood				191									To Donahoe.
Gore				811									To Russell.
Hall				122									To Cedar.
Hall road				600									Massabesic to Nelson.
Harrison				554					3				East to Linden.
Hayward				946									East of Merrill.
Jones				251									Northward.
Kelley				156									To Laval.
Laurel													East side of Beech.
Laval				259									To Kelley.
Lovering				364									East side of Glenwood.
Manchester													East side of Beech.
Massabesic				250									Porter to Hall road.

Belmont.....						6121.....					2	10	8
Bell.....						883.....						3	3
Birch.....		25				476.....						2	2
Blodget.....		37				1497.....						3	4
Bridge.....		62	708			4254.....					10	11	21
Bridge (old).....						282.....						2	1
Brook.....		97				3289.....						8	8
Brown ave.....						2832.....						3	3
Buzzell.....						156.....						1	.....
Byron.....						1018.....					2	.....	2
Calef road.....						2056.....						1	2
Canal.....	154			46		4620.....						7	2
Candia road.....				201		2873.....			1		3	6	9
Canton.....						771.....						1	1
Carpenter.....						1404.....						2	1
Cass.....						495.....						2	.....
Clark.....						1949.....						3	4
Clay.....						1263.....						2	3
Cedar.....		608				2657.....					1	6	11
Central.....		604	72			1062.....						2	15
Chestnut.....		708	115			382.....					6	12	8
Concord.....		47				940.....					1	10	14

* To Fletcher's Crossing.

† From old reservoir by Mammoth road and Massabesic street to Lake avenue.

Mourne					421						1	1
Morrison					370							
Myrtle					3166						9	12
Nashua				57						477		1
Nelson					578						2	2
Norfolk					105						1	
North					81		1486				1	4
North River road					1380				2039		3	6
Nutt road					547			800			1	1
Old Falls road					405							1
Orange					3176						8	12
Orchard avenue					375						1	1
Page					1653						2	4
Pennacook					1570						2	4
Pearl					4076				1012		2	14
Pine		329			1586				5789		4	6
Pleasant				31	1045						4	4
Porter					364						1	
Prescott					318						1	1
Prospect					2860						9	12
Prout avenue		1493			300						1	
Ray					484						1	2

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1897.—Continued.

STREETS.	Length and size of cement-lined pipe laid.					Length and size of cast-iron pipe laid.					Gates set.	Air valves.	Hydrants.				
	Length and size of cement-lined pipe laid.					Length and size of cast-iron pipe laid.											
	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.				10 in.	8 in.	6 in.	4 in.
Riley.....															1		
Rowell.....					303								1				
Russell.....										750					2		
Sagamore.....										2548					4		6
Salmon.....										275							1
Shasta.....										1705					4		4
Silver.....										3517							5
Somerville.....							1818			1001			4				6
South.....											476					1	
Spring.....										752							3
Spruce.....									640	5654				1	10		12
Stack.....										874							3
State.....					78					799							3
Stevens.....										325							
Summer.....										1702							4
Taylor.....										4755							4
Titus.....										58							1

Union.....	648				2335	5953	319					2	13	2	7
Valley.....		3641	1923	2096		217		1	2				7		11
Vine.....						39	340							2	1
Vinton.....						682							1		1
Walnut.....		694	511			2120	911					4	5	5	5
Washington.....							351						2		
Water.....						736							2		2
Webster.....						3338							6		8
Welch avenue.....						10	292							1	
Weston.....						337							1		
Wilson.....		10			5573				11				1		1
Willow.....							550							2	
Woodbine.....						404							1		1
Woodland avenue.....						1212									3
Young.....						1879							2		2
West Side River.															
A.....							836						1		3
Abbott.....							133								
Adams.....							410						1		2
Alsace.....							801						3		
Amoskeag road.....					2922	10						2	1	1	1
Amory (north).....					2942	27							2		3

Mill.....	586	2	3
Milford.....	2849	3	6
Monmouth.....	204		
Montgomery.....	1076	3	
Morgan.....	288	1	
Old Amherst road.....	829	2	1
Parker.....	51648		
Piscataquog river.....	477	2	1
Prince.....	598	1	2
Putnam.....	658	2	2
Quincy.....	260		1
Riddle.....	945	1	1
Rinmon.....	1975	4	
Rockland.....	2727	4	2
School.....	995	2	3
Second.....	3379	5	5
Schiller.....	566	1	1
Schuyler.....	215	1	1
Sheridan.....	758	1	1
Sherman.....	245	1	
Shirley Hill road.....	654	1	
Sullivan.....	361 399	2 1	3

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1897.—Continued.

STREETS.	Length and size of cement-lined pipe.					Length and size of cast-iron pipe laid.					Gates set.					Air valves.	Hydrants.											
	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	20 in.			14 in.	12 in.	10 in.	8 in.	6 in.	4 in.					
Third						20									422	357							2	1	1			
Thornton															762								1					2
Tilton																300									1			
Turner						68									1217	172							2	1				
Varnum															80										1			1
Walker															1299										2			3
Warner															955													1
Wayne															923													3
Wentworth															837													1
West															517	536									1			1
Wilkins															1850													4
Williams															250	208												
Winter						20									1331													3
Supply main															24								4					2
Total	20367	4102	7432	50	2472	17474	1549	24679	12054	22157	27164	61616	265772	18782			18	33	40	94	603	58					13	707

Length of force main from low service pumping station to reservoir, 7,130 feet.
 " " " " high " " " Oak Hill reservoir, 19,156 feet.
 " " " " " " " low service reservoir, 16,400 feet.

* Elm to Main, from Valley.

LOCATION OF HYDRANTS SET IN 1897.

Arlington, corner Morrison.
 Beech, corner Nutt.
 Beech, corner Mitchell.
 Beech, between Brook and Cemetery.
 Beech, corner Mystic.
 Beech, corner Norfolk.
 Cedar, corner Hall.
 Donahoe, corner Glenwood.
 Elm, corner Trenton.
 Elm, corner Rowell.
 Essex, corner Moulton.
 Glenwood, corner Lovering.
 Gore, corner Russell.
 Hayward, corner Porter.
 Merrimack, corner Milton.
 River road, corner Rowell.
 River road, opposite Lizzie Stark residence.
 Sheridan, corner Donahoe.
 Titus, corner Beech.
 Union, 600 feet north of Trenton street.

DISTRIBUTION PIPES AND GATES LAID TO DECEMBER 31, 1897.

SIZE.	Cement-lined pipe.	Cast-iron pipe.	Gates.
20-inch diameter.....	20,367 feet.	24,679 feet.	18
14-inch diameter.....	4,102 "	12,054 "	18
12-inch diameter.....	7,432 "	23,157 "	33
10-inch diameter.....	50 "	27,164 "	40
8-inch diameter.....	2,472 "	61,616 "	94
6-inch diameter.....	17,474 "	265,772 "	603
4-inch diameter.....	1,549 "	18,782 "	58
	53,446 feet.	433,224 feet.	864

Cement-lined pipe.....	10.12 miles
Cast-iron pipe	2.05 "
	92.17 miles
Total pipe	
707 hydrants.	
864 gates.	
13 air valves.	

Yours respectfully,

CHARLES K. WALKER,

Superintendent.

Uses for which Water is Supplied.

WATER FIXTURES, ETC.

11,267 Families, 148 boarding-houses, 14,876 faucets, 3,920 wash-bowls, 3,177 bath-tubs, 10,479 water-closets, 630 wash-tubs, 187 urinals, 3,549 sill-cocks, 2,719 horses, 132 cattle, 706 fire-hydrants, 30 watering-troughs, 8 drinking-fountains, 51 stand-pipes, 2 public urinals.

PUBLIC BUILDINGS.

1 Jail, 27 churches, 1 court house, 10 hose companies, 6 fire engines, 2 hook-and-ladder, 3 opera houses, 3 convents, 4 city hospitals, 4 cemeteries, 1 orphanage, 1 post-office, 1 city library, 6 banks, 9 hotels, 1 Masonic hall, 1, Odd Fellows' hall, 3 halls.

SHOPS.

57 Barber, 10 wheelwright, 20 blacksmith, 10 carpenter, 2 tinsmith, 1 copper, 3 currying, 19 plumber and gas and water pipe, 14 paint, 3 gunsmith.

STORES.

4 Auction, 35 drug, 22 jewelry, 1 fur, 3 house-furnishing goods, 20 fancy goods, 1 wholesale paper, 5 wholesale produce, 24 dry goods, 12 candy, 1 cloak, 16 millinery, 3

tea, 9 furniture, 1 wholesale grocer, 107 grocery, 6 meal, 3 hardware, 34 boot and shoe, 11 stove, 17 gents' furnishing goods, 7 book, 1 leather and shoe-finders, 3 music, 3 upholstery, 9 undertakers, 5 sewing-machine, 1 feather-cleaner, 1 rubber.

SALOONS.

18 Dining, 7 billiard, 55 liquor.

MISCELLANEOUS.

6 Clubrooms, 3 bleacheries, 37 laundries, 4 ice-houses, 11 photographers, 1 Mercy Home, 2 old ladies' homes, 1 soldiers' monument, 1 Turner hall, 4 fountains, 2 trust companies, 1 city farm, 3 depots, 9 greenhouses, 2 band rooms, 26 bakeries, 2 waste, 1 business college, 32 school-houses, 1 battery building, 1 kitchen, 3 ward-rooms, 1 gymnasium, 2 police stations.

MANUFACTURING ESTABLISHMENTS.

1 Hosiery mill, 1 silver-plating, 2 iron foundries, 2 dye-houses, 5 machine shops, 6 clothing manufactories, 9 harness shops, 1 cornice works, 1 brush shop, 9 carriage shops, 12 cigar factories, 1 brass and copper foundry, 1 locomotive works, 1 grist-mill, 1 silk-mill, 3 granite works, 1 electric light station, 4 sash and blind shops, 1 brewery, 6 shoe shops, 1 gas works, 4 slaughter-houses, 1 soap factory, 4 needle manufactories, 6 beer-bottling, 3 book-binderies, 1 paper-mill, 2 box-makers, 1 paper-box manufactory.

MARKETS.

6 Fish, 12 meat and fish, 3 meat (wholesale).

STABLES.

23 Livery, 1 electric railroad, 1,113 private.

OFFICES.

20 Dentists, 2 telephone, 2 telegraph, 2 express, 14 printing, 1 gas, 17 coal.

Materials on Hand.

PIPE.

8,100 feet 20-inch, 1,200 feet 14-inch, 2,800 feet 12-inch, 2,000 feet 10-inch, 6,800 feet 8-inch, 1,200 feet 6-inch, 300 feet 4-inch.

BRANCHES.

2 double 6 on 20, 8 double 6 on 12, 1 double 8 on 12, 4 double 6 on 14, 5 double 4 on 4, 7 double 8 on 8, 22 double 6 on 8, 4 double 8 on 14, 1 single 8 on 14, 2 single 10 on 20, 1 single 14 on 14, 5 single 6 on 14, 2 single 6 on 10, 3 single 6 on 12, 2 single 10 on 10, 3 single 4 on 6, 3 single 20-inch Y's, 7 single 6 on 6.

WHOLE SLEEVES.

2 20-inch, 2 14-inch, 5 12-inch, 9 10-inch, 16 8-inch, 18 6-inch, 20 4-inch.

REDUCERS.

7 8-inch to 6-inch, 1 10-inch to 8-inch, 2 14-inch to 12-inch, 2 10-inch to 6-inch, 3 10-inch to 14-inch, 3 10-inch to 12-inch, 1 20-inch to 14-inch, 2 12-inch to 6-inch.

GATES.

11 6-inch, 2 12-inch.

TURNS.

2 20-inch 1-16, 2 10-inch 1-4, 3 10-inch 1-8, 3 8-inch 1-4, 3 6-inch 1-8, 7 14-inch 1-8, 1 8-inch 1-8, 1 12-inch 1-8.

RISERS.

2 10-inch, 7 8-inch, 1 6-inch.

REPORT
OF THE
STREET AND PARK COMMISSIONERS.



FIFTH ANNUAL REPORT
OF THE
STREET AND PARK COMMISSIONERS.

To His Honor the Mayor and City Councils of the City of Manchester, N. H.:

GENTLEMEN,—We have the honor herewith to submit the fifth annual report of this department.

The following gives the receipts and expenditures of the office for the year 1897:

RECEIPTS.

Cash on hand.....	\$0.53
Received from Manchester Street Railway Company	3,899.39
Received from sundry sources.....	93.66
Total	\$3,993.58
Deposited with city treasurer.....	\$3,980.81
Cash paid out for express and postage.....	12.77
Total	\$3,993.58

EXPENDITURES.

Commissioners' salaries	\$1,800.00
Clerical services	1,011.28
Carriage allowance	450.00
*Office supplies	78.14
Blank books	14.25
Incidentals	34.31
Telephone	39.93
Total	\$3,427.91

* Includes bill for printing annual report, 1896.

Inventory of City Property.

Commissioners' office, including typewriter, furniture, office supplies, etc.....	\$279.05
Division No. 2, including horses, dump- carts, sprinklers, road-machine, crushers, tools, etc.....	23,522.29
City stables, storage shed, blacksmith shop	15,950.00
Lot of land on Franklin street.....	89,312.00
Valuation of pipe on hand.....	763.17
Division No. 4.....	3.25
Division No. 5.....	32.65
Division No. 6.....	21.00
Division No. 7.....	101.75
Division No. 8.....	27.10
Division No. 9.....	19.10
Divisions Nos. 10 and 11, including horses, road-machine, carts, sprinklers, etc.....	1,681.09
Stable and lot in West Manchester.....	1,200.00
Commons, including horse lawn-mower, swings, etc.....	354.78
Total	\$133,267.23

Orders Received from City Government, with Date
of Passage.

ORDERS TO BUILD SEWERS.

Silver street, Lincoln to Wilson.

Laurel street, east of Beacon westerly 150 feet.

Passed May, 1897.

Walnut street, Salmon southerly 175 feet.

Passed June, 1897.

Silver street, Wilson to Hall.

Passed July, 1897.

Whittemore Land, West Manchester.
Passed August, 1897.

Union street, Silver to Hayward.
Prescott street, Wilson east 208 feet.
Hayward street, Belmont to Cypress.
Taylor street, Valley northerly 400 feet.
Amory street, Alsace easterly 200 feet.
Grove south back street, east of Union to Beech.
Rimmon east back street, Kelley to Mason.
Everett street, Clark southerly 300 feet.
Passed September, 1897.

Maple street, Prescott to Hayward.
Beech street, Silver to Harvard.
Harvard street, Beech to Maple.
Somerville street, Wilson to Hall.
Russell street, Harrison northerly 350 feet.
Grove south back street, Wilson easterly 200 feet.
River road, north from Clarke to Park avenue.
Central street, Belmont to Milton.
Passed November, 1897.

MISCELLANEOUS ORDERS.

Order to macadamize Pearl street, from Pine to Union.
Passed August, 1897.

Order to build Lake avenue to width and grade between
Cass and Beacon streets.
Passed September, 1897.

Order to construct bicycle path on Hall road, com-
mencing at corner of Massabesic street and Candia road.
Passed October, 1897.

APPROPRIATIONS.

LIST OF APPROPRIATIONS.	Amount appropriated.	Amount expended.
Street and park commission	\$3,600.00	\$3,427.91
Repairs of highways.....	20,000.00	21,203.80
* New highways.....	6,382.48	8,381.97
Snow and ice	4,000.00	4,983.61
Watering streets	5,000.00	3,762.64
Paving streets.....	5,000.00	7,031.79
Macadamizing streets	15,000.00	14,472.74
Grade for concrete	5,000.00	5,450.96
Scavenger teams	16,000.00	15,260.85
City teams	6,500.00	6,723.94
Bridges.....	4,000.00	3,407.52
Street sweeping	3,000.00	2,318.22
New sewers.....	40,000.00	35,698.29
Repairs of sewers.....	5,000.00	5,830.46
† River road sewer.....	5,697.57	5,258.06
Repairing Amoskeag bridge.....	4,700.00	3,541.90
Paving Elm and Granite streets.....	10,000.00	11,653.41
Bicycle path.....	600.00	564.36
Commons	4,500.00	4,526.80
‡ Stark and Derryfield parks ..	5,000.14	5,003.84
Totals	\$168,980.19	\$168,503.07

Unexpended balance, \$477.12.

CONTRACTS.

Akron sewers pipe, Pike & Heald Co.
 Hoffman cement, J. A. & A. W. Walker.
 Bridge plank, A. C. Wallace.
 Sewer plank, Head & Dowst Co.
 Sewer brick, William F. Head & Son.
 Sewer castings, Manchester Locomotive Works.
 Edgestones, cesspool stones, Warren Harvey.
 Paving blocks, Charles A. Bailey.
 Laying paving on Elm street, Soule, Dillingham & Co.
 Concreting Granite street, Charles H. Robie Co.
 Carload oats, Partridge Bros:
 Carload oats, Gage & McDougall.
 Carload oats, Gage & McDougall.
 Carload oats, Freeman & Merrill.
 Building Second street to grade, W. H. Coburn.
 Grading on Candia road, Charles Francis.
 Portable stone crusher, Climax Road Machine Co.

* Includes \$1,382.48,
 † Includes \$5,697.57, } balance from appropriation for 1896.
 ‡ Includes \$0.14, }

PERMITS TO ENCUMBER.

Given to	Location.	Date, 1897.
Melvin Hall	Lake Shore road	Jan. 11
James Benson	Derry turnpike	Feb. 1
I. F. Sturtevant	Elm street (New York store)	Mar. 11
Moore & Preston	Elm street	April 5
C. P. Barney	Wilson and Manchester	" 17
C. S. McKeon	495 Granite street	May 1
J. A. Wilson	East High and Buzzell	6
Mrs. M. Hackett	225 Lake avenue	10
Frank Bascom	East High and Ashland	14
David H. Nutt	187 Merrimack street	24
Melvin Hall	Lake Shore road	25
G. A. Plamondon	221 Spruce south back	28
Arthur Tremblay	329 Rimmon street	June 8
J. H. Mendell & Co	239 Laurel street	8
Manchester Bank	Elm west back street	9
Fred Cotton	Water street	14
Head & Dowst Co.	Elm street (N. H. Ins. Co.)	15
N. W. Page	Ashland street	24
Melvin Hall	Fletcher Island road	24
Fred Cotton	Spring street	25
W. M. Butterfield	158 Sagamore street	July 15
J. H. Mendell & Co.	83 Sagamore street	15
J. F. Mahoney	352 Lake avenue	17
Pike & Heald	Towne block, Elm street	19
Amos Lutuch	Lake Shore road	19
John Sweeney	Clark road	27
R. P. Stevens & Co.	Elm and Salmon	27
Thomas Shea	Laurel north back	29
Joseph Lavine	501-517 Main street	Aug. 7
Gordon Woodbury	North Main near Granite	11
Shirley & Smith	Lowell street	18
A. S. Walker	Pine and Manchester south back	28
N. W. Page	Milton and Merrimack	Sept. 10
Bixby & Wilson	Mast street, near Main	24
Boston & Maine R. R.	West Central street	27
E. E. Smith	191 Merrimack street	Oct. 1
Couch & McDonald	Spruce and Belmont	19
Mark Harvey	231 Laurel south back	27
Hadley Higgins	Sagamore near Maple	Nov. 22
George L. Reed	20 Malvern street	Dec. 2
Fred H. Balch	Wilson and Somerville	8

NOTE.—A bond of \$500 being filed in each case when permit is granted.

Report of Division No. 2.

GEORGE W. CHENEY, AGENT.

SNOW AND ICE ACCOUNT.

Appropriation	\$4,000.00
Transferred from repairs of highways	494.28
Transferred from reserved fund	489.33
Total	<u>\$4,983.61</u>

EXPENDITURES.

Labor, January	\$595.09
February	3,076.10
March	710.57
November	79.25
December	410.08
Paid, snowplows	75.00
sand and supplies.....	37.52
Total	<u>\$4,983.61</u>

STREETS AND ROADS.

The work done upon our streets and roads will be found in detail in the tables furnished.

The road-machine has been used wherever such use would result in a saving to the city, and 10.28 miles of roadway have been turnpiked by it in division No. 2 alone. In the same division three miles of streets have been graveled, while in No. 10 4,460 feet have been treated in a like manner. About two miles of new streets have been built this year. The same law which relieved the city from much litigation and expense for injuries resulting from so-called defects in the highway provides that bridges, culverts, and steep embankments shall be protected by a guard rail. In compliance with this provision of the statute, 5,738 feet of such fencing was built during the season and it is believed that all such dangerous places are now protected. The dearth of good road material continues to increase the cost of repairs. This is as true of the suburban districts as of the city proper. The soil in the suburban districts contains many stones and ledges, and in the construction of the roads it has been customary to remove those which can be conveniently disposed of in that manner and cover the rest. It would be impracticable to do anything else, as the cost of remov-

ing them all would be so great as to be unreasonable. In time the covering wears away, and the boulders and ledges are a source of discomfort to people riding over them. Recovering seems to be the only remedy. The surplus soil beside the roadway has been used for this purpose as well as for general repairs. It was not good material, but the best available. On many of the roads this supply has been exhausted and gravel has to be hauled long distances to be used in its stead. Any person who has had experience in hiring teams will realize that under the above conditions repairs will continue to cost much money. The board hopes it has found a remedy in the portable stone crusher. As fast as possible it will be moved about in the various districts and the stone which are now an inconvenience will be crushed and used in place of gravel with, we believe, the best results.

STREETS TURNPIKED WITH ROAD-MACHINE.

Adams	1,400	feet
Appleton	1,500	"
Amherst	1,800	"
Ashland	1,400	"
Ash	400	"
Bay	800	"
Blodget	700	"
Brook	1,500	"
Bridge	2,500	"
Belmont	2,000	"
Beacon	1,050	"
Beech	500	"
Chestnut	1,200	"
Clark	1,500	"
Concord	400	"
Dutton	300	"
East High	1,800	"
Elm	1,000	"

Hanover	2,200	feet
Hall	1,700	"
Highland	2,000	"
Jane	400	"
Liberty	600	"
Linden	200	"
Lowell	500	"
Lincoln	350	"
Munroe	150	"
Myrtle	400	"
Maple	2,500	"
Merrimack	1,000	"
North	600	"
Pine	2,300	"
Pennacook	700	"
Pearl	500	"
River road north	4,850	"
Ray	1,200	"
Reform School road	300	"
Salmon	1,600	"
Sagamere	700	"
Smith road	400	"
South	400	"
Trenton	1,000	"
Union	3,000	"
Walnut	1,000	"
Webster	2,000	"
	<hr/>	
Total	54,300	feet

Total turnpiked, 54,300 feet, or 10.28 miles.

Labor on this work charged to repairs of highways.

STREETS GRAVELED.

Amherst	300	feet
Ashland	200	"
Arlington	250	"

Bridge	100	feet
Belmont	150	"
Beacon	150	"
Chestnut	1,900	"
Concord	500	"
Carpenter	1,400	"
Dutton	300	"
Derry	300	"
East High	150	"
Elm (north)	800	"
Hall	250	"
Hooksett road	1,000	"
Kennard road	500	"
Lowell	200	"
Laurel	500	"
Liberty	500	"
Orange	250	"
Pearl	500	"
Pine	500	"
River road (north)	600	"
Sagamore	250	"
Union	3,000	"
Warren	500	"
Webster	300	"
Total	15,350	feet

Total streets graveled, 15,350 feet, or 2.90 miles.

Labor charged to repairs of highways.

FENCING.

Beech	340	feet
Calef road, near Baker	200	"
Chestnut, over Ray brook	172	"
Deer Neck bridge	1,000	"
Elm north of Pennacook	156	"

Lake avenue, near Hall.....	80 feet
Valley, between Beech and Union.....	112 "

Total 2,058 feet
 Labor charged to repairs of highways.

NEW STREETS GRADED.

LOCATION.	Length in feet.	Cut or fill.	Labor.
Ash, Sagamore north.....	100	Cut.	\$386.90
Adams.....	200	"	50.00
Beacon, Manchester to Lake avenue.....	1,050	Both.	342.80
Clark, Union west.....	220	Cut.	100.00
Calef road, near cemetery.....	750	Both.	280.00
Chestnut, Clark north.....	1,050	"	349.00
Clay, Beech west.....	150	Cut.	150.00
*Elm, north of Carpenter.....	500	"	2,100.00
Maple, Silver south.....	300	"	98.00
Myrtle, Belmont west.....	350	Both.	39.90
Ray.....	200	"	50.00
Summer, Beech east.....	100	"	16.00
Somerville.....	150	Fill.	84.00
Trenton.....	300	Cut.	100.00
Union.....	800	"	571.22
Waldo, Everett east.....	200	Fill.	92.50
Total.....	6,420	.....	\$4,810.32
Pond road culvert lengthened out.....	30		77.66
			\$4,887.98

SUMMARY.

Labor, division No. 2.....	\$4,887.98
division No. 7.....	1,035.45
division No. 8.....	330.97
division No. 10.....	1,635.12
on Second street, built by contract..	300.00
Hardware.....	152.85
Stone for culvert.....	21.60
General incidentals.....	18.00
Total.....	\$8,381.97

* This street was built to a width of 100 feet, and was cut through solid ledge to a depth of three feet most of the way.

GRADE FOR CONCRETE.

LOCATION.	Length in feet.	Width in feet.	Cut or fill.	Labor.
Adams, between Clark and Appleton..	200	8	Fill.	\$22.00
Adams	200	8	Cut.	21.00
Ash and Sagamore	100	8	"	12.00
Beech, between Myrtle and Prospect...	200	8	"	16.50
Belmont and Concord	250	8	Fill.	17.00
Beech and Cedar	208	8	Cut.	16.00
Bridge and Birch	60	8	Fill.	8.00
Brook and Maple	100	8	"	14.50
Beech and Silver	300	8	"	18.50
Belmont	100	8	"	15.00
Chestnut and Clark	300	8	"	12.00
Clark, Union west	600	8	Cut.	54.00
Chestnut, Clark north	200	8	"	15.00
Clark and Adams	625	8	"	55.00
Carpenter and Adams	225	8	Fill.	15.00
Elm, north of Carpenter	1,200	8	Both.	110.00
Gore, west of Oak	50	8	Fill.	11.00
Hanover, east of Beacon	50	8	"	8.00
Hall and Lowell	180	8	Cut.	14.00
Hall	100	8	Fill.	10.00
Lake Avenue, east of Canton	100	8	Cut.	18.00
Lowell, corner Hall	200	8	"	22.00
Myrtle and Hall	150	8	Fill.	12.00
North and Union	150	8	"	18.12
North and Liberty	150	8	Cut.	14.50
Pearl, between Linden and Hall	50	8	Fill.	6.50
Russell, north of Harrison	100	8	Cut.	26.00
Somerville, from Beech	300	8	Fill.	24.50
Trenton and Elm	150	8	Cut.	13.00
Union, south of Clark	75	8	Fill.	21.50
Walnut, between North and Webster...	100	8	"	8.00
Walnut, between North and Salmon...	50	8	"	6.50
Total	6,823	....	....	\$655.12

EDGESTONES SET.

LOCATION.	Number of feet.	Labor.
Auburn, between Beech and Union.....	50	\$3.25
Arlington and Warren	18	3.00
Auburn and Pine.....	61	7.00
Auburn near Pine	25	2.00
Auburn east of Pine	25	2.50
Ashland and Arlington.....	17	3.50
Adams and Carpenter.....	18	3.50
Amherst and Chestnut.....	17	4.50
Beacon and Merrimack.....	20	3.50
Beech and Grove.....	28	4.12
Beech and Cedar.....	226	20.00
Bridge and Birch	19	3.50
Bridge and Belmont.....	17	2.00
Bell and Pine.....	16	3.50
Bridge and Hall.....	25	6.75
Cedar, between Beech and Maple	126	7.00
Clark and Chestnut.....	19	3.25
Concord and Belmont	17	3.00
Cedar and Pine	44	3.50
Clark and Union.....	21	5.00
Clark and Ray.....	19	3.50
Central, west of Franklin.....	55	6.50
Clark and Adams.....	21	3.50
Carpenter	445	49.85
Dean avenue.....	9	2.00
Elm east back, between Concord and Lowell	56	5.50
Elm, front of New York store.....	57	9.00
Elm and Hanover.....	35	5.00
East High and Ashland.....	16	2.00
Elm and Market.....	16	2.00
Elm and Trenton	28	4.00
East Spruce, between Beech and Maple.....	53	6.00
Elm and Merrimack	8	1.50
Green and Union.....	17	2.75
Grove and Pine	21	3.50
Grove and Beech.....	19	3.50
Hanover and Beech.....	8	1.00
High school lot.....	1,018	93.00
Hall and Orange	20	2.00
Jane and East High.....	67	15.50
Liberty and North.....	19	2.75
Laurel and Beacon	17	2.50
Lowell and Hall.....	18	2.00
Lake avenue, near Canton.....	100	8.00
Lake avenue and Union.....	75	5.50
Lake avenue, between Union and Beech.....	50	5.00
Lake avenue and Belmont.....	18	3.50
Lowell, between Elm and Chestnut.....	114	7.50
Laurel, between Pine and Union	25	5.00
Merrimack and Pine.....	30	3.50
Manchester and Wilson	18	3.00
Maple and Brook	20	2.00
Myrtle and Hall.....	38	5.00
Market and Elm.....	8	5.00
Maple and Bridge.....	8	1.75
Maple and Sagamore.....	153	12.00
North, between Union and Liberty	12	1.00
Old Bridge and Hall.....	21	3.50
Pine and Harrison.....	118	10.00
Prospect and Elm	128	13.50
<i>Amount carried forward</i>	3,787	\$417.97

EDGESTONES SET.—Continued.

LOCATION.	Number of feet.	Labor.
<i>Amount brought forward</i>	3,787	\$417.97
Pine and Grove	8	1.75
Pine, east back, and Grove	18	2.00
Ray and Carpenter	231	13.00
Summer, near Beech	50	4.00
Sagamore and Maple	21	3.00
Spruce, near Union	25	2.25
Salmon and Beech	19	3.50
Salmon and Elm	24	4.00
Sagamore and Ash	72	9.25
Union and North	23	3.50
Totals	4,278	\$464.22

EDGESTONES RESET.

Auburn, west of Pine	25 feet
Chestnut and Amherst	25 "
Elm and Market	25 "
Elm and Merrimack	100 "
Hanover	76 "
	251 feet

Labor, \$17.

PAVING.

This board has realized as fully as others that the past condition of Elm street has not been creditable to a city of this size. The members did not feel, however, that with the means at their command, and when there were such pressing needs in so many other directions, that they were justified in diverting such an amount of money from the general appropriation as would be necessary to make a decent commencement towards providing proper pavements. It was, therefore, with much pleasure that the board noted the appropriation set aside for the special purpose of repaving a portion of Elm street. After a thorough investigation, the commission settled upon the kind of paving which was laid, and it is believed

to be such as will last for a long period of time without any expense for repairs.

The old square blocks were removed and used in the paving of Elm west back and Manchester south back streets. This, by the way, was a much-needed improvement, as both streets are much used and both have been so muddy at times as to be offensive. After the old paving was removed, the soil was taken out to a depth of about fourteen inches. A bed of concrete, consisting of cement, sand, and crushed stone, was then laid five inches deep. This when well set or hardened was covered with a cushion of sand from one to two inches deep, and on this cushion the small granite blocks were put into position by experienced pavers. The crevices between the blocks were filled with a grout consisting of equal parts of Portland cement and sand. The cement was mixed with water and made moist enough so that it would flow readily into the cracks. It was brushed over the surface with a broom, care being taken to fill every crevice full. This left a roadbed which was smooth and solid, and which we have reason to believe will stand the test of time and use. The work was done under the immediate direction of Soule, Dillingham & Co., of Boston, Mass., and is a credit to them and to the city. That firm furnished the pavers, or the men who placed the blocks in position, but outside of this the labor was local. The street was thus treated from the north side of Merrimack to the south side of Stark street, which covers a surface of 3,704.78 square yards. The total cost was \$9,822.96, making the cost per yard \$2.65. Of the entire amount the Manchester Street Railway Co. paid as its share, \$1,822.96.

The citizens on the west side of the river expressed a wish for a concrete rather than a granite block paving on Granite street. The commission is always ready to grant the reasonable request of any citizen when it is in

its power so to do, and after an investigation decided to yield to their wishes and put in a concrete paving. The street was prepared in practically the same way as was Elm street, but instead of the granite blocks a four-coat concrete was laid, under contract with the C. H. Robie Co. of this city. The work is guaranteed by them for five years. The total cost was \$6,203.45, there being 5,304.64 square yards, and the cost per square yard was \$1 for the space between the car rails, and \$1.25 for the space outside the rails, the Manchester Street Railway Co. paying as its share, \$2,076.42.

In heavy showers much good road material on the hills has been washed into the cesspools, and is a loss not only of material which has to be replaced at a considerable cost, but the expense of cleaning the cesspools is no small matter. To remedy this difficulty the gutters in these locations are paved. In West Manchester, 3,797 yards of such paving have been laid, in doing which 265 loads of paving stones were used, all of which came from the city gravel bank in that district. Two hundred and sixty-five yards were relaid in that section. On this side of the river 6,415 square yards were put down, using 520 loads of stone, and 314 yards were relaid. Edgestones were set where furnished by the abutters. In division No. 2, 4,278 feet in length of such stones were set or reset, and in division No. 10, 251 feet were also cared for.

It is to be earnestly hoped that the policy begun last year, of paving a portion of Elm street, will be continued, and the commission expects the city government will this year, as last, set apart a certain sum for that purpose.

COBBLE GUTTER PAVING.

LOCATION.	Square yards.	Number of loads of stone.	Labor.
Ashland, Lowell to east High	179	20	\$54.50
Amherst, Hall to Belmont.....	13	1	2.00
Beacon, Lake avenue to Manchester	777	82	261.18
Belmont, Lake avenue to Central	85	11	22.00
Blodget, Chestnut to Elm	19	2	7.00
Calef road, Baker south	844	.....	256.50
Grove, Pine east	748	77	153.16
Green, Pine east	330	34	62.46
Laurel, Beacon to Milton.....	136	16	40.80
Lake avenue, between Beacon and Cass ...	136	16	50.78
Lake avenue, between Union and Beech ...	693	21	54.25
Laurel, between Lincoln and Maple	208	26	80.60
Liberty, north to Webster.....	467	50	62.00
Lake avenue, Cass west	328	14	20.00
Milton, between Lake avenue and Central..	68	8	20.84
Manchester, between Pine and Union.....	18	1	2.00
Pine, Valley to Cedar	1,127	112	235.00
Prospect, between Russell and Linden	63	8	17.00
Ray, Carpenter north	40	5	21.50
Salmon, Beech to Walnut.....	134	16	90.00
Totals	6,413	520	\$1,513.57

In a good many cases the stone that was used was taken from Elm street.

COBBLE GUTTER PAVING RELAID.

LOCATION.	Square yards.	Labor.
Elm, near foundry	68	\$8.75
Lowell, west Chestnut.....	14	3.62
Market, near Elm.....	50	9.50
Maple, between Harrison and Brook.....	87	19.50
Prospect, near Russell	76	27.50
Wilson	19	12.50
Total	314	\$81.37

MACADAMIZING.

The building of roadway by this means has been pushed during the season. The portable crusher which was purchased early in the season has been used with extremely satisfactory results. It was first stationed at the corner

of Elm and Carpenter streets, and the immense amount of rock which had accumulated in the building of sewers in that section was crushed and used upon the streets. Afterwards the crusher was removed to the Amoskeag Company's ledge in McGregorville. The total amount spent for the purpose during the year was \$14,472.74, which included the price of the new crusher, \$2,412.51, and the expense incident to the thorough repair of the road roller. 34,044 square yards, covering 9,275 feet in length of streets, were newly macadamized. Among the streets so treated were Pine, from Valley to Cedar; McGregor, from Putnam to Amory; Chestnut, from Lowell to Brook, and Pine, from Merrimack to Prospect. The first two streets mentioned were very badly in need of repair, and, being much used, the work was greatly appreciated. The ability to move the crusher about has materially diminished the cost of macadamizing. The location of the crusher in McGregorville enabled the department to deliver twenty loads of crushed stone on McGregor street with the same amount of team labor that would have been required for five loads had it been taken from the city ledge, where the old permanent crusher is located.

The cost per square yard for macadamizing this year has been only \$0.425, as compared with \$0.528, which was the cost during the year 1896. It should also be noted that in this cost per square yard is reckoned the price of the new crusher and the repairs to the road roller.

The following table shows how the cost for macadamizing has been divided:

MACADAMIZING STREETS.

LOCATION.	Length in feet.	Square yards.	Crushed stone.	Other stone.	Labor.
Central, Union to Beech	500	1,889	230	.....	\$169.25
Chestnut, Lowell to Brook.....	2,300	8,689	505	.....	378.85
McGregor (W.Manchester) (new)	1,075	3,822	1,134	.....	3,341.07
Pine, Valley to Cedar (new)....	1,700	5,666	890	1,953	2,264.00
Pine, Merrimack to Prospect...	3,100	11,711	730	.....	547.50
Union, Lowell to Bridge.....	600	2,267	230	.....	172.50
General repairs.....					1,738.54
Total.....	9,275	34,044	3,719	1,953	\$8,611.61

SUMMARY.

Labor, division No. 2.....	\$5,270.54
Labor, division No. 10.....	3,341.07
Portable crusher, complete.....	2,412.51
Repairs on old crusher, steam drills, road- roller, etc.....	1,035.83
Stone chips	732.80
Forcite powder for blasting.....	724.26
Incidentals	451.06
Coal, coke, wood, oil.....	353.48
Freight	116.19
Water-works	30.00
Total	\$14,472.74

CONCRETE WORK.—MEAD, MASON & CO.

NEW CROSSINGS.

LOCATION.	Square yards.	Price per yard.	Total cost.
A and South Main.....	37.15	\$0.75	\$27.86
Appleton and Elm.....	64.67	"	48.50
Adams and Clark.....	31.04	"	23.28
Bridge and Union east back.....	23.77	"	17.83
Coolidge avenue and Cartier.....	38.68	"	29.01
Coolidge avenue and Bremer.....	28.90	"	21.69
Cartier and Amory.....	30.22	"	22.66
Concord and Beech east back.....	21.67	"	16.25
Chestnut and Central south back.....	17.60	"	13.20
Dubuque and Amory.....	20.67	"	15.50
Grove and Pine east back.....	16.62	"	12.46
Massabesic and Summer.....	30.58	"	22.93
Myrtle and Hall.....	30.22	"	22.66
McGregor and Amory.....	14.84	"	11.13
McGregor and Wayne.....	17.60	"	13.20
McGregor at mill gate.....	18.33	"	13.75
Munroe and Elm.....	30.67	"	23.00
Pine and Cedar.....	28.62	"	21.46
Pine and Auburn.....	30.04	"	22.53
Pine and Lowell.....	2.67	"	2.00
Prospect.....	32.00	"	24.00
Salmon and Liberty.....	30.56	"	22.91
Total.....	597.12	.....	\$447.81

SIDEWALKS REPAIRED.

LOCATION.	Square yards.	Price per yard.	Total cost.
Bridge and Union east back.....	1.34	\$0.45	\$0.60
Coolidge avenue and Cartier.....	18.60	"	8.37
Coolidge avenue and Bremer.....	6.39	"	2.88
Canton.....	71.22	"	32.05
Canton.....	6.54	.50	3.27
Dean avenue and Elm.....	3.25	.45	1.46
Merrimack east of Pine.....	2.33	"	1.05
Prospect.....	39.67	.25	9.92
Walnut east back and Brook.....	16.67	.37	6.16
Total.....	166.01	.....	\$65.76

SUMMARY.

Concrete work by Mead, Mason Co., for Street and Park Commission Department.

	Square yards.	Total cost.
New crossings.....	597.12	\$447.81
Sidewalks repaired.....	166.01	65.76
Total.....	763.13	\$513.57

CONCRETE WORK.—CHARLES H. ROBIE CO.

NEW CROSSINGS.

LOCATION.	Square yards.	Price per yd.	Total cost.
Adams and North Main.....	8.00	\$0.75	\$6.00
Auburn.....	13.15	.75	9.86
Beaumont and Sullivan.....	29.78	.75	22.33
Carpenter and Chestnut.....	30.27	.75	22.70
Colby and West Hancock.....	22.84	.75	17.13
Carpenter and Adams.....	30.36	.75	22.77
Cedar and Hall.....	30.22	.75	22.67
Carpenter and Ray.....	30.00	.75	22.50
Concord and Belmont.....	28.44	.75	21.33
Dartmouth and Dickey.....	24.00	.75	18.00
Green and Union.....	30.22	.75	22.67
Gore and Beech.....	30.67	.75	23.00
Granite.....	133.30	1.25	166.62
Jewett and Valley.....	29.78	.75	22.33
Jewett and Valley.....	30.04	.75	22.53
Liberty and North.....	55.38	.75	41.53
Lake avenue and Milton.....	5.44	.75	4.08
Lake avenue and Beacon.....	5.78	.75	4.33
Market and Elm.....	14.82	.75	11.12
McDuffie and Boynton.....	25.78	.75	19.34
North and Bay.....	29.50	.75	22.12
Pine and North.....	27.56	.75	20.67
Riddle and Milford.....	31.55	.75	23.66
Sagamore and Beech.....	25.33	.75	19.00
South Main and Mast.....	18.22	.75	13.66
Total.....	740.43	.....	\$621.95

REPAIRED CROSSINGS.

LOCATION.	Square yards.	Price per yd.	Total cost.
Belmont and Massabesic.....	41.36	\$0.50	\$20.68
Granite at Hadley's.....	5.83	.45	2.62
Granite at Wallace's.....	11.00	.65	7.15
Market and Elm.....	9.39	.50	4.69
Spruce and Massabesic.....	92.44	.50	46.22
Second and Granite.....	3.38	.45	1.52
West and Granite.....	3.55	.50	1.78
Total.....	166.95	.....	\$84.66

SIDEWALKS REPAIRED.

LOCATION.	Square yards.	Price per yd.	Total cost.
Beacon.....	1.11	\$0.45	\$0.50
Colby and West Hancock.....	8.23	.45	3.70
No. 218 Cartier.....	55.44	.35	19.39
Granite at Wallace's.....	34.13	.45	15.36
McGregor bridge.....	36.36	.50	18.18
Mast and South Main.....	8.94	.45	4.02
North and Bay.....	3.51	.45	1.58
North Main at engine house.....	11.28	.50	5.64
Park common.....	.....	.....	33.50
South Main and Mast.....	57.68	.45	25.96
West Hancock and Second.....	16.22	.50	8.11
Total.....	232.90	.....	\$135.94

ROADWAYS REPAIRED.

LOCATION.	Square yards.	Price per yd.	Total cost.
Amherst.....	16.05	\$0.50	\$8.02
Amoskeag bridge road.....	198.94	.50	99.47
Chestnut.....	12.28	.50	6.14
Chestnut.....	190.80	.50	95.40
Hanover.....	51.39	.50	25.69
Merrimack.....	461.74	.50	230.87
Maple.....	95.00	.50	47.50
Union.....	36.22	.50	18.11
Total.....	1,062.42	.....	\$531.20

SUMMARY.

Concrete work by Chas. H. Robie Co., Street and Park Commission Department.

	Square yards.	Total cost.
New crossings.....	740.43	\$621.95
Crossings repaired.....	166.95	84.66
Sidewalks repaired.....	232.90	135.94
Roadways repaired.....	1,062.42	531.20
Total	2,202.70	\$1,373.75

SCAVENGER SERVICE.

The attention of the city government is most earnestly directed to the position in which this board is placed in relation to the disposal of the city's waste. During the latter part of the year the board of health commenced legal proceedings, intended to restrain the street and park commissioners from the further use of the dumps. This commission has no voice in making the appropriations, and is given a certain sum of money for a certain purpose and is expected to exercise such judgment in its expenditure as will accomplish the purpose intended. At the time the proceedings in question were commenced it was apparent to us all that any radical change must result in an expenditure far beyond the means at command. The method in vogue might not have been a good one; that, however, is a matter of opinion, but it certainly possessed the advantage of cheapness, which in these times of high taxes is a decided merit. Ever since the city was built it has been customary to use this waste matter in filling new streets which were being built through the ravines in the southern part of the city. As houses were erected in the immediate neighborhood this commission took extra precautions to secure the inhabitants from harm. Men were stationed at the dumps for the express purpose of covering the small amount of swill or other offensive

matter which might appear with the ashes. Every day or so clean sand or soil to a depth of three feet or more was dumped on top of the whole. This was done under the supervision of the superintendent of streets, and from our own observation we are satisfied that it was well done. That some other people used these dumps without our knowledge or consent is undoubtedly true. Teams have been seen dumping swill and other refuse material during the evening hours. Whenever such nuisances were discovered they were promptly abated by men connected with this department. It would seem that the board of health had a duty in the matter in discovering and punishing such offenders. This department does not want to continue the present method if some better means can be found to care for the refuse. Above all things it does not want to quarrel or be in litigation with any other department. No system has, that we know of, yet been invented which destroys this rubbish in an effective manner at a reasonable expense. The location of a crematory at a point near enough to a city to be practical has always raised a storm of indignation from the people who live in its vicinity. The cost of carting the refuse out into the country is very great. The building of new streets where filling is necessary will be increased. In the face of these difficulties, when we are instructed to exercise all possible economy, this board does not consider its duty to lie in recommending the expenditure of money to make experiments. It has been suggested that the board of health wishes to control the scavenger service. It is not a pleasant duty, and should the city government conclude it can be served in a better manner, with less expense, by that board, this commission will most cheerfully resign that part of its duties. In the meantime, this department will endeavor to keep thoroughly posted on the progress made in the disposal of city waste, and as soon as it becomes convinced that such a method has been devised as will

do the work of destruction thoroughly and without offense to the people living in the vicinity of its location, at a price which our citizens would consider reasonable, we will make every effort to secure it for the city's use.

The collection of this refuse has, we believe, been well done. Our streets, both back and front, have never presented a neater appearance than during the year past. Complaints against the men engaged in doing the work have been few indeed.

If the board of health insists on pressing the case to a finish, and the injunction asked for is granted, a very large sum will be necessary to do the work in a manner satisfactory to it, and we ask the city government to note that fact in connection with the appropriation for 1898.

The following summary shows how the cost for scavenger service has been divided:

SUMMARY.

Labor, men and teams.....	\$11,556.61
City farm	2,708.30
Repairs on teams and harnesses.....	158.44
Hay, grain, feed.....	809.65
Incidentals	27.85
Total	<u>\$15,260.85</u>

NEW CESSPOOLS.

LOCATION.	No.	Cost of material.	Labor.
Auburn, between Union and Beech.....	1	\$11.58	\$8.00
Ashland and Lowell.....	3	48.64	28 00
Ash, between Harrison and Brook.....	1	13.64	6.00
Ashland and Concord.....	2	30.95	19.00
Alfred.....	3	35.89	25.00
Beech and Prospect.....	1	14.96	10.00
Beech and Cedar north back.....	1	14.01	10.00
Beech and Orange.....	2	27.93	15.00
Brook and Maple.....	1	25.65	20.50
Belmont and Bridge.....	2	26.16	15.00
Beech and Grove.....	2	44.96	26.00
Beech and Auburn.....	4	80.06	40.00
Concord and Beech.....	1	11.17	5.00
Cedar between Lincoln and Wilson.....	1	12.42	10.00
Carpenter.....	6	55.68	60.00
Chestnut and Pennacook.....	3	45.14	30 60
Calef road.....	2	16.39	7.00
Clark and Chestnut.....	2	34.23	20.00
Clark and Adams.....	2	24.93	28.50
Chestnut and Carpenter.....	2	28.97	22.00
Chestnut east back.....	1	9.98	8.50
Everett.....	4	52.62	32.00
Elm and Webster.....	1	12.16	17.00
Elm, near Amherst.....	1	11.17	10.00
Green, between Pine and Union.....	6	107.85	61.75
Granite.....	2	23.14	16.75
Harrison east of Hall.....	2	19.96	22.00
Hanover, near Alfred.....	2	22.74	13.50
Hanover south back and Beech.....	1	14.01	11.50
Hubbard and Hanover.....	2	25.69	20.00
Lincoln and Cedar north back.....	1	14.01	9.00
Laurel and Beacon.....	2	30.88	14.75
Laurel and Wilson.....	3	47.70	16.50
Lowell south back, west Chestnut.....	1	14.95	12.75
Lake avenue and Beacon.....	2	37.48	50.00
Laurel near Union.....	1	14.16	8.50
Liberty east back.....	1	10.77	8.00
Maple and Cedar north back.....	1	12.42	9.00
Merrimack and Beacon.....	3	40.29	12.00
Milton and Lake avenue.....	1	15.35	13.00
Manchester and Elm.....	1	10.57	6.50
Manchester south back on Beech.....	1	14.01	12.50
Merrimack, east Maple.....	1	11.17	10.00
Nutt road near cemetery.....	1	14.38	9.00
Orange and Beech.....	2	23.53	25.00
Oak and Orange.....	1	13.35	8.00
Pine, between Valley and Auburn.....	6	91.27	44.25
Pine and Green.....	1	15.21	6.50
Salmon and Pine.....	1	20.78	34.00
Union and Grove.....	4	79.32	48.75
Union and Bell.....	1	27.78	17.50
Union, north Silver.....	4	49.03	32.00
West Central back street.....	1	11.36	8.00
Walnut and Salmon.....	2	30.16	19.00
Total.....	107	\$1,552.61	\$1,053.10

REPAIRED CESSPOOLS.

LOCATION.	No.	Cost of material.	Labor.
Auburn, near Pine.....	1	\$2.54	\$2.50
Amherst, between Hanover and Pine.....	1	4.65	6.00
Beech, between Orange and Myrtle.....	1	6.62	3.50
Concord and Dutton.....	1	9.05	23.78
Elm and Granite.....	1	8 01	7.60
Elm and Sagamore.....	1	6.61	6.50
Elm near Dean.....	1	8.88	5.00
Elm and Amherst.....	1	11.76	10.00
Elm and Sagamore.....	1	6.73	15.00
Lake avenue west Wilson.....	1	10.24	26.00
Lake avenue west Maple.....	1	9.05	21.00
Lake avenue east Pine.....	1	.64	12.00
Lake avenue and Laurel.....	1	2.39	10.62
Laurel, between Union and Beech.....	5	19.55	30.00
Market and Elm.....	1	12.56	8.00
Orange and Chestnut.....	1	7.22	6.00
Pine and Summer.....	1	1.94	3.00
Pine and Green.....	2	2.89	2.00
Pearl near Chestnut.....	1	5.06	1.00
Salmon and Elm.....	1	5.98	2.50
Union, between Harrison and Brook.....	1	8.32	7.00
Union east back.....	1	7.35	2.50
Willow, between Valley and Merrill.....	1	3.29	15.00
Total.....	28	\$161.33	\$226.50

SEWERS.

The city owns four steam drills and a Carson trench machine, and the work done in putting in sewers during the season has shown conclusively the wisdom of their purchase. By the use of this machinery the cost per linear foot was only \$1.75, during the year 1897, as compared with \$2.50 per foot during 1896. About four miles, or, to be exact, 20,657 feet, of new sewers were laid. Some of the more extensive jobs were trunk sewers, situated as follows:

Belmont street, from Valley to Hayward, 1,830 feet long; Hayward, Belmont to Taylor, 648 feet; Silver, Lincoln to Hall, 1,232 feet; Valley, Belmont to Cypress, 1,084 feet; Union, Silver to North of Prescott, 756 feet; Montgomery east back, from Kelley to Amory, 570 feet; Dubuque east back, from Kelley to Bremer, 624 feet; Whittemore land, Putnam to Piscataquog river, 847 feet;

Sagamore, from Russell easterly, 754 feet; Elm, from Carpenter to Trenton, 556 feet; and Carpenter, from Elm to Union, 1,426 feet.

In the Elm-street sewer it was necessary to make a cut fifteen feet deep in the solid ledge. This was done at a cost of \$9.45 per linear foot. The sewer on Carpenter street was laid in a trench which was blasted to a depth of seven and eight feet in the ledge during its entire length. The cost per linear foot of this sewer was \$2.21. The water-works department bore a part of the expense necessary to put in the two trenches on Elm and Carpenter streets, and the water pipe was laid at the same time the sewer was built.

The extraordinary growth of this city during the past years has made it almost impossible to supply the demand for sewers. At the present time some seven miles of sewers are ordered built by the city government, the building of which has not yet been begun. Most of the sewers now ordered built are located in the suburbs where the soil, as has been before stated, is filled with boulders and ledges, and the steam drills and dynamite have to be extensively used in their construction, which largely increases the cost.

The attention of the city government is respectfully called to these two facts with a request that it will take them into consideration when the special appropriation for sewers is settled upon.

SEWERS BUILT

STREET.	LOCATION.	Material.	Size in inches.	Length in feet, new.
Alfred	From Hanover northerly.....	Akron	10	48
Belmont	Valley to Harvard	"	15	1,140
Belmont	Harvard to south of Somerville.....	"	10	690
Carpenter	Elm to Ray.....	"	15	1,161
Carpenter	Ray to Union.....	"	12	224
Carpenter	In Union	"	8	40
Central	From east of Beacon westerly.....	"	10	96
Elm	Carpenter to Trenton	"	15	556
Elm	From south of Clarke southerly	"	8	56
Everett	Clarke to Waldo	"	10	358
Hall.....	Prospect to Harrison	"	12	274
Hanover	From w'st of Beacon to e'st of Hubbard	"	12	371
Hanover	From e'st of Hubbard to e'st of Alfred	"	10	297
Harrison	From Hall easterly	Iron ..	10	12
Harrison	From Hall easterly	Akron	10	288
Harrison	From Linden westerly	Iron ..	10	12
Harrison	From Linden westerly	Akron	10	302
Harvard	From Wilson easterly.....	"	10	264
Hayward	Belmont to Taylor.....	Iron ..	12	10
Hayward	Belmont to Taylor.....	Akron	12	638
Hayward	From Taylor easterly	"	10	350
Lake avenue	From Canton easterly.....	"	10	398
Laurel	From east of Union to Beech	"	12	.....
Laurel	From Beech easterly	"	10	.....
Laurel	From east of Beacon westerly	"	10	147
Liberty east back...	From north of North northerly.....	"	10	192
Linden	Prospect to Harrison.....	"	15	270
Maple.....	From Silver to north of Harvard.....	"	15	406

IN 1897.—EAST SIDE.

Length in feet, relaid.	Manholes.	Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	When started.	When finished.	Average cut in feet.	Nature of excavation.
.....	.....	.....	3		\$38.75	\$0.807	Oct. 13	Oct. 16	7.0	Gravel.
.....	4	43	10		1,700.00	1.482	April 29	June 26	10.0	Gravel and clay.
.....	2	1	27	...	660.50	0.957	" 29	" 26	9.0	Gravel and clay.
.....	3	24	6		2,857.71	2.461	May 3	Sept. 7	7.5	Ledge.
.....	1	4	1		440.00	1.964	" 3	" 7	8.0	Ledge and gravel.
.....	.....	1	1		30.00	0.705	" 3	" 7	8.5	Ledge and gravel.
.....	.....	.....	.....		87.80	0.914	Aug. 24	Aug. 26	8.0	Sand.
.....	2	11	1		5,258.06	9.456	Dec. 28	May 26	15.0	Ledge.
.....	.....	1	...		13.80	0.246	Aug. 25	Aug. 26	4.0	Sand.
.....	1	11	4		491.81	1.371	Dec. 11	Dec. 22	9.0	Sand and hard clay
.....	1	6	...		462.00	1.686	May 5	May 15	10.5	Gravel and ledge.
.....	3	5	3		1,250.00	3.369	Aug. 16	Oct. 2	7.0	Gravel and ledge.
.....	1	1	14	...	539.26	1.815	" 16	" 2	6.5	Gravel.
.....	.....	.....	.....		597.62	1.992	May 17	June 1	8.5	Hard gravel and ledge.
.....	2	10	2							
.....	1	2	11	...	543.47	1.729	May 27	June 22	8.0	Sand, gravel, and ledge.
.....	1	10	2		299.73	1.135	July 2	July 9	8.0	Gravel.
.....	.....	.....	.....		536.81	0.826	Sept. 20	Oct. 5	8.5	Sand.
.....	1	15	2		270.00	0.771	" 20	" 5	8.0	Sand.
.....	1	1	14	2	353.51	0.888	April 28	May 3	8.5	Gravel.
422	2	1	2		400.69	0.947	Sept. 22	Oct. 2	8.5	Sand and clayey
[404	1	.....	7		363.20	0.899	" 22	" 2	7.0	gravel.
.....	.....	1	6	...	196.80	1.339	Aug. 26	Aug. 30	8.0	Gravel and ledge.
60	1	9	...		130.57	0.517	" 31	Sept. 5	6.0	Gravel.
.....	1	4	...		472.54	1.750	May 31	June 23	10.5	Gravel and ledge.
.....	1	10	...		799.17	1.968	Sept. 6	Sept. 20	16.5	Sand.

SEWERS BUILT IN 1897.

STREET.	LOCATION.	Material.	Size in inches.	Length in feet, new.
Merrimack.....	From Belmont to east of Milton.....	Akron	10	438
Myrtle.....	From Hall westerly.....	Iron..	10	30
Myrtle.....	From Hall westerly	Akron	10	293
Myrtle.....	From Hall westerly	"	8	172
Orange	From Hall easterly	"	10	300
Ray	From south of Clarke northerly.....	"	10	68
Russell	From Harrison northerly.....	"	8	362
Sagamore	Oak to Russell	"	12	450
Sagamore	From Russell easterly.....	"	10	304
Silver.....	Lincoln to Wilson	"	24	669
Silver	Wilson to Hall ..	"	20.	563
Somerville	Jewett to Cypress	"	10	441
Spruce	From Canton easterly.....	"	12	140
Taylor.....	From Valley southerly.....	"	10	8
Union.....	From Silver to north of Prescott.....	"	15	766
Valley	From e'st of Belm'nt to w'st of Cypress	"	15	1,084
Walnut.....	From Salmon southerly.....	"	6	70
Walnut east back..	From north of Salmon southerly.....	"	10	54
Walnut east back..	From Christian brook northerly	"	10	198
Wilson.....	From Harvard southerly	"	10	150
Wilson.....	From Silver southerly.....	"	20	76
Total ..	.....	.....	.....	15,236

— EAST SIDE — *Continued.*

Length in feet, relaid.	Manholes.	Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	When started.	When finished.	Average cut in feet.	Nature of excavation.
28	3	..	12	..	\$914.32	\$1.962	Oct. 30	Dec. 9	5.5	Gravel and ledge.
.....	.....	.....	.....	.....	364.59	1.128	April 19	Apr. 28	8.0	Sand and gravel.
.....	.....	13	.....	.....	116.45	0.677	" 19	" 28	6.5	Gravel and ledge.
.....	1	..	7	..	1,076.25	3.587	Aug. 25	Oct. 15	10.5	Gravel and ledge.
.....	1	..	11	..	47.00	0.691	" 24	Aug. 26	7.0	Sand and gravel.
.....	.....	2	..	..	106.50	0.270	Nov. 15	Nov. 18	4.5	Gravel.
32	2	..	4	2	490.00	1.088	Aug. 3	Aug. 16	7.5	Gravel and ledge.
.....	2	..	16	..	294.87	0.969	" 3	" 16	7.0	Gravel and ledge.
.....	2	..	12	..	1,360.86	2.022	June 14	" 2	11.0	Sand and clay.
4	3	..	14	1	971.85	1.726	" 14	" 2	10.5	Sand and clay.
.....	2	..	16	2	1,013.05	2.297	Aug. 3	Sept. 1	11.0	Gravel and ledge.
.....	3	..	11	2	169.40	1.210	April 19	April 27	9.0	Gravel.
.....	.....	5	1	.....	5.00	0.625	June 30	July 30	10.0	Sand and gravel.
.....	2	..	23	4	1,210.36	1.606	Oct. 20	Nov. 9	13.0	Sand and clay.
.....	4	4	..	40	1,564.21	1.437	June 30	July 30	9.5	Sand and gravel.
.....	.....	2	..	.....	70.10	1.001	Aug. 17	Aug. 19	5.0	Clay and ledge.
.....	.....	1	2	.....	167.85	3.108	" 31	Sept. 7	9.0	Gravel.
.....	2	..	5	.....	335.76	1.695	" 3	" 3	10.0	Sand and ledge.
.....	.....	1	5	1	165.15	1.101	June 29	July 1	7.5	Clay.
.....	.....	1	1	.....	167.45	2.203	July 28	Aug. 2	10.0	Clay.
954	58	8	457	65	\$29,404.82	.....	.....	.....	.....

SEWERS BUILT

STREET.	LOCATION.	Material.	Size in inches.	Length in feet, new.
Cartier east back ...	From Sullivan southerly	Akron	10	212
Dubuque east back..	Kelley to Bremer.....	"	12	624
Dubuque east back..	From Bremer northerly	"	10	348
Granite	Turner to Second.....	"	20	.....
Granite	Turner to Second.....	"	15	.....
Granite	From Second to east of Main.....	"	12	.....
Granite	From Second to east of Main.....	"	8	.....
Granite.....	Green to Quincy.....	"	12	.....
Granite.....	West of Second.....	"	8	50
Montgomery east b'k	Kelley to Amory	"	10	700
Schiller.....	From Hale easterly	"	15	.....
Sullivan	Beaumont to Cartier east back	"	10	144
Third	From south of Walker southerly.....	"	10	206
Wheelock	From Goffe northerly.....	"	10	160
Whittemore land....	Piscataquog river to Putnam	"	24	847
Total.....	.....	.....	.....	3,291

IN 1897.—WEST SIDE.

Length in feet, relaid.	Manholes.	Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	When started.	When finished.	Average cut in feet.	Nature of excavation.
.....	2*	..	....	2	\$91.04	\$0.429	May 6	May 17	7.0	Sand.
.....	2	..	23	1	619.25	0.992	June 22	July 9	11.0	Sand.
.....	2	..	14	1	369.24	1.061	" 22	" 9	7.0	Sand.
94	...	..	4	1	191.75	2.039	May 18	" 18	8.5	Stony gravel.
136	1	..	6	1	224.70	1.652	" 18	" 18	8.0	Stony gravel.
521	2	..	18	4	458.90	0.880	" 18	" 18	6.5	Stony gravel.
32	...	..	....	2	23.87	0.745	" 18	" 18	6.0	Stony gravel.
275	1	..	11	8	233.51	0.849	" 7	May 15	10.0	Sandy loam.
.....	...	..	1	...	16.40	0.328	" 17	" 17	8.0	Sand.
.....	2	..	23	1	608.12	0.868	June 11	June 22	12.5	Sand.
118	...	..	2	1	245.25	2.078	July 20	Aug. 2	13.0	Clay.
.....	1	..	....	2	214.07	1.456	April 20	May 5	6.0	Sand.
.....	1	..	8	...	743.06	3.607	Oct. 12	Nov. 6	6.5	Gravel and ledge.
.....	...	..	4	...	115.62	0.722	Dec. 15	Dec. 29	6.0	Muck and ledge.
.....	3	..	6	2	2,698.81	3.186	Sept. 11	Oct. 23	10.5	Clay and ledge.
1176	17	..	120	21	\$6,853.59	.....	.....	.....	.....

* Cesspool manholes.

Length of sewers, east side, division No. 2..	11,689 feet
Length of sewers, east side, division No. 7..	4,501 "
Length of sewers, west side, division No. 10	4,467 "
Total	<u>20,657 feet</u>
Cost of sewers, east side, division No. 2....	\$23,485.85
Cost of sewers, east side, division No. 7....	5,918.97
Cost of sewers, west side, division No. 10..	6,853.59
Total	<u>\$36,258.41</u>
Average cost per foot, east side, division No. 2	\$2.009
Average cost per foot, east side, division No. 7	1.315
Average cost per ft., west side, division No. 10	1.534
Average total cost per foot, \$1.755.	

SUMMARY.

Total appropriation for new sewers.....	\$45,697.57
Expended, new sewers, east side \$24,146.76	
new sewers, west side 6,853.59	
North Elm St. sewer 5,258.06	
107 new cesspools,	
division No. 2..... 2,605.71	
On hand, new sewers..... 4,301.77	
River road sewer..... 439.51	
supplies at city yard.. 2,692.17	
	<u>\$45,697.57</u>

The following table shows how the cost for new sewers, including North Elm street sewer, has been divided:

COST OF NEW SEWERS, 1897.

Month.	Labor.	Castings, repairs, black-smithing.	Pipe.	Incidentals.	Cement.	Freight charges.	Lumber.	Hardware.	Brick.	Total cost.
January	\$852.59	\$1.60	.....	\$164.37	\$6.24	.....	.....	\$222.64	.....	\$1,247.44
February	1,190.69	92.41	.....	117.69	.....	\$0.25	.....	215.83	.....	1,616.87
March.....	956.14	27.04	\$115.50	6.84	4.28	.....	\$16.00	230.86	.....	1,356.66
April.....	445.00	283.84	.....	106.44	111.25	18.10	.....	409.43	.....	1,374.06
May.....	2,887.60	422.61	1,161.83	128.05	111.25	40.50	216.03	896.20	\$214.20	6,078.27
June	4,955.63	541.77	1,584.15	133.97	111.25	43.90	.....	107.76	.....	7,478.43
July.....	3,298.52	239.54	1,806.20	201.11	111.25	40.50	.....	98.90	428.40	6,224.42
August.....	1,647.91	42.07	13.95	116.26	222.50	25.00	.....	60.83	201.60	2,330.12
September	4,052.24	245.59	1,346.83	9.23	.....	28.00	263.98	228.54	214.20	6,388.61
October	3,012.77	131.64	25.13	83.16	111.25	29.55	26.96	98.22	178.50	3,697.18
November.....	1,606.26	76.90	123.27	10.53	.....	27.90	.....	102.22	71.40	2,018.48
December	789.25	8.91	.....	211.41	.....	5.60	12.28	46.96	71.40	1,145.81
Total.....	\$25,634.60	\$2,113.92	\$6,176.86	\$1,289.06	\$789.27	\$259.30	\$535.25	\$2,718.39	\$1,379.70	\$40,956.35

Report of Division No. 10.

 GEORGE P. AMES, AGENT.

GENERAL REPAIRS.

Patched with gravel, Amory street, labor....	\$10.00
Boynton street, labor..	88.75
Bartlett street, labor..	53.62
Bowman street, labor..	10.00
Front street, labor.....	48.27
Granite street, labor...	13.00
Joliette street, labor...	7.88
Mast road, labor.....	26.00
Mast road, labor.....	26.50
North Main street, labor	20.00
Railroad street, labor..	13.00
South Main street, labor	27.50
Second street, labor....	41.50
Wayne street, labor....	10.00
	<hr/>
	\$396.12
Turnpiked, Eddy road, labor.....	\$7.00
Second street, labor.....	3.63
Cut trees, Barr street, labor.....	13.50
Douglas street, labor.....	33.00
Granite street, labor.....	31.50
West street, labor.....	20.50
	<hr/>
	\$109.13
Built pipe culvert on River road, 58 feet long, labor and materials.....	\$14.90
Whitewashing tree boxes, material and labor	35.45
Cleaned out gutters, scraped crossings, and general repairs, labor.....	707.38

FENCING.

Amory street	264 feet
Amoskeag bridge, east end.....	352 "
Boynton street	32 "
Bartlett street	512 "
Eddy road	80 "
Front street	160 "
Hooksett road	552 "
Kelley street	208 "
Lavelle street	176 "
Mast road	104 "
Shirley Hill road	90 "
South Main street	1,168 "
Third street	40 "

Total 3,738 feet
 Cost of labor and materials, \$212.98.

STREETS GRAVELED.

LOCATION.	Length in feet.	Width in feet.	Labor.
Amory.....	325	18	\$43.25
Bedford plains.....	500	20	75.00
Coolidge avenue, repaired.....	750	26	15.00
Cartier, repaired	200	26	5.00
Colby, repaired	200	6	10.00
Hackett Hill road	350	12	50.00
Mast road	1,050	26	421.12
River road			500.00
Railroad.....	350	16	15.00
Sullivan	240	24	32.00
Wayne.....	320	24	75.62
West.....	175	20	25.00
Total.....	4,460		\$1,266.99

NEW HIGHWAYS.

LOCATION.	Length in feet.	Cut or fill.	No. of feet.	Labor.
Columbus.....	200	Cut.	.....	\$209.85
Cartier.....	200	"	.....	105.50
Essex.....	100	"	.....	80.87
Hevey.....	968	Both.	684	319.64
Lavelle.....	550	"	.....	246.38
Rimmon.....	1,086	Cut.	736	436.53
*Second.....	.....	.....	.....	300.00
Wayne.....	100	Cut.	.....	136.35
Total.....	3,204	.....	1,420	\$1,935.12

* Built by contract with Wm. H. Coburn.

For incidentals, see summary of new streets graded in division No. 2 report.

MACADAMIZING.

McGregor street, from Amory to Putnam streets, 3,822 square yards. Used 1,134 loads of crushed stone; labor, \$3,341.07. The portable crusher was set up at the Amoskeag Company's ledge, on North Kelley street, and was used in crushing all the stone for macadamizing McGregor street.

COBBLE CUTTER PAVING.

LOCATION.	Square yards.	Number of loads.	Labor.
Adams.....	39	4	\$18.50
A street.....	41	2	20.00
Boynton.....	126	10	50.00
Coolidge avenue.....	120	13	44.45
Cartier.....	225	26	87.12
C street.....	400	34	131.18
Cartier.....	225	26	96.00
Dubuque.....	125	16	48.00
Granite.....	733	*.....	210.86
Kelley.....	204	24	72.50
Mast road.....	535	23	136.30
McDuffie.....	156	12	56.31
Rimmon.....	103	19	45.00
South Main.....	641	48	165.37
Wilton.....	64	8	25.00
Total.....	3,797	265	\$1,206.59

* Used old stone.

NOTE.—Most of the paving stones used were taken from the city's gravel bank in West Manchester.

PAVING RELAID.

B street	34 sq. yds.
Granite street	145 "
Main and Mast streets.....	107 "
McGregor street	334 "

 620 sq. yds.

Labor, \$288.99.

GRADE FOR CONCRETE.

LOCATION.	Length in feet.	Width in feet.	Cut or fill.	Labor.
Amory and Cartier.....	150	8	Cut.	\$8.25
A and South Main.....	600	8	Fill.	12.00
Bowman	200	4	"	10.00
Boynton and McDuffie	730	8	Both.	20.00
C street.....	300	6	"	18.25
Dubuque	375	8	Cut.	21.00
Front street, raised flagstones.....				9.50
Granite	60	8	Cut.	1.50
Mast road	300	8	"	29.25
Wayne.....	215	7	Fill.	15.00
Total	2,930			\$144.75

EDGE STONES SET.

Adams and Main	23 feet
A and South Main.....	15 "
A and Bowman	17 "
Bowman and Mast.....	6 "
Boynton & McDuffie	37 "
Granite	297 "
Mast and Main	112 "
McGregor	760 "
Parker and South Main	31 "
Sullivan and Beauport.....	14 "
Wayne and Rimmon	18 "

 Total 1,330 feet

Three-foot circles set, 18.

Labor, \$186.45.

NEW CESSPOOLS.

LOCATION.	Number.	Cost of materials.	Labor.
Amory and Dubuque	1	\$16.91	\$9.00
Beauport back street.....	2	9.65	10.00
Beauport.....	1	14.25	12.50
Boynton and McDuffie.....	1	13.55	13.50
Coolidge avenue.....	1	11.98	21.75
Cartier and Kelley	4	64.23	115.75
Cartier and Amory.....	2	30.33	37.12
Coolidge avenue.....	1	15.37	15.00
C street.....	1	7.94	10.00
Cartier	1	13.85	11.62
Dartmouth	1	13.84	15.00
Fourth.....	1	17.05	10.80
Granite and Main.....	3	43.86	34.50
Granite.....	8	114.60	92.25
Mast road	2	36.01	16.75
McGregor.....	3	37.48	41.00
North Main.....	2	25.22	22.50
Parker and Main.....	2	23.96	14.00
Rimmon and Wayne	2	23.52	17.00
South Main.....	5	71.28	67.74
Wilton and Main.....	1	14.96	8.87
Total.....	45	\$619.84	\$596.65

REPAIRED SEWERS AND CESSPOOLS.

LOCATION.	Number.	Cost of materials.	Labor.
Amherst road (sewer).....			\$11.70
Beauport	6	\$2.48	7.25
Beauport (sewer).....			9.11
Conant and West	1		7.50
Cartier and Kelley.....	1	3.51	5.00
Cartier east back.....	2	11.81	3.50
Clinton	1	1.89	10.50
C street.....	2	1.69	2.00
Ferry and Turner (sewer).....			4.69
Granite.....	3	14.33	38.00
Mast road	2	10.38	8.87
Marion and McGregor.....	2	15.69	20.00
North Main.....	1	3.10	5.00
Parker.....	1	2.79	1.75
South Main.....	6	20.04	15.00
Winter.....	1	4.39	7.00
Cleaned cesspools.....			491.27
Total.....	29	\$92.10	\$648.14

The following table gives only the length in feet and total cost of new sewers built during the season in division No. 10. For further details see sewer table, division No. 2 report.

NEW SEWERS BUILT.

LOCATION.	Length in feet.	Total cost.
Cartier east back, Sullivan southerly	212	\$91.04
Dubuque east back, Kelley to Bremer	624	619.25
Dubuque east back, Bremer northerly	348	369.24
Granite, Turner to Second	94	191.75
Granite, Turner to Second	136	224.70
Granite, Second to east of Main	521	458.90
Granite, Second to east of Main	32	23.87
Granite, Green to Quincy	275	233.51
Granite, southwest of Second	50	16.40
Montgomery east back, Kelley to Amory	700	608.12
Schiller, from Hale easterly	118	245.25
Sullivan, Beauport to Cartier east back	144	214.07
Third, from south of Walker southerly	206	743.06
Wheelock, Goffe northerly	160	115.62
Whittemore land, Piscataquog river to Putnam	847	2,698.81
Total	4,467	\$6,853.59

REPORTS FROM HIGHWAY DIVISIONS.

Division No. 4.

BYRON E. MOORE, AGENT.

Number of feet of roads turnpiked with road-machine,
1,900.

Number of feet of roads graveled, 4,500.

Number of feet of roads clayed and graveled, 2,750.

One new wooden culvert has been built this year, and
one repaired.

Bushes have been cut throughout the division, and the
roads have been kept clear of all stone and have been
broken out after snowstorms.

Total amount expended for labor, \$613.11.

Division No. 5.

MARK E. HARVEY, AGENT.

Number of feet of roads graveled, 3,155.

Number of feet of roads turnpiked with road-machine, 440.

Number of feet of new railing built, 558.

ROADS WIDENED.

Londonderry road	118 cu. yds.
Nutt road	222 "
Merrill road	84 "
	<hr/>
Total	424 cu. yds.
Graded by cut, Londonderry road.....	407 cu. yds.
Graded by cut, Merrill road.....	306 "

2 culverts extended on Londonderry old road, each 5 feet long.

1 culvert extended on Nutt road, 9 feet in length.

1 culvert extended on Merrill road, 5 feet in length.

The bridge across Cohas brook on Nutt road has been repaired by having the floor timbers strengthened, rods tightened and newly planked. Also the small bridge near the Harvey mill site has been repaired.

The small bridge on Weston road has been entirely rebuilt. Bushes have been cut on two and one half miles of road. New fencing has been built at the ends of 24 culverts, loose stones removed from all roads once a month during the season, all roads broken out after each snow storm, general repairs made throughout the division.

There are many pieces of road in this division which need widening, as it is now dangerous for teams to pass one another, especially after dark, or when the roads are in an icy condition.

Total amount expended for labor, \$465.86.

Division No. 6.

DANIEL H. DICKEY, AGENT.

Turnpiked 36,960 feet of road with road-machine, one new culvert and driveway built, new railings built and old ones repaired. Stones have been removed from the roads once a month and all washouts and waterbars have been repaired by filling in with gravel. The roads have been broken out after all snowstorms.

Total amount expended for labor, \$412.97.

Division No. 7.

CHARLES FRANCIS, AGENT.

Turnpiked, Somerville street, Wilson to Hall.

Cilley road, west from Jewett.

Candia road.

Paige street.

Glenwood avenue.

Orchard avenue.

Graveled, Mammoth road, from Cohas avenue south, 2,300 feet.

Widened, Mammoth road, Wilson north 450 feet x 20 feet x 3 feet.

Widened, Candia road, at Mammoth road.

NEW STREETS BUILT.

Central, west from Hall road.....	150 feet
Glenwood avenue, from Paige east.....	450 "
Spruce, from Hall road west.....	450 "
Total	<u>1,050 feet</u>
Built bicycle path, 4,460 feet.	

GUTTERS PAVED.

Valley street	365 feet
Jewett street	100 "
Grove street	500 "
Summer street	750 "
Dearborn street	120 "
Hosley street	175 "
Beacon street	200 "
Spruce street	100 "
Canton street	250 "
Massabesic street (relaid).....	350 "
Total	<u>2,910 feet</u>

GRADE FOR CONCRETE.

Belmont street	200 feet
Dearborn street	100 "
Hall street	400 "
Hosley street	50 "
Summer street	400 "
Total	<u>1,150 feet</u>

EDGESTONES SET.

Belmont and Summer.....	19 feet
Cedar and Hall.....	36 "
Dearborn and Summer.....	19 "
Dearborn	50 "
Hall and Cedar back street.....	16 "
Hosley and Summer.....	18 "
Massabesic	50 "
Spruce and Canton.....	18 "
Spruce and Beacon.....	18 "
Summer and Hall.....	18 "
Summer	50 "
Total	<u>312 feet</u>

NEW CESSPOOLS.

LOCATION.	No.	Cost of materials.	Labor.
Belmont.....	7	\$66.24	\$40.00
Belmont and Grove	1	6.97	6.00
Spruce and Beacon.....	2	33.69	20.00
Summer and Dearborn	1	9.40	10.00
Total	11	\$116.30	\$76.00

NEW SEWERS.

LOCATION.	Length in feet.	Total cost.
Belmont, Valley to Harvard.....	1,140	\$1,700.00
Belmont, Harvard to south Somerville	690	660.50
Hayward, Belmont to Taylor.....	648	536.81
Hayward, Taylor easterly.....	350	270.00
Somerville, Jewett to Cypress.....	441	1,013.05
Spruce, Canton easterly.....	140	169.40
Taylor, Valley southerly.....	8	5.00
Valley, east of Belmont to north Cypress.....	1,084	1,564.21
Total.....	4,501	\$5,918.97

For further details see sewer table, division No. 2 report.

Total amount expended for labor, \$8,276.44.

Division No. 8.

GEORGE H. PENNIMAN, AGENT.

Number of feet of roads graded, 1,848.

Number of feet filled, 834.

Number of feet cut, 2,910.

Number of feet of sidewalks graded, 1,133.

Number of feet of gutter paving laid, 144.

Number of feet of board fence built, 600.

Bank wall built, using 56 perch of stone.

One new culvert laid and one repaired.

Built bicycle path 1,832 feet in length. This was both cut and fill, with a top-dressing of cinders drawn from the city.

The road-machine has been used on the roads throughout the division, bushes cut on both sides of the roads, and all have been broken out after each snowstorm.

Total amount expended for labor, \$1,851.46.

Division No. 9.

LESTER C. PAIGE, AGENT.

Owing to the amount of rain during the first part of the season, not as much work was done on the roads as usual. However, all general repairs have been attended to and the roads kept in a passable condition both summer and winter. All small stones were removed several times during the season, and bushes have been cut where needed throughout the division. The road-machine was used three days and did good work. Paige road was graveled for a distance of forty rods, using 63 loads of gravel; 35 loads of gravel were used on Derry road. One new culvert was built on Morse road, and several large boulders were removed from the road. One culvert on Derry road was taken up, cleaned, and relaid, also one on Corning road was cleaned and lengthened out. Fifteen loads of stone were dumped in Cohas brook, to prevent it from washing and undermining the road. Fourteen hundred feet of plank have been used in repairing bridges, and railings have been repaired and new posts set where needed.

Total amount expended for labor, \$185.25.

Division No. 12.

EUGENE G. LIBBEY, AGENT.

Turnpiked Mammoth road with road-machine entire length; cleaned out culverts and ditches throughout the

division; all roads broken out after snowstorms, and kept in good condition during the winter months. Kept bushes cut on both sides of roads and made general repairs throughout the division.

Total amount expended for labor, \$385.75.

PARKS AND COMMONS,—JOHN FULLERTON, SUPERINTENDENT.

Each common received its usual spring cleaning, and the debris of winter was removed. This includes a thorough raking and removal of the dead grass and leaves and a pruning of the trees, care being taken to cut out the dead limbs. The spots upon which the grass had died the winter before were reseeded. The flower beds were renewed, and shrubs and small trees set out to take the place of any that had died during the year. The seats were repainted and placed in position, low places graded, and in some cases a coat of paint applied to fences and stands. Later on the lawns received their usual attention. The stands were erected in Monument square for memorial exercises, and the temporary stand used in giving the eight band concerts was moved about as called for.

At McGregorville the plot of ground between Coolidge avenue, Beauport and Amory streets, which the Amoskeag Manufacturing Company so generously donated to the city for the purpose of a common, was graded, top-dressed with loam, and seeded to grass. Shrubs and flowers were set out, and the common is now in a condition more in keeping with its pleasant surroundings.

In the fall several men are kept busy removing dead leaves, covering in the fountains, and getting everything in shape for the winter's skating. This latter takes the time of several men, as the commissioners maintain nine skating ponds or rinks, divided among the various commons as follows: Merrimack, three; Park and Tremont, two each; Hanover and Concord, one each. Each pond

has to be scraped every day during the skating season, and flooded often enough to keep the ice in proper shape.

As the years go by and the plans for the development of Stark and Derryfield parks are worked out, it becomes more and more apparent that both are almost perfect locations for park purposes. The usual work necessary to each season of the year was done at the parks, and flowers and shrubs were used to an extent justified by the appropriation. Some of the more extensive improvements at Stark park were the building of a road 1,450 feet long and 18 feet wide. This roadway was graveled, and the gutters 2 feet wide on each side for 1,100 feet of its length were paved, so that it is in the best of condition. Progress has been made in the drainage, as 640 feet of ten-inch Akron pipe were laid and several new cess-pools constructed. Open ditches 1,531 feet long were dug. It became necessary to increase the water-piping, and 1,300 feet of such pipe were laid. The ditch in which this was placed was partly filled with broken stone, so that this ditch aids also in the drainage. Seven hundred feet of railing was put up to guard the steep banks of roads. Four cannon and 212 cannon balls were received, and will be used for ornamental purposes. Twenty-four trees were procured and planted in various parts of the park.

The Grand Army of the Republic of this city has often, since the great struggle in which its members sacrificed so much, testified to its love of country, but never was there conceived a more beautiful idea than that of planting an Elm tree to represent each state of the Union. During the year this idea was executed by the Posts in this city. They raised the money for and procured the forty-four trees necessary, and selected the north and east ends of the park as the place where the trees should be planted. On July 4 appropriate dedicatory exercises were held under the direction of the Grand Army at the

park. A stone tablet has been placed in position, upon which the story of the trees has been chiseled, and future generations, when they enjoy the beauty and shade of this magnificent colonnade of trees, will remember with grateful feelings the old soldiers whose taste and liberality provided it. The members of the commission here and now extend to each and all who were instrumental in their purchase their heartfelt thanks.

At Derryfield park several extensive improvements are also called to your notice. A wall 1,000 feet long and 6 feet wide has been built from stones cleaned from the land. For drainage, 2,000 feet of Akron pipe was laid, and 600 feet of open ditch dug; two cesspools and two culverts were built. Six acres of ground were plowed, graded, the stones removed from the surface, and then resceded to grass after the liberal use of fertilizers. Ornamental and shade trees to the number of 110 were procured and set out. Over an acre of ground on the summit of Oak Hill was cleared of stumps, stones, and bushes, and properly graded. Several acres were cleared of stumps and stones, preparatory to grading and seeding later on. The road to the summit of Oak Hill was thoroughly repaired, and 2,350 feet of the Old Bridge road graded. Two cannon and 106 cannon balls were also secured for this park.

The greatest event of the year, however, was the completion and dedication of the Weston Observatory, with its transfer to the city. Oak Hill, on the summit of which it stands, is the highest point in this vicinity, and the shaft is not only an ornament to the park and the city, but from the observatory can be obtained a series of grand and beautiful views. Its purpose, so clearly stated by the donor to be "For the advancement of science, for educational purposes, for the use, enjoyment, benefit, and mental improvement of the people of Manchester, and visitors, without expense to them," has been grandly accom-

plished. The exercises were in charge of the Grand Lodge of Free Masons of the State of New Hampshire. The exercises, it is needless to say, were exceedingly interesting and instructive.

These commons and parks are each year becoming more and more a source of enjoyment and health to our citizens. The time once was when a short walk in any direction would take one into what was practically the country. Owing to the growth of our city, the country is today too far away for children or tired grown people to reach by walking, and as a consequence the poorer classes of our citizens must turn to our commons and parks for their fresh air and recreation. That they do so is evident. Any pleasant summer afternoon mothers may be seen enjoying the grateful shade of the trees, with their children playing about them. The laborer in the evening finds a seat in some convenient spot and, over their pipes, he and his companions chat the hours away until bedtime, finding rest and comfort which would be denied them in the hot, stuffy tenements necessity compels them to inhabit. When the winter comes, thousands enjoy the skating with absolute safety.

An actual count shows that 16,000 people visited the Weston Observatory last season, after its completion. With a knowledge that these places were and must be the poor people's pleasure grounds, this board has sought to make the money appropriated for the purpose go as far as possible in securing that which would make them beautiful and comfortable. We believe in the past that this money has been well and wisely spent. In these days of adversity we realize that economy which would rob these citizens who are the workers in our city of that which means so much to them would be a mistake if not a wrong, and we ask the city councils to be liberal as well as just in their appropriation for parks and commons for the coming year.

The following is a summary attending the season's work on the parks and commons:

COMMONS.

Labor	\$2,877.66
Water-works	700.00
Trees, shrubs, flowers.....	291.50
Concreting	33.50
Incidentals	155.23
Tools and supplies.....	105.07
Grass seed and dressing.....	157.08
Seats	94.52
Painting	76.24
Lights	36.00
	<hr/>
Total	\$4,526.80

DERRYFIELD PARK.

Labor	\$1,915.99
Trees and shrubs	87.60
Grass seed and dressing.....	125.51
Hardware	50.14
Incidentals	40.66
Water-works	24.00
	<hr/>
Total	\$2,243.90

STARK PARK.

Labor	\$2,670.75
Hardware	23.79
Paving stone	29.75
Incidentals	35.65
	<hr/>
Total	\$2,759.94

In closing we desire to thank His Honor Mayor Clarke, and each member of the city government, as well as all others, for courtesies granted. To all our assistants, whatever their station, we also extend thanks for the ability and interest they have shown in the work of the department.

Respectfully submitted.

HORACE P. SIMPSON,
GEORGE H. STEARNS,
BYRON WORTHEN,

Board of Street and Park Commissioners.

JANUARY 1, 1898.

REPORT
OF THE
CITY ENGINEER.

CITY ENGINEER'S DEPARTMENT,
1897.

CITY ENGINEER.

WINFRED H. BENNETT.

ASSISTANTS.

HARRIE M. YOUNG.

GEORGE W. WALES.

HARRY J. BRIGGS.

ALFRED T. DODGE.

HERBERT L. WATSON, July 12 to July 28.

LOUIS B. WEBSTER, to February 18.

STENOGRAPHER AND TYPEWRITER.

MISS ELLA M. BARKER.

REPORT OF THE CITY ENGINEER.

To His Honor the Mayor and Gentlemen of the City Councils:

SIRS,—I have the honor of presenting my twelfth annual report, being the nineteenth annual report of the work of the city engineer's department, for the year ending December 31, 1897.

Expenses of the department for the year 1897, per monthly draft:

January	\$243.12
February	321.30
March	573.38
April	280.85
May	282.00
June	706.00
July	269.50
August	286.89
September	630.50
October	278.72
November	324.65
December	584.00
Total	<hr/> \$4,780.91
Appropriation	4,500.00
Amount overdrawn	<hr/> \$280.91
Itemized account of expenses for the year:	
For salary of city engineer.....	\$1,200.00
salary of assistants.....	2,996.25
supplies for office.....	42.05

For stakes and lumber.....	\$22.99
street-car fares	10.00
repairs of wagon and team expenses....	15.65
express .....	.30
repairing	1.65
books and folios.....	36.00
telephone	36.40
typewriter supplies	1.50
typewriter clerk	373.12
reports	45.00
	<hr/>
Total	\$4,780.91

The following bills, charged to other appropriations, have been certified to by this department:

The John B. Clarke Co., printing 1,000 sewer license blanks	\$6.50
Union Manufacturing Co., 80 street numbers	3.60
C. H. Simpson, use of team 8 days, perambulating town line	20.00

CONCRETE.

Charles H. Robie Co., 11,170.93 sq. yds.....	\$7,229.34
Mead, Mason & Co., 1,240.31 square yards.....	751.30

The amount of work done by this department during the year is as follows:

Number of orders for surveys, street lines, and grades	612
for sewer grades.....	95
for paving grades.....	82
for curb grades.....	35
for Pine Grove Cemetery grades	26
for Valley cemetery grades	2
for profile levels.....	39
	<hr/>
Total number of orders.....	891

Levels for profiles for establishing grades, 19,799 feet, equal to 3.75 miles. These profiles have three lines of levels on each street, making a total distance actually leveled of 59,397 feet.

Levels for sewer profiles.....	1,717
for center profiles.....	15,336
in Valley cemetery.....	600
in Stark park.....	8,400
Other levels	19,762
	<hr/>
Total levels taken.....	105,212

Equal to 19.92 miles.

Levels for cross section Pine Grove cemetery, 291,375 square feet.

Surveys of streets and street lines.....	34,817
for street numbers.....	16,640
Other surveys	18,407
	<hr/>
Total surveys made.....	69,864

Equal to 13.23 miles.

Street lines marked on ground.....	10,579
Lines of lots and avenues, Pine Grove cemetery	6,766
Valley cemetery	60
of avenues, etc., Stark park.....	7,550
for gutters	33,240
for curbs	8,650
for sewers	21,550
Other lines	17,800
	<hr/>

Total length of lines marked on the ground 106,195

Equal to 20.11 miles.

Grades set for sidewalks	26,509
for gutters	33,240
for curbs	8,650
for sewers	21,550

Grades set for paving streets	3,334
for building streets	26,460
for Pine Grove cemetery.....	7,964
in Valley cemetery.....	355
in Stark park.....	8,400
Other grades	500
	<hr/>
Total length of grades set.....	133,112

Equal to 25.21 miles.

Lot owners looked up, 15,518 feet; equal to 2.94 miles.

BATTERS SET.

High school, lot curbing.

Pine street, retaining wall, Valley cemetery.

Old lots restaked in Pine Grove cemetery.....	32
New lots laid out in Pine Grove cemetery.....	44
Old lots restaked in Valley cemetery.....	1
	<hr/>
Total cemetery lots laid out.....	77
Street numbers assigned and put on.....	141
replaced	52
assigned but not put on.....	38
changed	3
	<hr/>
Total	234

Street signs put up, 15; sewer permits granted, 262.

PLANS AND PROFILES MADE FOR SIDEWALK GRADES.

Beech, Lake avenue to Salmon. Five plans.

Central, Union to Hall. Two plans.

Mast, Amherst road to town line.

Somerville, Hall to east of Taylor.

Taylor, Massabesic to Hayward.

Total plans and profiles, 10.

SEWER PLANS AND PROFILES.

- Auburn south back, Beech to Maple.
 Auburn south back, Wilson to Belmont.
 Carpenter, Elm to Union.
 Central south back, Union to Beech.
 Clarke, River road to Elm.
 Dartmouth, Log to Schiller.
 Dubuque east back, Kelley to north of Bremer.
 Elm, Munroe to Rowell.
 Elm west back, Pennacook to Salmon.
 Hanover, Beacon easterly.
 Lake avenue, Canton to James Hall road.
 Main west back, Schuyler to Wayne.
 Merrimack, Beacon easterly.
 Parker avenue, Parker street to North Weare Railroad.
 Porter, Amherst to Concord.
 River road, Munroe to Clarke.
 Sagamore, Oak to east of Linden.
 Union east back, Sagamore to North.
 Valley, Elm to Massabesic. Four plans.
 Whittemore land, Putnam, Whipple, and Wayne.
 Four plans.
 Total sewer plans and profiles, 26.

NUMBERING PLANS.

- Adams, Clarke to Trenton. Two plans.
 Ainsworth avenue, Young to Hayward.
 Alfred, Hanover to Amherst.
 Amherst, Beacon to east of Alfred.
 Ash, Gore to Salmon.
 Auburn, Belmont to J. Hall road. Four plans.
 Calef road, Baker to Pine Grove cemetery. Eight
 plans.
 Carpenter, Elm to Union. Two plans.
 Chestnut, Clarke to Trenton. Two plans.

Corliss avenue, Concord northerly.
 Elm, Baker to Campbell. Nineteen plans.
 Everett, Clarke to Waldo.
 Hanover, Mammoth road to Candia road. Ten plans.
 Huntress, Milford to south of Prince.
 Lake avenue, Canton to Hanover. Four plans.
 Maple, Cilley to Hayward. Three plans.
 Maple, Gore to Salmon.
 Nutt road, Pine to Beech. Two plans.
 Oak, Gore to Sagamore.
 Ray, Clarke to Trenton. Three plans.
 Russell, Harrison to Gore.
 Salmon, Walnut to Maple.
 Stevens, Baker southerly.
 Trenton, Elm to Union. Two plans.
 Webster, Union to Hooksett road.
 William, Milford to Mast.
 Total numbering plans, 75.

MISCELLANEOUS PLANS.

Auburn, Cedar, Spruce, and Jones streets, Lake avenue, Candia and Mammoth roads, land of Robert I. Stevens. Copy.

Belmont, Hayward, and Taylor streets, and Young road, land of A. S. Lamb. Copy.

Burbank and Rimmon avenues, Fogg and Highland streets, land of Meserve, Carr, and Fellows. Copy.

Burlington and Hanover, land of A. A. Page. Copy.

Centennial, Palos, Isabella, Christopher, and Chicago, land of John H. Groux. Copy.

Clay, Taylor, and Somerville, land of Mrs. Cotter. Copy.

Ellsworth, Elliott, Royden, Derry, and Reed streets, Bald Hill and Candia roads, and Londonderry turnpike, land of Samuel G. Reed. Copy.

Forest, Avon, Ingalls, Sylvester, Whittier, Clement, Lilly, Dickey, and Revere streets, and Mast road, land of Adam Dickey. Copy.

Grove street, land of W. E. Moore. Copy.

Hanover street and Lake avenue, land of Charles Williams. Copy.

Hanover, Page, Bell, Normand, Summit, and Bridge, land of S. T. Page, et. al. Copy.

High school grounds, proposed addition.

Hobart and McKinley, land of Bartlett and Platts. Copy.

Jewett street and Cilley road, land of Thomas Gorman. Copy.

Jewett, Cypress, and Clay, land of W. H. Thayer. Copy.

Lakeview and Summit streets, and Candia road, land of E. P. Cummings. Copy.

Maple, Harvard, and Silver, land of Thomas Johnson. Copy.

Maple and Silver, land of A. Elliott. Copy.

Massabesic street, land of Fred Platts. Copy.

Merrimack and Lincoln, land of Charles E. Rowe. Copy.

Milton, Summer, Dearborn, and Massabesic, land of Austin Goings. Copy.

Mitchell and Beech. Land of W. H. Smith. Copy.

Mystic, Beech, Ash, and Maple, land of M. N. Badger. Copy.

New Mast road, land of J. W. Dickey.

Norfolk, Mystic, Beech, and Union streets, Titus and Beech avenues, land of J. B. Titus. Copy.

Nutt road, land of Joseph N. Auger. Copy.

Nutt road, Pine and Plummer streets, plan of Plummer land. Copy.

Oakland, Glenwood, and Platts avenue, Cody street and Candia road, land of Walter Cody. Copy.

Page, May, and Lovering streets, Glenwood avenue and Candia road, land of David P. Lovering. Copy.

Pine, land of A. J. Lane. Copy.

Pine Grove cemetery, lot plan.

Pine park, land of F. A. Palmer. Copy.

Porter, Grafton, Cheshire, Hillsborough, and Rockingham streets and Cilley and Mammoth roads, land of George S. Sargent. Copy.

Road petitioned for in 1852, Candia road to Island Pond road. Copy.

Sherburne street and Candia road, land of S. D. Sherburne. Copy.

Town line, Hooksett and Manchester, showing stone monuments set. Two plans.

Woodlawn, plan of lots. Copy.

Young, Harvard, and Beech, land of Harrington and Shea. Copy.

Total miscellaneous plans, 39.

WORKING PLANS.

Adams, Carpenter to Trenton. Profile.

Alfred, Hanover to Amherst. Profile.

Amherst, Concord, Vine, and Pine, showing changes in curbing. Four plans.

Benton, Jones to J. Hall road. Profile.

City Farm buildings, house, for electric lighting. Three floor plans.

Colby, West Hancock northerly. Profile.

Cypress and Massabesic, plan showing location of railroad track.

Elm, Merrimack to Amherst. Profile. Two plans.

Elm, sketch of flagging for Warren Harvey.

Elm extension, Baker to Mitchell. Sketch for mayor.

Glenwood avenue, Page to east of Lovering. Profile.

Hall road, Massabesic to Hanover. Profile.

- Hanover, Eaton place to Bridge. Center Profile.
 Jones, Nelson to north of Benton. Profile.
 Knowlton, Hayward to Young. Profile.
 Lorraine, Amory to Kelley. Profile.
 Main, Granite to Douglas. Profile of east side.
 Mammoth road, Candia road to Hanover. Profile.
 Manchester south back, Elm east back to Chestnut.
 Profile.
 Mystic, Beech to Calef road. Profile.
 Nelson, Mammoth road to J. Hall road. Profile.
 Nutt road, south of Beech to railroad. Profile.
 Pine Grove cemetery, part of southern section, including Greenbush, Riverside, and Short avenues, and Hemlock path.
 Pine Grove cemetery, new Swedish Lawn. Two plans.
 Proposed street, Beech to Calef road. Profile.
 Ray, Carpenter to north of Trenton. Profile.
 Section bounded by Beech, Mitchell, Norfolk, and Calef road, showing proposed streets.
 Stark park. Profile of new avenue.
 Taylor, Massabesic to Young. Profile.
 Titus avenue, Beech to Calef road. Profile.
 Wayne, Rimmon street to Columbus avenue. Profile.
 Weston, Concord to Bridge. Profile.
 Weston Observatory, chart showing direction of prominent points. Two plans.
 William, Milford to Mast. Profile.
 Total working plans, 42.

TRACINGS.

- Ash and Nashua, proposed addition to high school lot.
 Bakersville, lot plan Calef road and Brown avenue.
 Candia road, showing various lands. Eight plans.
 Christian brook sewer, Canal, Webster, and surrounding streets.

City Farm, house, for electric lighting. Three floor plans.

Depot section, for sewerage.

East Manchester, between Candia road and Hanover street, from Page easterly.

Glenwood, showing additions.

Granite, showing street railway layout at Concord & Montreal Railroad.

Hanover square section, location of houses and sewers.

Hanover street and Mammoth road, land of George H. Penniman.

Kelley, Bremer and Rimmon, showing sewerage.

Lake Massabesic and surroundings, portions of, from water-works plans. Twenty-one tracings.

Mast and South Main, land of Gordon Woodbury.

Merrill yard and adjoining roads.

Pine Grove cemetery, Chapel Lawn.

Pine Grove cemetery, Landscape Lawn.

Pine Grove cemetery, Pine Lawn.

Pine Grove cemetery, lots east of Pine Lawn.

Pine Grove cemetery, Swedish section. Two tracings.

Phillip, Brooklyn, Currier, Pembroke, Waltham, Worcester, Springfield, Albany, Rhododendron, and Canaan streets, Valuable and Massachusetts avenues, land of G. A. Currier.

Proctor road, Candia road to Hanover street.

Proctor road, Lake Shore to Candia road.

Stevens pond and surrounding streets.

Weston Observatory, chart showing direction of prominent points.

Total tracings, 55.

BLUE PRINTS.

City Farm, house, for electric lighting. Three floor plans.

Depot section, for sewerage.

Hanover square section, location of houses and sewers.
Three plans.

Pine Grove cemetery, Chapel Lawn. Thirteen plans.

Pine Grove cemetery, Landscape Lawn. Seven plans.

Pine Grove cemetery, lots east of Pine Lawn. Seven plans.

Pine Grove cemetery, Swedish section. Six plans.

Valley cemetery, for city treasurer. Five plans.

Weston Observatory, chart showing direction of prominent points.

Whittemore land, showing sewer right of way, for city clerk.

Total blue prints, 47.

MAPS.

City of Manchester, location of police signal boxes.

Forty sheets of plans have been made in the new sewer books.

Forty-five plans have been made in city clerk's book of streets laid out, and one plan in city clerk's deed book.

Total of all plans made, 381.

One hundred ninety-four old plans, that have been superseded by new plans, have been destroyed.

Ten plans are under way, which will be completed during the year.

Sewer plans brought up to date, 27.

Numbering sheets brought up to date, 3.

Plans lettered and finished, 25.

Plans made for establishment of grade on laid-out streets, 26,670.

Plans made for the establishment of grade on streets not laid out, 9,500 feet.

Total, 36,170 feet; equal to 6.85 miles.

PIPE REMOVED WHERE NEW SEWERS HAVE BEEN BUILT

STREET.	LOCATION.	Material.	Size in	
			inches.	Length in feet.
Granite.....	Turner to east of Main.....	Cement..	9	920
Granite.....	Green to Quincy.....	Akron ...	12	275
Laurel.....	East of Union to west of Maple...	Cement..	9	826
Liberty east back...	North of North northerly	Akron ...	10	61
Merrimack.....	At Belmont.....	"	10	28
Russell.....	At Harrison.....	"	8	32
Schiller.....	Hale easterly	"	15	118
Silver	At Lincoln	"	24	4
Valley.....	East of Belmont.....	"	15	4
Total				2,268

SUMMARY OF SEWERS BUILT IN 1897.

Total 24-inch Akron pipe.....	1,520 feet
20-inch Akron pipe.....	733 "
15-inch Akron pipe.....	5,641 "
12-inch Akron pipe.....	3,939 "
12-inch iron pipe.....	10 "
10-inch Akron pipe.....	7,946 "
10-inch iron pipe.....	54 "
8-inch Akron pipe.....	744 "
6-inch Akron pipe.....	70 "
Total	20,657 feet

Following is the total amount of sewerage in the city, January 1, 1898:

Total 6-inch Akron pipe.....	70 feet
8-inch Akron pipe.....	10,079 "
10-inch Akron pipe.....	79,591 "
12-inch Akron pipe.....	81,755 "
15-inch Akron pipe.....	30,678 "

Total 18-inch Akron pipe.....	3,964	feet
20-inch Akron pipe.....	11,999	"
24-inch Akron pipe.....	7,798	"
	<hr/>	
Total Akron pipe.....	225,934	feet
Equal to 42.794 miles.		
8-inch Portland pipe, old.....	90	feet
12-inch Portland pipe, old.....	3,990	"
18-inch Portland pipe, old.....	770	"
	<hr/>	
Total Portland pipe, old.....	4,850	feet
Equal to 0.919 miles.		
10-inch Portland pipe, new.....	7,605	feet
12-inch Portland pipe, new.....	4,526	"
15-inch Portland pipe, new.....	4,518	"
18-inch Portland pipe, new.....	395	"
20-inch Portland pipe, new.....	3,345	"
24-inch Portland pipe, new.....	3,284	"
	<hr/>	
Total Portland pipe, new.....	23,673	feet
Equal to 4.483 miles.		
9-inch cement pipe.....	9,912	feet
12-inch cement pipe.....	20,014	"
15-inch cement pipe.....	490	"
18-inch cement pipe.....	860	"
24-inch cement pipe.....	735	"
16 x 24 inches, cement pipe.....	1,697	"
	<hr/>	
Total cement pipe.....	33,708	feet
Equal to 6.384 miles.		
10-inch earthen pipe.....	1,175	feet
12-inch earthen pipe.....	2,545	"
	<hr/>	
Total earthen pipe.....	3,720	feet
Equal to 0.704 miles.		
18-inch brick sewers.....	5,532	feet
24-inch brick sewers.....	1,900	"

29-inch brick sewers.....	1,600	feet
36-inch brick sewers.....	506	"
42-inch brick sewers.....	446	"
44-inch brick sewers.....	1,195	"
57-inch brick sewers.....	1,400	"
60-inch brick sewers.....	285	"
17 x 26 inches, brick sewers.....	1,506	"
20 x 30 inches, brick sewers.....	1,197	"
22 x 33 inches, brick sewers.....	849	"
24 x 36 inches, brick sewers.....	11,051	"
26 x 39 inches, brick sewers.....	514	"
29 $\frac{1}{4}$ x 44 inches, brick sewers.....	4,530	"
30 x 46 inches, brick sewers.....	1,360	"
32 x 48 inches, brick sewers.....	3,279	"
36 x 54 inches, brick sewers.....	1,067	"
38 x 57 inches, brick sewers.....	4,388	"
40 x 44 inches, brick sewers.....	790	"
42 x 63 inches, brick sewers.....	3,104	"
50 x 75 inches, brick sewers.....	712	"

Total brick sewers..... 47,211 feet

Equal to 8.941 miles.

8-inch iron pipe.....	24	feet
10-inch iron pipe.....	66	"
12-inch iron pipe.....	34	"
14-inch iron pipe.....	24	"
20-inch iron pipe.....	158	"
24-inch iron pipe.....	24	"
36-inch iron pipe.....	277 $\frac{1}{2}$	"

Total iron pipe..... 607 $\frac{1}{2}$ feet

Equal to 0.115 miles.

24-inch steel pipe.....	67	feet
36-inch steel pipe.....	39	"
48-inch steel pipe.....	372	"

Total steel pipe..... 478 feet

Equal to 0.09 miles.

Total in all sewers, 340,181 $\frac{1}{2}$ feet, equal to 64.42 miles.

STREET GRADES ESTABLISHED IN 1897.

No. of plan.	STREET.	LOCATION.	Length in feet.	Order passed.
799	Baker.....	Nutt road to M. & L. R. R.....	350	Oct. 5
4163	Beech.....	Salmon southerly.....	200	May 4
4195	Benton.....	J. Hall road to Jones.....	240	Sept. 7
4196	Glenwo'd av	Page easterly.....	730	Aug. 25
4194	J. Hall road..	Massabesic to Lake avenue . . .	2,254	Sept. 7
4195	Jones.....	Nelson to Benton.....	550	Sept. 7
793.4	Lake avenue	Cass to J. Hall road *.....	1,385	May 4
2150	Mast.....	Amherst road westerly *.....	2,551	Oct. 5
4192	Mammoth rd	Candia road to Lake avenue....	2,837	Sept. 7
4195	Nelson.....	J. Hall road to Mammoth road	510	Sept. 7
4197	Nutt road....	Baker to Beech.....	976	Oct. 5
741	Salmon.....	Walnut east back to Beech.....	150	May 12
4174	Vinton.....	Taylor easterly.....	1,100	June 1
160	Wayne.....	Dubuque to Hevey.....	490	Nov. 2
			14,323	

Equal to 2.71 miles.

On these plans both sides of the street are shown, making the actual distance of grade established 28,646 feet, or 5.42 miles.

CONCRETE LAID BY THE C. H. ROBIE CO.

DESCRIPTION.	Square yards.	Total cost.
Crossings.....	903.39	\$703.46
Sidewalks.....	146.04	68.55
Roadways.....	6,418.82	4,592.34
Miscellaneous.....	3,702.68	1,864.99
Total.....	11,170.93	\$7,229.34

* Center grade.

CONCRETE LAID BY MEAD, MASON & CO.

DESCRIPTION.	Square yards.	Total cost.
Crossings.....	581.79	\$429.96
Sidewalks.....	181.34	83.60
Miscellaneous.....	477.18	237.74
Total	1,240.31	\$751.30

Total concrete laid for the city, 12,411.24 square yards, at a cost of \$7,980.64.

NEW HIGHWAYS LAID OUT IN 1897.

STREETS.	LOCATION.	When laid out.	Width in feet.	Length in feet.	Petition of
Avon.....	Ingalls to Mast.....	Nov. 19	45	983	Adam Dickey.
Cartier.....	Kelley to Coolidge ave.	May 26	50	397	Medard Poulin.
Clay.....	Union to Beech.....	June 9	50	492	E. R. Dufresne.
Dartmouth....	West Hancock to Log..	Oct. 13	40	220	Fred G. Stark.
Dickey.....	Avon to Clement.....	Nov. 19	45	445	Adam Dickey.
Ingalls.....	Forest to Clement.....	Nov. 19	45	700	Adam Dickey.
Log.....	South Main to Colby....	Oct. 13	40	868	Fred G. Stark.
Maple.....	Hayward to Shasta....	Oct. 13	50	2,215	Charles A. Flint.
Schiller.....	Hale to South Main....	Oct. 13	50	830	Fred G. Stark.
Somerville....	Hall to Belmont.....	Aug. 25	50	306	John Muir.
Sylvester.....	Forest to Avon.....	Nov. 19	45	303	Adam Dickey.
				7,759	

HIGHWAY DISCONTINUED IN 1897.

STREET.	LOCATION.	When discontinued.	Petition of
"Landing".....	Main to Piscataquog river..	Oct. 13	Fred G. Stark.

The following table shows the streets laid out to date, which have not been built. Many of these have been turnpiked, and are in passable condition, but have not been brought to grade, nor have the gutters or sidewalks been constructed. Those marked (*) in most cases have not been opened, and are impassable with a few exceptions. It will necessitate the expenditure of a considerable amount of money to properly build them to grade.

STREETS LAID OUT TO DATE BUT NOT BUILT.

STREETS.	Length in feet.	When laid out.
Ainsworth avenue, Hayward to Young.....	499	August 31, 1893.
Alfred, Hanover to Amherst.....	212	July 19, 1893.
Allen, Main to Boynton	700	July 24, 1891.
Alsace, south of Kelley northerly.....	1,160	May 26, 1893.
Amory, to Kimball.....	2,800	November 17, 1891.
Amory, extension to Bartlett.....	735	June 26, 1892.
Arah, Union to Hooksett line.....	3,162	July 21, 1895.
Ash, Gore northerly*.....	590	June 9, 1893.
Auburn, Maple to Lincoln.....	600	July 28, 1891.
Auburn, Wilson to Belmont.....	809	August 15, 1892.
Auburn, Cypress to Platts avenue*.....	967	June 9, 1893.
Avon, Ingalls to Mast.....	983	November 19, 1897.
Bartlett, Amory extension southerly	1,800	July 26, 1892.
Bay, Trenton northerly*	580	June 19, 1896.
Beech, Webster to Clarke*.....	1,176	November 29, 1893.
Bell, Wilson easterly	636	August 15, 1892.
Belmont, Young to Clay.....	1,395	September 1, 1891.
Benton, Jones to James Hall road.....	240	August 31, 1893.
Blaine, Second to Hiram.....	385	May 20, 1892.
Boutwell, Amory northerly*.....	1,693	May 26, 1893.
Bremer, Coolidge avenue to Rimmon	400	October 23, 1895.
Byron, Brown avenue to Josselyn	998	October 3, 1893.
Campbell, Union to Ash.....	860	September 26, 1892.
Campbell, Ash to Hooksett road.....	2,900	September 20, 1895.
Canal, 82 feet north of Pleasant to Granite.....	1,023	January 15, 1892.
Canton, Spruce to Auburn.....	550	August 2, 1892.
Clay, Union to Beech.....	492	June 9, 1897.
Cedar, Wilson easterly.....	665	August 15, 1892.
Central, James Hall road westerly.....	304	July 6, 1892.
Chestnut, north of Clarke to Trenton.....	1,337	April 24, 1896.
Cartier, Kelley to Coolidge avenue.....	397	May 26, 1897.
Clay, Jewett to Cypress.....	387	August 31, 1893.
Cleveland, Blaine to Merrimack river.....	1,487	May 20, 1892.
Colby, West Hancock to Log.....	220	November 16, 1893.
Columbus avenue, Cartier to Amory*.....	3,110	May 20, 1892.
Cypress, Lake avenue to Massabesic*.....	1,300	December 28, 1892.
Cypress, Young to Clay	860	September 25, 1896.
Dartmouth, West Hancock to Log.....	220	October 13, 1897.
Dartmouth, West Hancock to Frederick.....	636	August 28, 1891.
Dickey, Avon to Clement.....	445	November 19, 1897.
Erie, South Main westerly	470	June 20, 1893.
Essex, Amory southerly	575	November 20, 1893.
Forest, Milford to Old Mast road.....	1,460	December 16, 1890.
Foster avenue, Valley to Hayward.....	490	July 31, 1895.
Glenwood avenue, Mammoth rd. to J. Cronin's*.....	2,085	December 28, 1892.
Glenwood avenue, Page easterly.....	725	September 25, 1896.
Grant, Hanover to Mammoth road*.....	1,068	October 20, 1893.
Green, Douglas northerly.....	96	July 28, 1891.
Green, Pine to Beech.....	990	August 31, 1893.
Green, Wilson to Belmont*.....	809	August 15, 1892.
Grove, Wilson to Belmont*.....	809	September 9, 1892.
Grove, Taylor westerly	757	December 28, 1892.
Hale, across Wolf & Wagner land	800	July 25, 1894.
Hall, Hayward to Young.....	125	July 6, 1892.
Hall, Lake avenue to Bell.....	1,890	June 23, 1893.
Hall, Pearl to north side of Prospect	716	June 12, 1891.
Harrison, Russell to Hall.....	1,218	October 25, 1892.
Harrison, Hall to Belmont.....	365	May 21, 1894.
Harvard, Union to Maple.....	1,190	November 18, 1892.
Harvell, Main to Second.....	1,060	July 25, 1894.
Hayes avenue, Massabesic to Chase avenue. ...	471	October 19, 1894.
Hayward, Beech to Mammoth road.....	6,000	September 21, 1893.
Highland Park avenue, Candia road to Glen- wood avenue.....	1,007	December 28, 1892.

STREETS LAID OUT TO DATE BUT NOT BUILT.—Continued.

STREETS.	Length in feet.	When laid out.
Holt avenue, Candia road to Lake Shore road*.	7,850	July 31, 1896.
Hosley, Green to Summer.....	490	November 16, 1893.
Huntress, Bank to north of Prince.....	648	Septemb'r 18 1891.
Ingalls, Forest to Clement.....	700	November 19, 1897.
Jewett, Cilley road to Weston road*.....	3,650	November 27, 1891.
Joliette, south of Kelley northerly.....	1,150	May 26, 1893.
Jones, Nelson to R. I. Stevens's land.....	562	August 31, 1893.
Josselyn, Byron to Varney.....	161	October 3, 1893.
Kelley to M. & N. W. R. R.....	652	June 23, 1891.
Kennedy, Brown avenue to Josselyn.....	922	Septemb'r 21, 1891.
Knowlton, Hayward southerly.....	487	November 27, 1891.
Lafayette, Amory northerly*.....	1,690	May 26, 1893.
Laval, Amory northerly*.....	1,698	May 26, 1893.
Liberty, North southerly.....	150	April 26, 1892.
Liberty, south of North to Salmon.....	325	June 12, 1895.
Lincoln, Cedar to Shasta*.....	4,321	June 23, 1891.
Log, South Main to Colby*.....	868	October 13, 1897.
Longwood ave., Mammoth rd. to Woodbine ave.	1,100	December 28, 1892.
Maple, Gore northerly*.....	600	June 9, 1893.
Maple, Hayward to Shasta*.....	2,215	October 13, 1897.
Maynard avenue, Huse road to Porter*.....	1,315	August 28, 1896.
McKinnon, Central to Pleasant*.....	192	June 7, 1892.
McNeil, Second to West Hancock.....	299	August 28, 1891.
Merrill, Jewett easterly.....	350	April 22, 1896.
Merrimack, east of Beacon to Hanover.....	1,000	July 25, 1891.
Milford, Amherst road westerly.....	517	December 16, 1890.
Mitchell, Beech to Brown avenue.....	3,000	October 28, 1890.
Montgomery, Conant northerly.....	400	November 29, 1892.
Morgan, Amory to Kelley.....	650	May 26, 1893.
Mystic avenue, Candia road northerly.....	1,200	May 26, 1893.
Nelson, James Hall road to Mammoth road.....	509	December 28, 1893.
North, Union to Walnut*.....	220	August 21, 1893.
Oak, Gore northerly*.....	220	August 28, 1896.
Oak, Gore northerly*.....	600	June 9, 1893.
Oakland avenue, A. W. Palmer's to J. Cronin's.	1,500	December 28, 1892.
Orchard avenue, Candia road to C. & P. R. R....	1,337	December 28, 1892.
Page, Hanover to Bridge.....	2,500	June 19, 1889.
Platts avenue, Candia road to C. & P. R. R.....	1,052	August 24, 1894.
Plummer, Pine to Union.....	450	May 26, 1896.
Prospect, Derry old line to Hall.....	325	May 29, 1889.
Prout avenue, Hayward southerly.....	500	June 6, 1893.
Putnam, to Dubuque.....	300	June 5, 1888.
Quiney, Douglas northerly.....	96	July 28, 1891.
Revere avenue, Candia road to C. & P. R. R....	1,200	December 28, 1892.
Rimmon, to south of Wayne.....	735	Septemb'r 26, 1892.
Sagamore, Oak to Smyth road.....	1,453	June 19, 1896.
Salmon, Walnut to Beech.....	270	June 27, 1894.
Schiller, Hale to South Main*.....	830	October 13, 1897.
Schiller, Hale to Wentworth.....	855	July 25, 1894.
Schiller, Wentworth to Merrimack river.....	218	July 25, 1894.
Second, Blaine to Main.....	5,528	Septemb'r 18, 1891.
Silver, Union to Maple.....	690	June 7, 1892.
Somerville, Union to Hall.....	2,925	June 7, 1892.
Somerville, Hall to Belmont*.....	306	August 25, 1897.
Somerville, Jewett to Cypress.....	410	July 31, 1896.
Stevens, Baker southerly.....	300	November 29, 1892.
Summer, Beech westerly.....	200	November 25, 1896.
Summer, Wilson to Massabesic.....	1,480	Septemb'r 22, 1891.
Sylvester, Forest to Avon.....	303	November 19, 1897.
Titus avenue, Union to Beech.....	540	May 21, 1894.
Union, Auburn to Nutt road.....	4,175	October 25, 1892.
Varney, Josselyn to west of B. & M. R. R*.....	290	October 3, 1893.
Vinton, Taylor to Jewett.....	1,256	August 31, 1893.

STREETS LAID OUT TO DATE BUT NOT BUILT.—Continued.

STREETS.	Length in feet.	When laid out.
Wallace, Winter southwesterly*	165	November 23, 1894.
Wayland avenue, Massabesic to Mammoth road	134	August 24, 1894.
Wayne, west of Dubuque westerly.....	150	June 23, 1893.
Wentworth, West Hancock southerly*.....	1,546	Septemb'r 21, 1893.
West Hancock, Merrimaek river westerly.....	700	November 28, 1890.
Wilkins, Rockland avenue to Bedford line.....	595	July 6, 1892.
Willow, Hayward to Nutt road*.....	292	June 23, 1893.
Woodbine avenue, Candia road to C. & P. R. R.	1,290	December 28, 1892.
Woodland ave., C. & P. R. R. to Jas. Dearborn's	770	December 28, 1892.
Woodland ave., Jas. Dearborn's to Candia road	426	November 23, 1894.
	141,021	

Equal to 26.71 miles.

Tabulated Statement of Work Done and Present Standing Relative to Streets and Sewers, January 1, 1898.

New streets laid out in 1893.....	36,666.00	feet, equal to 6.940 miles.
“ “ 1894.....	13,325.00	“ “ 2.330 “
“ “ 1895.....	12,090.00	“ “ 2.290 “
“ “ 1896.....	15,780.00	“ “ 3.000 “
“ “ 1897.....	7,759.00	“ “ 1.470 “
New streets built in 1893.....	15,840.00	“ “ 3.000 “
“ “ 1894.....	18,513.00	“ “ 3.506 “
“ “ 1895.....	16,943.00	“ “ 3.220 “
“ “ 1896.....	19,950.00	“ “ 3.778 “
“ “ 1897.....	10,674.00	“ “ 2.021 “
Sewers built in 1893.....	21,716.00	“ “ 4.110 “
“ “ 1894.....	19,612.00	“ “ 3.714 “
“ “ 1895.....	23,152.00	“ “ 4.383 “
“ “ 1896.....	26,530.00	“ “ 5.024 “
“ “ 1897.....	20,657.00	“ “ 3.931 “
Sewers voted in 1893.....	34,007.00	“ “ 6.440 “
“ “ 1894.....	18,366.00	“ “ 3.480 “
“ “ 1895.....	24,136.50	“ “ 4.569 “
“ “ 1896.....	22,444.00	“ “ 4.250 “
“ “ 1897.....	16,366.00	“ “ 3.100 “
Streets laid out but not built to Jan. 1, 1898.....	141,021.00	“ “ 26.710 “
Sewers ordered in but not built to Jan. 1, 1898.....	34,039.00	“ “ 6.446 “
Total amount of sewers Jan. 1, 1897.....		60.945 “
Actual increase in 1897.....		3.508 “
Total amount of sewers Jan. 1, 1898.....		64.453 “

Length of streets open for travel....	592,749.00	feet, equal to	112.261	miles.
Length of streets planned for on ground	95,205.00	" "	18.031	"
Length of roads open for travel	323,400.00	" "	61.250	"
Length of avenues opened for travel	45,257.00	" "	8.571	"
Length of avenues planned for on ground	16,234.00	" "	3.074	"
	<u>1,072,845.00</u>		<u>203.190</u>	"
Length of walks on streets	664,900.00	feet, equal to	125.928	"
Length of walks on roads.....	4,740.00	" "	.897	"
Length of walks on avenues.....	35,388.00	" "	6.702	"
	<u>705,028.00</u>		<u>133.527</u>	

ROADWAYS.

Cobblestone paving.....	2,720.00	feet, equal to	0.515	miles
Block paving.....	9,258.00	" "	1.753	"
Coal tar concrete.....	10,446.00	" "	1.978	"
Macadam	38,032.00	" "	7.203	"
Telford.....	27,097.00	" "	5.132	"

Total length of improved streets 87,553.00 feet, equal to 16.582 miles

Streets, roads, and avenues open for travel January 1, 1898, 961,406 feet, equal to 182.084 miles.

City Hall step is 219.352 feet above sea level.

The highest point in the city above mean sea level, 539 feet; the lowest, 129 feet.

Four cemeteries belonging to the city have a combined area of 105 acres, and eleven private burying grounds about 50 acres.

The largest sewer in the city is 50 x 75 inches; the smallest, 6 inches. There are seven sewer outlets into the river, two above high water mark, and five submerged from 1 to 8 feet.

The city owns wholly or in part 43 public buildings, of which 1 is built of brick and stone, 35 of brick, and 7 of wood.

The common width of streets is 50 feet; the narrowest is 20 feet; the widest, 100 feet.

There are 90 miles of streets having shade trees.

Area of city, 21,700 acres, or 33.906 square miles.

Area of Derryfield park	68.00	acres
Oak Hill reservoir park.....	25.65	"
Rimmon park (proposed).....	42.91	"

Area of Stark park.....	30.00	acres
West Side park.....	9.76	"
Concord square	4.48	"
Hanover square	3.00	"
Merrimack square	5.89	"
Park square	3.49	"
Simpson square	0.56	"
Tremont square	2.25	"
<hr/>		
Total area of parks	176.32	acres
Total area of squares.....	19.67	"

SUMMARY OF SEWERAGE SYSTEM SINCE 1880.

YEAR.	Miles constructed during year.	Miles constructed to date.	House connections recorded during the year.	House connections recorded to date.	Cost of sewers.	Average cost per mile.
1880.....	1.62	18.66	.....	.....	\$19,919.40	\$12,295.92
1881.....	2.18	20.84	.....	.....	23,895.12	10,961.06
1882.....	3.37	24.21	.....	.....	24,148.13	7,165.65
1883.....	2.54	26.75	.....	.....	21,452.05	8,445.69
1884.....	1.73	28.48	.....	.....	21,548.60	12,455.84
1885.....	1.56	30.04	.....	.....	28,122.84	18,027.46
1886.....	2.15	32.19	.....	.....	44,479.15	20,687.97
1887.....	1.44	33.63	.....	.....	19,893.92	13,815.22
1888.....	1.73	35.36	.....	.....	31,154.19	18,008.20
1889.....	2.66	38.02	.....	2,003	27,513.73	10,343.51
1890.....	1.81	39.83	64	2,067	39,297.97	21,711.58
1891.....	3.08	42.91	153	2,220	55,409.73	17,990.17
1892.....	3.13	46.04	214	2,434	39,724.65	12,691.58
1893.....	3.31	49.35	191	2,625	51,392.15	15,526.33
1894.....	2.91	52.26	258	2,883	46,116.01	15,847.42
1895.....	3.98	56.24	255	3,138	71,859.36	18,055.11
1896.....	4.71	60.95	237	3,375	66,408.87	14,099.33
1897.....	*3.93	64.42	283	3,658	36,258.41	9,226.05

Total cost for 18 years, \$668,594.28.

* Includes old sewers relaid.

In the year 1888 a plan was made by the present city engineer for a system of sewerage embracing the entire city, this being the first comprehensive plan ever compiled for that purpose. Since its adoption the majority of the sewers constructed have followed this plan; those that have not are only temporary, and will have to be relaid when the growth of the city demands it. Since 1888 there have been 29.06 miles built, at a cost of \$433,980.88; at an average cost of \$14,933.96 per mile.

Orders.

The following orders have been written by this department for the various committees.

ORDERS TO BUILD SEWERS.

- Amory, from Alsace easterly about 200 feet.
- Beech, from Silver to Harvard.
- Central, from Belmont to Milton.
- Everett, from Clarke southerly about 300 feet.
- Grove south back, from east of Union to Beech.
- Grove south back, from Wilson easterly about 200 feet.
- Harvard, from Beech to Maple.
- Hayward, from Belmont to Cypress.
- Laurel, from east of Beacon westerly about 150 feet.
- Maple, from Prescott to Hayward.
- Prescott, from Wilson east about 208 feet.
- Rimmon east back, from Kelley to Mason.
- River road, from Clarke to Park avenue, proposed.
- Russell, from Harrison northerly 350 feet.
- Silver, from Lincoln to Wilson.
- Silver, from Wilson to Hall.
- Somerville, from Wilson to Hall.
- Taylor, from Valley northerly about 400 feet.
- Union, from Silver to Hayward.
- Walnut, from Salmon southerly 175 feet.
- Whittemore land.
- Recommended by committee on sewers and drains.

ORDERS TO ESTABLISH STREET GRADES.

Adams, from Carpenter to Trenton.

Baker, from Nutt road to Manchester & Lawrence Railroad.

Bartlett, from Wayne to south of Sullivan.

Beech, from Salmon southerly.

Benton, from Hall road to Jones.

Cypress, from Lake avenue to Massabesic.

Glenwood avenue, from Page easterly 730 feet.

Hall road, from Massabesic to Lake avenue.

Jones, from Nelson to Benton.

Lake avenue, from Cass to Hall road.

Lafayette, from Kelley to Amory.

Mammoth road, from Candia road to Lake avenue.

Mast, from Amherst road westerly 2,551 feet.

Nelson, from Hall road to Mammoth road.

Nutt road, from Baker to Beech.

Salmon, from Walnut east back to Beech.

Vinton, from Taylor easterly.

Wayne, from Dubuque to Hevey.

Recommended by committee on streets.

An order to build Cypress street from Auburn to Massabesic, recommended by committee on streets.

An order to change the western boundary of Derryfield park, recommended by Councilman George H. Phinney.

REPORT OF COMMITTEE ON SEWERS AND DRAINS.

Following is the report of the committee on sewers and drains, prepared by the city engineer as clerk of the committee:

MANCHESTER, N. H., December 28, 1897.

Gentlemen of the City Councils:

The committee appointed by your honorable board, to act as the joint standing committee on sewers and drains, would submit the following report of the work done by them the present year, and the first in their term of office.

At the opening of the season there were fifty-eight orders for sewers voted in but not built. The following list gives the street, location, date of order, and length.

SEWERS ORDERED BUT NOT BUILT, TO JANUARY 1, 1897.

STREET.	LOCATION.	Length.	Date ordered.
Amherst.....	Union to Ashland.....	2,609	May 2, 1893
Amherst road.....	South of Carroll southerly.....	630	April 3, 1894
Auburn.....	East of Canton easterly.....	90	Nov. 1, 1894
Auburn south back..	Hall easterly.....	150	Jan. 7, 1896
Beacon.....	Amherst to Concord.....	303	Nov. 10, 1896
Belmont.....	Valley to Clay.....	2,100	Aug. 4, 1896
Belmont.....	Old Bridge to Bridge.....	200	Jan. 7, 1896
Blaine.....	Second to Hiram.....	400	July 5, 1892
Carpenter.....	Elm to Union.....	1,413	Nov. 10, 1896
Cartier east back....	South of Putnam southerly....	56	Dec. 3, 1895
Cartier east back....	North of Sullivan to 250 feet south of Sullivan.....	312	June 2, 1896
Cedar south back....	Beech westerly.....	175	May 5, 1896
Concord.....	Hall easterly.....	200	Sept. 6, 1896
Dover.....	Clinton northerly.....	160	" 4, 1894
Elm.....	Shasta to Baker.....	332	May 6, 1890
Elm.....	Railroad bridge to Elm avenue	1,373	
Elm.....	Munroe south back to Clarke..	851	June 4, 1895
Elm.....	Carpenter to Rowell.....	1,500	Feb. 4, 1896
Foster avenue.....	Valley to Hayward.....	540	July 14, 1896
Front.....	Eddy to north of hotel.....	2,800	Sept. 5, 1893
Hale.....	Schiller southerly.....	450	Nov. 9, 1894
Hall.....	Prospect to Harrison.....	270	Sept. 1, 1896
Hanover.....	East of Beacon to Highland...	500	July 14, 1896
Harrison.....	Hall to Belmont.....	365	Sept. 1, 1896
Harrison.....	Linden to Russell.....	450	Dec. 1, 1896
Harvell.....	Hale to South Main.....	700	Nov. 9, 1894
Hayward.....	Jewett easterly.....	300	Sept. 3, 1895
Hevey east back.....	Wayne northerly.....	146	Jan. 7, 1896
Hevey east back.....	South of Amory to Columbus avenue.....	396	July 10, 1893
Lake avenue.....	Canton easterly.....	300	Oct. 6, 1896
Linden.....	Prospect to Harrison.....	270	Dec. 1, 1896
Locust *.....	Christian brook to Sagamore..	198	Aug. 4, 1896
Lowell.....	Belmont to Beacon.....	500	" 6, 1895
Maple.....	Silver to Prescott.....	640	Sept. 1, 1896
Merrimaek.....	Belmont to Milton.....	200	Oct. 6, 1891
Montgomery east b'k	Kelley to Amory.....	700	Nov. 10, 1896
Myrtle.....	Hall westerly.....	200	May 2, 1893
Orange.....	Hall to Belmont.....	365	Feb. 4, 1896
Prospect.....	Hall easterly.....	100	Sept. 3, 1895
Sagamore *.....	Locust easterly.....	136	Aug. 4, 1896
Sagamore.....	Oak to Linden.....	902	Nov. 10, 1896
Schiller.....	Hale to South Main.....	850	" 10, 1896
Second.....	Blaine to Hiram.....	400	July 5, 1892
Second.....	South of Schiller to Harvell...	160	Dec. 3, 1895
Somerville.....	Jewett westerly.....	400	July 2, 1895
Spruce.....	Canton easterly.....	250	Jan. 7, 1896
Tilton.....	South of Milford to Bowman place.....	233	June 4, 1895
Union.....	Clarke to Trenton.....	1,700	July 2, 1895
Union.....	Silver to Plummer.....	350	Sept. 3, 1895
Union east back.....	South of Christian brook south- erly.....	50	Aug. 6, 1895
Valley.....	Elm to Wilson.....	4,040	Nov. 7, 1893
Valley.....	Jewett to Foster avenue.....	248	July 14, 1896
Walnut east back....	Salmon northerly.....	250	Nov. 10, 1896
Walnut east back....	Christian brook northerly.....	200	Dec. 1, 1896
West.....	Clinton northerly.....	226	Sept. 4, 1894
Wentworth.....	Schiller southerly.....	400	" 5, 1895
Wilson.....	Harvard to Somerville.....	657	Aug. 7, 1894
Wilson Hill.....	Merrimaek to Hanover.....	380	July 14, 1896
		35,067	

Equal to 6.64 miles.

*Sewer changed to other location.

Of these the following have been built during the year:

STREET.	Location.	Length in feet.
Belmont.....	Valley to south of Somerville	1,830
Carpenter.....	Elm to Union.....	1,413
Cartier east back.....	Sullivan southerly.....	212
Elm.....	Carpenter to Trenton.....	556
Hall.....	Prospect to Harrison.....	270
Hanover..	East of Beacon to east of Alfred.....	297
Harrison.....	Hall easterly.....	300
Harrison.....	Linden westerly.....	314
Lake avenue.....	Canton easterly.....	300
Linden.....	Prospect to Harrison.....	270
Maple.....	Silver to north of Harvard.....	406
Merrimack.....	Belmont to Milton.....	200
Montgomery east back.....	Kelley to Amory.....	700
Myrtle.....	Hall westerly.....	200
Orange.....	Hall easterly.....	300
Sagamore.....	Oak to east of Russell.....	754
Somerville.....	Jewett to Cypress.....	400
Spruce.....	Canton easterly.....	140
Walnut east back.....	North of Salmon southerly.....	54
Walnut east back.....	Christian brook northerly.....	200
Wilson.....	Silver southerly.....	76
Wilson.....	Harvard southerly.....	150
		9,342

The following sewers, voted in previous to 1897, have been changed to other and more favorable locations:

Street.	Location.	Length in feet.
Locust.....	Christian brook to Sagamore.....	198
Sagamore.....	Locust easterly.....	136
Wilson hill.....	Merrimack to Hanover.....	380
		714

Portions of the following sewers, voted in previous to 1897, have been constructed far enough to provide proper drainage for the section, though not covering the entire distance voted in.

The table shows the length remaining, which will not have to be built.

Street.	Location.	Length in feet.
Cartier east back	South of Putnam southerly.....	56
Cartier east back	South of Sullivan southerly	100
Harrison	Russell easterly.....	136
Wilson.....	South of Harvard southerly.....	182
		474

Leaving 24,537 feet of sewers voted in previous to January 1, 1897.

Brief mention is made in the following of the more important sewers built during the year:

The work on the Elm-street main was continued through the winter and the pipe laid to Trenton street. It has been found that pipe laying through ledge excavation can be done considerably cheaper during the cold weather, when the ground is frozen, as the necessity of bracing is obviated, and the blasting operations do not disturb the top crust of earth to such an extent. There remain 944 feet to be laid to carry this sewer to its proposed terminus, Rowell street.

The Carpenter-street sewer has been built from Elm to Union street, most of the way through ledge, and drainage provided for that rapidly growing section. The stone removed in blasting was crushed and used for repairing the city streets. By an arrangement with the water-works their pipe was laid in the sewer trench, they assuming a portion of the expense incurred in digging the trench, thereby reducing the cost of the sewer materially.

The sewer in Belmont street, which was voted in last year, has been constructed from Valley to Harvard street, and that section, so long desiring sewerage facilities, has been well provided for. In this section the Valley-street main has been continued nearly to Cypress street, a distance of 1,084 feet. By the construction of these two sewers a large amount of territory has been taken care

of in the way of mains so that future sewer building will be in the nature of laterals in the various streets, as needed.

In the F. M. Hoyt Shoe Company's section, the Silver-street main has been extended to Hall street, being of 24-inch pipe to Wilson street and 20-inch pipe the remainder of the distance. Branches were also laid in Wilson street, from Harvard southerly, connecting with the Wilson-street main, and from Silver street southerly. This section is growing rapidly and will probably need increased facilities in the near future; in fact, several petitions have already been received, on some of which favorable action has been taken. In Maple and Union streets sewers have been built, connecting with the Silver-street main.

On Wilson Hill the residents on Hanover street have been given means of drainage by building a sewer from the old sewer on Hanover street, west of Beacon, to a point east of Alfred street. This was in accordance with the order passed last year, and takes the place of the one proposed to run across lots from Merrimack to Hanover. Nearly half the distance was ledge excavation, the cut averaging about six feet. Laterals have also been constructed in Central and Laurel streets connecting with the Wilson Hill sewer.

The New Discovery and the surrounding sections have received needed attention, sewers having been built in Hall, Harrison, Linden, Myrtle, and Orange streets. This section is now well provided for, and future work will only be in the line of extensions to existing mains and laterals.

The Laurel-street sewer, running from east of Union nearly to Maple, has been relaid deeper and numerous cesspools built to drain the surface water. No house connections were made, as they are provided for by sewers in the back streets.

On the west side the principal sewer work has been that in the Whittemore section. Arrangements were made last year whereby the city secured possession of a piece of land whose owners, holding an ice-cutting privilege, objected to the sewage running into the river. This year permission was granted by the Boston & Maine Railroad and the Whittemore heirs to run through their land. This sewer starts at the Piscataquog river and runs easterly under the railroad tracks, and along a private way, to the junction of Bow and Putnam streets. Here work was stopped for the season, leaving about 1,200 feet to be built to carry it to the terminus at Bartlett and Wayne streets. It is quite necessary that this should be built, as there are some fifty houses that are in need of the facilities that this main and its laterals will furnish. Eight hundred forty-seven feet of 24-inch pipe were laid, with an average cut of 10.5 feet. A small amount of ledge was encountered between the river and the railroad, but for the most part the excavating was through sand, with a sub-stratum of clayey gravel.

The sewer in Granite street from Turner to Main was relaid, as the street was to be concreted and it was thought best to make sure that everything was all right rather than have to tear up the roadway at some future time. A portion of the Schiller-street sewer was also relaid, where the pipe had fallen in from the effects of a washout.

On Beauport street, and at the top of the hill near Putnam street, numerous complaints were made regarding the surface water coming from the land on the west, down the slope toward Beauport street, to the injury of the lots and the inconvenience of the occupants. The former committee had recommended the construction of a sewer to remedy this, and this year it was built in Sullivan and Cartier east back streets. Cesspools were built where necessary, and the surface water is now properly taken care of.

Your committee has thoroughly examined the localities where sewers have been petitioned for, in many cases making several inspections before coming to a decision, and in all cases acted in a fair and impartial manner, as was deemed for the best interest of the city.

During the year, twenty-six orders for sewers have received favorable action; of these seven have been built, and six partly built. At the present time there are orders for sixty-three sewers, which have passed your honorable board, but which have not been constructed.

The committee has held nine meetings, as follows: April 20, April 29, May 28, July 27, August 31, September 2, October 22, November 22, December 28.

The total number of petitions presented to your committee has been twenty-seven. Of these, five have been laid over for further consideration; on five it has been voted to recommend that leave to withdraw be granted; one has been changed to another location, and seventeen have received favorable action.

Seven reports were sent to the city councils, recommending the passage of orders authorizing the building of twenty-one sewers.

These will be found in the list of orders written by the city engineer's department.

Petitions.

The following is a list of the petitions referred to the committee, and the action taken upon them:

LAUREL STREET. From Beech to Maple street, commencing at or near Beech street, at the sewer in Laurel street, and thence in an easterly direction to Maple street in Laurel street.

H. M. Wood.

Committee voted that it be laid over to next meeting, April 29, 1897.

Committee voted that leave to withdraw be granted, May 28, 1897.

WALNUT EAST BACK STREET. From near Salmon southerly, about 250 feet, commencing at the southerly end of the sewer in Walnut east back, near Salmon street, and thence in a southerly direction in Walnut east back street, about 250 feet.

William F. Miller.

Committee voted to lay it on the table, April 29, 1897.

Committee voted that leave to withdraw be granted, and that an order be prepared to build 175 feet in Walnut street, from Salmon southerly, May 28, 1897.

AMORY STREET. From Rimmon to Alsace street, commencing at Rimmon street near the engine-house on Amory street, and thence in a westerly direction to Alsace street to connect with the other sewer.

O. H. Nourry.

Committee voted that the petitioners be given leave to withdraw, April 29, 1897.

SILVER STREET. From Lincoln to Wilson, commencing at the manhole in the sewer at Lincoln and Silver streets, and thence in an easterly direction in Silver street to the center line of Wilson street, according to the city's plan of sewers for said section.

William Cooper.

Committee voted to recommend an order to build, April 29, 1897.

LAUREL STREET. From Beacon easterly, commencing at or near the easterly line of Beacon street, at Laurel street, and thence in an easterly direction in Laurel street to the Wilson Hill sewer, a distance of about 200 feet.

George D. Totman.

Committee voted to recommend an order to build, April 29, 1897.

RIVER ROAD. From Clarke to Park avenue, proposed, commencing at Clarke street and the River road, at the River-road sewer, and thence in a northerly direction to Park avenue, proposed, as shown by the city's plans.

Frank S. Davis.

Committee voted to lay it on the table, May 28, 1897.

Committee voted to recommend an order to build, October 22, 1897.

NEW MAST ROAD. From Mast northerly, commencing at the present sewer in Mast street, at the New Mast road, and thence in a northerly direction about 1,600 feet in the New Mast road.

James F. Wyman.

Committee voted to lay it on the table until the street lines are established, May 28, 1897.

Committee voted to lay it over, September 2, 1897.

UNION STREET. From Silver to Hayward, commencing at corner of Union and Silver streets, and thence in a northerly direction to Hayward street.

Martha S. Batchelder.

Committee voted that petitioners be given leave to withdraw, May 28, 1897.

HAYWARD STREET. From Belmont to Cypress in Hayward, commencing at the present sewer in Belmont street, at Hayward street, and thence in an easterly direction to Cypress street, as shown by the city's plan of sewers in Hayward street.

S. G. Fletcher.

Committee voted that it be laid on the table for consideration, July 27, 1897.

Committee voted to recommend an order to build, September 2, 1897.

GROVE SOUTH BACK. Commencing in Grove south back street, east of Union street, and thence in an easterly direction to Beech street, in Grove south back street.

Edward Coveny.

Committee voted to recommend an order to build, July 27, 1897.

AMORY STREET. From Alsace street easterly, commencing at the sewer at Alsace and Amory street, in Amory street, and thence in an easterly direction about 200 feet in Amory.

O. H. Nourry.

Committee voted to lay it on the table, July 27, 1897.

Committee voted to recommend an order to build, September 2, 1897.

UNION STREET. From Silver to Hayward, commencing at Silver and Union streets, and thence in a northerly direction to Hayward street, in Union street, according to the city's plan of sewers.

R. N. Batchelder.

Committee voted to lay it on the table, July 27, 1897.

Committee voted to recommend an order to build, September 2, 1897.

TAYLOR STREET. From Valley northerly, commencing at the sewer proposed in Valley street at Taylor street, and thence in a northerly direction in Taylor street about 400 feet.

Robert Harriman.

Committee voted to lay it on the table, July 27, 1897.

Committee voted to recommend an order to build, September 2, 1897.

EVERETT STREET. From Clarke southerly, commencing at the manhole in Clarke street sewer at Everett

street, and thence in a southerly direction in Everett street about 300 feet.

John E. Dinsmore.

Committee voted to recommend an order to build, July 27, 1897.

HARVARD STREET. From Gilman Clough's land to Hall street, commencing at the terminus of the location of the sewer already voted in on Harvard street, at the westerly line of G. Clough's land, and thence in an easterly direction to Hall street.

Alfred D. Plummer.

Committee voted to lay it on the table, July 27, 1897.

Committee voted to lay over for further consideration, September 2, 1897.

RIMMON EAST BACK STREET. From Kelley to Mason, commencing at the Kelley-street sewer at Rimmon east back street, and thence in a northerly direction to Mason street in Rimmon east back street.

John Corliss.

Committee voted to recommend an order to build, July 27, 1897.

PRESCOTT STREET. From Wilson east about 208 feet, commencing at the intersection of Wilson and Prescott streets, and thence in an easterly direction in said Prescott street about 208 feet.

A. E. Boisvert.

Committee voted to recommend an order to build, September 2, 1897.

SOMERVILLE STREET. From Wilson to Hall, commencing at the sewer already voted in on Wilson street at Somerville street, and thence in an easterly direction to Hall street through Somerville street, according to the city's plan of sewers for said section.

Eugene E. Reed.

Committee voted to lay it on the table; September 2, 1897.

Committee voted to recommend an order to build, October 22, 1897.

GARLAND AVENUE. From Cypress westerly 200 feet, commencing at a Y in the Cypress-street sewer 16 feet from the southwest corner of Kimball Bros.' shoeshop, and thence in a westerly direction to a peach tree standing in Garland avenue, so called, 200 feet from beginning.

M. V. B. Garland.

Committee voted to lay it on the table, September 2, 1897.

Committee voted to recommend that leave to withdraw be granted, October 22, 1897.

HARVARD AND BEECH STREETS. Commencing at Silver and Beech streets, thence northerly in Beech street to Harvard street, and thence in an easterly direction in Harvard street to Maple street.

Augustin Lennieux.

Committee voted to recommend an order to build, October 22, 1897.

CENTRAL STREET. From Belmont to Beacon, commencing at the intersection of Central street on Belmont street, and thence in an easterly direction to Beacon street.

Gilbert Wilber.

Committee voted to recommend an order to build to Milton street, October 22, 1897.

SECOND STREET. Harvell street southerly, commencing at the Second-street sewer near Harvell street, and thence in a southerly direction in Second street about 300 feet.

Michael T. Sullivan.

Committee voted to lay it on the table, October 22, 1897.

Committee voted to lay it over to first meeting in 1898, November 22, 1897.

GROVE SOUTH BACK STREET. From Wilson east 200 feet, commencing at Wilson and Grove south back street, and thence in an easterly direction to about 200 feet in Grove south back street.

Mary E. Gray.

Committee voted to recommend an order to build, October 22, 1897.

MAPLE STREET. From Harvard to Hayward, commencing at the present sewer in Maple street between Prescott and Harvard streets, and thence in a northerly direction to Hayward street.

John McCarthy.

Committee voted to recommend an order to build, October 22, 1897.

RUSSELL STREET. From near Harrison street northerly, commencing at the present Russell-street sewer, and thence in a northerly direction 350 feet.

Charles E. Green.

Committee voted to recommend an order to build, October 22, 1897.

CENTRAL STREET. From east of Beacon to Beacon, commencing at the present sewer in Central street east of Beacon, and thence in a westerly direction to Beacon street, according to the city's plan of sewers.

William Heron, Jr.

Committee voted to lay it over to first meeting in 1898, November 22, 1897.

LAKE AVENUE. From near Canton to Hall road, commencing at the present sewer east of Canton street in Lake avenue, and thence in an easterly direction to J. Hall road in Lake avenue.

Nellie M. Sheehan.

Committee voted to lay it over to first meeting in 1898, November 22, 1897.

SBWERS ORDERED BUILT IN 1897.

STREET.	LOCATION.	Length.	Date ordered.
Amory.....	Alsace easterly.....	200	Sept. 7
Beech.....	Silver to Harvard.....	306	Nov. 2
Central.....	Belmont to Milton.....	242	" 2
Dubuque east back	Kelley to 200 feet north of Bremer	824	Jan. 4
Everett.....	Clarke southerly.....	300	Sept. 7
Grove south back..	East of Union to Beech.....	302	" 7
Grove south back..	Wilson easterly.....	200	Nov. 2
Hanover.....	Near Beacon to Highland.....	802	Jan. 4
Harvard.....	Wilson easterly.....	200	" 4
Harvard.....	Beech to Maple.....	650	Nov. 2
Hayward.....	Belmont to Cypress.....	1,396	Sept. 7
Laurel.....	Beacon easterly.....	150	June 1
Maple.....	Prescott to Hayward.....	320	Nov. 2
Milford.....	Amherst road westerly.....	300	Jan. 4
Prescott.....	Wilson easterly.....	208	Sept. 7
Putnam.....	Bow to Whipple.....	164	Oct. 5
Rimmon east back	Kelley to Mason.....	1,400	Sept. 7
River road north..	Clarke to Park avenue. Proposed.....	1,450	Nov. 2
Russell.....	Harrison northerly.....	350	" 2
Silver.....	Lincoln to Wilson.....	673	June 1
Silver.....	Wilson to Hall.....	510	" 6
Somerville.....	Wilson to Hall.....	510	Nov. 2
Taylor.....	Valley northerly.....	400	Sept. 7
Union.....	Silver to Hayward.....	958	" 7
Valley.....	East of Belmont to Cypress.....	1,217	Jan. 4
Walnut.....	Salmon southerly.....	175	June 29
Wayne.....	Whipple to Bartlett.....	500	Oct. 5
Whittemore land..	Piscataquog river to Putnam.....	844	" 5
Whipple.....	Putnam to Wayne.....	536	" 5
Total.....	.....	16,087	

Equaling 3.04 miles.

SEWERS ORDERED BUT NOT BUILT, TO JANUARY 1, 1898.

STREET.	LOCATION.	Length.	Date ordered.
Amherst.....	Union to Ashland.....	2,600	May 2, 1893
Amherst road.....	South of Carroll southerly.....	630	April 3, 1894
Amory.....	Alsace easterly.....	200	Sept. 7, 1897
Auburn.....	East of Canton easterly.....	90	Nov. 9, 1894
Auburn south back	Hall easterly.....	150	Jan. 7, 1896
Beacon.....	Amherst to Concord.....	303	Nov. 10, 1896
Beech.....	Silver to Harvard.....	306	" 2, 1897
Belmont.....	Old Bridge to Bridge.....	200	Jan. 7, 1896
Blaine.....	Second to Hiram.....	400	July 5, 1892
Cedar south back..	Beech westerly.....	175	May 5, 1896
Central.....	Belmont to Milton.....	242	Nov. 2, 1897
Concord.....	Hall easterly.....	200	Sept. 6, 1896
Dover.....	Clinton northerly.....	161	" 4, 1894
Elm.....	Shasta to Baker.....	332	May 6, 1890
	Railroad bridge to Elm avenue.....	1,373	
Elm.....	Munroe south back to Clarke.....	851	June 4, 1895
Elm.....	Trenton to Rowell.....	944	Feb. 4, 1896
Foster avenue.....	Valley to Hayward.....	540	July 14, 1896
Front.....	Eddy to north of hotel.....	2,800	Sept. 5, 1893
Grove south back..	East of Union to Beech.....	302	" 7, 1897
Grove south back..	Wilson easterly.....	200	Nov. 2, 1897
Hale.....	Schiller southerly.....	450	" 9, 1894
Hanover.....	East of Alfred to Highland.....	134	Jan. 4, 1897
Harrison.....	Belmont westerly.....	65	Sept. 1, 1896
Harvard.....	Beech to Maple.....	650	Nov. 2, 1897
Harvell.....	Hale to South Main.....	700	" 9, 1894
Hayward.....	Belmont to Cypress.....	1,396	Sept. 7, 1897
Hayward.....	Jewett easterly.....	300	" 3, 1895
Hevey east back...	Wayne northerly.....	146	Jan. 7, 1896
Hevey east back...	South of Amory to Columbus ave.....	396	July 10, 1893
Lowell.....	Belmont to Beacon.....	500	Aug. 6, 1895
Maple.....	North of Harvard to Prescott.....	234	Sept. 1, 1896
Maple.....	Prescott to Hayward.....	320	Nov. 2, 1897
Milford.....	Amherst road westerly.....	300	Jan. 4, 1897
Orange.....	Belmont westerly.....	65	Feb. 4, 1896
Prescott.....	Wilson easterly.....	208	Sept. 7, 1897
Prospect.....	Hall easterly.....	100	" 3, 1895
Putnam.....	Bow to Whipple.....	164	Oct. 5, 1897
Rimmon east back.	Kelley to Mason.....	1,400	Sept. 7, 1897
River road north..	Clarke to Park avenue. Proposed.	1,450	Nov. 2, 1897
Sagamore.....	Linden westerly.....	148	" 10, 1896
Schiller.....	Hale to South Main.....	850	" 10, 1896
Second.....	Blaine to Hiram.....	400	July 5, 1892
Second.....	South of Schiller to Harvell.....	160	Dec. 3, 1895
Somerville.....	Wilson to Hall.....	510	Nov. 2, 1897
Spruce.....	East of Canton easterly.....	110	Jan. 7, 1896
Taylor.....	Valley northerly.....	400	Sept. 7, 1897
Tilton.....	South of Milford to Bowman place	233	June 4, 1895
Union.....	Clarke to Trenton.....	1,700	July 2, 1895
Union.....	North of Prescott to Hayward.....	192	Sept. 7, 1897
Union.....	Silver to Plummer.....	350	" 3, 1895
Union east back...	South of Christian brook southerly	50	Aug. 6, 1895
Valley.....	Cypress westerly.....	133	Jan. 4, 1897
Valley.....	Elm to Wilson.....	4,040	Nov. 7, 1893
Valley.....	Jewett to Foster avenue.....	248	July 14, 1896
Walnut.....	Salmon southerly.....	105	June 29, 1897
Walnut east back..	Salmon northerly.....	200	Nov. 10, 1896
Wayne.....	Whipple to Bartlett.....	500	Oct. 5, 1897
West.....	Clinton northerly.....	226	Sept. 4, 1894
Wentworth.....	Schiller southerly.....	400	" 5, 1895
Whipple.....	Putnam to Wayne.....	536	Oct. 5, 1897
Wilson.....	South of Silver to Somerville.....	249	Aug. 7, 1894
Total.....		34,015	

Equaling 6.442 miles.

This comprises all the work that has come within the province of the committee on sewers and drains, and is respectfully submitted.

JOHN F. FROST, *Chairman,*
GILLIS STARK,
MURDOCK A. WEATHERS,
WILLIAM WATTS,
JOSEPH D. MASSE,
Committee on Sewers and Drains.

W. H. BENNETT,
Clerk of Committee.

REPORT OF THE COMMITTEE ON STREETS.

The annual report of the committee on streets, prepared by the city engineer as clerk of the committee, is herewith presented:

MANCHESTER, N. H., December 31, 1897.

Gentlemen of the City Councils:

The committee appointed by your honorable board, to act as the joint standing committee on streets, would submit the following report of the work done by them and under their direction the present year:

The committee has held eight meetings, as follows: February 25, April 5, May 25, June 18, July 8, August 31, October 14, October 21.

Number of petitions received, 41; laid over to 1898, 4; laid over until Rule 29 was complied with, 3; where orders to establish grades were recommended, 11; recommended leave to withdraw, 4; recommended to a hearing, 19; total, 41.

The committee has carefully examined the location in all cases where petitions to establish grade were presented, the situation being explained by the city engineer before orders were prepared for introduction into the council. Among the more important were Nutt road and Baker street; Jones, Nelson, and Benton streets, Hall and Mammoth roads in the Dr. C. M. Dodge land, and Bartlett street in the Whittemore section.

In three cases, William, Adams, and Hall streets, the petitioners were instructed regarding Rule 29, and your committee, acting under its provisions, voted to recommend that the petitions be laid over until the rule had been complied with. The expense for building these

streets would have been considerable and as they were not of great public necessity the above action was taken.

The residents of South Beech street being desirous of securing a means of reaching the electric cars on Calef road by some route nearer than Mitchell street or by passing over private land petitioned for a highway. Two petitions were presented, one calling for the laying out of Norfolk street from Beech street to the Calef road, and the other for Titus avenue from Union street to the Calef road. The city engineer was instructed to make surveys of the section to determine if a more feasible route could be selected. The conclusion reached was that the Titus avenue route would call for the least expenditure of money, and the former petition was denied, a hearing being granted on the latter petition. As the parties interested would not waive damages, the highway was not laid out.

In one instance, Somerville street between Hall and Belmont, the committee departed from present custom and recommended the laying out of a highway where it was necessary to purchase the land. The residents of Belmont street, south of Young street, having no means of reaching the section west of them except by a round-about route, petitioned for the highway. Upon examination by the committee, it was considered to be a public necessity and the petition was reported on favorably.

Considerable time has been spent in discussing the merits of the petition for laying out the Moss road, from the Bald Hill road northerly. As your board is doubtless familiar with the situation, extended explanation is unnecessary. The committee carefully examined the locality and at a conference heard all parties who appeared either for or against the petition. As no agreement could be reached, the matter was laid over until the first meeting in 1898.

The petitioners asking for the laying out of Beech

street from Salmon to Webster were given leave to withdraw, as the benefits to be derived would not be commensurate with the expense of building. A fill of considerable extent would have to be made, and two culverts constructed on the line of the street, besides removing a portion of a ledge and many large boulders.

The petition for the extension of Schuyler street was also denied. The situation here was such that there was liability of a suit against the city for damage to abutting property if the street was laid out and built.

RULE 29, BOARD OF MAYOR AND ALDERMEN.

Passed April 21, 1897.

Rule 29. No petition for the laying out of any street or highway shall be considered by the board of mayor and aldermen unless it shall be accompanied by an agreement, signed by responsible parties, that said highway, if laid out by the board of mayor and aldermen, shall be built and graded to the satisfaction of the board of street and park commissioners, without expense to the city, or by a certificate from said board of street and park commissioners that said asked for highway has already been built and graded to their satisfaction, without expense to the city, except in cases where two thirds of the board of mayor and aldermen shall deem the same to be of great public necessity; and upon the presentation to said board of mayor and aldermen of any such petition, not accompanied by such agreement or certificate, the mayor shall, by virtue of this rule, declare forthwith that such petition is denied, subject to a motion of any alderman that the public necessity requires the consideration of such petition, and its adoption by a two thirds vote, as aforesaid.

Petitions.

The following is a list of the petitions referred to the committee and the action taken upon them:

COLUMBUS STREET. For a new highway in said city, beginning at a stake at the intersection of Amory and

Columbus streets, and thence in a southerly direction about 400 feet to a stake in said street, as shown on plan of said section.

P. Hevey and others.

Committee voted to recommend that a hearing be granted, April 5, 1897.

BROCK STREET. For establishing grade of the highway in said city, beginning at a stone bound in the line of Mast street, opposite the land of J. P. Brock, thence in a westerly direction to Forest street.

C. A. Brooks and others.

Committee voted to recommend an order to establish the grade as shown by the city engineer's plans, April 5, 1897.

TITUS AVENUE. For a new highway in said city, beginning at a stake on the westerly line of the proposed Union street and in the center line of Titus avenue, as laid out by the board of mayor and aldermen, May 21, 1894, said stake being about 540 feet west of Beech street, and thence in a westerly direction with Titus avenue already laid out, to a stake on the easterly line of Calef road, meaning an extension of Titus avenue from Union street to Calef road.

B. B. Aldrich and others.

Committee voted to recommend that a hearing be granted, May 25, 1897.

SOMERVILLE STREET. For a new highway in said city, beginning at a stake on the east line of Hall street and on the south line of lot No. 10, as shown on the Hoyt plan of lots in said section, said stake is on the north line of Somerville street, produced easterly across said Hall street, and thence in an easterly direction about 304 feet to a stake on the westerly line of Belmont street, said street being a proposed extension of Somerville street.

John Muir and others.

Committee voted to recommend that a hearing be granted, May 25, 1897.

NORFOLK STREET. For a new highway in said city, beginning at a stake on the west line of Beech street, and on the north line of Norfolk street proposed, said stake is about 1,878 feet south of the south line of Mitchell street already laid out, and thence in a westerly direction to a stake on the easterly line of Calef road. Said stake is on the north line of Norfolk street proposed.

Frank E. Webster and others.

Committee voted to recommend that leave to withdraw be granted, May 25, 1897.

WILLIAM STREET. For a new highway in said city, beginning at the intersection of Milford and William, and thence in a northerly direction on said William street to Mast street, and the said street to be 40 feet wide, as shown on Riddle's plan of land.

John A. Riddle and others.

Committee voted to adhere to Rule 29, and when street is graded to consider petition, June 18, 1897.

BEECH STREET. For a new highway in said city, beginning at a stone bound set in the ground at the intersection of the center lines of Beech and Salmon streets, being the northern terminus of Beech street as laid out by the board of mayor and aldermen, June 27, 1894, and thence in a northerly direction to a stake in the center of Webster street, and on the center line of Beech street extended, being an extension of Beech street as shown on the city and Amoskeag Manufacturing Company's plan of lots and streets.

M. D. Johnson and others.

Committee voted to recommend that leave to withdraw be granted, May 25, 1897.

ALFRED STREET. For a new highway in said city, beginning at the intersection of Hanover street and Alfred street as already laid out, thence extending southerly across Hanover street, through land of the estate of A. G.

Fairbanks and land of Bodwell and Balch to Merrimack street, being an extension of said Alfred street in a southerly direction, said street being required for the extension of water and sewer pipes.

J. A. Hutchinson and others.

Committee voted to recommend that a hearing be granted, May 25, 1897.

LAVAL STREET. For building to grade the highway in said city, beginning at Amory and Laval, and thence in a northerly direction through Laval street to Kelley street.

John B. Favreau and others.

Committee voted to recommend that leave to withdraw be granted, June 18, 1897.

NEW STREET. For a new highway in said city, beginning at a stake on the west line of Rockland avenue, so called, and on the south line of land of the city of Manchester, and on the north line of land of Mr. Farrar, and thence in a westerly direction to a stake on the city line at a point 25 feet south of the land of D. H. Lamphrey.

William F. Alger and others.

Committee voted to recommend that a hearing be granted, April 5, 1897.

CARTIER STREET. For a new highway in said city, beginning at a stone bound in the center of Kelley and Cartier streets, being the northerly terminus of Cartier street already laid out by the board of mayor and aldermen, and thence in a northerly direction about 400 feet, to a stake on the westerly line of Coolidge avenue, and in the center of said Cartier street, according to the Amoskeag Manufacturing Company's plan.

Medard Poulin and others.

Committee voted to recommend that a hearing be granted, April 5, 1897.

SCHUYLER STREET. For a new highway in said city, beginning at a stone bound at the intersection of Beaufort and Schuyler streets in West Manchester, as shown on the Amoskeag Manufacturing Company's plans, and thence in a westerly direction over Schuyler street about 125 feet, to a stake on the line of the back street. Said stakes are on the center line of said Schuyler street.

George D. Herbert and others.

Committee voted to recommend that leave to withdraw be granted, June 18, 1897.

BAKER STREET. For establishing the grade of the highway in said city, beginning at Baker street and Nutt road, and thence in a westerly direction on Baker street to the Manchester & Lawrence Railroad.

Timothy McKenna and others.

Committee voted to recommend that grade be established according to city engineer's plan, May 25, 1897.

NUTT ROAD. For establishing the grade of the highway in said city, beginning at Baker street and Nutt road, and thence southerly on Nutt road to Beech street.

Timothy McKenna and others.

Committee voted to recommend that grade be established according to city engineer's plan, May 25, 1897.

RAY STREET. For a new highway in said city, beginning at a stake in the center line of Carpenter and the center line of Ray street proposed, as shown by plans of said section, said section is about 1,115.82 feet east of the east line of Elm street, and thence in a northerly direction to a stake on the south line of land of E. O. and J. E. Dodge, and being on the center line of Ray street proposed.

F. E. Putney and others.

Committee voted to recommend that a hearing be granted, May 25, 1897.

HARVARD STREET. For a new highway in said city, beginning at stake on the westerly line of land owned by Gilman Clough, this being the easterly end of Harvard street now laid out, and thence in an easterly direction to a stake on the east line of Hall street through said Harvard street.

Alfred D. Plummer and others.

Committee voted to recommend that a hearing be granted, May 25, 1897.

SUMMER STREET. For a new highway in said city, beginning at a stake in the center line of Beech street and the center line of Summer street, said stake is 270 feet south of the stone bound in the center of Auburn street and on the center line of Beech street, and thence in an easterly direction to a stake about 125 feet east of the east line of Beech street, and in the center of Summer street proposed.

Margaret Gorman and others.

Committee voted to recommend that a hearing be granted, May 25, 1897.

ADAMS STREET. For a new highway in said city, beginning at a stake on the north line of Carpenter street, and in the center line of the proposed Adams street, said stake is 245 feet east of the east line of Chestnut street already laid out, and thence in a northerly direction to a stake on the south line of Trenton street, said stake is 245 feet east of the east line of Chestnut street, and known as Adams street on the plans of said section.

H. J. Lawson and others.

Committee voted to recommend that it be laid over until petitioners complied with Rule 29, May 25, 1897.

MAMMOTH ROAD, NELSON, JONES, BENTON, AND HALL ROAD. For establishing the grade of the highways in said city, as follows:

On Mammoth road, from the Concord & Portsmouth Railroad to line of Stevens property.

On Nelson street, from Mammoth road to the Hall road.

On Jones street, from Nelson to the Stevens property.

On Hall road, from the Concord & Portsmouth Railroad to the Stevens property.

On Benton street, from Hall road to Jones street.

Gilman Clough and others.

Committee voted to recommend that grade be established according to city engineer's plans, June 18, 1897.

PUTNAM STREET. For a new highway in said city, beginning at a stake on the Amoskeag Manufacturing Company's land, in the center line of Putnam street proposed, as shown on a plan of said section known as the D. C. Whittemore plan of lots, and thence in a westerly direction to a stake in the center line of Whipple and the center line of Putnam proposed.

Lazare Martineau and others.

Committee voted to recommend that a hearing be granted, June 18, 1897.

MAST ROAD. For a new highway in said city, beginning at a point on the north side of Mast street, thence in a northerly direction to the old Goffstown line, meaning that portion of the new Mast road that formerly belonged in Bedford.

C. H. George and others.

Committee voted to recommend that a hearing be granted, June 18, 1897.

MAPLE STREET. For a new highway in said city, beginning at a stake in the south line of Hayward street, and in the center line of Maple street as laid out by the board of mayor and aldermen, August 5, 1873, and thence in a southerly direction and parallel to Beech, to a stake in the center line of Shasta street.

Charles A. Flint and others.

Committee voted to recommend that a hearing be granted, July 8, 1897.

DUBUQUE STREET. For a new highway in said city, beginning at a stake standing at the center of Kelley and Dubuque streets, as shown on the plans of said section in West Manchester, and thence in a northerly direction to a stake in the center of Mason and Dubuque streets.

John Corliss and others.

Committee voted to recommend that a hearing be granted, July 8, 1897.

WAYNE STREET. For establishing the grade of the highway in said city, beginning at the back street between Dubuque and Rimmon streets, on Wayne street, and thence in a westerly direction about 270 feet to Hevey east back street.

Joseph Minigan and others.

Committee voted to recommend that grade be established according to city engineer's plan, July 8, 1897.

WALNUT EAST BACK STREET. For a new highway in said city, beginning at Salmon street, between Walnut and Beech streets, thence in a southerly direction about 250 feet.

George D. Fitts and others.

Committee voted to recommend that a hearing be granted, August 31, 1897.

MOSS ROAD. For a new highway in said city, beginning at a stake on the north side of the Bald Hill road, and about 2 rods westerly of the west line of Frank Goings's house, and thence in a northerly direction about 92 rods, to a stake on the Range line, and said stake is on the south side of the house of John Moss.

John Moss and others.

Committee voted to notify Messrs. Moss and Goings to appear before them for a conference, Oct. 14, 1897. Con-

ference was held Oct. 21, and matter laid over until first meeting in 1898.

“LANDING.” For discontinuing a highway in said city, beginning at the easterly line of South Main street, and known as the “Landing,” and thence in an easterly direction to the Piscataquog river, meaning and intending to discontinue so much of the “Landing” as lies east of the east line of South Main street.

Fred G. Stark and others.

Committee voted to recommend that a hearing be granted, August 31, 1897.

LOG STREET. For a new highway in said city, beginning at a stake at the intersection of the south line of Log street, and the east line of South Main street, said stake is 241.32 feet north of the north line of West Hancock street, and thence in an easterly direction over the proposed Log street to a stake on the westerly line of Colby street, said stake is 220 feet north of West Hancock street, measuring on the line of said Colby street as shown by a plan of the New Hampshire Improvement Company's of said section.

Fred G. Stark, for New Hampshire Improvement Company, and others.

Committee voted to recommend that a hearing be granted, August 31, 1897.

DARTMOUTH STREET. For a new highway in said city, beginning at a stone bound in the intersection of the north line of West Hancock street and the westerly line of Dartmouth street, and thence in a northerly direction over the proposed Dartmouth street, to a stone bound on the south line of Log street, and the westerly line of Dartmouth street, as shown on a plan of said section, known as the New Hampshire Improvement Company's plan.

Fred G. Stark, for New Hampshire Improvement Company, and others.

Committee voted to recommend that a hearing be granted, August 31, 1897.

BARTLETT STREET. For establishing the grade of the highway in said city, beginning at Amory street extension and Bartlett street, and thence in a southerly direction over Bartlett street to its terminus south of Sullivan street.

Leonard Grenier and others.

Committee voted to recommend that grade be established according to city engineer's plan, Oct. 14, 1897.

SOMERVILLE STREET. For a new highway in said city, beginning at a stake in the center line of Belmont, and said stake is in the center line of Somerville street, as laid out by the board of mayor and aldermen, August 25, 1897, and thence in an easterly direction to a stake in the center of Cypress street, being an extension of Somerville as shown by the city's plan of streets.

S. R. Stearns and others.

Committee voted to recommend that a hearing be granted, October 14, 1897.

HALL STREET. For a new highway in said city, beginning at a stake in the north side of Prospect street as now laid out, and in the center of Hall, and thence in a northerly direction to a stake on the north line of Gore street, and in the center line of Hall street.

Edward Belanger and others.

Committee voted to recommend that it be laid over until petitioners had complied with Rule 29, October 14, 1897.

LAFAYETTE STREET. For establishing the grade of highway in said city, beginning at Amory and Lafayette

streets, and thence in a northerly direction on Lafayette street to Kelley street, as shown on plan No. 4093, on file in city engineer's department.

F. P. Nourie and others.

Committee voted to recommend that grade be established according to city engineer's plan, Oct. 14, 1897.

CLAY STREET. For a new highway in said city, beginning at a stake at the intersection of the center line of Clay street and the east line of Beech street, said stake is about 199 feet north of the Concord & Portsmouth Railroad right of way, and thence in an easterly direction about 120.17 feet to a stake on the west line of the L. B. Bodwell land, and in the center line of Clay street.

J. P. Russell & Co. and others.

Committee voted to recommend that a hearing be granted, October 14, 1897.

DUBUQUE STREET. For a new highway in said city, beginning at a stake standing at the center of Kelley and Dubuque streets, as shown on the plan of said section in West Manchester, and thence in a northerly direction to a stake in the center of Bremer and Dubuque streets.

John Corliss and others.

Laid over until first meeting in 1898.

HIGHLAND PARK AVENUE. For establishing the grade of the highway in said city, beginning at the intersection of Highland Park avenue and the Candia road, and thence in a northerly direction over Highland Park avenue to the Concord & Portsmouth Railroad right of way.

George W. Hamlin and others.

Laid over until first meeting in 1898.

OAKLAND AVENUE. For establishing the grade of the highway in said city, beginning at the intersection of Oakland avenue and Revere avenue, and thence in an

easterly direction to about 103 feet east of Woodland avenue, over Oakland avenue.

George W. Hamlin and others.

Laid over until first meeting in 1898.

This comprises all the work that has come within the province of the committee on streets, and is respectfully submitted.

J. T. GOTT, *Chairman*,
CHARLES E. COX,
D. L. ROBINSON,
JAMES F. WYMAN,
EDMOND PINARD,

Committee on Streets.

W. H. BENNETT,
Clerk of Committee.

This department has been without the services of one assistant this year, and considerable of the work that had been planned for had to be left undone. The refusal of the finance committee to make a sufficient appropriation to permit of employing additional assistants was responsible for this state of affairs. With the utmost economy it was impossible to avoid overdrawing, as a reference to page three will show. Had it not been for the sickness of one of the assistants and the absence of another from the city for a portion of the time the amount would have been much larger. Reference to the reports sent out by other cities shows that the amounts appropriated by them are greatly in excess of that allowed this department, and by cities oftentimes not as large as Manchester. It is hoped that the matter will be looked at in the proper light, and a sufficiently large appropriation given to allow of important work to be done which will be of inestimable benefit to the city in future years.

STREETS.

Nothing of importance can be said regarding the laying out of streets the past season. Since the adoption of Rule 29, requiring the abutters to build the street to a satisfactory grade before it is accepted, there has been a noticeable improvement in the streets laid out. Only three cases have occurred where the streets asked for were denied on account of the provisions of this rule. One has been laid out where land damages were paid, as it was considered a public necessity.

There has been quite a falling off in the number of new streets projected the past season. For the past five or six years every one owning a piece of land immediately cut it up into house lots and put them on the market. Consequently there was an over supply, and prices as a rule went down. Possibly the prevailing hard times had something to do with it, but the fact remains that people as a general thing are not investing in suburban real estate with the avidity they displayed a few years ago.

As has been said in former reports, it is greatly to be regretted that those having property to divide paid so little attention to existing streets. In some of the new sections care has been taken to have them conform to a regular plan, with streets of suitable width, and with back streets between the lots. For the most part, however, little regard was paid to this, the main object seeming to be to lay out as many lots as possible regardless of the conveniences furnished in the matter of streets.

Street lines too long neglected are liable to involve a city in legal difficulties, and cause it considerable expense, as many cities are finding out if reports from these cities are true.

It is one of the curious features of municipal government that street lines and grades are rarely fixed on a comprehensive, well-digested plan at a time when the

property concerned is of small value. Generally nothing of the sort is done until the land is so well built up that the problem cannot be solved without damages to some parties, and when this occurs the unfortunate city engineer, who has little to do in the matter beyond carrying out the city council's orders, is the one called on to bear all the blame.

Considerable attention has been paid to locating and setting stone bounds the past season. Whenever practicable a bound has been set in place of the hub on the corners of new streets, and in a majority of cases the bound has been set at grade. It has been the aim of this department to encourage the marking of corners by permanent bounds, and in several cases stones have been furnished to engineers who were willing to set them.

ROAD SURVEYS.

The surveys made of the Proctor road, Lake Shore road, and Island Pond road have been plotted, and the lines established as far as possible with the data obtainable.

On the Lake Shore road little was found to mark the original line, and it was necessary to fix a line agreeable to the abutters. This has been done and the line marked on the ground a portion of the distance. Along the city land, between the railroad and the Proctor road, the highway has been straightened by carrying the road wholly to the east, thereby avoiding the numerous sharp turns. Nothing has been done yet about building the road to the new line.

On the Kennard road the lines have been established to the satisfaction of the abutters, and stone bounds set at the Smyth road and at the angle near the Mammoth road.

It was the intention of this department to have completed the surveys of other roads, but matters pertaining

to the town line survey coming up it was found impossible to do so. As has been stated in former reports, the sooner this work is done the better, as each year makes the work of re-locating old points more difficult. In many cases the points are entirely destroyed, and the method followed has to be similar to that employed on the Lake Shore road.

The situation on the New Mast road remains unchanged. Stakes have been set showing the lines as called for by a 66-foot right of way. A petition was presented, asking for the establishing of the lines by the board of mayor and aldermen. As the lines had already been marked according to the original records of the layout by the county commissioners and by the town of Bedford, no action was deemed necessary and the petition was dismissed.

SEWERS.

The amount of sewers built the past season has been considerably less than for the two previous years, due to the fact that many of them have been through ledge, making the progress necessarily slow and expensive. As instances may be mentioned Elm street from Carpenter to Trenton; Carpenter street from Elm to Union; portions of Hall, Harrison, Hanover, Laurel, Linden, Merrimack, Orange, Sagamore, Somerville, Third, Walnut, and Walnut east back streets, and in the Whittemore section. The work progressed as rapidly as possible, and the showing made was remarkably good considering the difficulties encountered.

When the Massabesic-street main was laid in 1890, considerable fault was found, by those who could not understand the situation, because of the depth at which it was placed. When in 1892 that portion from Cypress to Jewett street was built, the grade was raised and the sewer laid on top of the ledge as a temporary makeshift.

As the original idea was to provide for the drainage of the section between Cypress street and the Mammoth road, comprising some 300 acres, it was necessary to keep as low as possible at Cypress street. This was understood by the committee, and the expectation was that the portion between Cypress and Jewett streets would have to be relaid. This will probably have to be done the coming season, as petitions are to be presented for sewers in Jones, Nelson, and Benton streets to drain that rapidly growing section. It is but a matter of time also when the sewer will have to be extended to the section east of the Mammoth road and north of the Candia road, where there are some fifty dwellings built and occupied, and which are all without means of disposing of their sewage, unless by the primitive method of sinking a barrel in the lot and connecting therewith.

In connection with this, however, the fact should be borne in mind that the outlet of the Massabesic-street main is not large enough to properly take care of all that is discharged into it at present, and the additional amount coming from these new sections would so far overtax its capacity as to be productive of injury to the sewer, and possible damage to the surrounding property. The plan adopted in 1888 calls for a main running from Elm street easterly through the valley to the junction of Massabesic and East Spruce streets to take the discharge from that section of East Manchester now running into Massabesic street main, and also from future extensions in Hall, Belmont, and surrounding streets. This main has already been built as far as Pine street in Auburn street, and some provision should be made for continuing it before any further extensions are made in East Manchester.

The section drained by the Amherst-street sewer is badly in need of improved facilities. The Amherst-street main is not large enough, and the laterals are overcrowding it more each year. The necessity of relaying it has

been frequently mentioned, and it is apparent that something must be done before the sanitary condition of that section can be much improved.

The usual amount of sub-mains and laterals have been constructed, and, everything considered, the showing made has been excellent. On the east side 15,236 feet of new sewers have been laid and 954 feet relaid. In connection with these 58 manholes and 8 lampholes have been built, and 457 Y branches have been put in for house connections and 65 for cesspool connections. The total cost has been \$29,404.82. The average cost per foot in district No. 2 has been \$2.009; in district No. 7, \$1.315. On the west side 3,291 feet of new sewers have been laid and 1,176 feet relaid. In connection with these 17 manholes have been built; 120 Y branches have been put in for house connections and 21 for cesspool connections. The total cost has been \$6,853.59, the average cost per foot being \$1.534.

The report of the committee on sewers and drains, on the preceding pages, and the report of the street and park commissioners, will give an account of the work more in detail.

SEWER LICENSES.

In compliance with the orders of the board of mayor and aldermen, passed November 19, a list has been prepared of all persons whose property abuts on a street where there is a sewer, or who can connect with a sewer within a reasonable distance, for the purpose of ascertaining whether they were connected and whether they had paid the required license. The work has been thoroughly done, all the office records have been looked through, and frequent comparisons made with the assessors' books and those of the tax collector whenever any question arose as to a transfer of property. Only the east side has been taken up as yet, and some over 400 have been found who

have not paid for their licenses. The work will be continued on the west side as soon as it can be reached.

In looking up those who had not paid their sewer licenses a radical change suggested itself which will greatly assist the proper authorities in attending to delinquents. Heretofore, when the sewer was laid in any street, the abutters were supposed to secure their permit and license and connect with the sewer. In some cases this would not be attended to and when at the end of the year the returns were made up the fact would be discovered. It is now proposed to remedy this by ascertaining all the abutters before work is commenced, and as fast as they obtain their permit and make their connection to check their names. Those who fail to comply with the law in this respect will be reported to the proper authorities and immediate action can be taken. While this may entail increased work by this department during the summer, it will mean less work at the close of the season.

During the latter part of last year work was commenced on a new set of sewer books. Formerly everything was kept in one large book which, through the rapid growth of the city in all directions, has become inadequate to show all that was required. The new set will probably consist of five volumes, three for the city proper and two for the west side. At present two of the books are practically completed. They show the streets, lots, and sewers with the street and lot number and owner's name. Whenever the license has been paid the fact is recorded, together with the amount and date when paid. When the books are completed it will greatly simplify the office work in this line, as it will only be necessary to add from time to time the licenses that are taken out and the new sewers that are built.

PAVING.

Agreeable to the requests of the board of street and park commissioners, a sum was set aside for repaving Elm

and Granite streets. The work was commenced early in the summer, and Elm street from Manchester to Stark now possesses as fine a pavement as can be found in the country. The old pavement was torn up and a sufficient depth of earth removed to allow a six-inch foundation of broken stone and cement to be laid and thoroughly packed. This was covered with a coating of cement on which were laid paving stones "Boston block" sizes. The interstices were thoroughly filled with liquid cement grout and a layer of the same spread over the top surface. The cement was allowed to thoroughly harden before the street was opened to traffic, and as a consequence the roadway is now one solid mass, as firm and unyielding as a granite rock.

It was decided to concrete Granite street in place of paving, between Turner and Main streets and on Main street as far south as School street. Practically the same method was followed as on Elm street. A five-inch course of cement and broken stone was put in, covered with a two-inch layer of sand. On this was laid a sub-foundation of medium cobbles covered with hot tar. These were in turn covered with the regular concreting material and the whole painted with asphaltum. The roadway thus obtained will wear for years and is much more satisfactory to the residents of that section than paving stone. A portion of Granite street between the canal and the river was also repaved, using the old stone where practicable. This was laid without the cement bed, as it was in the nature of temporary repairs.

CEMETERIES.

Considerable work has been done in the Pine Grove cemetery during the past season. It was decided by the trustees to grade a portion of the southern section, including a part of the land purchased of the late C. C. Webster. Accordingly cross-section levels were taken over about

seven acres, and stakes set for the part where the work was to be done. Three main avenues through this section were also laid out.

In the section bounded by Greenbush, Short, and Riverside avenues and Hemlock path, stakes were set for grading. After the grading was done the lots were relocated. Grade stakes were also set for the work to be done on the north end of Pine Lawn.

Several sketches were made for the layout of the new Swedish section, and a number of the lots and ranges were staked out. It was finally decided by the two societies to have separate sections and new plans were prepared. Upon their acceptance by the committees and the cemetery trustees the lots and ranges were laid out in accordance with them. A number of lots were also laid out on that portion of Chapel Lawn which was graded last year.

In this connection might be suggested the advisability of remodelling the plans for the north end of Chapel Lawn. Before the city acquired possession of the land lying north of the original north line of the cemetery, it was designed to run an avenue parallel to the north line and the lots were laid out with that idea in mind. Under the present existing conditions this will not be necessary or desirable, as a much better layout can be obtained by following out the lawn system with winding walks and paths. In order to do this it will only be necessary to make a few changes in the plans, and the benefit accrued in added beauty will more than compensate for the slight expense incurred.

Little work has been done in the Valley cemetery this year, and that mostly confined to suggestions given the superintendent, at his request, concerning the work. Batters were set on the Pine-street side, where the foundation to the iron fence was raised to conform to the grade of the street.

The Merrill yard plan has been completed and the lot lines established as accurately as possible with the limited data obtainable. It was the intention of this department to relocate the lots on the ground, but this was found impossible on account of the pressure of other work this fall.

PARKS.

In Stark park line and grade has been given for the main avenues running north and west of the burial lot. Considerable time was required on account of the necessity of relocating points that had been destroyed through various causes. Lines were also given for the national colonnade of trees on the north, south, and east sides.

In making the plans for the park the landscape gardeners failed to provide for an avenue south of the burial lot for the convenience of those desirous of returning that way rather than retrace their steps over the avenue on the north side. In compliance with the wishes of the park commissioners a plan was prepared by this department remedying this oversight.

In Derryfield park instructions were given the superintendent regarding the construction of the path leading from the main avenue to the Weston Observatory and the lines marked on the ground.

STREET RAILWAY.

The only work done in connection with the street railway has been that occasioned by the rebuilding of the Calef road and Baker street. Stakes were set for the gutter from Baker street to the Pine Grove cemetery, and lines of levels taken for computing the amount of earth removed from the roadway. This latter was only a waste of valuable time, as an account was kept of the number of carloads delivered at the cemetery and the dirt paid for accordingly. On Baker street stakes were set for the gutters from Elm street to Calef road.

TOWN LINES.

In compliance with the statutes requiring the town lines to be perambulated every seven years, the city engineer has this year personally visited every bound on the line, in company with the selectmen of the various adjoining towns, and renewed the marks and bounds where necessary. In some cases new bounds were set where the old ones were in danger of being obliterated by the action of the elements.

It was thought advisable to run a portion of the line between the city and Hooksett, as some doubt was expressed as to whether the bounds were on a straight line as the description called for. This was accordingly done and they were found not to be on line. The state of affairs was reported to the selectmen of Hooksett, and a plan prepared showing the situation. After thoroughly considering the matter it was decided to reset the bounds on the correct line, replace two that were insecure, and set three additional at prominent points on the line. The work was done by this department and the line afterwards perambulated in company with the Hooksett authorities. A portion of the expense of surveying the line and setting the bounds was borne by the town of Hooksett. The street and park commissioners kindly furnished the stone bounds gratuitously, thereby considerably lessening the expense.

Whenever time can be found for the work, it would be advisable to make a survey of portions of the other lines in as thorough a manner as this line has been run. As an instance may be mentioned the entire line between the city and Bedford, and that part of the line between the city and Goffstown that lies between the Bedford line and the Dow road. Land in this locality is somewhat more valuable than in the other sections and it is of importance to have the line properly marked.

Whenever the line between the city and Auburn is run it should be done in the winter, as the major portion runs directly through Lake Massabesic and could be surveyed on the ice.

COMMITTEE WORK.

The city engineer, as clerk of the committee on streets and on sewers and drains, has attended each meeting, keeping a complete record of the proceedings, which are on file in this office.

In addition, meetings of the city government, committees on Valley cemetery, Pine Grove cemetery, city farm, lands and buildings, claims, commons and parks, the street and park commissioners, and the board of aldermen have been attended.

Besides the work before enumerated, many questions have been answered from engineers, boards of trade, and others in various cities throughout this country and Canada.

I would respectfully tender my acknowledgments to His Honor the Mayor, and the various committees of the city councils, for the support which they have given.

I also wish to acknowledge the courtesies shown by the various heads of departments, and the co-operation of the assistants of this department.

Respectfully submitted.

WINFRED H. BENNETT,
City Engineer.

JANUARY 1, 1898.

REPORT
OF THE
CHIEF ENGINEER OF FIRE DEPARTMENT.

REPORT
OF THE
CHIEF ENGINEER OF FIRE DEPARTMENT.

CHIEF ENGINEER'S OFFICE,
CENTRAL STATION, NO. 8 VINE STREET.

MANCHESTER, N. H., December 31, 1897.

*To His Honor, William C. Clarke, Mayor, and Gentlemen of
the City Councils:*

In compliance with the Laws and Ordinances of the city of Manchester, I herewith submit my nineteenth annual report (it being the fifty-second of this city) for the year ending December 31, 1897.

The department has responded to one hundred and fifty (150) alarms during the year, eighty-one (81) of which have been bell alarms and sixty-nine (69) still alarms. One of the "Stills" was in answer to a telephone message from Derry Depot, January 6, asking for help on account of the burning of Richardson's shoeshop. An engine and hose wagon with horses and a detail of men were quickly loaded on cars of the Boston & Maine Railroad, but before starting a telegram was received that the fire was under control, and we returned to quarters.

The "three twos," 2-2-2, were struck on the bells September 7, for the burning of Lake View House, at Massabesic, in Auburn. Although the distance was five miles from Central station, and the roads hard, the apparatus

drove there in season to save a number of surrounding cottages. November 5 the same call was sent out for a fire at Derry, to which one engine, hose wagon, and horses responded, with a detail of men. Owing to much delay in getting cars and locomotive at the railroad yard, much time was consumed, so that on our arrival at Derry the fire was under control and the apparatus was not unloaded. We remained there, however, a short time in case of necessity. Four of the bell alarms were false, pulled by some malicious person. The decrease of these false alarms is, in a measure, owing to the vigilance of our police officers, and, in this connection, I would recommend a change in the ordinance, making the fine for such offense not less than fifty nor more than two hundred dollars. I think this would have a beneficial effect upon the miscreants.

The value of property, where losses have occurred, as near as could be ascertained, is as follows:

Value of buildings.....	\$77,000.00	
Value of contents.....	73,208.50	
		<hr/>
		\$150,208.50
Insurance on buildings.....	\$48,475.00	
Insurance on contents.....	56,540.00	
		<hr/>
		\$105,015.00
Damage to buildings endangered.....	\$9,159.55	
Damage to contents endangered.....	14,109.95	
		<hr/>
		\$23,269.50
Insurance paid on buildings....	\$7,979.55	
Insurance paid on contents....	12,269.95	
		<hr/>
		20,249.50
		<hr/>
Net loss uncovered by insurance....		\$3,020.00

THE MANUAL FORCE

Of the department is one hundred and sixty-five (165) men, consisting of one hundred and twenty-seven (127) call and thirty-three (33) permanent men. There has been no increase in the number of permanent men during the last three years, and, while a spirit of economy seems to pervade our city, I think no such economy should be practiced as will not keep pace with its increased risks. To assist in keeping this department at its present standard and increase its efficiency, I would recommend the appointment of a permanent captain to each of the remaining companies now having "call" captains.

The force is divided as follows:

	Call.	Permanent
1 Chief Engineer.....		1
4 Assistant Engineers.....	4	
Engine Co. No. 1.....	11	3
Engine Co. No. 2.....	11	3
Engine and Ladder Co. No. 3.....	15	5
Engine Co. No. 4.....	11	3
Engine and Ladder Co. No. 5.....	16	4
Engine and Ladder Co. No. 6.....	16	4
Hose Co. No. 1.....	11	1
Hose Co. No. 2.....	11	1
Hose Co. No. 3.....	6	2
Aerial Truck No. 1.....	12	3
Chemical No. 1.....	3	2
Spare driver		1
	127	33

THE BUILDINGS.

Owing to the want of sufficient appropriations for repairs of buildings, some of the wants of this department were not supplied. I cannot refrain from again referring to the urgent need of additional stable room in the way

of box stalls at Engine and Ladder Cos. Nos. 5 and 6, to properly care for horses when sick or disabled.

The roof over the apparatus room of the Aerial truck still remains in bad condition, and ought to be raised and the south wall rebuilt and strengthened.

Hose No. 3 is still without any facilities for storage of exercise wagon, and it is exposed to the weather, much to the detriment of the wagon.

THE APPARATUS

Of this department consists of 6 Amoskeag steam fire-engines in good condition, with the exception, possibly, of two that may require new boilers, 4 hose carriages with reels, 5 hose wagons, 4 ladder trucks, one of which is an aerial truck carrying other ladders, 2 hose carriages in outlying districts, with independent companies attached, 2 hose carriages, without companies, 1 supply wagon, 7 exercise wagons, located as follows:

2 steam fire-engines, with three-horse hitch, at Central station, each with one-horse hose wagon attached.

1 steam fire-engine, three-horse hitch, with 1 two-horse hose wagon, North Main street.

1 steam fire-engine and 1 two-horse hose wagon, at corner Lake avenue and Massabesic street.

1 two-horse ladder truck at same station.

1 steam fire-engine and one-horse hose carriage, at corner of Webster and Chestnut streets.

1 two-horse ladder truck at same station.

1 steam fire-engine and one-horse hose carriage on Rimmon street, corner of Amory street.

1 two-horse ladder truck at same station.

1 one-horse hose carriage, corner Maple and East High streets.

1 two-horse combination hose wagon, South Elm street. (Bakersville.)

1 aerial hook-and-ladder truck at Central station (three-horse hitch).

1 double tank (60 gallons each) chemical engine at Central station.

1 supply wagon at Central fire station.

1 steam fire-engine (reserve) at station of Engine No. 2 (of but little use for fire purposes).

1 four-wheeled hand hose carriage at junction of Old Falls road and Front street, Amoskeag.

1 two-wheeled hose carriage, Devonshire Mills, Goffe's Falls.

1 two-wheeled hose carriage at W. P. Farmer's at junction of Candia road and Hanover street.

1 two-wheeled hose carriage, junction Mammoth road and Massabesic street (Hallsville).

7 exercise wagons, 1 at Central fire station, 1 at Engine No. 2, 1 at Engine and Ladder No. 3, 1 at Engine and Ladder No. 5, 1 at Engine and Ladder No. 6, 1 at Hose No. 2, 1 at Hose No. 3.

The boilers of Engines Nos. 1 and 6 have been in service about twenty-one years, and I have no doubt both engines will be obliged to have new ones put on during the coming year, and some minor repairs made at the same time.

During the months of April and May considerable painting and varnishing of the apparatus, that was much needed, was done, the department furnishing the stock and Driver McLeod of Engine and Ladder Co. No. 3 being detailed to do the work. The Chemical engine was repainted and varnished, the wheels of Engine No. 1 varnished, the exercise wagons of Engine and Ladder Co. No. 5 and of Hose Co. No. 2 were varnished, and the running gear of the exercise wagons of Engine Co. No. 2 and Engine and Ladder Cos. Nos. 3 and 6 painted, and the whole work varnished.

New rims to the wheels of Engine No. 5 have been furnished, being deeper and with heavier tires than formerly.

THE HORSES.

Forty-one horses are at present in use by this department, and steps should be taken at an early date to replace at least three of them.

A pair of blacks have taken the place of the grays on Engine No. 6, and a new one has taken the place of "Fannie" of Hose No. 2, that did good service in this department for *over fifteen years*.

FIRE ALARM TELEGRAPH.

At the time of submitting my previous report, I was sincerely in hopes that a storage battery would be installed before this. In the interest of economy, as well as efficiency, I urge a change from our gravity system to that of storage.

August 30 fire alarm box 91 was added to the system, located at the Children's Home, corner of Webster and Walnut streets.

September 9, while changing wires at Clapp's Corner, 'Squog, a roof structure broke, letting the wire down on the trolley wires, *which were unguarded*, causing much damage to our No. 1 circuit,—burning out four boxes upon that circuit and damaging the repeater at the Central station. Had it not been for the presence of the writer at headquarters at the time, the entire fire alarm system of the city would have been disabled.

Again, on the evening of December 24, during a heavy gale, No. 2 circuit broke on Granite street, at the Print Works gate, letting the wire on the *unguarded trolley wire*, burning out the gong at Print Works; the box and gong at Manchester Mills; box and gong at Amoskeag Mills;

and box at Stark Mills, thus depriving these three corporations of the protection of the fire alarm service for upwards of forty-eight hours. The damages in both instances were the result of neglect of the street railroad to properly guard their trolley wires, after having been duly notified by order of the city councils.

During the year eighteen new poles have been set. Wires have been changed from old poles to the top cross-arm of many new poles of the telephone and telegraph companies, and in these changes 86 two-pin, 33 four-pin, and 3 six-pin arms, 21 single, 7 double, and 2 four-pin extensions have been put up, the location of 20 "tappers" has been changed, and 8 new ones have been put in. One and one half miles of insulated tree wire, and four miles of bare wire have been run, and one mile of old wire has been taken down. About $79\frac{1}{2}$ miles of wire are now connected with the fire alarm system, 43 miles of main line and $36\frac{1}{2}$ miles of "tapper" line.

FIREMEN'S RELIEF ASSOCIATION.

The contributions from citizens to this fund have been less during the present year than in any previous year of its existence, and had it not been for a special assessment made upon the members of the department, the expense would have exceeded the receipts.

The falling off of contributions to this association is accounted for by the very liberal response to the "Manchester Union's" "Gratuity Fund," donated to Mr. Walter L. Bienus, Driver of Hose No. 1, who was injured at the fire of October 2, 1894, and has been disabled since that time. The amount raised for this purse was \$1,443.68, and emphasizes the fact that the city, as a municipality, should care for its disabled firemen, injured while in the discharge of their duties, by the establishment of a pension fund.

The receipts and expenses for the year are as follows:

Receipts.

Balance from last year's account..	\$3,699.95	
Received for membership.....	7.00	
from members, special as-		
essment	138.00	
Donation of R. D. Gay.....	5.00	
Will H. Colby.....	5.00	
Thomas Corcoran	5.00	
Jeremiah Hodge	10.00	
H. and G. B. Chandler..	10.00	
Dividends on deposits.....	129.53	
	<hr/>	\$4,008.48

Expenditures.

Paid Henry Johnson, injuries.....	\$11.00	
Thomas J. Wyatt, injuries...	27.00	
printing	2.10	
Joseph E. Merrill, secretary..	25.00	
	<hr/>	65.10
Balance in treasury.....		\$3,943.38

CONCLUSION.

I desire to extend my thanks to His Honor Mayor Clarke and the committee on fire department for the uniform courtesy they have shown me, and the interest they have manifested in the well being of this department, to the police force for their co-operation and assistance at fires. To the members of the board of engineers and the officers and men I also return my grateful acknowledgments for the assistance rendered by the faithful and efficient manner in which they have performed their duties.

Respectfully submitted.

THOMAS W. LANE,
Chief of Fire Department.

**List of Fires and Alarms Responded to During 1897,
with Losses and Insurance.**

STILL. Friday, January 1, 8.55 A. M. Four-story wooden block, corner Elm and Bridge streets, owned by Connor heirs and Weston, and occupied as tenements and stores. The escape of gas in drugstore of Snelling & Woods caused explosion, blowing out four lights of glass in show window, and causing other damage. Chemical engine responded. Value of buildings, \$10,000; damage, \$14.76; insurance, \$4,000; insurance paid, \$14.76. Value of contents, \$4,500; damage, \$7.13; insurance, \$3,000; insurance paid, \$7.13.

Box 4. Saturday, January 2, 6.03 A. M. Two-story wooden block, 663 Elm street, owned by A. D. Gooden and occupied by James J. Mulholland as liquor store. Fire caused by matches or cigar stub thrown on floor among the sawdust. Box pulled by citizen. Companies responding: Engines 1, 2, 3, Chemical, Hose 1, 3, Trucks 1, 3. Value of building, \$2,500; damage, \$5; insurance, \$1,500; insurance paid, \$5. No damage to contents.

STILL. Saturday, January 2, 6.15 P. M. Chimney fire at 64 Concord street, in tenement owned by Blood & Parsons, and occupied by John Madison. No damage. Used two charges of Pony.

STILL. Sunday, January 3, 3 A. M. A telephone message from Goffe's Falls for fire in the building owned by Frank Moore and occupied by A. N. Nettel as grocery store and postoffice. Cause unknown. Delegation of men with Engine 4, hose wagon and supply wagon responded. On arrival the fire was under control by streams from Devonshire Mills. Value of building, \$1,000; damage, \$1,000; insurance, \$600; insurance paid, \$600. Value of contents, \$2,400; damage, \$2,200; insurance, \$1,500; insurance paid, \$1,450.

Box 8. Sunday, January 3, 12.33 P. M. Explosion of gas in gasometer of the People's Gas-Light Co. on Dean street, blowing off a portion of the roof of porch, and the windows of same. Box pulled by M. A. Weathers. Companies responding: Engines 1, 4, 5. Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$20,000; damage, \$150; insurance, \$2,000; insurance paid, \$150.

STILL. Wednesday, January 6, 6.25 P. M. Chimney fire in M. Prout's block, corner Elm and Central streets, occupied by Andrew W. Gibbons. No damage. Used one charge of Pony.

STILL. Wednesday, January 6, 7.12 P. M. Word was received from Derry Depot by telephone, asking for assistance, on account of the burning of Myron Richardson's shoeshop. Engine 1 and hose wagon were soon loaded on Boston & Maine Railroad cars but, a telegram being received saying flames were under control, the apparatus was unloaded and returned to quarters at 9.15.

STILL. Friday, January 8, 10 A. M. Lamp exploded in tenement house, 221 Hanover street, owned by Dr. C. B. Sturtevant and occupied by Stanley E. Gould. Chemical engine responded, but fire was extinguished before their arrival. No damage.

STILL. Friday, January 8, 5.48 P. M. Chimney fire in three-story block, 91 Cedar street, owned by John J. Twomey, and occupied by him and several other families. No damage. Used one charge of Pony.

STILL. Sunday, January 10, 1.32 P. M. Rubbish in rear of drugstore of Charles A. Williams, corner Lake avenue and Massabesic streets, took fire from some unknown cause. Members of Engine and Ladder 3 responded. No damage.

Box 81. Monday, January 11, 7.23 A. M. Four-story brick block, 22 Concord street, owned by George B. and Henry Chandler, and occupied by several families as tenements, and grocery store and pool room on first floor.

The fire originated in the tenement occupied by Mrs. Lane, on second floor, from defective flue, and communicated to partition and roof of adjoining projection. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, and Truck 1. Value of building, \$9,000; damage, \$150; insurance, \$6,000; insurance paid, \$150.

Box 82. Tuesday, January 12, 7.48 P. M. Small woodshed in rear of 1077 Elm street, owned by estate of E. K. Rowell, and occupied by Boston Clothing Co. Fire originated from some unknown cause. Box pulled by citizen. No damage. Companies responding: Engines 1, 4, 5, and Chemical, Hose 1, 2, Trucks 1, 5.

Box 71. Tuesday, January 12, 8.57 P. M. Chimney fire at 124 Auburn street, in three-story house, owned and occupied by Patrick Brennan. Box pulled by citizen. No damage. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3.

Box 8. Saturday, January 16, 10.23 A. M. Three-story wooden tenement block, 21 Orange street, owned by heirs of Joseph B. Clark. Fire started in an unoccupied cellar among rubbish, and was extinguished without damage. Box pulled by citizen. Companies responding: Engines 1, 4, 5, and Chemical, Hose 1, 2, Trucks 1, 5.

Box 4. Monday, January 18, 4.44 A. M. Four-story brick block, 550 Elm street, owned by Blodgett & Young, and occupied by several families. Fire started in partition on third floor, but was discovered before gaining much headway. Cause, "rats and matches." Box pulled by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3. Value of building, \$6,000; damage, \$5; insurance, \$2,000; insurance paid, \$5. No damage to contents.

STILL. Tuesday, January 19, 7.15 P. M. Chimney fire in three-story wooden tenement house, 187 Manchester street. No damage. Used one charge of Pony.

Box 7. Tuesday, January 19, 7.30 P. M. Chimney fire in two-story tenement house at 60 Merrimack street. No damage. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Trucks 1, 5.

Box 21. Wednesday, January 20, 6.23 A. M. Chimney fire in tenement block owned by Nason Hall. Box pulled by citizen. No damage. Companies responding: Engines 1, 3, Chemical, Hose 1, Trucks 1, 3.

STILL. Wednesday, January 20, 11.55 A. M. Chimney fire in cottage house, 35 Lake avenue, owned by P. Harrington. No damage. Used one charge of Pony.

STILL. Wednesday, January 20, 4.40 P. M. Chimney fire in two-and-half-story dwelling, 27 Wilton street, owned and occupied by Benjamin Leacock. No damage. Used one charge of Pony.

STILL. Sunday, January 24, 8.56 P. M. Chimney fire in tenement block, 273 Chestnut street, owned by Emma Smith and occupied by several families. No damage. Used two charges of Pony.

STILL. Thursday, January 28, 7.45 P. M. Chimney fire at 4 Langdon block, West Brook street. No fire on arrival, and no damage.

STILL. Saturday, January 30, 9.05 A. M. Chimney fire at 419 Lake avenue, in house owned and occupied by Margaret Cronin. Members of Engine and Ladder No. 3 responded. No damage. Used one charge of Pony.

STILL. Tuesday, February 2, 12.31 P. M. Chimney fire in tenement block, 151 Hanover street, owned by W. G. Colcord and occupied by several families. Chemical engine responded.

STILL. Friday, February 5, 7.30 P. M. Chimney fire in tenement house, 36 Amory street, owned by Joseph Quirin. Members of Engine and Ladder No. 6 responded. Used one charge of Pony.

Box 7. Saturday, February 6, 1.58 A. M. Four-story brick block, 43 Manchester street, owned by Edward Wag-

ner and occupied by W. H. Hurd as saloon. The fire originated in rear of saloon, near kitchen, from some unknown cause, and was confined wholly to the first story. Box pulled by officer. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building, \$20,000; damage, \$493; insurance, \$6,000; insurance paid, \$493. Value of contents, \$4,000; damage, \$1,500; insurance, \$2,000; insurance paid, \$1,500.

STILL. Saturday, February 6, 9 A. M. Chimney fire in unoccupied tenement, 58 Amory street, owned by Joseph Quirin. Members of Engine and Ladder No. 6 responded. No damage. Used three charges of Pony.

STILL. Saturday, February 6, 10.03 A. M. Chimney fire in two-story house, 81 Cedar street, owned by J. H. Butler and occupied by James Ryan and John Shea. No damage.

Box 56. Tuesday, February 9, 5.34 A. M. Barn in rear of 272 Mast street, owned by Eugene C. Smith. Breaking of a lantern set fire to hay in the loft. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6. Value of building, \$350; no damage; insurance, \$150. Value of contents, \$300; damage, \$79; insurance, \$150; insurance paid, \$79.

STILL. Friday, February 12, 12.22 P. M. Chimney fire at 73 Amherst street. No damage. Used one charge of Pony.

BOXES 54, 56, 513. Saturday, February 13, 4.33 A. M. Two-story wooden dwelling at 168 Milford street, owned and occupied by Mrs. Amanda Sargent. The cause of the fire is unknown. It was first discovered by neighbors. Mrs. Sargent, the only occupant of the house, perished in the flames. Box 513 pulled by citizen, and about the same time another pulled box 54, and about five minutes later the watchman at Baldwin's Bobbin shop pulled box 56 for same fire. Companies responding: Engines 1, 2, 4, 6, Chemical, Hose 1, Truck 6. Value of building,

\$2,000; damage, \$2,000; insurance, none. Value of contents, \$250; damage, \$250; insurance, none.

Box 14. Saturday, February 13, 9.42 A. M. Two-and-half-story dwelling, 86 Prospect street, owned by R. D. Gay and occupied by him, and Mrs. George Mollyneaux upstairs. Fire originated in upstairs tenement, caused by clothes too near hot stove. Box pulled by citizen. Companies responding: Engines 4, 5, Hose 1, 2, Truck 5. Value of building, \$4,500; damage, \$50; insurance, \$3,500; insurance paid, \$50.

STILL. Saturday, February 13, 10.42 A. M. Chimney fire in Barr & Clapp's brick block, Granite street, corner Main. Members of Engine No. 2 responded. No damage. Used one charge of Pony.

STILL. Monday, February 15, 10.10 A. M. Chimney fire in tenement, 51 Church street, owned and occupied by Mary Hastings. No damage. Used one charge of Pony.

STILL. Friday, February 19, 11 P. M. Chimney fire in two-story wooden house, 187 Hanover street, owned by John Haines and occupied by Mrs. Carey. No damage. Used one charge of Pony.

STILL. Sunday, February 21, 7.30 A. M. Members of Chemical Co. called to 954 Elm street for escaping steam in pipe. No damage.

STILL. Monday, February 22, 11.45 A. M. Wooden tenement block, owned by Robert Leggett and occupied by Cote, modiste. Fire in partition caused by faulty stove-pipe. Members of Engine and Ladder No. 6 responded. No damage. Used one charge of Pony.

STILL. Wednesday, February 24, 9.48 P. M. Chimney fire in three-story wooden block, 142 Central street, owned by Nason Hall and occupied by Mrs. Mary Rush. No damage. Used one charge of Pony.

Box 4. Thursday, February 25, 3.01 P. M. Old carriage shed in rear of 24 Spruce street damaged slightly. Caused by children playing with matches. Box pulled

by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3.

Box 312. Thursday, February 25, 5.41 P. M. Two-and-half-story house, 78 Sullivan street, owned by Anthony Fay and occupied by him and James Thompson. Cause, rubbish in cellar, caught in some unknown way. Box pulled by citizen. No damage. Companies responding: Engines 2, 4, 6, Chemical, Hose 1, Truck 6.

STILL. Friday, February 26, 6.10 A. M. Chimney fire in wooden tenement, owned by Charles C. Hayes, 73 Lowell street, and occupied by Virginia Gervais. No damage. Used one charge of Pony.

STILL. Monday, March 1, 10.45 P. M. Chimney fire in four-tenement block, 26 Birch street, owned and occupied by Mrs. Sweeney. Members of Chemical responded. Used one charge of Pony.

STILL. Thursday, March 4, 8 P. M. Chimney fire in tenement block, 19 Orange street, owned by heirs of Joseph B. Clarke and occupied by W. E. Abbott. Members of Chemical responded. No damage. Used one charge of Pony.

Box 82. Wednesday, March 10, 9.38 P. M. False alarm pulled by some malicious individual. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

Box 5. Monday, March 15, 6.24 P. M. Three-story brick block at 46 Middle street, owned by the Amoskeag Manufacturing Co. and occupied by Herman Hayes as a boarding house. The fire was caused by defective chimney, and burned in the partition of first and second stories. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building, \$10,000; damage, \$100; insurance, "Blanket." Value of contents, \$1,000; damage, \$50; insurance, none.

Box 21. Monday, March 15, 6.48 P. M. Explosion of kerosene lamp at 112 Central street caused the death of

Miss Emma Garceau. No damage to the building. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 2, 3, Trucks 3, 5.

STILL. Tuesday, March 16, 5 P. M. Chimney fire at 163 Douglas street, in house owned and occupied by H. Volkmann. Members of Engine No. 2 responded. No damage. Used one charge of Pony.

Box 313. Thursday, March 25, 11.40 P. M. Four-story wooden tenement block, 16 Marion street, owned by Gordon Woodbury and occupied by several families. A box of excelsior in the basement caught fire from some unexplained cause, doing no damage. Box pulled by citizen. Companies responding: Engines 2, 4, 6, Chemical, Hose 1, Truck 6.

STILL. Monday, March 29, 12.18 P. M. Brush fire in woods, corner Webster street and Hooksett road. Members of Engine and Ladder No. 5 responded with hose carriage. No damage. Used two charges of Pony.

Box 5. Monday, March 29, 12.58 P. M. Four-story brick block, 758 Elm street, owned by Harrington heirs and occupied as fruit store by K. Barber & Co. The overflow of a gasoline stove caused a slight fire on wooden partition in basement. Box pulled by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, Trucks 1, 3.

STILL. Monday, March 29, 2.44 P. M. Grass fire in field of Samuel Hall estate on River road, corner Webster street. Members of Engine and Ladder No. 5 responded. No damage.

Box 21. Wednesday, March 31, 6.50 P. M. Two-story wooden block, 289 Pine street, owned by Ellen Reardon and occupied by several families. The stove funnel in tenement occupied by Daniel Clifford fell, breaking a kerosene lamp, setting fire to wood-work. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3.

STILL. Saturday, April 3, 6.27 P. M. Chimney fire in wooden tenement block, rear of 175 Hanover street, owned by Mrs. Amos Hoyt and occupied by George F. Daniels. No damage. Used one charge of Pony.

Box 324. Sunday, April 4, 1.11 P. M. Brush fire on Amory street extension. Box pulled by citizen. No damage. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 1.

STILL. Sunday, April 4, 3.45 P. M. A grass fire on the farm of the late S. D. Bell, on Hanover-street extension, set fire to frame barn occupied by Frank A. Whittemore. Members of Engine and Ladder No. 3 responded with hose wagon. Value of buildings, \$1,000; damage, \$1,000; insurance, \$600; insurance paid, \$600. Value of contents, \$200; damage, \$200; no insurance.

Box 213. Tuesday, April 6, 5.58 P. M. Burning grass between Beech and Pine streets, south of Portsmouth Railroad, caused an alarm to be given by a thoughtless boy. Companies responding: Engines 3, 4, Chemical, Hose 2, 3, Truck 3.

STILL. Thursday, April 8, 11.35 A. M. Chimney fire in wooden six-tenement block, 23 Washington street, owned by Michael Lane, and occupied by several families. No damage. Used one charge of Pony.

STILL. Monday, April 12, 10 A. M. Two-story wooden block, 403 East Spruce street, owned by People's Laundry Co. and occupied by E. R. Yates. Overheated smoke stack caused the fire, which was extinguished by members of Engine and Ladder No. 3. Slight damage. Used three charges of Pony.

STILL. Monday, April 12, 4.35 P. M. Chimney fire in four-tenement wooden block, 68 Concord street, owned by Parson heirs and occupied by Joseph Hart. No damage.

Box 45. Tuesday, April 13, 11.41 A. M. An empty freight car, No. 3026, belonging to Maine Central Rail-

road, in freight yard of Boston & Maine Railroad. Box pulled by citizen. Companies responding: Engines 1, 2, 3, 4, Chemical, Hose 1, Trucks 1, 3. Damage about \$150, fully covered by "blanket" policy.

STILL. Tuesday, April 13, 8.14 — M. Chimney fire in two-story house at rear of 133 Hanover street, owned and occupied by Mrs. Ella Phinney. No damage. Used one charge of Pony.

STILL. Sunday, April 18, 11.55 A. M. Chimney fire in three-story wooden tenement block, 30 Amherst street, owned by Lawrence Dowd and occupied by several families. No damage. Used one charge of Pony.

STILL. Monday, April 19, 2.45 P. M. Chimney fire in three-story wooden tenement block, rear 66 Concord street, owned by heirs of S. W. Parsons and occupied by M. D. Dunn. No damage. Chemical engine responded. Used three charges of Pony.

STILL. Tuesday, April 20, 10.02 A. M. Chimney fire in two-and-half-story dwelling, 86 Auburn street, owned and occupied by Patrick Reardon. No damage. Used two charges of Pony.

STILL. Tuesday, April 20, 3.50 P. M. Three-story wooden block, 1077 Elm street, owned by estate of E. K. Rowell and occupied by Julius Katz as clothing store. Fire started in pile of rubbish at foot of stairs from match or cigar stub thrown in from outside. Chemical engine responded. No damage. Used two charges of Pony.

STILL. Saturday, April 24, 4.35 P. M. Three-story wooden tenement block, 35 Central street, owned by Dr. John Ferguson and occupied by Joseph Joselin. Children lighted fire on roof. No damage. Chemical engine responded.

BOX 17. Tuesday, April 27, 12.45 A. M. Two-and-half-story house with barn connected, situated at 21 Ash street, owned by Clough & Hall and occupied by Joseph E. Merrill and W. H. Tarbell. Fire was confined wholly to the

upper story of barn. Caused, probably, by hot ashes. Box pulled by officer. Companies responding: Engines 3, 4, Chemical, Hose 1, 2, Truck 3. Value of building, \$4,000; damage, \$350; insurance, \$1,500; insurance paid, \$345. Value of contents, \$1,000; damage, \$10; insurance, \$300; insurance paid, \$6.

STILL. Tuesday, April 27, 12.15 P. M. Chimney fire in house at 502 North Main street, owned and occupied by T. H. Donnelly. Members of Engine and Ladder No. 6 responded. No damage. Used two charges of Pony.

STILL. Friday, April 30, 10.10 P. M. Rubbish in waste can in entry of Merchants' Exchange, 839 Elm street. No damage. Members of Chemical company responded.

Box 315. Thursday, May 6, 1.46 P. M. Brush fire on Dunbarton road, on land owned by Will H. Colby. No damage. Box pulled by citizen. Companies responding: Engines 2, 6, and Truck 6.

STILL. Thursday, May 6, 8.05 P. M. Chimney fire in Union block, 22 Concord street, owned by Chandler Bros. and occupied by several families. Chemical engine responded. No damage.

STILL. Saturday, May 8, 4.10 P. M. Brush fire at city dump, rear of Children's Home, Webster street. No damage. Members of Engine and Ladder No. 5 responded.

STILL. Saturday, May 8, 5.10 P. M. Rekindling of above fire. Members of Engine and Ladder No. 5 responded with hose carriage. No damage.

STILL. Monday, May 10, 10.37 A. M. Chimney fire in three-story wooden tenement block, 353 Pine street, owned by Mrs. Caldwell. No damage. Used one charge of Pony.

Box 51. Tuesday, May 11, 8.18 P. M. A hanging lamp fell from ceiling at 53 Walker street, in two-story house owned by Ferdinand Reidell and occupied by "Straight Tip Club." No damage and no fire. Box

pulled by citizen. Companies responding: Engines 2, 6, Chemical, Truck 6.

STILL. Wednesday, May 12, 11.30 A. M. Chimney fire in two-story tenement house, 37 Amherst street, owned by Lawrence Dowd and occupied by Mary Fitzgerald. No damage. Used one charge of Pony.

Box 21. Friday, May 14, 7.52 P. M. Two-story wooden building, 195 Manchester street, owned by Levi Dodge and occupied by J. B. Corbiere as blacksmith shop, and Angus Derry as carriage shop. Fire originated in the carriage shop, from some unknown cause. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of buildings, \$700; damage, \$270; insurance, \$300; insurance paid, \$270. Value of contents, \$525; damage, \$100; no insurance.

Box 82. Monday, May 17, 10.38 P. M. False alarm. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

STILL. Tuesday, May 18, 1.05 P. M. Brush fire adjoining the Youngsville schoolhouse lot on Pond road. Responded with delegation of men. No damage.

STILL. Wednesday, May 19, 9.30 A. M. Chimney fire in tenement house at 180 East Spruce street, owned by Gideon Flanders. Members of Engine and Ladder No. 3 responded. No damage.

STILL. Sunday, May 23, 6.45 P. M. Chimney fire in house owned and occupied by Mrs. C. L. McQuade, at 373 Lake avenue. Members of Engine and Ladder No. 3 responded. No damage. Used one charge of Pony.

STILL. Wednesday, May 26, 7.50 A. M. Five-story brick block, 895 Elm street, owned by W. H. Plumer and occupied by Plumer & Holton, clothiers, on first floor, and upper stories as offices, etc. The fire started from an electric light wire in office of Dr. Fred Perkins. Chemical engine responded. Value of building, \$25,000; damage, \$95; insurance, \$17,000; insurance paid, \$94.19.

Value of contents, 1,500; damage, \$75; insurance, \$800; insurance paid, \$75.

Box 21. Thursday, May 27, 9.33 P. M. Grocery store of Napoleon Gauvin, 118 Central street. Hanging lamp fell and exploded, setting fire to kerosene tank. Flames spread on floor, but were quickly extinguished by Chemical engine without damage. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Trucks 1, 3.

Box 511. Wednesday, June 2, 1.41 P. M. Lamp explosion in tenement, 254 Douglas street. No damage. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Truck 6.

STILL. Thursday, June 3, 10.30 A. M. Four-tenement wooden block, 11 Orange street, owned by David Young and occupied by Gilbert Pelland. Wood too near stove ignited, causing slight damage to partition. Members of Chemical responded. Used one charge of Pony. Value of building, \$8,500; damage, \$35; insurance, \$5,000; insurance paid, \$35. No damage to contents.

STILL. Sunday, June 13, 9.41 A. M. Two-tenement house, 110 Willow street, owned by H. B. Fairbanks and occupied by J. Hickok. Slight fire in bed, which was extinguished before arrival of detail of men from Chemical company.

Box 21. Saturday, June 19, 9.23 P. M. The breaking of a kerosene lamp at 22 Laurel avenue, in a four-story tenement block, owned by heirs of E. W. Bartlett and occupied by John Chonack as a Polish boarding house, caused an alarm to be pulled. Box pulled by citizen. No damage. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3.

Box 313. Thursday, July 1, 8.57 P. M. Two-and-half-story dwelling, 605 Main street, owned by John E. Richards and occupied by August Gingrass. The gas chandelier broke off and gas ignited as it came from pipe, doing

no damage. Box pulled by citizen. Companies responding: Engines 2, 4, 6, and Chemical, Hose 1, Truck 6.

STILL. Monday, July 5, 12.25 p. m. Unadjusted thermostat at Crafts & Green's shoeshop caused false alarm. Hose wagon of Engine 2 responded.

STILL. Same date, 11.55 p. m. Three-story brick block, corner Elm and Mechanic streets, owned by Rowell & Kimball heirs and occupied as tenements, stores, etc. The fire originated from over-heated range in eating rooms of Frank I. Paige. Chemical responded. Damage about \$8, fully insured. No damage to contents.

Box 71. Thursday, July 8, 5.33 p. m. Four-story wooden block, 259 Pine street, owned by heirs of George Whitford and occupied by Michael Galvin and others. Caused by Mrs. Galvin lighting fire with kerosene. The oil in can ignited, burning Mrs. Galvin seriously, so that she died from injuries. No damage to building or contents. Box pulled by a boy. Companies responding: Engines 1, 3, Chemical, Hose 1, Truck 3.

STILL. Same date, 8 p. m. Chimney fire in two-and-half-story wooden house, 137 Manchester street, owned by heirs of Mary McMahon and occupied by David Bellmore. No damage. Used one charge of Pony.

STILL. Friday, July 9, 6.20 p. m. A little too much smoke from a stove in tenement occupied by D. B. Morency resulted in a call for members of Engine and Ladder No. 3. No fire (except in stove) to be found.

Box 26. Tuesday, July 20, 2.45 p. m. Three-story wooden tenement block, 330 Lowell street, owned by D. B. Sanborn and occupied by several families, with grocery store in basement, where the fire originated, kept by Carl A. Friborg. Cause, match dropped in kerosene. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 2, Truck 5. Value of building, \$8,000; damage, \$584; insurance, \$5,000; insurance paid, \$584. Value of contents, \$800; damage, \$700; insurance, \$300; insurance paid, \$300.

Box 4. Monday, July 26, 11.56 A. M. Wooden ten-footer, 16 Lake avenue, owned by Freeman & Merrill and occupied by L. E. DeLabarre as tailor shop. Cause, lighting gasoline stove. Box pulled by citizen. Companies responding: Engines 1, 2, 3, Chemical, Hose 1, 3, Trucks 1, 3.

Box 82. Thursday, August 12, 8.24 A. M. Four-story brick block, 1096 Elm street, owned by Welch & Clough. In room 4, occupied by George Birtue, a kerosene stove tipped over, causing considerable fright to occupants, but no damage to property. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 3, 5.

Box 57. Sunday, August 29, 1.26 P. M. Two-story wooden paint shop, situated on Shirley Hill road, just across the line in Goffstown. The shop was owned and occupied by William H. Goodwin. Box pulled by citizen. Companies responding: Engine 2, Chemical, Truck 6.

STILL. Thursday, September 2, 11.55 P. M. Slight fire in a closet in the Moose Club's rooms in Merchants' Exchange, 839 Elm street. Cause unknown. Used one charge of Pony.

STILL. Sunday, September 5, 4.55 P. M. Chimney fire in two-story wooden block, 354 Pine street, owned by David Young and occupied by Timothy Garvin. Members of Chemical responded. No damage.

2-2-2. Thursday, September 7, 2.20 A. M. Word was telephoned from Lake View House, Lake Massabesic, Auburn, for assistance, as said house was on fire. Engine 1 with hose wagon responded. Although the distance was about five miles, and over a hard road, reached the scene in season to save some of the surrounding cottages.

STILL. Monday, September 27, 6.30 P. M. A chimney fire in four-story wooden block, 126-150 McGregor street,

owned by Gordon Woodbury and occupied by several families. Members of Engine and Ladder No. 6 responded. No damage. Used two charges of Pony.

Box 4. Same date, 7.03 P. M. Slight fire in a closet in the Drake & Carpenter block, 24 Granite street. Needless alarm. Fire extinguished without damage before arrival of department. Box pulled by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3.

STILL. Tuesday, September 28, 2.25 P. M. Chimney fire in cottage house, 240 Manchester street, owned and occupied by Charles Kilborn. Chemical engine responded. No damage.

STILL. Thursday, September 30, 9.30 A. M. A cottage house at 73 Liberty street, owned and occupied by Fred G. Hartshorn. Lace curtain burned. Members of Engine and Ladder No. 5 responded.

Box 113. Same date, 5.53 P. M. While Dr. C. B. Sturtevant was burning brush on lot on Russell street, some one pulled in an alarm, thinking there was a fire. No damage resulted. Companies responding: Engines 1, 5, Chemical, Hose 2, Truck 5.

Box 52. Friday, October 1, 9.40 P. M. Cottage house, 938 Granite street, owned and occupied by D. O'Leary. Shawl in closet caught fire from some unknown cause, doing but slight damage. Extinguished before the arrival of the department. Box pulled by a boy. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6.

Box 6. Saturday, October 2, 9.28 A. M. Basement of three-story brick and stone block, 868-884 Elm street, owned by New Hampshire Insurance Co. and occupied by L. P. Labonte. A slight fire in box of excelsior which was in too close proximity to steam boiler. Extinguished with line from garden hose before arrival of department. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Trucks 1, 3. No damage.

Box 82. Same date, 11.47 A. M. Two-and-half-story wooden tenement house, 17 Washington street, owned by Kennard heirs and occupied by several families. Fire started in tenement occupied by Daniel Dailey, from defective flue. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$2,800; damage, \$61.17; insurance, \$2,100; insurance paid, \$61.17. Value of contents, \$800; damage, \$45; no insurance.

Box 321. Same date, 7.03 P. M. Three-story wooden tenement house, 267 Cartier street, owned by John Hanney and occupied by him and Patrick J. O'Connell. The fire originated in the cellar from some unknown cause and communicated to first and second stories by the back stairway. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6. Value of building, \$1,500; damage, \$700; insurance, \$1,300; insurance paid, \$693. Value of contents, \$1,500; damage, \$200; insurance, \$1,500; insurance paid, \$200.

Box 73. Thursday, October 7, 6.29 P. M. Barn in rear of 246 Auburn street, owned and occupied by Daniel Murphy. Cause unknown. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 5. Value of building, \$175; damage, \$75; insurance, \$50; insurance paid, \$50. Value of contents, \$100; damage, \$30; no insurance.

Box 81. Saturday, October 9, 3.25 P. M. Three-story brick tenement house, 44 Charles street, owned by Stark Manufacturing Co. and occupied by Joseph Moquin. Slight fire in box of old clothes in third story. Cause unknown. Box pulled by officer. Companies responding: Engines 1, 4, Chemical, Hose 1, Truck 1. No damage to contents. Damage to building, \$25; fully insured.

STILL. Sunday, October 10, 5.45 P. M. Chimney fire in Cilley block, 1037 Elm street, owned by Harry B. Cilley. No damage.

BOX 115. Tuesday, October 12, 6.03 P. M. False alarm. Companies responding: Engines 1, 5, Chemical, Hose 2, Truck 5.

STILL. Sunday, October 17, 12.35 P. M. Grass fire on land owned by the Amoskeag Manufacturing Company, corner Valley and Wilson street. Members of Engine and Ladder No. 3 responded with hose wagon. No damage.

STILL. Monday, October 18, 6.15 A. M. Chimney fire in three-story wooden tenement house, 57 Amherst street, owned by Mrs. Charles H. Bradford. No damage. Used one charge of Pony.

BOX 4. Tuesday, October 26, 3.56 A. M. Four-story brick block, 20-30 Granite street, owned by Mrs. C. S. Aldrich and Frank P. Carpenter, and occupied by Dodge & Laing, No. 20; John E. Towle, No. 22; and H. W. Parker, No. 30, with upper stories for tenements. The fire originated in store of John E. Towle & Co., and was confined mostly to that section of the building. Cause unknown. Most of the damage to occupants, aside from Towle & Co., was from smoke and water. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3. Value of building, \$30,000; damage, \$4,000; insurance, \$15,000; insurance paid, \$3,560. Towle & Co.: Value of contents, \$8,000; damage, \$3,035.84; insurance, \$6,900; insurance paid, \$3,035.84. Dodge & Laing: Value of contents, \$1,500; damage, \$175; insurance, \$1,000; insurance paid, \$175. H. W. Parker: Value of contents, \$20,500; damage, \$4,782; insurance, \$16,000; insurance paid, \$4,782. Value of property of other occupants, \$2,000; damage, \$200; no insurance.

BOX 57. Same date, 1.28 P. M. Brush fire on Mast road near Shirley Hill road. Needless alarm. No damage. Box pulled by citizen. Companies responding: Engines 2, Chemical, Hose 1, Truck 2.

Box 61. Thursday, October 28, 5.54 A. M. Two-and-half-story wooden slaughter house, corner Hancock street and Concord Railroad, owned and occupied by Manchester Slaughtering & Rendering Co. Fire originated in second story from some unknown cause, and was confined wholly to the storeroom. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Truck 3. Value of building, \$12,500; damage, \$50; insurance, \$12,500; insurance paid, \$50. Value of contents, \$3,000; damage, \$393.13; insurance, \$3,000; insurance paid, \$393.13.

Box 313. Saturday, October 30, 12.54 A. M. Three-and-half-story wooden block, 507 North Main street, owned by Joseph Lariviere and occupied as grocery store by Eugene Quirin. The fire originated from an overheated chimney, the base of which rested on an iron column, and damage was mostly by smoke and water. Box pulled by citizen. Companies responding: Engines 2, 4, 6, Chemical, Hose 1, Truck 6. Value of building, \$8,000; damage, \$260; insurance, \$3,000; insurance paid, \$260. Value of contents, \$10,000; damage, \$398.03; insurance, \$6,000; insurance paid, \$398.03.

Box 61. Same date, 6.08 P. M. The icehouse connected with the True W. Jones Brewing Co., on Hancock street, caught fire from some unknown cause. It contained but little ice and was used as storehouse also. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Truck 3. Value of building, \$1,500; damage, \$947.38; insurance, \$1,000; insurance paid, \$947.38. Value of contents, \$712.50; damage, \$287.50; insurance paid, \$287.50.

STILL. Sunday, October 31, 6.15 A. M. Members of Hose No. 3 called to brewery icehouse from fire in sawdust from last night's fire. Extinguished with few pails of water.

STILL. Same date, 12.32 P. M. Two-story wooden tenement house, 417 Pine street, owned by Albert Brigham

and occupied by Thomas Connor. Slight fire about porch. Members of Chemical responded. Used one charge of Pony. Value of building, \$800; damage, \$8; insurance, \$800; insurance paid, \$8.

Box 15. Wednesday, November 3, 4.50 P. M. Some careless person dropped a lighted match into sawdust saturated with kerosene near an oil tank in grocery store of Mrs. S. D. McGee, 60 Pearl street, doing no damage. Box pulled by citizen. Companies responding: Engines 1, 5, Chemical, Hose 1, 2, Trucks 1, 5.

2-2-2. Friday, November 5, 1.50 A. M. Telephone call from Derry for help. Took Steamer No. 1 with hose wagon and twenty-five men. Owing to delay in railroad yard in getting started, fire was under control on arrival, and apparatus was not unloaded, but kept in readiness until 4.40 A. M.

STILL. Saturday, November 6, 5.15 P. M. Chimney fire in tenement house, 19 Clinton street, owned by George S. Eastman and occupied by several families. No damage. Members of Engine 2 responded.

Box 213. Sunday, November 7, 9.21 A. M. Grass fire near oil tanks of Standard Oil Co. on Baker street. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 2, 3, Truck 3.

STILL. Same date, 3.30 P. M. Three-story brick block, 64 Hanover street, owned by Bartlett, Wells, Hill, and Gay, and occupied by John B. Clarke Co. for printing office. Fire under entry floor of press room in basement. Damage slight. Cause, rats and matches. Chemical engine responded. Used one charge of Pony.

STILL. Monday, November 8, 9.38 A. M. Chimney fire in two-story tenement house, 62 Lake avenue, owned by Jeremiah Horan and occupied by Joseph Dufrain. No damage. Used one charge of Pony.

Box 6. Sunday, November 14, 4.56 P. M. Electric light wire on the outside of Paris Store, 868-884 Elm street,

occupied by L. P. Labonte, set fire to awning, damaging the sign \$55, on which there was no insurance. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Trucks 1, 3.

Box 4. Wednesday, November 17, 7.48 P. M. Two-and-half-story wooden dwelling, 60 Spruce street, owned by Timothy Connor and occupied by A. E. Savard and Joseph Noel. Chimney fire. No damage. Box pulled by citizen. Companies responding: Engines 1, 2, 3, Chemical, Hose 1, 3, Trucks 1, 3.

Box 71. Tuesday, November 23, 5.58 P. M. Chimney fire at 259 Pine street, in tenement block owned by Mrs. Clara Whitford. No damage. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Truck 3.

Box 53. Sunday, November 28, 6.35 A. M. Sawmill and dryhouse at 168 South Main street, owned and occupied by A. C. Wallace. The fire originated near the dryhouse and boiler-room. Cause unknown. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6. Value of building, \$1,200; damage, \$400; insurance, \$200; insurance paid, \$200. Value of contents, \$2,200; damage, \$1,000; insurance, \$600; insurance paid, \$600.

Box 53. Monday, November 29, 10.55 P. M. Two-story wooden block, 165-169 South Main street, owned by Gordon Woodbury and occupied by the Ranno Harness Co. as harness shop and James P. Welch as barber shop and variety store. The fire originated under a sink in variety store, from spontaneous combustion. Box pulled by citizen. Companies responding: Engines 1, 6, Chemical, Hose 1, Truck 6. Value of building, \$6,000; damage, \$791; insurance, \$5,000; insurance paid, \$791. Welch: Value of contents, \$725; damage, \$485; insurance, \$475; insurance paid, \$310. Ranno

Harness Co.: Value of contents, \$19,000; damage, \$1,503.45; insurance, \$17,000; insurance paid, \$1,503.45.

STILL. Tuesday, November 30, 7.30 P. M. A lighted candle behind drapery in the 5 and 10-cent store of Woolworth & Co., in Weston block, 981 Elm street, ignited the tissue paper trimmings, doing slight damage. Members of Chemical and Truck 1 responded. Used one charge of Pony.

Box 5. Friday, Décembre 3, 9.30 P. M. Two-story wooden projection to Adams Bros.' grain store, rear 754 Elm street, owned by Rowell Bros. Fire originated under outside stairs in Elm west back street, by match or cigar stub thrown among litter of hay. Box pulled by citizen. No damage to stock. Companies responding: Engines 1, 2, 3, Chemical, Hose 1, Trucks 1, 3. Damage to building, \$25; insurance paid, \$25.

Box 315. Tuesday, December 7, 12.43 A. M. Cottage house and barn connected, on the Goffstown road, owned by the heirs of Gilman R. Stevens and occupied by Mrs. Stevens. Fire was first discovered in the barn, and before alarm was given had communicated with the house. Cause unknown. Box pulled by citizen. Companies responding: Engines 5, 6, Chemical, Ladder 5. Value of buildings, \$1,000; damage, \$1,000; insurance, \$500; insurance paid, \$500. Value of contents, \$500; damage, \$500; no insurance.

Box 45. Tuesday, December 14, 3.51 P. M. Three-story brick building, owned by Leighton Machine Co., corner Canal and Cedar streets, and occupied by them and others for manufacturing purposes. The fire originated in the "tempering-room" of Dodge Needle Works, on second floor, caused by water in pot of tempering oil, spattering oil into the fire. There was no damage and fire all out on arrival of department. Box pulled by citizen. Companies responding: Engines 1, 2, 3, 4, Chemical, Hose 1, Trucks 1, 3.

STILL. Saturday, December 18, 4.05 P. M. Grass fire on land of Henry A. Farrington on Clarke street, between Elm and Chestnut streets. Responded to by members of Engine and Ladder No. 5. No damage. Used one charge of Pony.

BOX 3. Friday, December 24, 4.17 P. M. Saloon car No. 2718 of Boston & Maine Railroad, on sidetrack in railroad yard. Cause unknown. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Trucks 1, 3. Damage to car, \$15; value, \$471. Blanket policy.

STILL. Same date, 5.59 P. M. Chimney fire at 99 Cedar street. No damage. Used one charge of Pony.

BOX 71. Same date, 6.11 P. M. While a detail of men were at the chimney fire above mentioned, some "crazy-head" pulled box for same chimney. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3. No damage.

STILL. Same date, 6.32 P. M. Chimney fire in tenement block, 49 Spruce street. No damage. Used two charges of Pony.

STILL. Same date, 8.15 P. M. Chimney fire in tenement block owned by heirs of John D. Patterson and occupied by Richard Gallien. No damage. Used one charge of Pony.

STILL. Same date, 9.30 P. M. Chimney fire at 66 Concord street, owned by heirs of S. W. Parsons and occupied by ——— Davis. No damage. Used one charge of Pony.

STILL. Same date, 10.48 P. M. Chimney fire in Washington block, 3 and 4 Pearl street, owned by Charles C. Hayes and occupied by Oliver Gagnon and others. No damage. Used one charge of Pony.

STILL. Saturday, December 25, 1 P. M. Chimney fire in two-story wooden tenement block, 63 Pearl street, owned by Nason Hall and occupied by Nelson White. No damage. Used two charges of Pony.

STILL. Tuesday, December 28, 6.50 P. M. Three-story wooden tenement house, 32 Concord street, owned by John H. McCabe and occupied by John Peterson as cobbler's shop. Lamp exploded. No damage. Used one charge of Pony.

Box 8. Thursday, December 30, 5.45 P. M. Four-story wooden block, 1201 Elm street, owned by Mrs. J. L. Bradford and occupied by Thomas Kelley & Sons in basement as fruit store, and Fogg's lunch rooms, with variety store of Lizzie Gillis on first floor. Miss Gillis's damage was wholly by smoke. The fire originated in middle cellar of Kelley's store, from some unknown cause. Box pulled by L. F. Kettle. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$3,500; damage, \$225; insurance, \$2,000; insurance paid, \$225. Kelley: Value of contents, \$200; damage, \$155; insurance, \$150; insurance paid, \$150. E. W. Fogg: Value of contents, \$600; damage, \$50; insurance, \$200; insurance paid, \$20. Lizzie Gillis: Value of contents, \$600; damage, \$100; insurance, \$400; insurance paid, \$100.

Number of bell alarms.....	81
Number of still alarms.....	69
Total	<u>150</u>

Value of property endangered.....	\$150,208.50
Insurance carried on same.....	105,015.00
Damage to property where fires occurred...	23,269.50
Insurance paid on same.....	20,249.50
Net loss above insurance paid.....	<u>\$3,020.00</u>

Number and Location of Fire Alarm Boxes and Keys.

A KEY IS ATTACHED TO EACH BOX, and can be had by breaking the glass.

No. 3. Blood's lower shop. Keys at offices of gas-works, county jail, Manchester Coal & Ice Co.'s sheds, and Charles H. Hutchinson's shop.

No. 4. Corner Spruce and Elm streets. Keys at Hotel Oxford, L. B. Bodwell & Co.'s, Palmer & Garmon's, Street Railway stables, and office of Blodgett & Young's block.

No. 5. Corner of Merrimack and Elm streets. Keys at Tebbetts & Soule's and Currier's drugstores, Manchester House, and J. W. Hill Co.'s store.

No. 6. City Hall. Keys at Holland's and Thurston's drugstores, J. A. Riddle's office, and residence of J. L. Brock, 21 Amoskeag Corporation.

No. 7. Police station, corner of Manchester and Chestnut streets. Keys at chief of police's office and with all police officers.

No. 8. Corner of Elm and Hollis streets. Keys at Edward C. Smith's and Gadbois's drugstores, and Partridge Bros.' grain store.

No. 9. Corner of Elm and Webster streets. Keys at residences of Mrs. H. D. Corliss, J. Freeman Clough, Dr. E. Fritz, and station of Engine No. 5.

No. 12. Corner of North and Pine streets. Keys at residences of John Mooar, George Emerson, Walter A. Green, and O. D. Knox.

No. 13. Corner of Brook and Chestnut streets. Keys at residences of Welcome Jencks and Mrs. Lewis Simons, No. 1 Senter's block, and Cate's grocery store.

No. 14. Corner of Prospect and Union streets. Keys at residences of Mrs. W. Ireland, Mrs. George W. Riddle, D. J. Adams, A. H. Olzendam, and Mrs. Thomas Morgan.

No. 15. Corner of Pearl and Chestnut streets. Keys

at residences of William B. Corey, Henry W. Shannon, and J. Fred Chalker.

No. 16. Corner of Lowell and Union streets. Keys at residences of Rt. Rev. Bishop Bradley and R. R. Hassam.

No. 17. Corner of Amherst and Beech streets. Keys at residences of Mrs. H. P. Watts and Michael Connor.

No. 18. Corner of Manchester and Maple streets. Keys at residences of the late H. E. Stevens, A. N. Baker, and Mrs. William Perkins.

No. 21. Corner of Merrimack and Pine streets. Keys at A. D. Smith's drugstore, J. McKeon's grocery store, A. L. Walker's office and residence of James F. Gillis.

No. 23. Corner of Central and Beech streets. Keys at residences of Eben T. James and Mrs. Josiah Stevens.

No. 24. Engine and Ladder Co. No. 3 house, corner of Massabesic street and Lake avenue. Keys at residence of D. M. Goodwin and station of Engine and Ladder No. 3.

No. 25. Corner of Hanover and Ashland streets. Keys at residences of George F. Lincoln, A. D. Gooden, the late Horace Stearns, the late Horace Gordon, and James R. Straw.

No. 26. Corner of Bridge and Russell streets. Keys at McCrillis's carriage shop and John N. Foss's stable.

No. 27. Corner of Belmont and Amherst streets. Keys at residences of H. M. Tarbell, the late A. G. Fairbanks, E. S. Fletcher, William Carr, and Mrs. George H. Hubbard.

No. 28. Corner of Merrimack and Beacon streets. Key at residences of A. L. Garmon and Edward Dorsey.

No. 31. Corner of Canal and Hollis streets, Blood's shop. Keys at office, Amory Mills, Langdon Mills watchrooms.

No. 32. Langdon Mills block, corner of Canal and Brook streets. Keys at the Amoskeag Paper Company's mill, Langdon watchroom, and Electric Light station.

- No. 34. Jefferson Mill. Keys at watchroom and pumping station.
- No. 35. Stark Mills. Keys at watchroom.
- No. 36. Amory Mills. Keys at watchroom.
- No. 39. Hillsborough county jail. Keys at office.
- No. 41. Amoskeag Mills. Keys at watchroom.
- No. 42. Manchester Mills. Keys at watchroom.
- No. 43. Olzendam's Mill. Keys at watchroom.
- No. 45. The S. C. Forsaith Co.'s shops. Keys at freight depot and S. C. Forsaith Co.'s office.
- No. 51. Corner of Walker and Second streets. Keys at stores of F. Riedel and William Weber.
- No. 52. Barr's brick block, West Manchester. Keys at Fradd & Co.'s and A. N. Clapp's stores, Merrimack House, and Engine No. 2 house.
- No. 53. Wallace's steam mill. Keys at Wallace's office, I. R. Dewey's tenement block, and Ranno Harness Co.'s store.
- No. 54. Corner of A and South Main streets. Keys at residences of Lord sisters, Neil Fullerton, and George W. Davis's store.
- No. 56. Baldwin's bobbin shop. Keys at Baldwin's office and residences of J. C. Smith, E. P. Littlefield, and with watchman at works.
- No. 57. Corner Mast road and D street. Keys at residences of Rev. A. C. Bidwell and C. H. George, and F. W. Towle's store.
- No. 61. Corner of River road and Hancock street, Bakersville. Keys at Mary Stack's saloon, True W. Jones Co.'s brewery, store of John A. Kane, and Hose 3.
- No. 62. Gerrish Wool & Leather Co.'s, River road. Keys at tannery, the Edwin Kennedy house, and Hose 3.
- No. 71. Corner of Cedar and Pine streets. Keys at residences of T. Collins, Daniel Sheehan, Thomas J. Smith, Simon McCarthy, and J. J. Twomey.

No. 72. Corner of Lake avenue and Lincoln street. Keys at residences of the late Austin Jenkins, James Briggs, and Clarence D. Palmer.

No. 73. Corner of Beech and Cedar streets. Keys at residences of Rev. J. A. Chevalier and Timothy Carr.

No. 81. Central Fire Station, Vine street. Keys at all the engine rooms.

No. 82. Old City Hotel, corner Lowell and Church streets. Keys at Syndicate Furniture Co.'s, Lowell-street stable, and Eames Brós.' drugstore.

No. 91. Corner of Webster and Beech streets. Keys at Children's Home and R. N. Foster's residence.

No. 112. Corner of Sagamore and Union streets. Keys at residences of W. T. Stevens, W. A. Clarkson, M. D. Johnson, Charles F. Chase, and William H. Drury.

No. 113. Corner of Oak and Prospect streets. Keys at residences of Mrs. William B. Abbott, W. N. Johnson, and E. M. Topliff.

No. 114. Corner of Pearl and Ash streets. Keys at residences of Mrs. A. P. Olzendam, G. A. Olzendam, W. S. Shannon, and John J. Bennett.

No. 115. Corner Gore and Ash streets. Keys at residences of James A. Rogers and Cyren Bixby.

No. 212. Shoeshop, Hallsville. Keys at the office of the shoe factory and residences of Charles C. Chase, G. W. Dearborn, Mrs. Milton A. Abbott, M. V. B. Garland, and Walter Cody's block.

No. 213. Sash and blind factory, South Beech street, junction of Portsmouth Railroad. Keys at offices of Austin, Flint & Day and Dana & Provost.

No. 214. Elliott silk mill, corner of Wilson and Valley streets. Keys at office and watchroom of mill.

No. 215. Hoyt & Co.'s shoeshop, corner of Lincoln and Silver streets. Keys at offices of shoeshop and Kimball Carriage Co. and residence of Mrs. A. B. Johnson.

No. 216. Jewett and Somerville streets. Keys at residences of G. H. Hill, 140 Jewett street, and W. B. Brown, 128 Jewett street.

No. 217. Corner Candia road and Massabesic street. Keys at residences of L. M. Streeter, William Gadbois, and Charles P. Still.

No. 261. Pearl-street grammar school. Keys at school room and residences of C. E. Rose, S. W. Bascom, and Charles W. Cheney, Jr.

No. 312. Corner of Putnam, Main, and McGregor streets. Keys at residences of James Spence (309 Main street), Thomas Bolton, gate No. 11 mill.

No. 313. Corner of Amory and Main streets. Keys at residences of Allen Dean and Lawrence M. Connor, Bouthillier & Gingras's drugstore, Miville & Co.'s drugstore, gate of No. 11 mill, and station of Engine and Ladder No. 6.

No. 314. P. C. Cheney Co.'s paper mill. Keys at office and Riverside Hose house.

No. 315. Old Brick Store, 'Skeag. Keys at Flanders's store, Riverside Hose house, and D. L. Robinson's residence.

No. 321. Corner Beauport and Wayne streets. Keys at Holy Angels Convent, and Brothers' School, and residences of E. H. Doherty and Rev. Father Hevey.

No. 323. Corner of Putnam and Bartlett streets. Keys at Albert Oliver's store, P. J. Archambeault's bakery, and residence of Officer Lewis Clement.

No. 324. Amory and Laval streets. Key at residence of Desire Martin, No. 494 Amory street.

No. 511. Corner of Douglas and Green streets. Keys at residences of Amelia Davis, William A. Tufts, and James Kearns.

No. 513. Corner of Milford and Carroll streets. Keys at residences of J. W. Abell, James Ward, and Mrs. Elizabeth Ward.

Also, keys will be found in the hands of all regular police.

The true time will be given at precisely 12.30 p. m. from Charles A. Trefethen's jewelry store, and will be denoted by one stroke of the fire bells.

Telephone Calls.

NEW ENGLAND TELEGRAPH AND TELEPHONE CO.

Chemical Engine, Central Station.....	64—3
Engine No. 2	64—2
Engine & Ladder No. 3.....	64—5
Engine & Ladder No. 5.....	64—6
Engine & Ladder No. 6.....	64—7
Hose No. 2	116—4
Hose No. 3.....	25—2
Chief Engineer Lane's office.....	64—3
Chief Engineer Lane's house.....	64—4
Assistant Engineer Bean's house.....	517—2
Assistant Engineer Whitney's house.....	39—4
Assistant Engineer Whitney's office.....	73—3
Assistant Engineer Merrill's house.....	212—3
Assistant Engineer Frisselle's house.....	175—2
Two long rings, twice, all take down telephones.	

MANCHESTER TELEPHONE CO.

Chemical Engine, Central Station.....	120—2
Assistant Engineer Whitney's office.....	80—2
Assistant Engineer Whitney's house.....	81—2
Assistant Engineer Merrill's house.....	162—2

Instructions to Key-holders and Citizens.

1. Upon the discovery of a fire, notice should be immediately communicated to the nearest alarm box, the key

of which is in a circular box attached to right-hand side of the fire alarm box. Keys are also in the hands of all regular police, and generally of persons at the corner or nearest house.

2. Key-holders, upon the discovery of a fire, or positive information of a fire, will unlock the box, pull down the hook once as far as it will go (without jerking), and then let go. Shut the door, but do *not* try to remove the key, as it is locked in by a trap lock, and can only be removed with a release key, which is carried by each of the engineers, and they will, as soon as convenient, release and return it.

3. All persons giving fire alarms are requested to remain by the box a moment, and if no clicking is heard in the box, pull again; if you still hear no clicking, go to the next nearest box and give an alarm from that.

4. Never signal for a fire seen at a distance. Never touch the box except to give an alarm of fire. Give an alarm for no cause other than actual fire. **DOX'T GIVE AN ALARM FOR A CHIMNEY FIRE.**

5. Never let the keys go out of your possession unless called for by the chief engineer. *If you change your residence or place of business, where the keys are kept, return the keys to the same office.*

6. Owners and occupants of buildings are requested to inform themselves of the location of alarm boxes near their property; also all places where the keys are kept. Be sure the alarm is promptly and properly given.

7. Alarms will be sounded upon all the fire-bells in the city, and the number of the box will be given thus: Box 6, six blows, $2\frac{1}{2}$ seconds apart, repeated three times. Box 212, two blows, pause of $6\frac{1}{4}$ seconds, one blow, same pause, and two blows, 2—1—2, repeated three times.

8. The engineers reserve the right to give one stroke of the bells at any time; and in case of testing the boxes, each test will be preceded by one stroke of the bells.

TABLE

SHOWING THE APPARATUS CALLED TO DIFFERENT BOXES ON FIRST, SECOND, AND THIRD ALARMS.

BOXES.	FIRST ALARM.				SECOND ALARM.				THIRD ALARM.				
	Engine.		Hose.	Hook-and-ladder.	Engine.	Hose.	Hook-and-ladder.	Engine.	Hose.	Hook-and-ladder.	Engine.	Hose.	Hook-and-ladder.
3.....	1st R. 3	C. 1	1-3	1-3	2d R. 2	.....	.....	5-6	2	5-6			
4.....	1st R. 2-3	"	1-3	1-3	2d R.	2	5	5-6	.....	6			
5.....	1st R. 2-3	"	1	1-3	2d R.	2	5	5-6	.....	6			
6.....	1st & 2d R.	"	1-2	1-3	2-3	3	5	5-6	.....	6			
7.....	1st R. 3	"	1	1-3	2d R.	2	5	2-5-6	3	6			
8.....	1st & 2d R. 5	"	1-2	1-5	3	.....	3	2-6	3	6			
9.....	1st R. 5	"	1	5	2d R.	2	1	2-3-6	3	3-6			
12.....	5	"	1	5	1st R.	2	1	2d R. 2-3-6	3	3-6			
13.....	1st R. 5	"	1-2	5	2d R.	.....	1	2d R. 2-3-6	3	3-6			
14.....	1st R. 5	"	1-2	5	2d R. 3	.....	1	2-6	3	3-6			
15.....	1st & 2d R. 5	"	1-2	1-5	3	.....	3	2-6	3	6			
16.....	1st R. 5	"	1-2	1-5	2d R. 3	.....	3	2-6	3	6			
17.....	1st R. 3	"	1-2	3	2d R. 5	.....	1	2-6	3	3-6			
18.....	1st R. 3	"	1-2	3	2d R.	.....	1	2-5-6	3	5-6			
21.....	1st R. 3	"	1	1-3	2d R. 2	2	5	5-6	3	6			
23.....	1st R. 3	"	1-2	3	2d R.	.....	1	2-5-6	3	5-6			
24.....	1st R. 3	"	1-2	3	2d R.	.....	1	2-5-6	3	5-6			
25.....	1st R. 3	"	1-2	3	2d R.	.....	1	2-5-6	3	5-6			
26.....	1st R. 3	"	1-2	5	2d R. 5	.....	3	2-6	3	1-6			
27.....	1st R. 3	"	2	3	2d R.	1	1	2-5-6	3	5-6			
28.....	3	"	2	3	1st R.	1	.....	2d R. 2-5-6	3	1-5-6			
31.....	1st R. 6	"	1	1-5	2d R. 5	2	6	2-3	3	3			
32.....	1st R. 5	"	1	1-5	2d R. 6	2	6	2-3	3	3			
34.....	1st & 2d R. 5-6	"	1-2	1-5	2-3	.....	6-3	.....	3	.....		
35.....	1st & 2d R. 5-6	"	1	1-5	2-3	.....	6-3	.....	3	.....		
36.....	1st & 2d R. 5-6	"	1	1-5	2-3	.....	3-6	.....	3	.....		
39.....	1st R. 3	"	1-3	1-3	2d R. 2	2	5	5-6	.....	6			
41.....	1st & 2d R. 2-3	"	1	1-3	5-6	2-3	5-6	.....	.....	.....
42.....	1st & 2d R. 2-3	"	1	1-3	5-6	2-3	5-6	.....	.....	.....
43.....	1st R. 2-3	"	1	3	2d R. 6	2-3	1	5	.....	6-5			
45.....	1st & 2d R. 2-3	"	1	1-3	5	2-3	5	6	.....	6			
51.....	2-6	"	.....	6	1st R. 3	1	3	2d R. 5	6-2	1-5			
52.....	2-6	"	1	6	1st R. 3	3	3	2d R. 5	2	1-5			
53.....	2-6	"	1	6	1st R. 3	.....	3	2d R. 5	2-3	1-5			
54.....	2-6	"	.....	6	1st R.	1	.....	2d R. 3-5	2-3	1-3-5			
56.....	2-6	"	1	6	1st R. 3	3	3	2d R. 5	2	1-5			
57.....	2-3	"	1	6	6	3	3	1st & 2d R. 3-5	2-3	1-3-5			
61.....	1st R. 3	"	1-3	3	2d R. 2	.....	.....	5-6	2	1-5-6			
62.....	1st R. 3	"	1-3	3	2d R. 2	.....	.....	5-6	2	1-5-6			
71.....	1st R. 3	"	1	3	2d R.	2-3	1	2-5-6	.....	5-6			
72.....	1st R. 3	"	1	3	2d R.	2	1	2-5-6	3	5-6			
73.....	1st R. 3	"	1	3	2d R.	2	1	2-5-6	3	5-6			
81.....	1st & 2d R.	"	1	1	5	2	3-5	2-6	3	6			
82.....	1st & 2d R. 5	"	1-2	1-5	3-6	.....	3-6	2	.....	.....	
91.....	1st R. 5	"	1	5	2d R.	2	1	2-3-6	3	3-6			
112.....	1st R. 5	"	2	5	2d R.	1	1	2-3-6	3	3-6			
113.....	1st R. 5	"	2	5	2d R.	1	3	2-3-6	3	1-6			
114.....	1st R. 5	"	1-2	5	2d R. 3	.....	3	2-6	3	1-6			
115.....	1st R. 5	"	2	5	2d R.	1	1	2-3-6	3	3-6			
212.....	1st R. 3	"	2	3	2d R.	1-3	1	2-5-6	.....	5-6			
213.....	1st R. 3	"	2-3	3	2d R.	1	1	2-5-6	1	6-5			
214.....	1st R. 3	"	2-3	3	2d R.	.....	1	2-5-6	1	5-6			
215.....	1st R. 3	"	2-3	3	2d R.	1	1	2-5-6	.....	5-6			
216.....	1st R. 3	"	2	3	2d R.	1	1	2-5-6	3	5-6			
217.....	1st R. 3	"	2	3	2d R.	1	1	2-5-6	3	5-6			
261.....	1st R. 3	"	1-2	3	2d R. 5	.....	5	2-6	.....	3-6			
312.....	1st R. 2-6	"	1	6	2d R. 5	2	1	3	3	3-5			
313.....	1st R. 2-6	"	1	6	2d R. 5	2	1	3	3	3-5			
314.....	5-6	"	1	5	1st R. 2	.....	6	2d R. 3	2-3	1-3			
315.....	5-6	"	.....	5	1st R.	1	6	2d R. 2-3	2-3	1-3			
321.....	2-6	"	1	6	1st R. 5	.....	1	2d R. 3	2-3	3-5			
323.....	2-6	"	1	6	1st R. 5	.....	5	2d R. 3	2-3	1-3-5			
324.....	2-6	"	1	6	1st R. 5	.....	5	2d R. 3	3-2	1-3			
511.....	2-6	"	.....	6	1st R.	1	3	2d R. 3-5	2-3	1-5			
513.....	2-6	"	.....	6	1st R.	1	.....	2d R. 3-5	2-3	1-3-5			

Rules and Regulations in Regard to Responding to Fires and Alarms.

The following rules have been adopted by the board of engineers, and the fire department will strictly comply until otherwise ordered, and will attend alarms of fire as per "OFFICIAL RUNNING CARD."

RUNNING RULES.

Whenever an alarm is sounded, the members of all companies not called to that box will report to their respective company quarters, and *there remain until dismissed* by the signal on the bells or by an engineer in charge.

In case companies on their first run have responded to an alarm, companies on their second run to the box from which the alarm has been sounded will answer all first-run boxes of the absent companies; and in case engines are out that would respond to another box, then third alarm companies will respond. In case of an alarm from a box that does not call for a third alarm, companies on their second run will then answer to all other boxes.

Whenever two trucks answer to first alarm, the other truck will answer to all other boxes.

At any time when an alarm of fire is given, the engine, hose carriage, or truck that leaves the house first will have the right to lead to the fire. Whenever a horse lags or gives out, drivers should then give others the right of way, so as not to delay the rest of the apparatus. No RUNNING BY WILL BE ALLOWED, EXCEPT IN CASE OF ACCIDENT, UNDER PENALTY OF DISMISSAL OF THE DRIVER FROM THE DEPARTMENT.

The drivers shall not permit persons not connected with the department to ride upon their apparatus, and in muddy weather or heavy wheeling they shall not permit any one to ride upon their apparatus when returning from fires.

Engineers of steamers will not run over eighty (80) pounds of water pressure, except when orders are received from a member of the board of engineers or of the officer in command of the company.

CAPTAINS, or commanding officers, upon return from alarms will report to headquarters immediately, personally or by telephone, after apparatus is "made up" and ready for duty.

THIRD ALARM.

ON THIRD ALARM all apparatus will respond.

GENERAL ALARM.

In the event of a fire of such magnitude that second and third alarms are needed, a general alarm will be given by striking TEN BLOWS, in which case all companies will respond.

SPECIAL CALLS ON FIRE ALARM.

When more apparatus is wanted without giving a second or third alarm, the following special calls will be given:

2—1 for Engine 1.	1—1—1 for Aerial Truck.
2—2 for Engine 2.	3—3 for Truck 3.
2—3 for Engine 3.	3—5 for Truck 5.
2—4 for Engine 4.	3—6 for Truck 6.
2—5 for Engine 5.	4—1 for Hose 1.
2—6 for Engine 6.	4—2 for Hose 2.
	4—3 for Hose 3.

Companies answering "special calls" will wait thirty seconds before leaving quarters, to prevent mistakes.

OUT OF TOWN CALL.

For a fire out of the city 2—2—2, in which case all companies will assemble at their respective quarters and await orders.

ALL OUT SIGNAL.

Two blows on the bells, which dismisses all members at company quarters.

This signal will be given after companies working at a fire have returned to quarters, "made up," and are ready to respond to another alarm.

TEST SIGNAL.

One blow at 12.30 noon.

SCHOOL SIGNALS.

1—1, with fifteen seconds between blows, closes primary and middle schools.

2—2, with fifteen seconds between the 2's, closes all the schools. Time for giving same, 7.45 A. M., 11.30 A. M., or 1.15 P. M.

MILITARY CALL.

12 blows twice.

Rules for Exercising Horses.

It shall be the duty of the drivers of engines, hose carriages, hose wagons, hook-and-ladder trucks, and all other apparatus connected with this department, to exercise the horses every day, weather permitting, except Sunday, with the exception of engines having "first" and "second runs," and in such cases must exercise on days of "second run," the same to be done within the following limits:

CENTRAL STATION.

North to Pearl street. East to Union street.
South to Merrimack street. West to Elm street.

NORTH MAIN-STREET STATION.

North to Adams street. East to Main street.
South to Granite street. West to Dubuque street.

LAKE AVENUE STATION.

North to Manchester street. East to Belmont street.
 South to Summer street. West to Maple street.

MAPLE-STREET STATION.

North to Myrtle street. West to Union street.
 South to Hanover street. East to Linden street.

WEBSTER-STREET STATION.

North to Clarke street. East to Union street.
 South to Pennacook street. West to Elm street.

RIMMON-STREET STATION (MCGREGORVILLE).

North to Kelley street. East to Beauport street.
 South to Wayne street. West to Rimmon street.

BAKERSVILLE STATION.

North to bridge over B. & East to Calef road.
 M. R. R. West to Brown avenue.
 South to Baker street.

Drivers must confine themselves to the above, and in no case take their horses beyond the prescribed limits, except for shoeing and in case of fire, without permission from the chief or an assistant engineer.

In exercising, care must be taken to avoid colliding with other teams. In approaching corners, crossings, street-car tracks, and in going down grades the speed of the horses must be checked.

In case of an alarm use gong freely while returning to quarters.

Any driver violating these rules will be liable to suspension or discharge.

Stations and Sleeping Rooms.

All stations of this department will be open from 7 A. M. until 9 P. M., and the members at the several stations will receive visitors and citizens courteously, answer all questions in a gentlemanly manner, and give any proper information.

Gambling of any kind shall not be done or permitted in or about any of the houses or premises occupied by the department.

Stations to be closed at 10 o'clock P. M.

All games must cease at 10 o'clock P. M., and the stations be closed at that hour, to permit the permanent men, and those detailed to sleep in the station, to retire undisturbed.

None of the stations will be open after the above hour (excepting in case of an alarm of fire) without permission of the chief or a member of the board of engineers, although stations may be kept open on Saturday evenings until 11 o'clock.

No spirituous or malt liquors shall be allowed in or about any of the fire stations, and any member of the fire department seen intoxicated at any fire or alarm of fire, or who shall be known to frequent places where liquors are sold, during the progress of a fire, or whenever in uniform, shall be subject to reprimand, or dismissal, as the board of engineers may determine.

Any permanent member visiting any liquor saloon in uniform, except in the performance of his duty as a member of the fire department, or who is intoxicated or visits places where intoxicating liquors are sold, while on duty, shall be suspended, or discharged, as the board of engineers may determine.

Commanding officers of companies, having knowledge of the violation of the foregoing rules, will suspend the offender, and report the same to the chief, or board of engineers.

The permanent men shall exercise a careful supervision over the sleeping apartments, see that the rooms are put in order and the beds made as early as 11 o'clock A. M., and that the bedding is changed at suitable intervals. The occupants of each bed will be held responsible for the cleanliness of the same, and held strictly accountable for any damage to either bed or bed clothing through carelessness. After 10 P. M. occupants shall refrain from loud talking or in any manner disturbing the rest of any who have retired.

Absent from City or Station.

No permanent member shall leave his station to visit any section of the city without permission of the chief or an assistant engineer, or leave the city, or be granted leave of absence, without notifying the chief engineer and procuring a substitute to his acceptance, and the substitute shall be on duty before the applicant leaves his post, except on his regular "day off."

Any call member expecting to be absent from the city shall notify the captain of his company, and before leaving the city shall procure a substitute satisfactory to said captain.

Any member of the department not complying with the above rules shall be liable to suspension or expulsion from the department.

DAYS OFF.

Day of month.	NAME.	COMPANY.	Day of month.	NAME.	COMPANY.
1	Hall	Engine 1.	17	Porter	Eng. & Ladder 3.
2	Harvey	" 1.	18	Seaward	Hose 2.
3	Barker	" 1.	19	Morse	Eng. & Ladder 5.
4	Parsons *.....	Hose 1.	20	Smith	" " 5.
5	Gould	Engine 4.	21	Cann	" " 5.
6	Truell	" 4.	22	Hubbell	" " 5.
7	Rowe	" 4.	23	Morrill	Engine 2.
8	Dyer	Truck 1.	24	Lane	"
9	Denyou	" 1.	25	Whitcomb	"
10	Pherson	" 1.	26	Edgar	Eng. & Ladder 6.
11	Porter	Chemical 1.	27	Foster	" " 6.
12	Richardson ..	" 1.	28	Cann	" " 6.
13	Walker	Engine & Ladder 3.	29	Crosby *.....	" " 6.
14	Piper	" " 3.	30	Rogers *.....	Hose 3.
15	Wheeler	" " 3.	31	Sloan *	" 3.
16	McLeod	" " 3.			

* In February Crosby will take the 16th, and Rogers the 26th; in July Parsons will take the 14th; and in February, April, June, September, and November, Sloan will take the 27th.

The hour of leaving will be 7 o'clock A. M., and members will not leave their station until the arrival of the spare driver. They must report *promptly at 7 o'clock* the following morning for duty.

Those whose breakfast hour is 6 o'clock will remain at station until 7 o'clock on the date of their "day off."

Should a fire be in progress at the hour of changes, men will remain on duty until the "all out" is given, except permission is obtained of the chief, or engineer in charge of fire, to retire.

Should a "general" or third alarm be rung in while members are in town, they will be expected to report for duty.

On the "day off" of the engineer of a steamer, the assistant engineer shall, on his arrival at the fire, act as engineer.

The time of change from *first* and *second* run will be made at 7 o'clock A. M.

All hose companies are instructed not to enter any building with a line of hose unless the stop nozzle is closed, except in cases where they can see the fire, and when their streams will reach it without damage to other property.

Steamer companies are not to enter a building with a line of hose without orders, unless fire can be seen, due care being exercised as to whether their services are needed.

ESTIMATED VALUE OF PROPERTY.

Engine No. 1.

LOCATED ON VINE STREET.

1 first-size Amoskeag steamer.....	\$4,000.00
1 one-horse wagon	400.00
3 gray horses for steamer.....	685.00
1 gray horse for hose wagon.....	225.00
4 swinging harnesses	200.00
1 pair double exercise harnesses.....	50.00
1 single exercise harness.....	40.00
2,200 feet fabric hose	1,100.00
Stable fixtures, blankets, etc.....	80.00
Tools, furniture, and fixtures.....	200.00
Firemen's suits and badges.....	200.00
Total amount	<u>\$7,110.00</u>

Engine No. 2.

LOCATED AT NORTH MAIN STREET, 'SQUOG.

1 second-size Amoskeag steamer.....	\$4,000.00
1 hose wagon	600.00
1 exercise wagon, poles, shafts, and three-horse hitch	340.00
3 bay horses for steamer.....	617.00
1 pair gray horses for hose wagon.....	450.00
3 exercise harnesses, 2 at \$40, 1 at \$20....	100.00
5 swinging harnesses	250.00
1 double sled	60.00
2,900 feet fabric hose.....	1,450.00
Stable fixtures and blankets.....	94.00
Furniture, fixtures, carpets, etc.....	466.00
Firemen's suits and badges.....	150.00
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Total amount	\$8,577.00

Engine and Ladder No. 3.

LOCATED ON LAKE AVENUE, CORNER MASSABESIC STREET.

1 second-size Amoskeag steamer.....	\$3,500.00
1 two-horse hose wagon.....	400.00
1 two-horse truck and equipments.....	1,700.00
1 three-horse hitch attachment (extra)...	200.00
1 pair black horses for steamer.....	250.00
1 pair bay horses for hose wagon.....	400.00
1 pair bay horses for truck.....	400.00
3 exercise harnesses, 2 at \$50, 1 at \$40....	140.00
6 swinging harnesses.....	300.00
3,400 feet fabric hose.....	1,700.00
Stable fixtures, blankets, etc.....	80.00
Beds, bedding, carpets, hall furniture, etc.	575.00
Firemen's suits and badges.....	200.00
1 exercise wagon	292.50
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Total amount	\$10,137.50

Engine No. 4.

LOCATED ON VINE STREET.

1 first-size Amoskeag steamer.....	\$4,200.00
1 hose wagon	400.00
3 horses for steamer.....	600.00
1 horse for hose wagon.....	200.00
3 exercise harnesses	60.00
4 swinging harnesses	200.00
2,800 feet fabric hose.....	1,400.00
Hall furniture, beds, bedding, etc.....	275.00
Stable fixtures and blankets.....	75.00
Firemen's suits and badges.....	150.00
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Total amount	\$4,560.00

Engine and Ladder No. 5.

LOCATED ON WEBSTER STREET, CORNER CHESTNUT.

1 third-size Amoskeag steamer.....	\$3,600.00
1 two-wheeled Amoskeag-hose carriage..	600.00
1 steel frame ladder truck.....	1,650.00
1 pair bay horses for steamer.....	500.00
1 pair bay horses for truck.....	400.00
1 bay horse for hose carriage.....	200.00
1 exercise wagon	325.00
1 double sled	50.00
5 swinging harnesses	250.00
2 pairs exercise harnesses.....	100.00
2,550 feet fabric hose.....	1,275.00
Bedding, furniture, tools, etc.....	247.00
Stable fixtures, blankets, etc.....	90.00
Firemen's suits, badges, etc.....	200.00
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Total amount	\$9,487.00

Engine and Ladder No. 6.

LOCATED AT CORNER AMORY AND RIMMON STREETS.

1 second-size Amoskeag steamer.....	\$3,500.00
1 hook-and-ladder truck (with Bangor extension)	1,680.00
1 one-horse carriage	600.00
2 gray horses for steamer.....	400.00
2 bay horses for truck.....	267.00
1 gray horse for hose carriage.....	200.00
5 swinging harnesses.....	250.00
2,000 feet fabric hose.....	1,000.00
Hall furniture, carpets, beds, bedding, etc.	375.00
Stable fixtures, blankets, etc.....	85.00
Firemen's suits and badges.....	187.00
1 exercise wagon	290.50
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Total amount	\$8,835.50

Hose No. 1.

LOCATED ON VINE STREET.

1 four-wheeled Amoskeag hose carriage..	\$600.00
2 horses	500.00
2 single harnesses	70.00
1 single sled	40.00
1 hose sled	20.00
2,000 feet fabric hose.....	1,000.00
Furniture and fixtures.....	200.00
Beds, bedding, etc.....	60.00
Stable fixtures and blankets.....	50.00
Firemen's suits and badges.....	120.00
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Total amount	\$2,660.00

Hose No. 2.

LOCATED ON MAPLE STREET, CORNER EAST HIGH.

1 four-wheeled Amoskeag hose carriage..	\$600.00
1 bay horse	150.00
1 exercise harness	30.00
1 swinging harness	50.00
1 exercise wagon	325.00
1,900 feet fabric hose.....	950.00
150 feet leather hose.....	60.00
Furniture and fixtures.....	100.00
Firemen's suits and badges.....	120.00
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Total amount	\$2,385.00

Hose No. 3.

LOCATED ON SOUTH ELM STREET, BAKERSVILLE.

1 combination hose wagon (with ladders)	\$1,000.00
1 pair gray horses.....	400.00
1 pair swinging harnesses.....	100.00
1 pair exercise harnesses.....	50.00
1 exercise wagon	50.00
2,000 feet fabric hose.....	1,000.00
Furniture, fixtures, bedding, etc.....	85.00
Stable fixtures, blankets, etc.....	65.00
Firemen's suits and badges.....	80.00
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Total amount	\$2,830.00

Hook-and-Ladder No. 1.

LOCATED ON VINE STREET.

1 aerial hook-and-ladder truck.....	\$4,200.00
3 horses	800.00

3 exercise harnesses	\$50.00
3 swinging harnesses	150.00
2 extra Bangor extension ladders.....	360.00
7 rubber blanket covers.....	168.00
Furniture and fixtures.....	200.00
Beds, bedding, and furniture.....	75.00
Stable fixtures and blankets.....	60.00
Firemen's suits and badges.....	150.00
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Total amount	\$6,213.00

Chemical Engine No. 1.

LOCATED ON VINE STREET.

1 double tank (60 gallons each) engine.....	\$2,250.00
1 pair black horses.....	400.00
1 pair exercise harnesses	50.00
1 pair swinging harnesses.....	100.00
Furniture and fixtures.....	75.00
Stable fixtures and blankets.....	50.00
Firemen's suits and badges.....	35.00
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Total amount	\$2,960.00

Supply Wagon.

1 supply wagon, with boxes and engineers' lanterns	\$250.00
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Spare Hose.

AT CENTRAL STATION, VINE STREET.

200 feet leather hose.....	\$100.00
500 feet fabric hose.....	250.00
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Total amount	\$350.00

Exercise Wagon.

AT CENTRAL STATION, VINE STREET.

1 four-wheeled exercise wagon with pole, shafts, three-horse hitch, and coal boxes..	\$350.00
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E. W. Harrington Steam Fire Engine.

STORED AT SHEDS OF ENGINE NO. 2.

Old U tank Amoskeag engine (may be worth for exchange)	\$250.00
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Engineer's Department.

Five engineers' white rubber coats.....	\$37.50
Furniture and fixtures	150.00
Total amount	\$187.50

Riverside Hose Co. No. 5.

LOCATED AT CORNER OF OLD FALLS ROAD AND FRONT STREET.

1 four-wheeled hose carriage.....	\$400.00
800 feet leather hose.....	300.00
2 hose-pipes, spanners, etc.....	40.00
Furniture and fixtures.....	10.00
Total amount	\$750.00

Hallsville (Independent) Hose.LOCATED AT CORNER OF MAMMOTH ROAD AND MASSABESIC
STREET.

1 two-wheeled hose carriage.....	\$30.00
500 feet leather hose.....	150.00
Nozzle, wrenches, etc.....	15.00
Total amount	\$195.00

Goffe's Falls Hose Carriage.

LOCATED AT DEVONSHIRE MILLS.

1 two-wheeled hose carriage.....	\$30.00
2 hose-pipes	10.00
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Total amount	\$40.00

Pond Road Hose Carriage.

LOCATED IN BASEMENT OF W. P. FARMER'S BARN.

1 two-wheeled hose carriage.....	\$30.00
500 feet leather hose.....	150.00
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Total amount	\$180.00

Sleeping-Hall.

AT CENTRAL STATION, VINE STREET.

6 beds, bedding, wardrobes, etc.....	\$260.00
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Extra Horse.

1 steel gray horse.....	\$150.00
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Fire Alarm Telegraph.

At cost, including additions previous to 1885..	\$21,625.00
Remodeling in 1885	6,000.00
"Individual tapper" system.....	4,000.00
Additions from 1886 to 1897 (inclusive).....	3,635.00
Wire, ladders, arms, brackets, etc.....	200.00
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	\$35,460.00

Recapitulation.

Engine No. 1.....	\$7,110.00
Engine No. 2.....	8,577.00
Engine and Ladder No. 3.....	10,137.50
Engine No. 4.....	7,560.00
Engine and Ladder No. 5.....	9,487.00
Engine and Ladder No. 6.....	8,835.50
Harrington Engine (old)	250.00
Hose No. 1	2,660.00
Hose No. 2	2,385.00
Hose No. 3	2,830.00
Hook-and-Ladder No. 1.....	6,213.00
Chemical No. 1	2,960.00
Supply wagon	250.00
Spare hose	350.00
Exercise wagon (Central station).....	350.00
Engineer's department	187.50
Riverside Hose No. 5.....	750.00
Hallsville Hose	195.00
Goffe's Falls Hose	40.00
Pond road Hose.....	180.00
Sleeping Hall	260.00
Extra horse	150.00
Fire-Alarm Telegraph	35,460.00
Total	<u>\$107,177.50</u>

BOARD OF ENGINEERS.

Badge No.	NAME.	Rank.	Occupation.	Residence.
1	Thomas W. Lane.....	Chief.....		1937 Elm.
2	Fred S. Bean.....	Asst. and clerk	Machinist.....	102 Orange.
3	Ruel G. Manning.....	Assistant.....	Carpenter.....	55 Douglas.
4	Eugene S. Whitney.....	"	Supt. Elec. Light	N. River road,
5	Clarence R. Merrill....	"	Grain dealer	414 Merrimack

ENGINE COMPANY No. 1.

House, 28 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
7	Charles F. McCoy.	Captain	Machinist.....	50 Mechanic.
8	Frank E. Stearns.....	Lieutenant...	Paper hanger...	289 Lake ave.
18	James L. Brock	Clerk	Tinsmith	21 Market.
6	Charles F. Hall	Engineer	Engineer	28 Vine.
14	Edgar A. Young.....	Asst. engineer	Clerk	369 Merrimack
11	Frank H. Harvey.....	Driver engine.	Teamster	28 Vine.
12	Artemas C. Barker....	Driver hose...	"	28 Vine.
43	Frank B. Marston	Hoseman.....	Carpenter	14 Mechanic.
15	Thomas J. Wyatt.....	"	"	26 Mechanic.
9	Lewis G. Bryant.....	"	"	1451 Elm.
10	Fred A. Lang	"	Machinist	297 Bridge.
17	Melvin Walker	"	Carpenter	43 Nashua.
19	Charles H. Fraser	"	"	9 Mechanic.
13	Nate M. Kellogg	"	Printer	1937 Elm.

ENGINE COMPANY No. 2.

House on North Main Street, 'Squog.

Badge No.	NAME.	Rank.	Occupation.	Residence.
71	Charles G. Ranno	Captain.....	Harness-maker .	270 So. Main.
68	George P. Ames.....	Lientenant....	Supt. Streets ...	210 No. Main.
76	Jeremiah Lane.....	Clerk and driver of engine.	Teamster.....	210 No. Main.
120	Harry C. Morrill.....	Engineer.....	Engineer	53 Beauport.
119	Stephen Thomes	Asst. engineer.	Carpenter	55 Douglas.
69	Arthur W. Whitcomb.	Driver of hose.	Teamster.....	151 Douglas.
72	Samuel A. Hill.....	Hoseman	Carpenter	86 School.
75	Robert J. Hill.....	"	"	86 School.
77	Daniel B. Emery	"	Machinist	Williams.
73	Charles S. Cousins	"	Harness-maker.	151 Douglas.
74	Thomas C. Foote.....	"	Wool sorter.....	56 No. Main.
66	Joseph H. Alsop.....	"	Wool waste sort'r	54 Douglas.
70	Chas. M. Tewksbury ..	"	Clerk, B. & M.R R	113 Parker.
97	James Ried	"	Truckman	431 Granite.

ENGINE AND LADDER COMPANY No. 3.

House on Lake Avenue, corner Massabesic.

Badge No.	NAME.	Rank.	Occupation.	Residence.
86	Frank F. Porter	Captain.....	Manufacturer...	330 E. Spruce.
97	Edwin C. Paul.....	Lieut. engine..	Collector	372 Lake ave.
98	John N. Chase	Lieut. of truck	Overseer	462 Belmont.
148	Orren S. Coburn.....	Clerk	Clerk	386 Central.
122	John P. Walker	Engineer	Machinist	430 Lake ave.
121	Geo. B. Forsaith.....	Asst. engineer.	Engineer.....	455 Hanover.
87	Geo. H. Wheeler	Driver engine.	Teamster	384 E. Spruce.
81	William S. McLeod....	Driver hose...	"	415 Lake ave.
82	Lyman W. Piper.....	Driver truck ..	Dresser.....	398 Merrimack
114	John Wilson	Fireman.....	Carpenter.....	19 Warren.
110	Albert W. Smith.....	"	Clerk	331 Merrimack
84	Walter M. Moulton....	"	Plumber.....	400 Hanover.
80	Clarence Hackett.....	"	Laundryman...	401 Central.
85	John W. Finn.....	"	Painter	501 Wilson.
88	George Taylor.....	"	Mechanic.....	382 Lake ave.
78	George Dunnington..	"	Harness-maker .	401 Manch'er.
79	Lewis N. Dufrain.....	"	Plumber.....	373 Hall.
89	Parker R. Brown....:	"	Clerk	422 Merrimack
153	Edson F. Wyman.....	"	Manufacturer...	389 Lake ave.
105	Herbert E. Dunbar ...	"	Clerk	310 Central.

ENGINE COMPANY No. 4.

House, No. 20 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
20	Lucius B. Snelling.....	Captain.....	Pharmacist.....	103 Walnut.
28	John H. Wales, Jr.....	Lieutenant....	Brick mason....	19 M. S. B.
33	Thos. W. Lane, Jr.....	Clerk.....	Electrician.....	1937 Elm.
21	Joseph H. Gould.....	Engineer.....	Machinist.....	20 Vine.
27	Edward Sargent.....	Asst. engineer	Machinist.....	20 Vine.
31	Jesse W. Truell.....	Driver engine.	Teamster.....	20 Vine.
29	Ellsworth V. Rowe....	Driver of hose.	Teamster.....	20 Vine.
22	Walter A. Clarkson ...	Hoseman.....	Carpenter.....	Walnut.
25	Frank B. Stevens.....	".....	Clerk.....	20 Gore.
23	George Thompson....	".....	Clerk.....	215 Salmon.
24	Harvey E. Harris.....	".....	Laundryman....	414 Manches'r
32	Luther A. Knight.....	".....	Engineer.....	16 Stark.
30	James C. Newton.....	".....	Machinist.....	20 Vine.
26	Alfred Gustafson.....	".....	Machinist.....	20 Vine.

ENGINE AND LADDER COMPANY No. 5.

House, No. 44 Webster Street.

Badge No.	NAME.	Rank.	Ocupation.	Residence.
49	Charles W. Brown	Captain.....	Clerk	16 Hazel.
101	Milo B. Wilson	Lieut. truck...	Mason	48 Blodget.
162	George N. Burpee	Lieut. engine..	Electrician.....	136 Sagamore.
46	Woodbury Davison ...	Clerk	Carpenter	817 Union.
102	Walter Morse.....	Engineer	Machinist.....	54 Appleton.
42	Daniel W. Morse	Asst. engineer	Engineer	1419 Elm.
125	Emil H. Smith.....	Driver engine.	Teamster.....	44 Webster.
124	Benjamin C. Cann.....	Driver truck..	"	44 Webster.
83	Ernest E. Hubbell....	Driver hose...	"	44 Webster.
47	Russell L. Cilley.....	Hoseman.....	Clerk	863 Chestnut
95	Edward H. Clough....	"	"	859 Chestnut.
126	Alvin McLane	"	Carpenter	15 Liberty.
108	Edward L. Towle.....	"	Clerk	72 N. Adams.
123	Charles H. Gile	"	Carpenter	896 Union.
99	Will G. Fraser	"	Dresser.....	655 Chestnut.
41	Frank A. Kinne	"	Machinist	75 Sagamore.
160	George E. Badger.	"	Steam fitter....	55 Pennacook
161	Irving S. Bryant.....	"	Second hand ...	884 Union.
158	Andrew S. Fantom....	"	Cigar-maker ...	1443 Elm.
159	Clarence D. Parker....	"	Clerk.....	31 N. Adams.

ENGINE AND LADDER COMPANY No. 6.

House on Amory and Rimmon Streets.

Badge No.	NAME.	Rank.	Occupation.	Residence.
140	Frank W. Tebbetts....	Captain.....	Loom-fixer.....	312 Cartier.
147	James A. Farley.....	Lieut. engine..	Machinist	385 Dubuque.
142	Frank St. John	Lieut. truck...	Marble finisher .	15 Beauport.
137	William H. Marshall ..	Clerk	Leverman.....	22 Quincy.
132	Charles Edgar	Engineer	Engineer	Engine house.
133	Alcide Provencher....	Asst. engineer.	Machinist	516 Beauport.
134	Alphonso E. Foster ...	Driver engine.	Carpenter.....	Engine house.
135	George A. Cann.....	Driver hose...	Steam-fitter	" "
136	Henry C. Crosby	Driver truck..	Teamster.....	" "
129	John Martin	Hoseman.....	Machinist.....	624 N. Main.
138	Thos. F. Fitzsimmons.	"	Painter	258 Beauport.
141	John J. Conroy	"	Blacksmith.....	268 Beauport.
143	Henry Stein.....	"	Blacksmith.....	393 Hevey.
144	Arthur Provost.....	"	Wool sorter	516 Beauport.
145	John E. Herring.....	"	Loom-fixer.....	402 Rimmon.
131	John C. Gemmell.....	"	Laborer	71 Conant.
128	John H. McCabe.....	"	Clerk	310 N. Main.
139	Gideon Belisle.....	"	"	370 Cartier.
146	Richard F. Galway....	"	Cigar-maker ...	460 N. Main.
130	Calvin Brinn	"	Loom-fixer.....	377 Rimmon.

HOSE COMPANY NO. 1.

House, No. 26 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
36	Joseph E. Merrill.....	Captain.....	Currier.....	21 Ash.
53	John E. Sanborn.....	Lieutenant...	Carpenter .....	.....
48	Albert A. Puffer.....	Clerk	Teamster.....	499 Beech.
37	Henry C. Parsons.....	Driver.....	"	16 Prospect.
52	Charles B. French.....	Hoseman.....	Carpenter	39 M. S. B.
35	Samuel W. Patten.....	"	Belt maker	3 M. S. B.
45	George I. Ayer	"	Electrician.....	28 M. S. B.
51	Edwin W. Merrill	"	Clerk	21 Ash.
34	Charles J. Willey.....	"	Mechanic.....	.....
50	Andrew S. Heath.....	"	Clerk.....	283 East High.
39	George W. Snadden...	"	Plumber.....	373 Bridge.
38	Will H. Nelson	"	Gas-works emp..	100 Brook.

HOSE COMPANY NO. 2.

House on Maple Street, corner East High.

Badge No.	NAME.	Rank.	Occupation.	Residence.
54	John F. Seaward.....	Captain.....	Carpenter	27 Warren.
55	Revalo G. Houghton..	Lieutenant ...	Gas fitter	288 Bridge.
59	Jos. W. Batchelder ...	Clerk	Carpenter	521 Maple.
57	Walter Seaward	Driver.....	Teamster	521 Maple.
62	Julien B. Huntley.....	Hoseman.....	Plumber.....	35 Dutton.
60	Charles W. Powell....	"	Carpenter	540 Maple.
61	Addison Seaward.....	"	"	255 Bridge.
56	Arthur B. Merrill.....	"	"	327 Amherst.
63	James A. Rogers	"	"	761 Beech.
65	John M. Emerson.....	"	Plumber.....	245 Lowell.
58	Thomas Smith	"	Carpenter	24 South.
64	Melvin W. Worthen ..	"	"	22 Jane.

HOSE COMPANY NO. 3.

House, South Elm Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
150	Fred S. Sloan	Captain	Fireman	23 Elm.
151	Elmer R. Laing	Clerk	Teamster	34 Brown ave.
152	Charles H. Rogers...	Driver	"	23 Elm.
153	James H. McKenzie ..	Hoseman	Sash-maker	Elm.
154	William P. Hall	"	"	39 Elm.
155	Henry O. Follansbee .	"	Gas-maker	205 Elm. .
156	William E. Pierson ...	"	Foreman	122 Willow.
157	Frank D. Hardy.....	"	Yard brakeman.	20 Cheney plc.

CHEMICAL ENGINE COMPANY NO. 1.

House, No. 8 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
115	Edward A. Sears.	Captain	Electrician.	247 Concord.
116	Clarence D. Palmer ..	Clerk	Marble dealer...	355 Lake ave.
103	Benj. R. Richardson..	Driver	Machinist	8 Vine.
117	George H. Porter	Pipeman	Carpenter	8 Vine.
44	Asa W. Gage *.....	"	Lineman	239 Beauport.

* Detailed as driver of supply wagon.

HOOK-AND-LADDER COMPANY NO. 1.

House, 18 Vine Street.

Badge No.	NAME.	Rank.	Occupation.	Residence.
111	Roscoe Dyer	Captain.....	Machinist	18 Vine.
92	Oscar P. Stone	Lieutenant....	Clerk	312 Manchest'r
100	Frank M. Frisselle....	Clerk	Editor	58 Myrtle.
94	Charles M. Denyou...	Driver	Teamster	18 Vine.
91	Jerome J. Lovering ..	Fireman	Carpenter	175 Hanover.
104	Harrison H. Cole	"	"	45 M. S. B.
109	George M. Jones	"	Gardener.....	25 Prospect.
107	Henry Heap.....	"	Manufacturer ...	18 Vine.
113	Charles H. Laxon....	"	Carpenter	49 Jane.
90	Henry Johnson	"	Steam-fitter	316 Walnut.
119	Chas. A. Butterfield...	"	Carpenter	26 Vine.
118	Frank A. Pherson	"	Machinist.....	18 Vine.
93	Fred W. Bond.....	"	Loom-fixer	46 Stark.
106	Benj. F. Marsh	"	Carpenter	1480 Elm.
96	Louis F. Kettle.....	"	"	40 Orange.

REPORT
OF THE
SUPERINTENDENT OF SCHOOLS.

REPORT

OF THE

SUPERINTENDENT OF SCHOOLS.

To the School Board and by said Board to the City Councils:

The following is presented as the fifty-first annual report of the public schools of the city of Manchester, the same also being the forty-second report of the superintendent of public instruction, the twenty-first of the present incumbent, and his final report for the year 1897:

ORGANIZATION OF THE DAY SCHOOLS.

By a recent amendment to the Public Statutes, the school year for all public schools throughout the state has been made to comprise the months between two successive Augusts. The state superintendent of public instruction accordingly requires that our annual school statistics shall be compiled and returned to him annually by the first of August, and that they shall represent the results for the year preceding.

The following, therefore, shows the organization of our public day schools from August, 1896, to August, 1897.

The average number of schools for the entire year was 114, reckoned as follows: The equivalent of 9 rooms of high-school grade, 1 more than last year; 29 grammar-

school divisions, 1 more than last year*; 25 middle schools, four more than last year†; forty-three primary schools, the same as last year‡; 2 partially graded schools; 5 ungraded schools; and 1 manual training school.

The total enrollment of different pupils for the year ending August 1 was 5,501. This is only 119 more in the general enrollment than for the year previous; but the average number belonging, the number for which seating capacity must be provided, was this year 214 larger than last year. Of this increase 20 entered the High school and 194 the lower grades. The small increase in the total enrollment, together with an increase larger than usual in the average number belonging, indicates that our school population may be becoming more stable, or less floating. The 194 pupils who represent the increase that entered the grades below the High school occasioned the employment of five of the six additional teachers employed this year,—the 194 additional pupils affording an average of 39 pupils to each of the five new teachers.

There were employed for the care of the 114 day schools throughout the year: Seven male principals of large schools; a lady principal and a general assistant (2)§ for the care of the Training school for teachers; 109 classroom teachers,¶ of whom eleven ladies were also principals of schools containing two or more rooms; and three special teachers of music and drawing; or, in all, 121 teachers for the entire year.

* At the Webster-street school. The formatton of a fourth grammar-school division at the Hallsville school was offset by the discontinuance of an extra fourth grammar division at the Varney school.

† A Bakersville primary of last year became a middle grade this year, and a like change occurred at the Pearl-street school. To these two new middle grades there should be added two other new middle grades for the year at the Wilson school.

‡ A new primary grade in the Varney school and another new one in the Wilson school are offset by the two primaries of last year, which this year became middle grades.

§ Aided by the young ladies constituting the sub-teachers' classes, who had charge of the several classrooms.

¶ Of these 109 four are males, two sub-masters in the High school, the teacher at Youngville, and the teacher of the manual training school.

THE HIGH SCHOOL.

An eminent educator has written: "The common schools have produced the best results where the means of higher education have been most plentiful. Educational improvement works from the top downward, and not from the bottom upward; and the common school is always feeble where high schools, academies, and colleges are wanting."

Colleges, as heads of educational influence, stimulate a healthful ambition for the attainment of advanced scholarship. This leads to the establishment and maintenance of high schools, which in turn become centers of local educational interest and influence. The high schools, constantly uplifted by the requirements of the colleges, themselves not only modify the courses of study of the common schools, but also furnish a large majority of the teachers of the common schools with their higher education.

Hence it is doubtless true that Dartmouth College, by its influence upon and through our High school, determines the character of our lower-grade schools much more largely than do our lower-grade schools determine the character of our High school. It is thus seen that a good high school is necessary to the existence of a first-class system of graded schools, and must be pre-eminent therein.

The time, however, is fortunately past for need of any argument to maintain a place in our system for the high school. Its importance has never been more fully acknowledged and recognized than within the past year. The elegant new schoolhouse that the city government has provided for the home of the High school in this city is the pride of the whole community, and generally believed to be the best possible public investment that could be made either for the present generation or for

those to follow; likely, also, to prove a most profitable financial investment because of its influence upon the city's growth and consequent tax-yielding power.

Much credit for our admirable high-school building is due to the chairman of this board, who, as mayor, had the opportunity that he so wisely improved to secure a building not only fit for present needs but one that will prove sufficiently commodious and materially satisfactory for many years, but also, in the meantime, itself be a potent educator because of its imposing proportions and artistic accessories.

A description of the new high-school building, and an account of its dedication, will be found at the end of this report.

The High school was for two years housed in the Straw schoolhouse, while the new high-school building was being erected. During this period the school, for lack of sufficient rooms, was obliged to drop the study of chemistry and of drawing; otherwise the school was about as well accommodated in the Straw schoolhouse as in the old high-school building.

At the opening of the fall term last September, the High school was transferred back to its former location, and housed in the new building there provided for it.

The new schoolhouse evidently appeared so well adapted to high-school purposes that nearly all who could take one of the high-school courses seemed to seize the opportunity; and, as a consequence, the High school enrolled 405 pupils the past term, this being 82 more than during the fall term last year. The 405 enrolled this fall also constitutes the largest enrollment, by 82, in the history of the school.

The High school was this fall speedily adjusted to its new quarters, and admirably arranged, because of much prior thought and study of the problem by the principal before the opening of the term. Now that pupils will

no longer study in an assembly hall, each teacher will have in constant charge a class studying as well as one reciting. For proper results under such conditions, skilled teachers must be had. Hence I would emphasize my recommendation of last year that only experienced teachers of known success should be employed in the High school; nor will there be serious difficulty in securing them, for they can be had even for the smallest salaries paid in our school. The study of chemistry and of drawing has been resumed, and all the studies will have received such treatment by July as will put the school in readiness at the opening of the fall term for the addition of courses in stenography and typewriting, recommended in my report of last year for reasons therein set forth.

The high-school course of study might be printed in a form that would better indicate its practical application; and, in doing this, opportunity for strengthening the course in the study of the English language should be taken.

TRAINING SCHOOL FOR TEACHERS.

This school is also of pre-eminent importance to our school system, and it long since justified its right to exist; but, as I gave an extended account of its formation, organization, and growth in the semi-centennial report of last year, I deem it unnecessary so soon again to rehearse its history.

During the past year, the school has been in excellent condition; the principal's health has enabled her constantly to stay by the school, and give it the benefit of full services; the chairman of its sub-committee has fortunately been so circumstanced that he has been able to give the school comparatively unusual attention, much to its advantage; and the new plan of selecting sub-teachers has markedly improved the general tone and

character of the material out of which our teachers largely emerge.

The sub-teachers who entered the school last February have constituted one of the strongest classes in the school for many years. The members were selected in accordance with a new plan, which is substantially as follows:

Candidates, upon application for admission to the school, are at once expected to write and return answers to the following questions, furnished in proper blank form:

1. Do your parents reside in Manchester, N. H.? How long have you resided here? If your parents are not now living here, did they ever have a voting or tax-paying residence in this city? How long since? For how long a time?

2. In what town (or city) were you chiefly schooled? In what school did you finish your common (or grammar) school education? In what year? In what high school, academy, or college did you finish your higher education? In what year?

3. Are you a graduate of the Manchester, N. H., High school? If so, in what year? In which of its courses of study? How many years did you pursue it?

4. What experience, if any, have you had in teaching? For what grade of school do you now propose to fit yourself as a teacher? (The answer to this will not prevent a change of choice.)

5. Are you to any degree deaf? Have you any eye trouble? If so, is it so far remedied that you can readily see average sized blackboard writing twenty feet away from you, and at once looking at ordinary book print in hand promptly read it? How many hours for five consecutive days, weekly, can you daily average being upon your feet (standing, walking, or both) without becoming unduly fatigued? Are you subject to any throat trouble?

6. State the frequency of your absences from school during the last two years of your attendance on account of ill health. Indicate this by stating the probable average number of times you think the school records would show the fact per week, month, term, or year.

7. Since leaving school have you gained or lost in respect to power of physical endurance? For the last six months have you in general been well and strong or delicate and somewhat physically weak?

8. To what three or more teachers, clergymen, physicians, or other well-known persons do you refer as ones knowing your personal characteristics sufficiently well to testify as to your character, habits, temperament, etc.?

9. Indicate whether you prefer to enter the Training school in the month of September or February, and in what year, also.

Signature, . Age, .

The sheets containing replies to the foregoing questions are kept on file at the office of the superintendent of schools. He investigates the scholarship record of each candidate during the last year in the grammar school, also during the whole course through the high school*; he makes a record of the results on her sheet containing replies to the questions submitted in the preceding paragraph.

Candidates to the number of four, five, or six, according to the condition of the Training school, are admitted to it at the opening of the fall term in September, and also at the time of making the mid-winter promotions,—about the first of February. Accordingly, in July or August, and again in January, all candidates who may have returned written answers to the questions before named are notified to appear before the sub-committee of the Training school for a personal interview. Though there

* Extract from Regulations of the School Committee, chapter 5, section 2: "Candidates for admission to the Training school must be graduates of some high school or an equivalent."

are likely to be from fifteen to thirty present, each candidate is interviewed separately and privately,—the committee having before them the sheet containing the candidate's scholarship record, and also her written statement in regard to health, purposes, etc. All the candidates are dismissed as soon as individually interviewed, and the committee, as soon as through with the interview, proceed to select a sub-teachers' class of four to six, to enter the Training school soon thereafter.

Thus an effort is made to select the most meritorious of all the candidates seeking admission to the Training school, whenever a beginners' class is therein to be organized, and the plan has thus far shown great superiority over any other heretofore tried.

It may, therefore, be reasonably expected that the Training school will henceforth graduate more healthy, mentally stronger, and consequently better prepared teachers than it has before averaged. This should prove highly important, for the large majority of our lady teachers have for many years been selected from among the graduates of this school,* and much to the advantage of our public schools, which would have looked elsewhere in vain for their equals, salaries paid in the grades they have taught being considered,—though these have been fairly satisfactory in recent years.

In concluding this subject, I may say that of the 102 lady teachers in our schools this fall, not including any lady teachers in the High or in the Training school, 69 of them, or 68 per cent of the lady teachers of our grammar and lower grade schools, are graduates of our city Training school for teachers; and the average has been

* Extract from Rules of the School Committee, chapter 3, section 3: "When an additional teacher is required or a vacancy is to be filled, the sub-committee of the respective schools shall nominate to the board one or more persons qualified for the position to be filled, and the board shall then proceed to a choice, by ballot if more than one candidate is nominated. Qualifications being equal, preference shall be given to graduates of the Manchester Training school."

about 70 per cent for the several terms computed in various years. Hence it may be seen that our schools must in a great degree be affected by the instruction afforded in the Training school, and how important, therefore, it is that this school be kept in first-class condition.

MANUAL TRAINING SCHOOL.

In a sense the high school, the training school for teachers, and the manual training school may be regarded as special schools. Each is distinct from every other school in our system, in respect to both the work and the office which each has to perform. The high school treats of advanced scholarship and a broader culture; it leads to investigation and strength of character, and by reason of the nature of its work it uplifts and inspires the lower schools to higher aims and better results. The training school for teachers not only makes teachers of high-school graduates, but (through the teachers it makes) the training school also in a high degree determines the character of the schools taught by its graduates. The manual training school "emphasizes sense activity and seeks to apply this principle while instructing in other branches"; and, to quote a distinguished writer upon this subject, the leading purposes of manual training in the schools are "to stimulate correctness of perception, soundness of judgment, taste in design, ingenuity in overcoming difficulties, deftness in manipulation, and neatness of wrought as well as of written work; to give the pupil the power to do things, as well as to think and to talk about them; to pay a premium on energy, diligence, originality, and manliness; to place a barrier against idleness as the beginning of all crimes, and save the boy from incompetence and dishonesty; to keep the boys in school until the high-school course is completed; to reduce the difficulty of discipline to a minimum; to awaken and sharpen attention, and give children an appreciation of, and love for, order

and exactness; to accustom the pupil to do thoroughly and well whatever he undertakes; to foster habits of observation, accuracy, and perseverance; to lay the foundation for many trades by presentation and mastery of principles that underlie all trades; to provide a third mode of expressing thought through forms represented and things produced; to produce more complete, and therefore more competent, men by educating all the powers of every boy; to take away the bitterness of the boy who is dull with his books and ready with his hands, because it teaches him to see that he is good for something; to restore his confidence, quicken his interest in school, save his self-respect, and open a welcome door into practical life; to make the boy who chooses a learned profession a more useful and broad-minded citizen; to teach the future man to know, love, and respect labor, to appreciate correctly the value of labor products, and to comprehend the social value of laboring people."

Our manual training school is suffering for lack of sufficient room and for want of sufficient equipment. I cannot better state the case than as I wrote it last year, for the conditions now are substantially the same as then:

"When the manual training school was first opened, it was equipped only for such instruction as could be afforded beginners in the use of tools. The school has now been in existence four years and one term. Some of the boys who entered the manual training school when it was first opened are still members of it, though now high-school pupils. These, as well as those doing second year work in this school, are in sore need of more extended facilities for practice in the use of tools. The manual training school cannot longer be carried on in the most profitable manner without increased facilities for properly advancing its work, as originally intended. Doubt-ers of the utility of this school, before hesitating to give it loyal support, will do well to read the School Report of

1891 (pages 23, 24, etc.), the Report of 1893 (page 42), the Report of 1894 (pages 18, 19, etc.), and school reports of other cities in which the shop form of manual training has been employed; and still more especially should doubters consult the parents of the three hundred (and more) pupils who have patronized the school in this city.

"The first additional need of the manual training school is more room. This may be had at the Lowell-street house by transferring one of the primary schools there to the Straw schoolhouse, now available for elementary schools. The next need of the manual training school is an equipment of three or four wood-turning lathes and a band saw, with electrical or other power. Wood turning is one of the very best features which can be introduced into this line of school work. It is of a character which brings a pupil to the necessity of thought and study; it teaches self-reliance and trains the eye to see and the hand to perform difficult work with precision. Pattern making affords excellent training; it has a practical bearing, also, upon the industries, and will be undertaken if proper facilities are granted.

"Wood carving has already received some attention, of which specimens can be seen at the school; so, also, of writing-desks, bookcases, and four chess boards elegantly inlaid in different patterns, also an abundance of joint forms and other elementary work.

"The manual training school has a fully competent and deeply interested teacher, who has given many extra hours of service to the school. The school is also under the charge of a committee whose chairman is especially well equipped for the oversight of such an institution. The school is only in need of an adequate appropriation to make its work a grand success."

Twenty-five hundred dollars are needed for additional equipment in the manual training school, and to pay its other expenses, during the coming year. The appropri-

ations for support of the public schools are determined by the city government, and it seems strange that the members of the city councils who are supposed especially to represent and care for the interests of the common people should at this point have last year failed to meet the request of this board for the appropriation needed properly to equip the manual training school, for this school is no more a special school than the high school or the training school for teachers. The manual training school's special province is so to train the muscles through the intellect as to give the hand and eye the dexterity and intelligent use which is the foundation of all mechanical trades and the various forms of manual labor,—vocations, indeed, by which the masses of the common people earn their living.

Failure to make the needed appropriation must have been through mistake or misunderstanding or ignorance of what the manual training school is doing, even with insufficient equipment.

Let the members of the city government visit this school and there witness the instruction and work done by one hundred and ninety-five pupils belonging to our eight large grammar schools, where the constituents of the city government send their children for a common school education that is desired and expected to be up with the times, because supplemented by the training which only a properly equipped manual training school can afford. Personal visitation of the manual training school by the members of the city government, without undue prior prejudice, would undoubtedly result in a prompt grant of the appropriation needed for the additional equipment necessary for the proper conduct of the manual training school.

ELEMENTARY SCHOOLS.

All grades of school below the high school are known among educators as elementary schools, the high-school grade being known as a secondary school.

The elementary, or common, schools are of paramount importance and interest, for in them the masses are educated, and of every hundred pupils enrolled in the Manchester public schools, for the school year ending July 1, 1897, there were six in the High school and ninety-four in the lower-grade schools. The percentage of entire enrollment by grades was as follows: High school, 6; grammar schools, 24; middle schools, 21; primary schools, 46; partially graded schools, 1; and ungraded (or suburban) schools, 2.

Ninety-four hundredths of our public school pupils being in the grades below the high school, we may well esteem the character of the elementary schools objects of chief concern. In these schools are taught reading, writing, spelling, arithmetic, use of language (oral and written), grammar, geography, United States history, civil government, the elements of bookkeeping, the elements of the natural sciences (orally), and music and drawing. Of these thirteen subjects, the first five and the last three are taught in the primary grades; and this is well, for in the primary grades there is enrolled nearly one half (46 per cent) of all the pupils in our public schools; and since two thirds of these will end their school life before entering upon the grammar-school course,* it is highly important that they get all the training possible in the eight subjects taught in the primary and middle schools.

The elementary schools have, for the most part, been in excellent condition during the past year. The work, in chief, has been done in a painstaking, thorough, progressive, and interesting way,—which must have resulted in great enjoyment, as well as profit, to all concerned.

* See School Report for 1892, page 17.

The one and first essential for the procurement of a good school is a right soul for it in the form of a teacher, and our schools appear in general to have right teachers. However, there are other things necessary to the existence of good schools, and among these are good buildings. We are in this respect generally well provided, but the Franklin-street and Amoskeag schools are very poorly housed, and better accommodations should be provided for them at an early date. The attention of the city government has several times been called, in former reports, to needed improvements for the housing of the Franklin-street school; and it is at this time, therefore, unnecessary to say more in behalf of this school than that its need of a new house becomes yearly more and more apparent and more pressing.

New Schoolhouse.

The citizens of Amoskeag have, indeed, a real grievance that should be met and redressed at the earliest possible moment. The schoolhouse at Amoskeag is unquestionably the poorest in the city. It is a mere shell, dingy and inadequate, for lack of sufficient rooms, for the proper accommodation of the school population in that neighborhood.

There are but two schoolrooms in the Amoskeag house. In the lower room is a mixed-primary school, often overcrowded, and in the upper room is a school that frequently comprises lower-grammar, higher and lower middle, and one or two of the higher-primary classes; so many classes, indeed, that the higher grammar-school pupils have in recent years been obliged to attend the Webster-street school, much to the inconvenience of themselves and of their parents. The number of these higher-grade pupils from Amoskeag, attending at Webster street, was twenty during the term just closed.

It is, therefore, perfectly apparent that there is unmistakable need of a new four-room schoolhouse at Amoskeag, for three schools should be organized there as soon as rooms can be had for them,—one room for grammar and higher-middle grades, one for lower-middle grades, and a class or two of higher-primary pupils, and the third room for the remaining primary-school pupils. The fourth room would, ere many years, be also needed for school purposes.

This arrangement would, at the outset, result in three partially graded schools, averaging 30 to 40 pupils for each room, under a form of organization that would greatly enhance the value of the efforts of the two highly efficient teachers at Amoskeag, and also afford the people of that village sufficient school accommodations for securing a complete elementary school education for their children within their own precincts, and that, too, when, otherwise, a score or more of them must be required to cross the Merrimack and seek a school a mile or so away.

Clean Schoolrooms.

In addition to commodious and well-built houses for the school accommodation of the city's children, it is fortunate for them that the educational influence of such houses is greatly enhanced by such an adornment of their walls as has been made through the efforts of highly interested teachers, the foremost ladies of the city in behalf of the various women's clubs which they represent, and a few other public spirited and appreciative citizens.

Comparatively, it becomes more than ever incumbent upon the school authorities to see that the schoolhouses are kept as clean as possible, lest the esthetic culture designed for pupils through the influence of buildings erected after designs of architectural beauty, with walls adorned by pleasing and instructive pictures and other artistic decorations, shall by contrast with unnecessary dirt be wholly neutralized and lost.

The schoolhouses, however, should be kept clean primarily because of the necessity of such a condition for the preservation of the bodily health of both teachers and pupils; and it would seem that regulations made by the board for the attainment of desired cleanly conditions should be fully realized, for section two of chapter nine of the rules of the board reads as follows:

“Janitors shall perform their duties subject to the direction and control of the principal (or teacher of the highest grade) of the several schools; and principals shall promptly report in writing to the superintendent every neglect of duty, and any improper conduct, upon the part of janitors. The superintendent shall investigate the occasion of each report, and inform the chairman of the committee on fuel and heating of the particulars.”

The committee on fuel and heating may, I think, be relied upon to right any wrongs,—whether dependent upon the indisposition of a janitor to do his whole duty, or upon the overtaxed ability of one to discharge all the duties assigned him.

The Kindergarten.

In my report of 1895, I alluded to the propriety of an early consideration of the establishment of kindergarten schools as a part of our public school system, and I had designed to write somewhat fully of their utility in this report, but to do so would prolong my report unduly. I therefore suggest, to any particularly interested in this subject, that information may be had in the Lewiston, Me., school report for 1896, which can doubtless be had upon application to the superintendent of schools at Lewiston.

Public Concern.

Aside from the interest and efficiency of teachers employed, and of administrative forces in charge, nothing

can so much improve the efficiency of schools as a deep and abiding interest, and the hearty co-operation, of parents and citizens in general.

Regularity and punctuality of attendance are thereby chiefly attained, so also that respect for, and good-will toward, the teacher which causes her to be looked upon as a friend and fit representative of the parent. From interested parents, too, there is often received intelligent criticisms of text-books in use. When such parents in undertaking to aid their children in school studies find phraseologies beyond their own ready comprehension, and oft repeated, they may well question the wisdom of using a text-book for children which fairly well schooled parents cannot easily understand.

In crucial trials between teacher and pupil, when suspension seems to be the last resort remaining to the teacher, a parent deeply interested for the continued education of his child will generally prove an efficient mediator; for teachers rarely have any prolonged trouble with a child who sees his parents in accord with the teacher's demand for what is proper and right. Nor will any be more ready to acknowledge errors, with due apologies, than teachers whom reasonable parents may convince of mistakes or unjust inferences in regard to the conduct of their children. Therefore in all serious troubles between the teacher and pupil, the parent should early seek a personal interview with the teacher as the only sure means of a full and proper understanding of the difficulty. With this attained, there is usually an immediate end of the trouble in question, and the child, thereby saved the disgrace of possible suspension, may realize the full benefit of his continued schooling because of restored friendly feelings toward his teacher.

Citizens in general are friends of the public schools. They recognize the necessity of their existence and support, and, for the most part, they only ask that they

be made as efficient as possible and be conducted with due economy. The newspapers and all persons eminent in the various so-called professions are likewise friends and loyal and most efficient supporters of the public school. In recognition of their appreciation and friendship, it will be well for all in authority over the public schools so to conduct and administer their affairs as to retain the good-will and generous support so cordially given them by our citizens in general.

EVENING SCHOOLS.

In accordance with a plan outlined in my report of 1895, the evening schools have this year been greatly improved. By requirement of the payment of fifty cents as a registration fee and guarantee of commendable regularity of attendance, those enrolled in the evening schools are pledged to an attendance seven tenths of the evenings in a term. Those who fulfill the requirements of this pledge, as most of them do, receive their fifty cents back again at the end of the term. By the others the fee is forfeited to the evening school fund, as a penalty for the injury they do the school by their irregularity of attendance.

The operation of this plan has resulted in a fullness and regularity of attendance that has rendered the evening schools far more interesting and profitable to their attendants than ever before.

MUSIC.

Prof. Fred B. Bower has been director and head instructor of music in our schools for nearly two years. His work has been progressive and very satisfactory. His assistant is Miss Jennie C. Heath, who has also rendered excellent service. She instructs the primary and lower-middle grades, and the suburban schools also.

The American Music System, introduced in the lower grades of our schools about three years ago, has proved

highly satisfactory, and this year its use has been extended throughout the grammar grades.

At my request, Professor Bower has kindly furnished an outline of the work he has endeavored to have emphasized in the schools during the past year. His statement is as follows:

"Just what has been accomplished in music during the last school year would take too much space to enumerate. I will only touch upon a few salient points. We strive to give pupils a good quality of tone, and so to preserve their voices that when they reach the age of actual voice culture there may be no bad habits to overcome.

"Then, too, we try to give pupils a proper conception of tonal relation, i. e., the intervals of the scales in their relation to one another. We so train the eye and mind that pupils may, especially in the grammar grades, read any ordinary composition in two, three, and four parts with success and understanding. I merely touch upon the writing of scales, transposing them both orally and in writing, teaching the signatures and the key notes. These are means to certain ends, and have to be taught before proper results can be accomplished.

"Few people outside of those actually and closely connected with the schools realize the work necessary to attain the ends desired; and no one appreciates more than I the loyalty and hard work given to music by the regular teachers in the schools, without whose help it would be impossible to reach the results already attained. I believe that music, as taught in our schools, tends to make the children better, both morally and physically; gives to the poorer element the brighter and better side of life, and to those in better circumstances a nobler and more beautiful idea of the good and ennobling things in this, the greatest of all arts, music."

DRAWING.

Prof. J. Warren Thyng has now been special instructor of drawing a year and one term. He has given most excellent satisfaction to all concerned. His many years of prior and varied experience enabled him promptly to recognize the advantageous features of the fine foundation laid by Mrs. Trask for advanced work in drawing, and he has admirably improved the opportunity.

Professor Thyng has greatly broadened the study of drawing by taking pupils beyond the schoolroom, into the realms of nature and of practical life, and to such an extent that his pupils instinctively look at natural forms and objects of architectural beauty critically, for the purpose of determining their basic forms and noting proportions. Nothing could be more helpful to the successful study of drawing and a due appreciation of works of art.

Professor Thyng's methods of instruction are not only pleasing but calculated to win a love for the study of drawing, because of the constant revelations he makes to pupils of the practical relations this study has to most ordinary, as well as extraordinary, things, and to nearly all the vocations of life.

Upon my request of Mr. Thyng for some report of the main features of the work he is undertaking in our schools, he writes as follows:

"Complying with your request, I beg to submit the following report as an outline of the work in drawing in the public schools of this city:

"Perhaps there is no word used to designate any other study pursued in the schools less significant or comprehensive in meaning than the word drawing. It would be interesting to seek the broader definition of the word by going from room to room throughout the entire school system,—beginning at its lower-primary grade and ending with the High school. It is believed that this would

reveal the fact that drawing is something more than the mere development of eye and hand in unison.

“The system of instruction begins with the entering class of the first school year by at once taking up simple, but important, principles; and it passes on from grade to grade and from year to year through the essentials needful in developing the arts of observation, representation, construction, and ornamentation.

“These are assisted in every grade by the use of proper models and objects.

“As the pupil advances in the grading of his other studies, a corresponding advancement is made in the work in drawing; new principles and new applications are added according to a plan calculated to insure uniformity of work, grade for grade, throughout the schools.

“At the outset, to secure accurate habits of observation and reliable knowledge of form, various type solids, or models, are used, beginning with the sphere, because its shape is the one oftenest seen and best known by children.

“These type-forms are not studied as the aim and end of the work. They are taken as a basis,—a dictionary as it were,—by which the pupil is guided and directed in a portion of his work, and from which to gather facts of form and appearance to be used later in all branches of representative and constructive art.

“The bit of clay which the young child molds with his fingers into the form of a sphere, and afterwards changes to the shape of an apple, and then from the apple back to the elementary sphere again, teaches an enduring lesson in form study. Then, when he has drawn its outline on paper, and perhaps has used that circle as the unit design, and picked up some little truth of color, his feet have fairly started in the right path.

“Thus, so far as they have constructional or artistic value, all the various type-forms are used, according to

grade. As the work advances, they are employed to exemplify the principles involved in working drawings, and also to assist in teaching the art of representation, or free-hand perspective, it being the aim all the time to have each principle help another and all lead to something. Any one who will set before himself an object, and study it with reference to its proportions only, will learn how to see it. Then, if he will begin by drawing what seems to be its leading line, he will learn how to draw it.

"The models are used for the elementary study of light and shade; they also are the prototypes of many artificial and natural objects, being represented in nature by vegetable and mineral forms. It is important, all along, to constantly associate and compare with type-forms as many other objects as possible. If the aim of the study of the facts of form in the schoolroom, from models, is to lead pupils to correctly estimate proportion of parts in constructive art, so the observation of appearances of form trains the eye to estimate at a glance comparative size and position in a multitude of things he may afterwards wish to describe, draw, or make. To accomplish this a great variety of objects are placed, in many different positions, before the pupils.

"Little is done by dictation, and less by vague observation; after knowledge of facts of appearance is secured, then follow memory and time lessons; the former as a test, and the latter to secure rapid execution.

"Attention is paid to the ornamental treatment of plant forms, both historically and as they are used for decorative purposes to increase the market value of certain manufactured products.

"Color lessons which include the primary, secondary, and tertiary colors are given; tints and hues, also.

"Pupils, each according to his age, bring drawings, both constructive and representative, made at home from objects seen there. It adds vital interest to the work

when they make sketches of things suggested by a visit to a workshop, or by a journey, or a walk in the garden or field. In winter, at home, it may be that sketches of a house or tower, as seen from a window, are made; or a working drawing for a sled is designed by the evening lamp.

"Plant forms afford valuable materials for nature drawing. Color has been used, with pleasing results, in some higher grammar grades. It may be used profitably to indicate color values in vegetable, mineral, and plant forms, as well as to suggest different woods and metals in construction drawings; likewise in decorative design.

"All along, the higher educational value of the work is kept in view.

"Opportunity has been taken to bring into service such materials as conduce to make the work seem alive, and to extend its usefulness. Models of buildings and other structures, made by pupils, have furnished material for lessons, and occasionally a pupil has posed for the drawing class with good results.

"In all my work the constant and valuable assistance of teachers has been accorded me.

"It has been the aim, when arranging drawing lessons for normal classes in the Training school, to have the work assist in equipping the teacher for duty in the school-room.

"While waiting for the complete furnishing of the large drawing room in the High school, I have given the ten classes in drawing, numbering some over two hundred members, a series of lessons in practical perspective, taking up the work where the grammar schools leave it, to enable pupils to enter upon individual work with more strength and personal independence. The classification will include elementary machine drawing and building construction; object and cast drawing in light and shade with charcoal; the art of illustrating with pen and ink,

using models built by pupils; water-color painting; modeling in clay and freehand perspective."

REPAIRS OF SCHOOLHOUSES.

The data for this part of the school report were kindly furnished by Capt. Charles H. Manning, chairman of committee on repairs of schoolhouses, and the following statements, estimates, and opinions substantially represent the facts and views presented by Captain Manning.

The school board asked for an appropriation of \$6,000 for the repairs of schoolhouses during the year 1897. The city government granted only \$3,000 for repairs upon school property whose estimated valuation is \$550,000. The appropriation granted was, therefore, less than \$5.50 for repairs upon each \$1,000 worth of school property. When it is considered that "repairs of schoolhouses" also include repairs of furniture, heating and ventilating apparatus, fences, and walks, it becomes self-evident that an appropriation, made upon the ratio of the allowance granted this year, is not more than half enough under ordinary conditions.

Owing to an early and serious report of the board of health in regard to defects alleged to exist in the sanitary arrangements of several schoolhouses, and also because of unavoidable repairs upon the roofs of several large houses, as well as the imperative need of numerous small repairs in the schoolhouses generally, it was impossible to keep the school property in proper usable condition without expenditures much exceeding the appropriation of the \$3,000 granted.

Upon pulling apart the water-closet arrangements at the Ash-street schoolhouse, they were found in such a decayed condition it was (with the mayor's approval) deemed unwise to attempt their repair. A large sum was here required for a proper new equipment. The arrange-

ments were renewed, are now highly satisfactory, and first class in every particular.

The recommendations of the board of health in regard to plumbing at the Webster-street school were carried out to the satisfaction of said board.

Only such repairs on plumbing at the Franklin-street school as were unavoidable were made this year, but extensive renewals will be needed at that house next year.

Plumbing arrangements at the Main-street schoolhouse are only fairly satisfactory. At the Training school they are unsatisfactory, and poorly located. The plumbing there will ere long need to be renewed, and removed from present dark quarters. All the other large schoolhouses have modern plumbing in good condition.

At the Webster-street school, there were repairs of the roof and belfry. Partitions in the north hallway were removed to afford more light and better ventilation. The outside of this house will need repainting during the coming year.

At the Pearl-street house a few slight changes were this fall made to satisfy criticisms provoked on account of the appearance of diphtheria, though this disease was not believed by the committee to have originated at the school.

The Ash-street school roof was made tight, though a hard one to repair. The ventilation of this school is not good; and during the coming year a new boiler should take the place of an old one there, which would furnish additional needed heat and also provide means for securing proper ventilation.

A new fence was built around a part of the Spring-street lot, and minor repairs were made about the schoolhouse.

The Franklin-street house is old and difficult to keep in repair. This year several new window sash were provided, the fence fixed, and other minor repairs made.

At the Training school, the boiler should be replaced by a new one for sake of economy of fuel and because the present boiler is too old for much further use.

The Lincoln-street school roof was repaired. This is another of the difficult and costly roofs to keep in order. The assembly hall ceiling was repaired of damages caused by the leaky roof. Considerable kalsomining was also done at this house. There are entry partitions here that should be removed to improve the light and ventilation.

At the Hallsville school the roof was repaired, some replastering was done, and minor repairs were also made.

The Bakersville chimneys were repaired, and the schoolroom ceilings and walls redressed.

At the Varney school, ceilings and interior walls were also redressed. This house is now in excellent condition.

At the Main-street house chimneys were repaired, and four of the schoolrooms were provided with new slate blackboards. During the coming year there should be new floors in the hallways, outside painting should be done, and a new boiler provided. The one there has been in use about twenty years, and is not of sufficient capacity.

The Amoskeag schoolhouse, like that on Franklin street, is old, poor, a constant bill of expense, and insufficient in number of schoolrooms. A new house is imperatively needed.

At the Goffe's Falls school, the ceilings and interior walls were redressed.

The furniture in several of the schoolhouses above named was also redressed.

The committee on repairs of schoolhouses estimate that for the coming year \$9,900 will be needed for general repairs and to provide for new boilers and needed improvements in the plumbing of several schoolhouses.

CONCLUSION.

The year's work of the schools has resulted in a large measure of success. The school board has been harmonious, alert, and acted with wisdom in its endeavors to promote the good of the schools. The various committees have given prompt and effective attention to the needs of their several departments. The attentive truant officer and the efficient clerk in my office, so long faithful and true to her duties, have greatly aided and lightened my labors. Our teachers, always harmonious, and ever co-operative for the good of the schools, have earnestly labored for the moral and mental improvement of their pupils. School life is consequently ever growing more profitable, pleasanter, and more enjoyable.

In such results I exceedingly rejoice, extending thanks of high appreciation to all. I may be pardoned, I trust, for saying that I esteem it a high honor to be accounted the executive officer in a cause and work so great, noble, and good.

Respectfully submitted,

WILLIAM E. BUCK,

Superintendent.

DECEMBER 31, 1897.

NEW HIGH SCHOOL BUILDING.

The following description has been kindly furnished by the architect, Mr. William M. Butterfield:

The main body of the building, fronting the south, is 118 feet by 54 feet, with a wing at each end 40 feet by 86 feet, slightly advanced from the main front and extending 28 feet to the rear of the main body, also with a central wing 28 feet by 56 feet extended to the rear.

A corridor 12 feet wide extends from end to end along the north side of the building, and all classrooms are arranged upon the east, west, and southerly exposures to light and air.

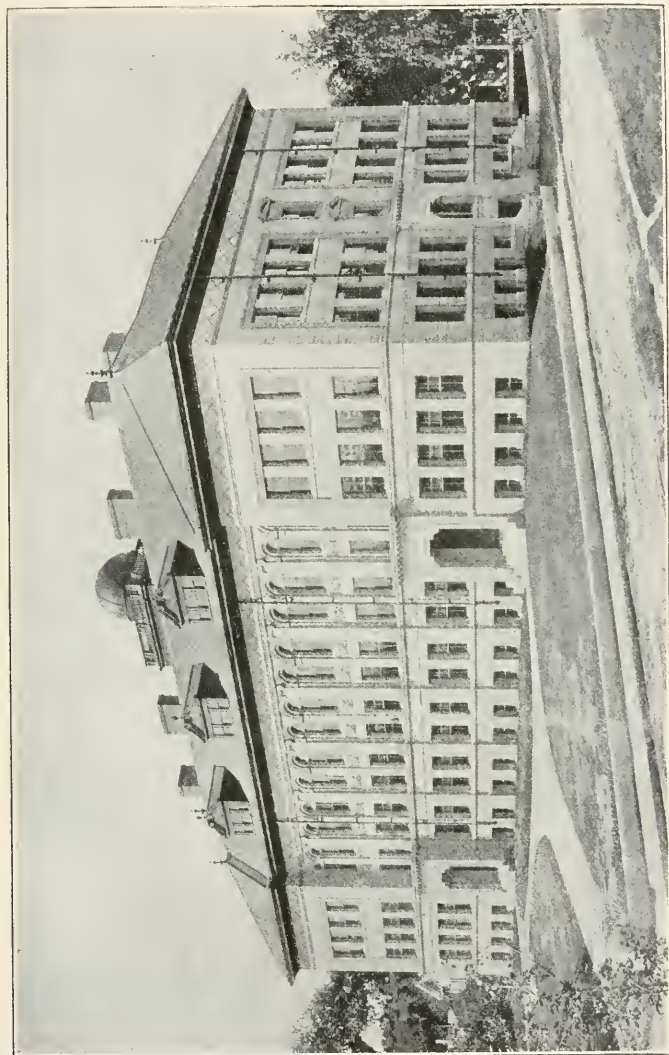
The central wing is occupied on the first floor by the apartments for the principal and the library, while the toilet rooms for both sexes adjoin the outer wings.

In the basement provision is made for an armory 25 feet by 92 feet, and for toilet and recreation rooms; a portion can also be devoted to purposes of manual training, lunch rooms, etc., as may be required in the future.

Six classrooms 25 feet by 36 feet are provided in the first story and eight in the second story, each being provided with wardrobes, bookcases, a teacher's closet, and lavatories; each room is also equipped with a system of electric clocks with program alarm, and a telephone system connecting each room with the principal's room.

In the third story of the west wing, there are chemical and physical laboratories, each connected with a lecture room provided with raised seats; a large drawing-room, a museum, and a classroom are similarly situated on the same floor of the east wing.

The central portion of the third story is occupied by a



NEW HIGH SCHOOL BUILDING,

(For description, see pages following the report of the superintendent of schools.)

beautiful assembly hall, 52 feet by 66 feet, with a spacious stage and anterooms, and it has a seating capacity of 600.

For telescopic observations the building is provided with a revolving observatory constructed above the roof, which is provided with a shutter that may be opened from the horizon to the zenith, the whole being operated by simple mechanical means.

The building is designed in the modified renaissance style, the exterior walls being faced with buff pressed brick, and relieved with terra cotta and molded sandstone trimmings. There are four richly carved entrances.

All walls along the interior corridors and stairways are also faced with buff and molded brick, and the ceilings throughout are finished with paneled metal work and decorated in buff and ivory tints.

The walls of the laboratories are also faced with brick, the floors of which are asphalt. The staircases are iron, the treads being filled with asphalt.

The building is provided with a complete system of heating and ventilation, by what is commonly known as the supplementary system of indirect radiation, by means of coils. The fresh air is supplied from a blower, or fan, located in the basement, capable of changing the air in each room every fifteen minutes. The supplementary coils are controlled automatically by means of thermostats placed in each room, the rooms being severally provided with foul air ventilating ducts leading to the main stacks.

The interior is finished with western ash, the rooms being girted with a wainscoting of molded sheathing and slate blackboards. The floors are of birch, and the windows are supplied with Venetian shades.

DEDICATORY EXERCISES.

The new high-school building was dedicated on the afternoon of September 10, 1897, with appropriate exer-

cises, the character of which may be understood from the following

PROGRAM.

Music, "Unfold, Ye Portals" Gounod
Selected chorus of fifty voices, representing the public schools, under the direction of Prof. F. B. Bower.

Invocation, Rev. B. W. Lockhart, D. D.

Chorus, "Anchored" Watson
Report of the building committee, with the delivery of the building to the city, by Alderman George W. Reed, chairman of committee on lands and buildings.

Acceptance of the building and delivery of the keys to the high-school sub-committee, by Mayor William C. Clarke.

Chorus, "Heaven and Earth Display" Mendelssohn
Acceptance of the keys on behalf of the high-school sub-committee, and delivery of keys to the principal of the school, by Capt. Charles H. Manning, chairman high-school sub-committee.

Acceptance of the keys, with address, by Prof. Albert Somes, principal of the school.

Chorus, "March of Our Nation" Geibel
Dedicatory address, "How far shall we make Utility the end of Modern Education," Rev. William J. Tucker, D. D., president of Dartmouth College.

Music, "America."

A pleasant feature of the occasion was the presence upon the stage of Mrs. C. W. Wallace, the first graduate of the High school, and also of the following former masters of the school: David P. Perkins, Samuel Upton, William W. Colburn, Joseph G. Edgerly, and Edwin R. Goodwin.

After the acceptance of the building by Mayor Clarke, who delivered the keys to Capt. Charles H. Manning, chairman of the high-school sub-committee. Captain Manning spoke as follows:

“As the representative of the high-school sub-committee, it affords me great pleasure to receive these keys as a token that this magnificent building is now ready for the use for which it has been constructed. We of the committee have felt and have urged the need of a new building for some years past, and when His Honor Mayor Clarke came into office some two years and a half ago, we knew from the deep interest he has always taken in the city schools that our time had come. How well he, with the aid of two able lands and buildings committees, has met the needs, no one who has inspected this building needs to be told, as it far surpasses the brightest dreams any of us dared indulge in. I will merely add that we thank the mayor, the city government, and above all the taxpayers that pay the bills, for the finest high school in the New England states, and pledge ourselves to do our best to make worthy use of it.

“To you, Mr. Somes, master of a school worthy to occupy such a building, I deliver the charge of these keys, knowing full well and with entire confidence that you with the aid of your accomplished assistants, will make such use of the building as will redound to the credit of the city.”

Principal Somes made an appropriate reply. He was followed by Rev. William J. Tucker, D. D., president of Dartmouth College, who delivered a highly instructive and eloquent dedicatory address upon the subject given in the program.

Following the close of the exercises, a committee was appointed to secure the organization of a general alumni association.

In the evening the various rooms of the new school-house were taken possession of by classes of the old school, from 1848, the class in which Mrs. C. W. Wallace graduated, to the class of 1897.

Good fellowship prevailed, permeated with memories of days gone by, days of long ago—some of them very long ago, ere the hair was tinged with gray or the voice was weakened by age,—but it was a pleasant occasion. All were young again. All lived over those hours of high-school life, with its joys, its many attractions, its trials,—which were then looked upon as so heavy but now as so trivial. All once more were seated before the teacher's eye, poring over the science of Euclid or Grecian and Latin lore.

The new high-school building was alive from basement to dome. There was not a dull corner in the place. Youth and old age—no, youth and renewed youth—occupied the institution but a few hours before dedicated to knowledge. All met with a handshake and words of well wishing. Alumni were kings and queens. They ruled.

These gatherings will have a lasting effect upon the classes that have graduated from the High school. Many of them had no permanent alumni organization. In the evening the greater part of them organized and voted to hold reunions at stated intervals. All who were notified in time also chose representatives to the general alumni association.

Several of the classes held reunions at the homes of members. These also proved very enjoyable. They were conducted on the same informal plan generally, and for this reason were all the more delightful.

APPENDIX.

- I. POPULATION, ETC.
- II. SCHOOLHOUSES.
- III. SCHOOLS.
- IV. TEACHERS.
- V. ATTENDANCE TABLES.
- VI. TRUANCY.
- VII. FINANCE.
- VIII. SCHOOL YEAR, 1896-1897.
- IX. HIGH SCHOOL GRADUATING CLASS.
- X. WINNERS OF CLARKE PRIZES.
- XI. ORGANIZATION OF COMMITTEES, 1897-1898.
- XII. LIST OF TEACHERS, 1898.
- XIII. SCHOOL YEAR, 1897-1898.

APPENDIX.

STATISTICS.

I.—Population.

Population of the city by last census, 1890.....	43,983
Legal school age, 5 to 21.	

II.—Schoolhouses.

Number of schoolhouses in use.....	24
Number of schoolhouses not in use.....	0
Number of school rooms used for day schools.....	*115
Number of rooms used for High-school classes.....	9
Number of rooms used for Grammar schools.....	29
Number of rooms used for Middle schools.....	25
Number of rooms used for Primary schools.....	†44
Number of rooms used for Partially Graded schools	2
Number of rooms used for Ungraded schools.....	5
Number of rooms used for Manual Training schools..	1

III.—Schools.

(All for both sexes.)

Number of High schools (buildings).....	1
None exclusively Grammar.	

* An average of 114 for the entire year.

† An average of 43 for the entire year.

Number of combined Grammar and lower grade (Middle and Primary) schools.....	12
Number of combined Middle and Primary schools..	4
Number of schools all Primary grade.....	2
Number of Ungraded schools.....	5

IV.—Teachers.

Male teachers in the High school.....	3
Female teachers in the High school.....	6
Female teachers in the Training school.....	2
Male teachers in the Grammar schools.....	6
Female teachers in the Grammar schools.....	(a)29
Female teachers in the Middle schools.....	(b)24
Female teachers in the Primary schools.....	(b)41
Female teachers in the Partially Graded schools..	2
Male teachers in the Ungraded schools.....	1
Female teachers in the Ungraded schools.....	4
Male teachers in Manual Training school.....	1
Special teachers	3
Average number of male teachers.....	(c)13
Average number of female teachers.....	(c)108
Total average number of teachers in day schools...	121
Male teachers in the evening schools.....	7
Female teachers in the evening schools.....	5
Average number of male teachers in the evening schools	5
Average number of female teachers in the evening schools	4
Male teachers in the evening Drawing schools.....	2
Average number of male teachers in the evening Drawing schools	2

(a) Six of the 29 are masters' assistants.

(b) One of the 25 middle schools and 3 of the 44 primaries were in the Training school. They had no regular teachers, being taught by sub-teachers under the direction of the principal and her assistant.

(c) Including special teachers.

V.—TABLE SHOWING THE ATTENDANCE UPON THE VARIOUS DAY SCHOOLS FOR THE YEAR 1896-1897.

SCHOOLS.	Whole No. enrolled.	Whole No. belonging.*		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.	TEACHERS.
		Boys.	Girls.				
High School.....	328	153	175	290	278	95.9	Albert Somes, Master. G. J. Hopkins, sub-master. Harry N. McLaren. Nellie Pickering. Florence M. Locke. Theresa B. Stanton. Mary J. Wellington. Sara Hunt. Annie W. Colby.
GRAMMAR SCHOOLS.							
Franklin-street, First Division.....	47	27	20	39	37	94.9	{ Fred L. V. Spaulding, Master. Alice C. Taggart. Carrie E. Hoit. } Assis'tants. L. May Choate. Carrie E. Head.
“ “ Second “	31	15	15	25	24	96.0	
“ “ Third “	51	14	16	40	37	92.5	
“ “ Fourth “	70	24	22	35	32	91.4	
Franklin-street totals.....	.....	80	73	139	130	93.5	
Spring-street, Fourth Division	65	26	21	36	33	91.7	Lizzie P. Gove.
Lincoln-street, First Division	48	19	27	45	41	91.1	{ Frank S. Sutcliffe, Master. Annie W. Patten. Belle R. Daniels. } Assis'tants. Mabel J. Brickett. Mary F. Barnes.
“ “ Second “	55	25	28	48	45	93.7	
“ “ Third “	56	23	29	46	43	93.5	
“ “ Fourth “	65	29	33	47	44	93.6	
Lincoln-street totals .....	.....	96	117	186	173	93.0	

Ash-street, First Division.....	50	22	28	45	42	93.3	{ Charles W. Bickford, Master. Mary Hickey Dowd. Mabel R. Brown. Lyle D. Glover. Amelia L. Graupner. } Assistants.
“ Second “	54	23	28	46	41	89.1	
“ Third “	57	27	23	47	43	88.1	
“ Fourth “	59	25	31	43	39	90.7	
Ash-street totals.....	97	110	181	165	91.2	
Varney, First Division.....	59	26	32	52	50	96.1	{ George Winch, Master. Barbara E. Joy. Rosabelle M. Franklin. E. Maria Dickey. Ellen E. McKean. } Assistants.
“ Second “	58	23	31	44	42	95.4	
“ Third “	58	23	35	42	39	92.8	
“ Fourth “	50	26	21	38	37	97.4	
Varney School totals.....	100	119	176	168	95.5	
Webster-street, First Division.....	48	23	24	40	38	95.0	{ John Gault, Master. Helen E. Frost. Lenna A. Whitlock. Alta C. Willard. Eva F. Tuson. } Assistants.
“ Second “	38	17	14	30	27	90.0	
“ Third “	59	25	18	41	38	92.7	
“ Fourth “	55	26	20	42	39	92.8	
Webster-street totals.....	91	76	153	142	92.8	
Bakersville, First and Second Divisions.....	23	8	11	18	17	94.4	{ Lizzie A. Burns. Lelia A. Brooks. }
“ Third and Fourth “	48	20	15	31	28	90.3	
Bakersville totals.....	28	26	49	45	91.8	
Hallsville, First and Second Divisions.....	38	14	24	29	27	93.1	{ William H. Huse, Master. Ella F. Barker. Olive A. Rowe. Katie E. Batchelder. } Assistants.
“ Third Division.....	44	15	16	29	26	89.6	
“ Fourth “	59	24	14	33	29	87.9	
Hallsville totals.....	.....	53	54	91	82	90.1
Rimmon, Grammar Classes	24	10	13	16	15	93.7	{ Mary E. Brophy. Mary J. Corcoran. Hellen Morison. }
Wilson, First and Second Divisions.....	36	13	15	23	22	95.6	
“ Third and Fourth “	50	18	25	35	32	91.4	
Wilson School totals.....	31	40	58	54	93.1	
GRAMMAR-SCHOOL TOTALS	612	649	1085	1007	92.8	

* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS.—Continued.

SCHOOLS.	Whole No. en-rolled.		Whole No. belonging.*		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.	TEACHERS.
	Boys.	Girls.	No.					
			Boys.	Girls.				
MIDDLE SCHOOLS.								
Franklin-street, Higher.....	69	24	24	37	33	89.2	Nellie C. Parker.	
" Lower.....	67	18	23	36	33	91.7	Amy K. Northrup.	
Spring-street, Higher.....	60	25	18	41	36	87.9	Emma L. McLaren.	
" Lower.....	73	21	27	42	37	88.1	Fannie D. Moulton.	
Merrimack-street, Lower.....	119	36	23	49	42	85.7	{ C. E. Wing, Principal. Blanche L. Bachelder, Assistant.	
Lincoln-street, Higher.....	60	29	22	48	44	91.7	Mabelle E. Porter.	
" Lower.....	61	22	25	49	45	91.6	Bessie E. Dodge.	
Ash-street, Higher.....	52	23	25	42	39	93.6	Emma J. Cooper.	
" Lower.....	55	19	20	38	35	92.1	Kittie J. Ferren.	
Varney, Higher.....	59	23	25	39	26	92.3	Millie S. Morse.	
" Lower.....	62	19	24	46	43	93.5	Mary J. Walsh.	
Main-street Higher.....	50	15	22	32	30	93.7	Mary W. Mitchell.	
" Lower.....	55	21	15	38	35	92.1	Gertrude A. Burns.	
Rinnon, Mixed.....	45	22	19	29	27	93.1	Mary A. Seavey.	
Webster-street, Higher.....	49	20	23	37	35	91.6	Edith L. Hammond.	
" Lower.....	60	23	25	41	39	95.1	Jean Gillan.	
Bakersville, Higher.....	42	21	20	27	24	88.9	Cora M. Farmer.	
" Lower.....	48	25	17	38	35	92.1	Augusta S. Downs.	
Hallsville, Higher.....	69	28	22	40	36	90.0	Susie G. Woodman.	
" Lower.....	70	23	24	40	37	90.2	Mary L. Ayer.	
Wilson, Higher.....	61	28	22	42	38	90.5	Cora B. Gilford.	
" Lower.....	67	31	26	46	42	91.3	Harriet H. Richardson.	
Pearl street, Higher.....	36	17	18	28	27	96.4	Mary G. Tynan.	
" Lower.....	64	31	23	46	42	91.3	Nellie M. Smith.	
Parker, Mixed.....	41	14	17	28	25	89.1	Mary E. Moulton.	
MIDDLE-SCHOOL TOTALS.....	578	549	979	885	90.4			

PRIMARY SCHOOLS.

Amoskeag, Mixed.....	67	31	31	41	34	82.9	Clydie M. Flanders.
Goffe's Falls, Mixed.....	33	14	19	27	24	88.9	Edith Caldwell.
Franklin-street, Higher.....	64	30	32	58	34	89.5	Nellie M. James.
" Lower.....	67	33	31	38	34	89.5	Susie L. Dodge.
Spring-street, Higher.....	78	18	27	40	36	90.0	Nellie I. Sanderson.
" Mixed.....	74	37	36	41	35	85.4	Annabel Emerson.
" Lower.....	58	29	27	32	28	87.5	Lizabel Savory.
" Lower.....	68	42	23	31	27	87.1	Helen E. True.
Lincoln-street, Higher.....	61	26	31	50	45	90.0	Theodora Richardson.
" Lower.....	68	36	30	51	46	90.2	Hulda C. Graupner.
Ash-street, Higher.....	63	31	24	43	40	93.0	May F. Nutt.
" Lower.....	62	32	23	46	42	91.3	Bertha A. Young.
Webster-street, Higher.....	73	43	26	41	36	87.8	Mary E. Murphy.
" Lower.....	37	21	15	24	21	87.5	Ora E. Goodwin, 2 terms.
Blodgett-street, Higher.....	51	19	19	31	28	90.3	Gertrude H. Brooks.
" Lower.....	65	35	22	35	31	88.6	Edith M. Stebbins.
Lowell-street, Higher.....	90	32	38	41	38	92.4	Helen M. Morrill.
" Lower.....	92	28	31	40	36	90.0	Mary S. Richardson.
" Lower.....	195	69	66	48	44	91.5	Mabel M. Chasse.
Merrinack-street, Higher.....	134	48	30	54	47	87.0	C. E. Wing, principal.
" Lower.....	125	33	26	47	41	87.2	Blanche L. Bachelder.
" Lower.....	147	52	56	66	57	86.4	
Rimmon, Higher.....	56	18	27	33	30	90.9	Hattie S. Tuttle.
" Lower.....	69	36	27	38	35	92.1	Blanche E. Hicken.
Main-street, Higher.....	52	18	17	35	32	91.4	Mary A. Clement.
" Higher.....	60	22	22	38	35	91.2	Lothie M. Clement.
" Lower.....	60	34	20	35	33	94.3	M. Minnie Sturtevant.
" Lower.....	56	28	17	40	36	94.7	Ilatie O. Willard.
" Lower.....	67	34	14	39	35	89.7	Kate T. Clarke.
Varney, Higher.....	81	40	38	37	33	89.9	Mabel F. Robinson.
" Lower.....	68	30	21	43	41	95.3	Marcia M. Moore.
Parker, Higher.....	78	31	40	42	36	85.7	Edie M. Philbrook.
" Lower.....	61	17	26	41	37	91.2	Delle E. Haines.
Bakersville, Higher.....	65	27	34	39	35	88.6	Blanche M. Folsom.
" Lower.....	54	24	19	32	28	87.5	S. Izzetta Locke.
" Lower.....	73	35	35	39	33	84.6	Mary L. Heath.

* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.
 † This school and the other primary similarly marked are together equivalent to one school for entire year.

ATTENDANCE UPON THE VARIOUS DAY SCHOOLS.—Continued.

PRIMARY SCHOOLS.—Continued.	Whole No. enrolled.	Whole No. belonging.*		Average No. belonging.	Attendance daily.	Per cent of daily attendance.	TEACHERS.
		Boys.	Girls.				
Hallsville, Higher.....	80	29	27	50	46	92.0	Bertha L. Kemp.
" Lower.....	66	26	28	37	31	83.8	E. Alfreda Hall.
" Higher.....	34	44	35	31	31	85.6	Annie R. Corson.
Wilson, Higher.....	57	24	22	35	32	91.4	M. Clara Hawks.
" Lower.....	50	27	18	38	33	87.5	Florence L. Abbott.
" Lower†.....	37	16	18	32	27	85.8	Bessie A. Cochran, 1 term.
Pearl-street, Higher.....	57	22	19	41	38	92.7	Ella Hope.
" Lower.....	75	25	38	40	55	87.5	Georgita M. Cheney.
PRIMARY-SCHOOL TOTALS.....	.....	1,366	1,234	1,716	1,532	89.2	
PARTIALLY GRADED SCHOOLS.							
Amoskeag, Grammar and Middle.....	54	15	20	32	30	93.7	Lettie M. Smith.
Goffe's Falls.....	44	23	21	40	37	92.5	Mary L. Brown.
PARTIALLY GRADED SCHOOL TOTALS.....	.....	38	41	72	67	93.1	
UNGRADED SCHOOLS.							
Stark District.....	17	10	7	15	12	80.0	Inez M. Warren.
Harvey District.....	29	12	13	20	17	85.0	Emma J. Ela.
Youngsville.....	39	18	19	21	16	76.2	Louis H. Bailey.
Webster's Mills.....	13	4	8	9	7	77.8	Josephine L. Kiddle.
Mosquito Pond.....	19	8	7	6	5	83.3	Nellie M. Atwood.
UNGRADED SCHOOL TOTALS.....	.....	52	54	71	57	80.3	
Aggregate totals for 1897.....	.....	2,799	2,702	4,213	3,826	90.8	
Aggregate totals for 1896.....	.....	2,772	2,610	3,999	3,651	91.3	

* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.
 † This school and the other primary similarly marked are together equivalent to one school for entire year.

DAY SCHOOLS.

Summary of attendance upon the several grades of public day schools for the year 1896-1897.

GRADES.	Whole number different pupils.		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
High.....	153	175	290	278	95.9
Grammar.....	612	649	1,085	1,007	92.8
Middle.....	578	549	979	885	90.4
Primary.....	1,366	1,234	1,716	1,532	89.2
Partially graded.....	38	41	72	67	93.1
Ungraded.....	52	54	71	57	80.3
Totals, 1897.....	2,799	2,702	4,213	3,826	90.8
Totals, 1896.....	2,772	2,610	3,909	3,651	91.3

EVENING SCHOOLS.

Summary of attendance upon the several grades of public evening schools for the year 1896-1897.

SCHOOLS.	Whole number different pupils.		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.
	Boys.	Girls.			
Merchants' Exchange.....	95	.....	48	42	87.5
Franklin street.....	.....	110	52	46	88.5
Rimmon.....	86	43	65	57	87.7
Drawing schools {	Mechanical.....	31	21	19	90.5
	Architectural.....	25	15	13	86.6
Totals, 1897.....	237	153	201	177	80.4
Totals, 1896.....	288	160	174	140	80.5

Evening School Teachers.

Charles E. Cochran, principal at Merchants' Exchange, for boys.

Assistants—William J. Mooar, A. W. Rowell, W. W. Forbes, and L. H. Carpenter.

Honorie J. Crough, principal of Franklin-street school, for girls.

Assistants—Maggie Linen, Sarah B. Dunbar, and Mary E. Paige.

Arthur W. Morgan, principal of Rimmon school, for both sexes.

Assistants—Julius Hegewald and Tilla E. Johnson.

Evening Drawing-School Teachers.

John M. Kendall and Henry W. Allen.

TRAINING SCHOOL.

Sub-teachers.	Graduated.	Sub-teachers.	Entered.
Bessie Cochrane.	Jan. 29, '97.	Gertrude Adams.	Feb. 1, '97.
Maude M. Greaney.	“ “	Annie B. Angell.	“ “
Mary L. Heath.	“ “	Mary E. McLaren.	“ “
Mabel F. Robinson.	“ “	Grace A. Phillips.	“ “
Katharine Frain.	June 25, “	Ede B. Quimby.	“ “
Lura B. Gage.	“ “	Flora M. Walker.	“ “
Florence L. Abbott.	Jan. 28, '98.	Elizabeth F. Walsh.	“ “
Lillian F. Crowther.	“ “		
Winnifred W. Hall.	“ “		
Florence Richardson	“ “		

GENERAL SUMMARY.

The following table presents the main features of interest pertaining to the attendance upon the public schools for the last ten years. A similar report for twenty years may be found in Report for 1896, page 15.

YEARS.	Average No. schools.	Average No. teachers employed.*	Enrolled in public day schools.	Average No. belonging.	Average daily attendance.	Percentage of daily attendance.	Average attendance evening schools.	Graduated from grammar schools.†	Passed grammar schools for high school.†	Entered high from grammar schools.†	Graduated from high school.	Average No. belonging to high school.
1888.....	78	77	3,712	2,768	2,500	90.3	116	88	80	58	45	185
1889.....	77	76	3,787	2,801	2,581	92.2	177	101	96	73	55	181
1890.....	77	76	3,814	2,795	2,536	90.7	141	121	114	83	33	184
1891.....	84	83	4,071	2,940	2,689	91.5	166	120	101	69	26	217
1892.....	89	89	4,298	3,130	2,837	90.6	174	116	103	67	42	226
1893.....	96 ‡	101	4,775	3,425	3,111	90.8	194	129	127	78	41	227
1894.....	101	107	4,975	3,662	3,336	91.1	153	175	162	112	63	251
1895.....	105	111	5,206	3,817	3,499	91.7	238	168	156	112	40	243
1896.....	108	115	5,382	3,999	3,651	91.3	140	138	130	119	43	270
1897.....	114	121	5,501	4,213	3,826	90.8	177	215	212	127	52	290

* Including special teachers, principals, assistants, etc.

† And the A class in suburban schools.

‡ Also a manual training school for one term, which is included in the number of schools the next four years.

VI.—Work of Truant Officer.

DATE.	Absentees reported from		No. voluntarily returned to		No. reported caused to attend		No. moved out of the city.	No. found sick and unable to attend.	No. otherwise unavoidably detained.	No. not found.
	City schools.	Parochial schools.	City schools.	Parochial schools.	City schools.	Parochial schools.				
September	33	19	5	8	13	12	1	3	9	...
October	92	52	9	11	45	33	6	19	21	...
November	55	33	5	5	37	20	.....	12	9	...
December	16	6	.....	2	4	1	.....	4	11	...
January	99	30	4	9	28	23	1	24	40	...
February	47	29	1	9	23	15	2	14	12	...
March	87	17	6	6	51	12	.....	9	20	...
April	74	44	3	9	47	34	5	6	10	4
May	100	38	4	15	58	31	5	5	19	1
June	74	28	9	5	37	17	9	11	14	...
Totals	677	296	46	79	343	198	29	107	165	5

DATE.	Truants not enrolled found on streets.	No. truants caused to attend.		No. of school age found on streets in school hours.	No. of parents visited.	No. temporarily confined at the police station.	No. brought before the court.	No. of employment certificates granted.
		City schools.	Parochial schools.					
September	46	28	18	164	109	.....	.....	73
October	128	80	48	194	287	3	1	45
November	33	14	19	247	257	3	.....	16
December	10	5	5	131	147	.....	.....	35
January	49	17	32	350	407	.....	.....	39
February	39	23	16	149	179	1	.....	22
March	15	10	5	139	193	.....	.....	38
April	63	33	30	132	205	.....	.....	51
May	42	23	22	268	215	3	.....	57
June	25	15	10	211	165	6	.....	31
Totals	450	245	205	1,985	2,164	16	1	407

VII.—Finances.—1897.

ITEMS OF ACCOUNT.	Resources from appropriations and transfers.	Expenditures.
Salaries of teachers	\$77,037.17	\$77,037.17
Books and stationery	59.13	59.13
Free text-books and supplies	6,320.36	6,320.36
Furniture and supplies	1,451.84	1,451.84
Repairs	5,872.74	5,872.74
Care of rooms	5,720.28	5,720.28
Fuel	6,628.26	6,628.26
Printing and advertising	304.43	304.43
Contingent expenses	3,111.94	3,111.94
Evening common schools	1,388.15	1,388.15
Evening drawing schools	364.36	364.36
Manual training	1,370.86	1,370.86
Totals	\$109,629.52	\$109,629.52

COST OF CITY SCHOOLS.

Expenditures, as above specified..... \$109,629.52

Salaries.

Members of the school board..... \$190.00
 Clerk of the board..... 150.00
 Superintendent of schools..... 2,300.00
 Truant officer

750.00

Total \$113,019.52

Receipts on Account of Schools.

Literary fund \$3,511.68
 Non-resident tuition* 387.92
 Sale of text-books 208.68

Total \$4,108.28

* School tax from Londonderry included, \$38.87.

Net amount raised by taxation..... \$109,111.24

The city valuation for 1897 is \$30,407,302; and hence the rate of school tax for the year is \$109,111.24 divided by \$30,407,302, or .0035 plus. Last year the rate was .0034.

VIII.—School Year, 1896-1897.

Fall term of fourteen weeks opened September 14, 1896; closed December 18. Vacation of two weeks.

Winter term of twelve weeks opened January 4, 1897; closed March 26, 1897. Vacation of two weeks.

Spring term of eleven weeks opened April 12, 1897; closed June 25. Vacation of eleven weeks.

Number of school days in the year, as provided above by the school board, 185.

Average number of days the schools were taught, 175.

(Being closed several holidays, days of "Teachers' Institutes," and half days on account of bad weather or insufficient heat.)

IX.—High School Graduation.

PROGRAM.

Salutatory. "Evolution."

Arthur Ela Buck.

Chorus. "The Caravan".....C. Pinsuti
The Class.

Class History.....Florence Howard James

Oration. "Existing National Perils."

Channing Harris Cox.

Chorus. "Over the Fields of Clover".....Giebel
The Class.

With solos by Miss Kane and Miss Browning.

Class Poem.....Bessie Louisa Neal

ProphecyGeorge Frederick Somes

Chorus. "Estudiantina"P. Lacomé
The Class.

Valedictory. "Education and Public Morals."
Chester Edward Dimick.

Award of Diplomas.....Rev. N. L. Colby
The Ode.

The Class of '97.

Clara Vienna Clement, Class Pianist.

ENGLISH COURSE, THREE YEARS.

Libbie May Badger.	Alfred Stanley Hoyt.
Gladys May Baker.	Theodore Mason Josselyn.
Eda Marian Barr.	Elizabeth Eleanor Kane.
Florence Elizabeth Cass.	David Clinton Lamprey.
Michael Daniel Cody.	James F. Macdonald.
Frank Payson French.	Kathryn A. McKeon.
Sadie A. Gillan.	Lucile Annie Patch.
Abbie Monica Greaney.	Richard W. Sanborn.
Annie Frances Harrington.	Guy Benjamin True.

ENGLISH COURSE, FOUR YEARS.

Annie Esther Walsh.

CLASSICAL COURSE.

Mertie Amy Browning.	Joseph Nightingale.
Clara Vienna Clement.	Sarah Price.
Sybil Grace Crosby.	Jessie Emma Patten.
Herbert Earle Dunnington.	Mary Estella Tallis.
Walter Weeks Eastman.	Charlotte L. True.
Alice Fitzpatrick.	Harriett Bailey Veasey.
Lizzie Marie Flanders.	Florence Margaret Ward.
William Clark Hall.	Grace Mabel Whittemore.
Lora Etta Hill.	Jennie Viola Williamson.
Florence Howard James.	

COLLEGE COURSE.

Arthur Ela Buck.	Bessie Louisa Neal.
Channing Harris Cox.	Clinton Stanley Osgood.
Chester Edward Dimick.	Donald Taylor Page.
George Frederick Somes.	

SCIENTIFIC COURSE.

Bertha Mae Fogg.

TWO YEARS' CERTIFICATE.

Ernest E. Austin.	William Hilton Eaton.
Harry J. Danforth.	Edwin May Rogers.
Frank Blood Dennett.	Mitchel Hirsch Weinstein.

HONOR SCHOLARS.

English Course.....	Frank Payson French
Classical Course.....	Florence Howard James
College Course.....	Chester Edward Dimick

X.—Winners of Clarke Prizes.

FOR EXCELLENCE IN ELOCUTION AT CONTEST, FEBRUARY 3,
1897.

Oratorical Style of Delivery.

Georgia M. Kelty, \$10.	Gladys I. Lougee, \$6.
Minnie A. Rogers, \$4.	

Dramatic Style of Delivery.

Blanche M. Wingate, \$10.	Evangeline Dorion, \$6.
Agnes Shay, \$4.	

Narrative Style of Delivery.

Harold F. Parker, \$10.	Belle Johnson, \$6.
Grace M. Goodrich, \$4.	

XI.— Organization, 1897-1898.

SCHOOL COMMITTEE.

WILLIAM C. CLARKE, MAYOR, Chairman, *ex officio*.

GEORGE B. ROGERS,

President of Common Council, *ex officio*.

- Ward 1. Elliott C. Lambert.
Walter B. Heath.
- Ward 2. Charles H. Manning.
Augustus P. Horne.
- Ward 3. George D. Towne.
Louis E. Phelps.
- Ward 4. Nathaniel L. Colby.
Henry D. Soule.
- Ward. 5. James P. Slattery.
John T. Kelley.
- Ward 6. Henry I. Haselton.
Herbert E. Richardson.
- Ward 7. Edward B. Woodbury.
Edson S. Heath.
- Ward 8. Luther C. Baldwin.
Ned T. Wallace.
- Ward 9. R. Emmet Walsh.
Henry I. Lemay.

VICE-CHAIRMAN OF THE BOARD.

GEORGE D. TOWNE.

CLERK OF THE BOARD.

EDWARD B. WOODBURY.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

WILLIAM E. BUCK.

SUPERINTENDENT'S CLERK.

FANNIE L. SANBORN.

TRUANT OFFICER.

CURTIS W. DAVIS.

STANDING COMMITTEES.

Finance. Mayor Clarke and Messrs. Rogers, Woodbury, Richardson, and Wallace.

Salaries. Messrs. Woodbury, Slattery, W. B. Heath.

Text-Books. Messrs. Baldwin, Towne, Richardson, and Lambert.

Music. Messrs. Walsh, Phelps, W. B. Heath.

Drawing. Messrs. Towne, Baldwin, Slattery.

Manual Training. Messrs. Richardson, Towne, Baldwin.

Examination of Teachers. Messrs. Colby, Lambert, Woodbury.

Fuel and Heating. Mr. Haselton, Mayor Clarke, Messrs. Rogers, Manning, Horne.

Repairs. Messrs. Manning, Phelps, Lemay.

Attendance. Messrs. Phelps, E. S. Heath, Kelley.

Health. Messrs. Soule, Walsh, Towne.

SUB-COMMITTEES.

High School. Messrs. Manning, Towne, Phelps, Slattery, Baldwin, Lambert.

Franklin-street. Messrs. Woodbury, Lambert, Richardson.

Spring-street. Messrs. W. B. Heath, Slattery, Horne.

Lincoln-street and Youngsville. Messrs. Colby, Wallace, Woodbury.

Ash-street. Messrs. Phelps, Walsh, Baldwin.

Webster-street. Messrs. Towne, Manning, Kelley.

Bakersville and Mosquito Pond. Messrs. Slattery, Haselton, E. S. Heath.

Varney. Messrs. Baldwin, Colby, W. B. Heath.
Hallsville and Harvey. Messrs. Richardson, Lemay,
 Towne.

Rimmon School. Messrs. E. S. Heath, Horne, Lemay.
Training School. Messrs. Lambert, Baldwin, Walsh.
North Main-street. Messrs. Horne, W. B. Heath, Slat-
 tery.

Parker. Messrs. Wallace, Richardson, Colby.
Amoskeag and Stark. Messrs. Lemay, E. S. Heath,
 Wallace.

Lowell-street and Webster's Mills. Messrs. Kelley,
 Soule, Lambert.

Pearl-street. Messrs. Soule, Woodbury, Haselton.

Wilson and Goffe's Falls. Messrs. Haselton, Kelley,
 Soule.

Straw School. Messrs. Walsh, Phelps, Manning.

Evening Schools. Messrs. Colby, Manning, Woodbury.

XII.—List of Teachers, 1898.

HIGH SCHOOL.—BEECH STREET.

Master. Albert Somes.
 Sub-Master. George I. Hopkins.
 Assistants. Harry N. McLaren.
 Hiram A. Stearns.
 Nellie Pickering.
 Florence M. Locke.
 Theresa B. Stanton.
 Mary J. Wellington.
 Sara Hunt.
 Annie W. Colby.
 Mary H. Dowd.
 Helen S. Smith.

FRANKLIN-STREET SCHOOL.

Master. Fred L. V. Spaulding, Grammar.

Master's Assistant. Alice C. Taggart.

Assistants. Carrie E. Hoit.

Carrie E. Head.

Emma L. McLaren.

Higher Middle. Nellie C. Parker.

Lower Middle. Amy K. Northrup.

Higher Primary. Alice M. Lamprey.

Lower Primary. Susie L. Dodge.

LINCOLN-STREET SCHOOL.

Master. Frank S. Sutcliffe, Grammar.

Master's Assistant. Barbara B. Joy.

Assistants. Isabelle R. Daniels.

Mabel J. Brickett.

Mary F. Barnes.

Higher Middle. Mabelle E. Porter.

Lower Middle. Bessie E. Dodge.

Higher Primary. Theodora Richardson.

Lower Primary. Hulda C. Graupner.

ASH-STREET SCHOOL.

Master. Charles W. Bickford, Grammar.

Master's Assistant. Mabel Ruth Brown.

Assistants. Amelia L. Graupner.

Marguerite T. Farrell.

Ellen E. Connor.

Higher Middle. Emma J. Cooper.

Lower Middle. Kittie J. Ferren.

Higher Primary. May F. Nutt.

Lower Primary. Bertha A. Young.

WEBSTER-STREET SCHOOL.

Master. John Gault, Grammar.

Master's Assistant. Helen E. Frost.

Assistants. Luna A. Whitlock.
 Alta C. Willand.
 Eva F. Tuson.
 Higher Middle. Edith L. Hammond.
 Lower Middle: Jean Gillan.
 Higher Primary. Mary E. Murphy.
 Lower Primary. Ora E. Goodwin.

VARNEY SCHOOL.

Master. George Winch, Grammar.
 Master's Assistant. Rosabelle M. Franklin.
 Assistants. Esther M. Dickey.
 Ellen E. McKean.
 Millie S. Morse.
 Higher Middle. Mary J. Walsh.
 Lower Middle. Marcia M. Moore.
 Higher Primary. Gertrude Adams.
 Lower Primary. Effie M. Philbrook.

HALLSVILLE SCHOOL.

Master. William H. Huse, Grammar.
 Master's Assistant. Ella F. Barker.
 Assistants. Olive A. Rowe.
 Katie E. Batchelder.
 Higher Middle. Susie G. Woodman.
 Lower Middle. Mary L. Ayer.
 Higher Primary. Bertha L. Kemp.
 Lower Primary. E. Alfreda Hall.
 Lower Primary. Annie R. Corson.

BAKERSVILLE SCHOOL.

Principal. Lizzie A. Burns, Grammar.
 Assistant. Lelia A. Brooks.
 Higher Middle. Cora M. Farmer.
 Lower Middle. Augusta S. Downs.
 Higher Primary. S. Izetta Locke.
 Lower Primary. Mary L. Heath.

RIMMON SCHOOL.

Principal. Mary E. Brophy, Grammar.
 Mixed Middle. Mary A. Seavey.
 Higher Primary. Hattie S. Tuttle.
 Lower Primary. Blanche E. Hicken.

WILSON SCHOOL.

Principal. Mary J. Corcoran, Grammar.
 Assistant. Hellen Morison.
 Higher Middle. Cora B. Gilford.
 Lower Middle. Harriet H. Richardson.
 Higher Primary. M. Clara Hawkes.
 Lower Primary. Florence L. Abbott.
 Lower Primary. Bessie Cochrane.

STRAW SCHOOL.

Principal. Lizzie P. Gove, Grammar.
 Mixed Middle. Gertrude H. Brooks.
 Higher Primary. Nellie M. James.
 Lower Primary. Edith M. Stebbins.

TRAINING SCHOOL.

(Merrimack street, corner Union.)

Principal. Caroline E. Wing.
 Head Assistant. Bertha A. Burgess.

The principal is also assisted by the sub-teachers, i. e., members of the training class. The school embraces the first four years of school work, in the following grades: Lower Primary, Higher Primary, and Lower Middle. There are four rooms, two of lower-primary grade.

SPRING-STREET SCHOOL.

Principal. Annabel Emerson, Higher Middle.
 Lower Middle. Fannie D. Moulton.
 Higher Primary. Nellie I. Sanderson.
 Mixed Primary. Lura B. Gage.
 Lower Primary. Lizabell Savory.
 Lower Primary. Helen E. True.

MAIN-STREET SCHOOL.

Principal. Mary W. Mitchell, Higher Middle.
 Lower Middle. Gertrude A. Burns.
 Lower Middle. Mary A. Clement.
 Higher Primary. Lottie M. Clement.
 Higher Primary. M. Minnie Sturtevant.
 Mixed Primary. Hattie O. Willand.
 Lower Primary. Kate T. Clarke.
 Lower Primary. Mabel F. Robinson.

PEARL-STREET SCHOOL.

Principal. Mary G. Tynan, Higher Middle.
 Lower Middle. Nellie M. Smith.
 Higher Primary. Ella Hope.
 Lower Primary. Georgia M. Cheney.

PARKER SCHOOL.

Principal. Mary E. Moulton, Higher Middle.
 Lower Middle. Lois M. Magoon.
 Higher Primary. Delle E. Haines.
 Lower Primary. Blanche M. Folsom.

LOWELL-STREET SCHOOL.

Principal. Helen M. Morrill, Higher Primary.
 Lower Primary. Mary S. Richardson.
 Lower Primary. Katharine A. Frain.

PARTIALLY GRADED SCHOOLS.

Amoskeag. Lettie M. Smith.
 Mixed Primary. Clydie M. Flanders.
 Goffe's Falls.* Etta L. Stearns.
 Mixed Primary. Maud M. Greaney.

UNGRADED SCHOOLS.*

No. 1. Stark. Inez M. Warren.
 2. Harvey. Emma J. Ela.

*Suburban.

- No. 3. Youngsville. Louis H. Bailey.
 4. Webster's Mills. Josephine L. Riddle.
 5. Mosquito Pond. Nellie M. Atwood.

SPECIAL TEACHERS.

- Music. Fred B. Bower.
 Jennie C. Heath.
 Drawing. J. Warren Thyng.
 Manual Training. Fred E. Browne.

JANITORS.

High School.

Charles F. Jack. Engineer, David T. Robinson.

Franklin-street and Training Schools.

Varnum H. Hill.

Lincoln-street School.

William Stevens.

Ash-street and Pearl-street Schools.

John S. Avery.

Webster-street and Straw Schools.

William J. Powers.

Varney and Parker Schools.

Robert Cook.

Hallsville School.

William H. Newry.

Bakersville School.

Edwin N. Baker.

Rimmon and Main-street Schools.

William F. Conner.

Wilson School.

J. S. Washburn.

Spring-street and Lowell-street Schools.

S. H. Batchelder.

Amoskeag School.

Frank D. Hanscom.

XIII.— School Year, 1897-1898.

Fall term of fourteen weeks opens September 13, 1897; closes December 17, 1897. Vacation of two weeks.

Winter term of twelve weeks opens January 3, 1898; closes March 25, 1898. Vacation of two weeks.

Spring term of eleven weeks opens April 11, 1898; closes June 24, 1898. Vacation of eleven weeks.

REPORT
OF THE
TRUSTEES OF THE CITY LIBRARY.

REPORT
OF THE
TRUSTEES OF THE CITY LIBRARY.

To the City Councils of the City of Manchester:

The Trustees of the City Library respectfully present their forty-fourth annual report of the affairs of the library, and, accompanying the same, the report made to them by the treasurer of the board, giving an account of the sums received and the expenditures made by him in behalf of the board from the funds in their possession and under their control; and also the reports of the two librarians made to the board, giving in detail the statistics of the operation of the library during the time each has been in charge of the library in the past year.

From the reports of the librarians it appears that the library has been open for the delivery of books the same number of days as the two previous years, viz., three hundred and six, during which time seventy-eight thousand one hundred and forty-one books were delivered for home use, an average of about two hundred and fifty-six per day. In addition to the above number delivered for general circulation, sixteen thousand eight hundred and thirteen books were delivered for use in the reading room, an average of about fifty-five per day. The total number of books delivered for general circulation and for use in the reading-room was ninety-four thousand nine hundred and fifty-four, an average of about three hundred and ten per day. As compared with the year preceding, the circulation for home use shows an

increase of eleven thousand six hundred and sixty-three, and the number delivered for use at the reading-room an increase of one thousand three hundred and thirty-three. The total circulation was twelve thousand nine hundred and eighty-six greater than the year previous, and was not only the largest circulation but also the largest net gain in circulation since the library was established.

The number of periodicals regularly received at the library during the year was seventy-eight—fifty-five by purchase and twenty-three by gift—and on the completion of the respective volumes they have been bound and placed upon the shelves for general circulation.

One hundred and thirty-six volumes were withdrawn from circulation during the year, having become so worn and defaced as to be unfit for further use. Of these and of others retired from circulation in previous years for like reasons fifty-four volumes have been replaced at a cost of fifty dollars and eighty-five cents.

The work of re-classifying and re-cataloguing the library, though somewhat interrupted by the change in librarians, has been continued during the year, and the present librarian reports the number of books re-classified as six thousand seven hundred and fifty-one, and the number re-catalogued as seven thousand and twenty-three.

Accompanying the report of the librarian will be found the names of the persons donating books to the library during the year, with the number presented by each person. Among these are sixty-nine volumes of Swedish books purchased by Hon. Moody Currier at a cost of one hundred dollars. Due acknowledgment has been made in behalf of the trustees to all who have in this manner shown their interest in the increase of the library.

The report of the treasurer shows that during the year the sum of one thousand thirteen dollars and fifty-nine cents has been expended for the purchase of books and

the sum of one hundred seventy-nine dollars and eighty-seven cents for the purchase of periodicals, making a total expenditure for both these purposes of eleven hundred ninety-three dollars and forty-six cents. Of the amount expended for the purchase of books, the sum of fifty dollars and eighty-five cents was used for the purchase of books worn out and withdrawn from circulation, and the sum of seventy-two dollars and fifty-six cents was taken from the income of the Dean fund for the increase of that department of the library. Exclusive of these two items the sum expended for the purchase of new books was eight hundred and ninety dollars and eighteen cents, leaving a balance in the hands of the treasurer at the close of the year, of the amount appropriated by the city councils for the purchase of books, of four hundred and seventy-two dollars and fifty-seven cents.

The balances at the close of the year of the accumulated income of the several funds under the control of the trustees were as follows:

Dean fund	\$7,731.07
Mary E. Elliot fund.....	1,340.98
Eliza A. Eaton fund.....	468.77

During the year sixty-one volumes were purchased from the Dean fund at a cost, as above stated, of seventy-two dollars and fifty-six cents.

The incidental expenses of the library for the past year have been three thousand six hundred and eighty dollars and forty-seven cents, included in which amount is the sum of six hundred and eighty-three dollars and twenty cents expended on account of re-classification of the library and additions to the card catalogue.

The expense of conducting the library for the past two or three years has been somewhat larger than the average of former years, occasioned, as stated in the last report, by the employment of additional assistants to the librarian, necessitated by increased circulation and the arrangement keeping the library open additional hours, and

also the additional cost of lighting the library by electricity instead of gas. The items which make up the amount of these incidental expenditures, bills for which have been paid by the city treasurer upon the approval of the trustees from the sum appropriated for the library, will be found in detail in the annual report of the city.

In April last, Miss Kate E. Sanborn, who for the previous three years had acceptably filled the position of librarian, and under whose progressive and faithful administration the affairs of the library had been brought to a high standard of efficiency, tendered her resignation to take effect on the first day of June following.

The trustees accepted the resignation of Miss Sanborn with great regret, and in this report desire to place on record their appreciation of her earnest endeavor for the accommodation of the patrons of the library, and her fidelity to duty, always manifested during the term of her service as librarian. The position made vacant by the resignation of Miss Sanborn was filled by the election of Miss Florence E. Whitcher, of Lexington, Mass., who assumed the duties of the position December 1, 1897.

Miss Whitcher has for a number of years been librarian of the public library of Lexington, Mass., and the trustees entertain no doubt but she is well qualified by experience to fill the position of librarian of our city library and will prove a competent successor to Miss Sanborn.

The trustees return their acknowledgments to the members of the city councils, and particularly to the committee on lands and buildings, for the courtesy and consideration with which their suggestions relating to the library have been received and carried out

APRIL , 1898.

In board of trustees read and approved and ordered transmitted to the city councils.

WILLIAM C. CLARKE,

Mayor.

N. P. HUNT,
Clerk.

TREASURER'S REPORT.

To the Board of Trustees of the City Library:

The treasurer of the board submits the following account of the receipts and expenditures by the board of the funds received on account of the library:

1897.			DR.
Jan.	1.	To balance of appropriation	\$677.35
May	21.	Kate E. Sanborn, catalogues sold..	19.20
		Kate E. Sanborn, book lost.....	2.47
		Kate E. Sanborn, balance of fines..	149.66
	26.	Moody Currier, for books	100.00
	31.	Kate E. Sanborn, catalogues sold..	9.80
		Kate E. Sanborn, books lost.....	7.19
		Kate E. Sanborn, balance of fines..	85.29
June	9.	appropriation for books for 1897...	1,000.00
			\$2,050.96
Jan.	1.	To balance of income of Dean fund....	\$7,291.87
		income of Dean fund coupons	108.00

July	1.	To income of Dean fund coupons	\$90.00	
		interest on accumu- lation of income to July 1, 1897, Manchester Sav- ings Bank, Book No. 16445.	92.56	
		interest on accumu- lation of income to July 1, 1897, Manchester Sav- ings Bank, Book No. 24442.	144.34	
Oct.	1.	income of Dean fund, Guaranty Savings Bank, Book No. 4078. . .	67.34	
		interest on accumu- lation of income to Oct. 1, 1897, Guaranty Savings Bank, Book No. 4557	9.52	
			<hr/>	\$7,803.63
Jan.	1.	To Mary E. Elliot fund balance of interest, Mary E. Elliot fund	\$2,000.00	
			1,230.20	
Oct.	1.	interest on Mary E. Elliot fund to Oct. 1, 1897, Guar- anty Savings Bank, Book No. 2009	68.80	

Oct.	1.	To interest on accumulation of income Oct. 1, 1897, Guaranty Savings Bank, Book No. 2010	\$41.98	
			<hr/>	\$3,340.98
Jan.	1.	To Eliza A. Eaton fund balance of interest, Eliza A. Eaton fund	\$3,000.00	
				353.52
Oct.	1.	interest on Eliza A. Eaton fund to Oct. 1, 1897, Guaranty Savings Bank, Book No. 4327		103.15
		interest on accumulation of income to Oct. 1, 1897, Guaranty Savings Bank, Book No. 4328		12.10
			<hr/>	3,468.77
				<hr/>
				\$16,664.34
1897.				Cr.
Jan.	5.	Paid New England News Co., periodicals		\$11.17
		Publishers' Weekly, periodicals		3.00
		George H. Polley & Co., periodicals		6.00
	15.	Publishers' Weekly, periodicals		5.00
		Journal of Commerce, books		21.60

Jan.	29.	Paid New Hampshire Historical Society, books	\$8.00
	30.	Boston Book Co., periodicals	5.00
Feb.	2.	New England News Co., periodicals	15.72
	12.	Little, Brown & Co., books..	1.50
	13.	Francis P. Harper, books..	4.70
	17.	W. B. Clarke & Co., books...	67.70
	18.	Granite Monthly Co., books	1.25
March	2.	New England News Co., periodicals	13.00
	3.	Little, Brown & Co., books..	2.00
		Publishers' Weekly, books..	3.50
	12.	Publishers' Weekly, books..	3.50
	13.	W. B. Clarke & Co., books..	91.22
	25.	D. L. Miller & Co., books....	15.00
April	2.	New England News Co., periodicals	10.82
	5.	Publishers' Weekly, books..	12.50
	8.	W. B. Clarke & Co. (Dean fund), books	72.56
	29.	W. B. Clarke & Co., books...	19.97
	30.	Little, Brown & Co., books..	1.50
May	5.	New England News Co., periodicals	10.80
	13.	W. B. Clarke & Co., books...	43.77
	21.	Sampson, Murdock & Co., books	2.00
		Cleveland Public Library, books	10.00
		John B. Clarke Co., books...	.50
		George F. Willey, books.....	1.00
		Temple & Farrington Co., books .....	.20
	27.	T. H. Castor & Co., books...	98.57

June	4.	Paid New England News Co., peri- odicals	\$16.25
	5.	Little, Brown & Co., books..	4.25
		W. B. Clarke & Co., books...	58.99
		W. B. Clarke & Co., (replaced) books	50.85
	18.	T. H. Castor & Co., books....	15.68
July	8.	W. B. Clarke & Co., books...	30.44
Aug.	4.	New England News Co., peri- odicals	10.12
	13.	Little, Brown & Co., books..	3.50
	20.	Little, Brown & Co., books..	1.50
Aug.	4.	New England News Co. peri- odicals	16.83
	5.	Little, Brown & Co., books...	2.00
Sept.	4.	New England News Co., peri- odicals	8.68
	6.	Lawyers' Co-op. Pub. Co., books	5.00
	11.	D. Appleton & Co., books...	5.00
	20.	Temple & Farrington Co., books .....	.40
Oct.	6.	New England News Co., peri- odicals	11.29
		W. B. Clarke & Co., books...	150.30
	9.	H. Reinheimer & Co., books	10.00
	12.	Town of Dover, Mass., books	1.70
Nov.	3.	New England News Co., peri- odicals	14.20
	10.	Boston Book Co., books.....	105.00
Dec.	2.	New England News Co., peri- odicals	11.99
	9.	W. B. Clarke & Co., books...	92.69
	16.	Little, Brown & Co., books..	3.75

Dec. 31.	Balance of appropriation.....	\$930.06
	Balance of Dean fund income....	7,731.07
	Balance of Elliot fund and in- terest	3,340.98
	Balance of Eaton fund and interest	3,468.77
		<hr/>
		\$16,664.34

The expenditures for the incidental expenses of the library for the year ending December 31, 1897, the bills for which have been paid through the office of the city treasurer upon the approval of the committee on accounts of the board of trustees, the items of which may be found in the annual report of the city, are as follows:

Services of librarian.....	\$441.66
Services of assistants to librarian.....	1,170.63
Fuel	374.57
Gas	28.98
Electricity	269.18
Insurance	125.00
Binding	175.44
Rebinding	190.29
Re-classification and cataloguing.....	683.20
Supplies	82.65
Printing	59.45
Water	16.00
Newspapers	6.00
Incidentals	57.42
	<hr/>
	\$3,680.47

RECAPITULATION.

Balance December 31, 1896.....	\$3,251.95
Appropriation for 1897.....	4,500.00
	<hr/>
	\$7,751.75

Paid trustees for purchase of books	\$1,000.00	
incidental expenses	3,680.47	
Balance of appropriation December		
31, 1897	3,071.28	
	<hr/>	\$7,751.75

Respectfully submitted.
 N. P. HUNT,
Treasurer of Trustees of City Library.

DECEMBER 31, 1897.

We have examined the foregoing report and find the same correctly cast and properly vouched.

WILLIAM C. CLARKE,
 WALTER M. PARKER,
Committee on Accounts, City Library.

DECEMBER 31, 1897.

I certify that I have examined the several items of receipts and expenditures embraced in the foregoing report of the treasurer of the trustees of the city library, and find the same correctly cast and properly vouched.

JAMES E. DODGE,
City Auditor.

LIBRARIANS' REPORTS.

To the Board of Trustees of the Manchester City Library:

GENTLEMEN,—Following is a report of the work which has been done during the first five months of the year, and the condition of the library June 1, 1897:

Cash on hand January 1, 1897.....		\$171.33
Amount received from Jan. 1 to May 31, 1897:		
For fines	\$112.29	
catalogues, 49 at 20c.....	9.80	
books lost and paid for...	7.19	
	129.28	
		\$300.61
Paid to N. P. Hunt, treasurer, May 21, 1897	\$171.33	
Paid for expressage and incidentals	27.00	
	198.33	
		\$102.28

Since January first 5,195 volumes have been classified, and 5,452 volumes catalogued. They include Language, Literature, Book Arts, and Periodicals. The classes remaining to be done are Philosophy, Religion, Social Science, Medicine, and Reference books. It is not possible to state the number of volumes they contain, but they are, for the most part, small classes. Upon the completion of the catalogue and classification there are a few things to be done which up to this time it has been impossible to do, owing to the pressure of the work in connection with re-arranging and re-cataloguing the library. The pam-

phlets need to be counted, sorted, arranged, and many of them bound. There are also many duplicate volumes which require sorting, among them a large number of United States government publications, which may be returned to Washington and exchanged for volumes which the library lacks. Sixty-nine volumes of Swedish books have recently been received, the gift of ex-Governor Currier. They are now being bound, but have not yet been accessioned or catalogued.

It will be remembered that the report for 1896 showed a large increase in the circulation of books. This increase still continues, and up to this date there has been a much larger increase of each month over the corresponding month of 1896, than there was for 1896 over 1895.

In closing my work as librarian, I cannot refrain from expressing my appreciation of the good will which the trustees have always shown toward me, and the uniform courtesy and kindness with which they have treated me. I realize that the successful administration of any library is as much due to the efforts of the assistants as to those of the librarian, and I cannot speak too highly of the zeal, efficiency, and faithfulness with which my assistants have done their work. Their aid has been invaluable in my endeavor to serve the public, and to bring the library into as high a state of usefulness as possible.

Respectfully submitted.

KATE E. SANBORN,

Librarian.

MAY 31, 1897.

To the Board of Trustees of the Manchester City Library:

GENTLEMEN,—I herewith submit the forty-fourth annual report of the city library:

Whole number of accessions Dec. 31, 1896. . . . 40,558

Added during the year 1897:

By purchase	612	
By gift	432	
Periodicals bound	110	
		—
		1,154

Whole number at present.....		41,712
------------------------------	--	--------

Including:

Maps	16	
Pamphlets	702	
Bound volumes	40,994	
		—
		41,712

Number of periodicals regularly received:

By purchase	55
By gift	23

Number of days the library was open for reading and distribution of books.....

306

Number of volumes delivered for home use..

78,141

Average per day.....

256

Largest number any one day, February 27....

568

Largest number any one month, March.....

7,572

Smallest number any one month, June.....

5,869

Number of volumes delivered in the reading-room

16,813

Average per day.....

55

Total circulation for 1897.....

94,954

Number of cards used on deposit.....

5

Number of cards issued during the year.....

722

Whole number issued since new registration

11,722

Number of cards relinquished during the year

107

Postals sent to delinquents.....

428

Worn-out books removed from circulation...

136

Number of volumes replaced.....

54

Number of books lost or injured and paid for..

12

Number of volumes repaired at the bindery..

921

Number repaired and covered at the library..

15,610

Amount received from June 1 to Dec. 31, 1897:	
For fines	\$143.66
catalogues, 31 at 20c.....	6.20
books lost and paid for.....	3.38
	<hr/>
	\$153.24
Paid for expressage and incidentals.....	39.77
	<hr/>
Balance on hand January 1, 1898.....	\$113.47

During 1897 the total circulation for the year has been almost ninety-five thousand, and attention should be called to the fact that this number does not include the use of reference books, and a great many other works that are constantly being consulted, and of which no record can be made. The number of books issued for home use has shown a steady increase throughout the year, 11,653 more books having been issued than in 1896. The number of books used in the reading-room has not increased so much this year as during the preceding one. An increase in this direction cannot be expected, as the library offers no accommodations for readers, and until a large and convenient reading-room can be provided, the usefulness of the library in this department of its work will be seriously affected. Still, there has been a slight gain during the past year, 1,333 more books having been used in the reading-room than in 1896, making a total gain in circulation during 1897 of 12,986,—nearly 13,000. The library needs a large, well-appointed reading-room, where students, as well as persons using the magazines and reference books, can be accommodated. The present reading-room is entirely inadequate for the growing needs of the city, and the library could reach a much larger proportion of the people if more suitable accommodations were provided.

The number of books classified during the whole year has been 6,751, and the number of those catalogued

7,023. The first of December the work of classifying Religion according to the new system was begun, and is making good progress.

Sixty-one books have been purchased with the Dean fund.

It is hoped that during the coming year the privilege of taking two books at a time will be granted to borrowers, provided that only one of these be a work of fiction. Many of the larger libraries are now adopting this method. The increased use of the library and the accommodation it offers to readers in all cases where it has been introduced are greatly in favor of its adoption. This will involve a change in the delivery system, but it is hoped that the change can be effected with very little, if any, inconvenience to the patrons of the library.

Seven books were missing at the annual examination of 1897. Of this number four were works of fiction, two were volumes of poems, and one was a scientific work.

There are some improvements about the building that are necessary and should be made as soon as possible. New step-ladders are a very imperative need, and should be of an improved kind, made to run quietly, as that will add greatly to the comfort of readers. It would not be necessary to put them in all the alcoves at once, but if a few were provided each year the expense would be comparatively small, the safety of the assistants would be assured, as some of the ladders now in use are really beyond repair, and at the same time the appearance of the library would be very much improved. Linoleum for the reading-room and for some of the aisles and alcoves of the book room is very much needed, as the floor cannot be properly cared for in its present condition, and so much dust is a great injury to the books.

Respectfully submitted.

FLORENCE E. WHITCHER.

Librarian.

DONATIONS TO THE CITY LIBRARY.

	Books.	Pamph.
Aguilar Free Library, New York City...		1
American Conference on International Arbitration	1	
Amherst College		5
Apprentices' Library, Philadelphia, Pa..		1
Austin, Mrs. Josephine.....		1
Baillie's Inst. Free Library, Glasgow....		1
Baltimore, Md.—City Library.....		8
Berlin, N. H.—Public Library.....		2
Bigelow Free Public Library, Clinton, Mass.		1
Birmingham, Eng.—Free Libraries.....	1	4
Boston, Mass.—Public Library.....		1
Bradley, Denis M., Bishop.....	2	
Bridgeport, Conn.—Public Library.....		1
Brookline, Mass.—Public Library.....		1
Brooklyn, N. Y.—Library.....		1
Cambridge, Mass.—Public Library.....		1
Campbell, A. H.....		1
Carnegie Library, Pittsburg, Pa.....		1
Carvelle, H. DeW.....	5	348
Challis, F. H.....	2	
Children's Aid Society, New York.....		1
Christian Science Association, Manchester	1	
Clarke, Arthur E.....	7	
Clarke, William C.....		2
Cleaves, George P.....	1	1
Clough, John F.....		2
Cole, S. M.....	2	

College of New Jersey, Princeton, N. J.		1
Concord, N. H.—Public Library	2	3
“ “ Water Department		14
Conn, Dr. G. P.		3
Currier, Moody	69	
Detroit, Mich.—Public Library		1
Dover, N. H.—Public Library		2
Enoch Pratt Free Library, Baltimore, Md.		1
Evanston, Ill.—Free Public Library		1
Everett, Mass.—Public Library		1
Fairmount Park Art Association, Phila- delphia, Pa.		2
Ferguson, Dr. John	33	
Fitz Public Library, Chelsea, Mass.		1
Fletcher Free Library, Burlington, Vt.		1
French, John C.		1
Friends' Free Library, Germantown, Phil.		1
Grand Rapids, Mich.—Public Library		1
Grant, J.	1	
Green, Andrew H.	1	
Hartford, Conn.—Public Library		1
Harvard College		1
Hawaiian Islands—Department of For- eign Affairs		1
Hayes, J. S.	1	
Henniker, N. H.—Free Library		1
Hoar, G. F.		1
Holland, Denis A.	1	
Hubbell, Mark S.		1
Indian Rights Association		7
Jersey City, N. J.—Free Public Library		1
John B. Clarke Co.	116	13
Kidder, Joseph	1	
Lancaster, Mass.—Town Library		2
Lawrence, Mass.—Free Public Library		1
Library Company of Philadelphia		6

Lowell, Mass.—City Library.....			2
“ “ Water Board			2
Lynn, Mass.—Public Library.....			1
Lytle, J. J.....			1
McCormick Harvesting Machine Company	1		
Maimonides Free Library, New York City			1
Malden, Mass.—Public Library.....			1
Manchester, Eng.—Public Free Libraries			1
Manchester, N. H.—Board of Water Com-			
missioners			1
“ “ Chief Engineer Fire			
Department			1
“ “ City Auditor	16		
“ “ Street and Park Com-			
missioners			1
Massachusetts Institute of Technology...			4
Melrose, Mass.—Public Library.....			1
Minneapolis, Minn.—Public Library.....			1
Moore, W. E.....	2		3
Morse Institute Library, Natick, Mass....			1
Mount Holyoke College, S. Hadley, Mass.			1
National Municipal League, Philadelphia,			
Pa.			1
New England Society in Brooklyn, N. Y..			1
New Hampshire.—Agricultural College..			3
“ “ Centennial Home for			
“ “ the Aged			1
“ “ Ins. Commissioner ...	1		
“ “ Library Commission..	1		1
“ “ Secretary of State....	9		2
“ “ State Library.....	2		
New Haven, Conn.—Free Public Library			1
New York City.—Mercantile Library.....			1
Newark, N. J.—Free Public Library.....			2
Newberry Library, Chicago, Ill.....			3
Newton, Mass.—Free Library.....			1

Nickerson, Sereno D.....		2
Omaha, Neb.—Public Library.....		1
Parker, H. E.....	11	
Paterson, N. J.—Free Public Library....		1
Peabody Institute, Baltimore, Md.....		1
Pennsylvania College of Dental Surgery		1
Peoria, Ill.—Public Library.....		1
Philadelphia, Pa.—Free Library.....		1
Portland, Me.—Public Library.....		1
Poughkeepsie, N. Y.—City Library.....		1
Providence, R. I.—Public Library.....		1
Robbins Library, Arlington, Mass.....		1
St. Louis, Mo.—Mercantile Library.....		2
Salem, Mass.—Public Library.....		3
San Francisco, Cal.—Public Library....		1
Scranton, Pa.—Public Library.....		1
Smiley, Albert K.....		1
Society of Colonial Wars, Washington, D. C.....	1	
Somerville, Mass.—Public Library.....		1
Southbridge, Mass.—Public Library.....		1
Staples, C. J.....	10	
Steward, J. F.....	1	
Stockbridge, E. E.....		1
Stokes, Anson P.....	1	
Straw, Herman F.....		2
Syracuse, N. Y.—Central Library.....		1
Thomas, Douglas H.....		1
Union Publishing Company.....	1	
United States.—Agricultural Department		59
“ “ Bureau of Education....	1	4
“ “ Civil Service Commission		2
“ “ Fish Commission.....	4	
“ “ Interior Department....	1	39
“ “ Labor Department.....	3	6
“ “ Smithsonian Institution	4	11

United States.—State Department.....	2	8
“ “ Superintendent of Documents	137	130
“ “ Treasury Department ..	3	1
“ “ War Department.....	5	1
University of California.....		1
University of Pennsylvania.....		1
Unknown	1	2
Uruguay		1
Venn, Theo. J.....		1
Washington City Free Library.....		1
Whymper, E.....	1	
Wilmington Institute Free Library.....		1
Winchester, Mass.—Public Library.....	1	
Winthrop, R. C., Jr.....	1	
Wisconsin.—Free Library Commission..		1
Woburn, Mass.—Public Library.....		2
Woman's Hospital Aid Association, Concord, N. H.....		1
Worcester, Mass.—Free Public Library..		1
Wyman, E.....	2	

Periodicals Presented.

Le Bulletin.

Bulletin of Bibliography.

Case and Comment.

Catalogue of United States Public Documents.

Great Round World.

Holy Cross Purple.

Home Market Bulletin.

L. A. W. Bulletin of Good Roads.

Manchester.—Advertiser.

“ Budget.

“ Echo (High School).

Manchester.—Emerald.

“ Union.

Manifesto.

Monthly Bulletin Bureau of American Republics.

New Earth.

Notes and Queries.

Official Gazette of United States Patent Office.

Plymouth Record.

Temple.

Tennessee University Magazine.

Travelers' Record.

Veterans' Advocate.

REPORT OF THE CITY SOLICITOR.

REPORT OF THE CITY SOLICITOR.

Gentlemen of the City Councils:

In making a report as City Solicitor, for the year 1897, I would return my thanks for the kind treatment I have received at your hands, and for the confidence which a unanimous re-election for another year would seem to denote. I also would acknowledge the courtesy and consideration received at the hands of all other city officers with whom I have had official relations during the year.

My report for 1897 must be short, unless I should go into unnecessary details, which would be of little interest to you or to the public. No cases in court have been tried during the year, and for the reason stated in my last report, that questions of law must first be determined by the full bench, before a satisfactory trial can be had of a majority of the pending cases; and it is hoped that a decision of such cases will be reached the coming year.

The water-works cases remain in the same condition as in January, 1897. One case was tried by jury several terms ago, and resulted in a verdict for the city, and since then the plaintiffs have manifested no desire to try another, but it cannot be definitely stated when more trials will be demanded.

Maier v. Manchester, which was a suit for personal injuries received by the plaintiff by being thrown over an embankment on South Main street, where there was no railing, was adjusted out of court. One of the board of aldermen was the principal witness against the city, and

it was deemed advisable not to hazard a jury trial, and a settlement, which I deem fair to both parties, was effected.

The following new actions were begun during the year, and are now pending, viz: *Cross, adm'x, v. Manchester, Turcotte, adm'r, v. Manchester, Wilkins v. Manchester, Amoskeag Manufacturing Co. v. Manchester, and Foster et al. v. Manchester.*

Ada Cross, the widow and administratrix of Bert S. Cross, who was found dead in the water-works canal in the summer of 1896, has filed a petition for leave to bring a suit against the city to recover damages for his death, alleging a defective highway owing to an unsuitable fence along the canal.

E. V. Turcotte, administrator of Ferdinand Allaire, has brought a suit for damages for the death of Allaire, who was injured in West Manchester while engaged in cutting down a large tree, while in the employ of the board of street and park commissioners. The questions of law above mentioned arise also in this case.

Joseph Wilkins of Suncook has filed an appeal from the award of the board of mayor and aldermen for damages for land taken in the laying out of Cypress street. N. M. Foster and others have also filed an appeal from the decision of the mayor and aldermen, who refused to lay out a northerly extension of Walnut street.

The Amoskeag Manufacturing Company has brought suit asking for an abatement of a part of its tax for 1897, alleging that the taxable value of its property is but \$4,000,000, instead of \$6,000,000, as fixed by the assessors. This involves over \$40,000, and is perhaps the most important case to which the city has been a party for years. It has been referred by the supreme court to a committee consisting of Hon. J. G. Bellows of Walpole, Hon. A. S. Batchellor of Littleton, and Hon. John Kivel of Dover,

who will try the facts the coming summer and report thereon to the court, who will then decide upon the merits of the case.

The foregoing covers court matters, and I will close this report by stating that the numerous and detailed duties of the position have been performed to the best of my ability, and, I trust, to your satisfaction.

Respectfully submitted.

EDWIN F. JONES,
City Solicitor.

REPORT OF THE MILK INSPECTOR.

REPORT OF THE MILK INSPECTOR.

To His Honor the Mayor and Board of Aldermen of the City of Manchester, N. H.:

GENTLEMEN,—I have the honor to submit the following report for the department of inspection of milk and butter for the year 1897:

I inspected 187 samples of milk and, on the whole, found them quite satisfactory. In a few cases where they ran low or were in some way adulterated I would notify the dealer, and the result proved satisfactory.

LICENSES.

The state law requires that every person who conveys milk in carriages or otherwise, for the purpose of selling the same, within the limits of the city, shall be licensed annually by the inspector of milk, and shall pay fifty cents to the use of the city. Every person selling milk or offering it for sale in a store, booth, or market place, shall pay fifty cents, which fee is paid but once, by the dealer in milk, and is not transferable. When I was first appointed to fill this office I found several owners of stores and restaurants that had changed hands and were selling milk without the required license, but after notifying them they took out the required license.

Number of licenses issued to dealers conveying milk by carriages or otherwise for purpose of sale, 151.

Number of new registrations of storekeepers and keepers of restaurants engaged in the sale of milk, 51.

Total number of registrations, 202.

Amount of money received and turned over to the city treasurer, \$101.

SKIMMED MILK.

No dealer in milk, and no servant or agent of a dealer, shall sell, exchange, or deliver, or have in his custody or possession with intent to sell, exchange, or deliver, milk from which the cream or any part thereof has been removed, unless in a conspicuous place above the center, upon the outside of every vessel, can, or package from or in which such milk is sold, the words "skimmed milk" are distinctly marked in letters not less than one inch in length.

There has been but one complaint made to me that the law was not carried out. Upon investigation I found that the complainant was not acting in good faith, and nothing was done with the case.

Property of the city held by the inspector at present is as follows:

City records, milk grip, 10 pint cans, 1 case containing lactoscope, thermometer, 2 glass cylinders for cream tests, etc., 1 package filter paper, 2 specific gravity scales, 1 pipette, and 3 odd pieces of chemical apparatus.

ARCHIE F. PRECOURT,

Inspector of Milk.

REPORT
OF THE
OVERSEERS OF THE POOR.

REPORT
OF THE
OVERSEERS OF THE POOR.

To His Honor the Mayor and Gentlemen of the City Councils:

In compliance with the ordinance of said city, the Overseers of the Poor herewith present their annual report for the year 1897:

The whole number of families that have received more or less assistance off the farm during the year has been one hundred and forty, consisting of four hundred and fifty persons, all of whom have a settlement in this city, except those people whom the overseers of the poor found in a destitute condition and who could not obtain help from any other direction. Section 1, chapter 84, Public Statutes of New Hampshire.

The whole number of paupers supported at the county farm during the year has been eight, more or less of the time, at a cost of two dollars per week for each person, all of whom are insane and incurable.

The whole number of minor children supported at the State Industrial School during the year has been five, more or less of the time; at a cost of one dollar and fifty cents for each minor child.

In compliance with sections 1 and 2, chapter 116, Public Statutes of New Hampshire, passed at the January session, 1895, in relation to dependent minor children being supported at almshouses, the said minor children

having a settlement in this city are supported as follows:

At St. Patrick's Orphans' Home, Hanover street, six two months of the time at a cost of one dollar and twenty-five cents per week for each minor child.

At Notre Dame de Lourdes Home, in charge of the Gray Nuns, West Manchester, four minor children, at a cost of one dollar per week for each minor child, more or less of the time.

All of the said minor children have educational advantages.

The overseers of the poor have given eight hundred and twenty orders to the paupers off the farm during the year. The said orders consisted chiefly of orders for groceries, fuel, medicine, board and clothing, care and emergencies.

The whole amount allowed to the several persons who applied for assistance from time to time, from the several wards of the city, during the year, was as follows:

Ward 1.....	\$284.65	
Ward 2.....	51.90	
Ward 3.....	395.30	
Ward 4.....	383.37	
Ward 5.....	1,817.13	
Ward 6.....	663.13	
Ward 7.....	157.25	
Ward 8.....	675.33	
Ward 9.....	1,281.51	
	<hr/>	\$5,709.57

MISCELLANEOUS BILLS ALLOWED.

Printing and stationery.....	\$37.75	
F. X. Chenette, burial of Fillia Welcome	17.50	
State Industrial School, board of inmates	2,878.00	
	<hr/>	\$2,933.25
Total amount allowed.....		<hr/> \$8,642.82

Cash collected and paid to the city treasurer
as follows:

From Perre Daniel, for board of Emma Daniel	\$16.00	
From county of Hillsborough, for board of inmates State Industrial School	2,689.50	
	<hr/>	\$2,705.50
Total cost to the city.....		<hr/> \$5,937.32

There are uncollected bills due the city amounting to
four hundred and thirty-nine dollars and seventy-two
cents.

All of which is respectfully submitted.

Ward 1, WILLIAM H. MAXWELL,

Ward 2, T. L. QUIMBY,

Ward 3, B. F. GARLAND,

Ward 4, CHARLES B. CLARKSON,

Ward 5, PATRICK COSTELLO,

Ward 6, CHARLES FRANCIS,

Ward 7, WILLIAM MARSHALL,

Ward 8, C. S. McKEAN,

Ward 9, THOMAS C. STEWART,

Overseers of the Poor for the City of Manchester.

A true copy of records. Attest.

WILLIAM H. MAXWELL,

Clerk of the Board.

**Aid to Soldiers, Sailors, and their Dependent
Families.**

To the Mayor and Gentlemen of the City Councils:

In compliance with sections 1 and 2, chapter 81, Laws
of the state of New Hampshire, passed at the June ses-
sion, 1881, in relation to indigent soldiers and sailors of

the War of the Rebellion, the overseers of the poor here-with present their annual report under the head "Aid to soldiers and sailors and their dependent families," for the year 1897.

The whole number of indigent soldiers and sailors who have had more or less assistance during the year has been ten, consisting of six families, all of whom have a settle-ment in this city, at a cost of \$128.74.

All of which is respectfully submitted.

Ward 1, WILLIAM H. MAXWELL,

Ward 2, T. L. QUIMBY,

Ward 3, B. F. GARLAND,

Ward 4, CHARLES B. CLARKSON,

Ward 5, PATRICK COSTELLO,

Ward 6, CHARLES FRANCIS,

Ward 7, WILLIAM MARSHALL,

Ward 8, C. S. McKEAN,

Ward 9, THOMAS C. STEWART,

Overseers of the Poor for the City of Manchester.

A true copy of records. Attest.

WILLIAM H. MAXWELL,

Clerk of the Board.

REPORT
OF THE
BOARD OF HEALTH.

REPORT OF THE BOARD OF HEALTH.

To His Honor the Mayor:

The Board of Health submit the following report for the year 1897:

Mr. John C. Bickford having been appointed to succeed William J. Starr, the board organized by re-electing Dr. C. W. Downing president and William K. Robbins clerk. The last of April we were called to mourn the death of Dr. C. W. Downing, and May first Dr. William M. Parsons was appointed to serve out the unexpired term. Mr. John C. Bickford was then elected president of the board for the remainder of the year.

EXPENDITURES.

Salaries	\$629.17
Labor	2,365.38
Office furniture	61.39
Printing and advertising.....	186.83
Postage and envelopes.....	24.65
Traveling expenses (teams and carfare).....	178.10
Express	11.95
Telephone service	36.75
Gas	4.24
Legal expenses	13.00
Fumigating lamps	24.60
24 samples water analyzed.....	60.00
Experimental plumbing work.....	24.60
Antitoxine	228.93

Diphtheria examinations	\$140.00
Disinfectants	236.60
Aid given families quarantined.....	98.27
Board, fuel, etc., for pest-house.....	83.01
Sundries	36.39
	<hr/>
	\$4,442.86

The expenditure for labor is somewhat less than usual this year on account of changes in the inspectors employed. Disinfectants and apparatus therefor have cost more than usual, for two reasons: First, because this is the first whole year in which the board has done all the fumigation after contagious diseases, and second, because the formaldehyde process is somewhat more expensive, and, besides, there was a larger number of cases of contagious disease. Also the outbreak of diphtheria at the Children's Home and among the pupils attending the Pearl-street school occasioned an extra amount of fumigation. In all 601 rooms were fumigated, making the average cost per room about 39 cents. The process has worked well so far as we can determine, and from the reports of many capable investigators who have made careful and satisfactory tests with it we feel warranted in continuing the use of the formaldehyde gas fumigation. The expense for antitoxine and culture tests for diphtheria is also larger, because the physicians have employed them more and apparently with good results, since the fatality from this disease has been reduced by eleven per cent compared with that of last year.

MEETINGS.

The regular weekly meetings have been continued, the time having been changed from Wednesday evenings to Tuesday evenings at seven o'clock. The public have become accustomed to this, so that special meetings have been seldom necessary. About the usual number of special meetings for trips of inspection have been held.

INSPECTORS.

Early in the year Mr. Clough severed his connection with the board and no inspector was hired in his stead until July, when Mr. William B. Blake was employed.

Mr. Barry retired May first and Mr. Carl O. Seaman was employed to give special attention to the enforcement of the plumbing regulations.

THE PLUMBING RULES.

Mr. Seaman is a journeyman plumber, whose skill and good judgment have been well shown in this city by actual experience at the trade. Before beginning his duties as inspector he went to Boston and worked with the plumbing inspectors in all parts of that city. Entering upon his duties he modified the methods of inspection previously employed in many respects, the most important being the system of calking in all ferrules with lead-pipe starts, and calking in iron traps, then applying the water test to all with the stack. This system has worked very satisfactorily.

It seems necessary to use cellar drains in some sections of the city, and these are usually connected with the main sewer. As a precaution of safety when the main sewer becomes clogged, or is flooded by hard showers, the board have required such cellar drains to be provided with back-water valves or some other device satisfactory to the plumbing inspector.

Many requests are still made for permission to locate water closets in cellars and basements, and in all such cases the premises are examined by the plumbing inspector before permission is granted, and the citizens have thus been able to avail themselves of the valuable counsel of a skilled and disinterested plumber in the location and arrangement of their plumbing, often at a saving of expense to themselves and always avoiding unsanitary conditions.

There are a great many varieties of sanitary traps upon the market and an equal variety of claims made for and against them. The board has been often asked to express an opinion for or against such traps, but has refrained from doing so from lack of unbiased information. Therefore the plumbing inspector was instructed to use his spare moments in fixing up at the office an apparatus for testing traps. This is now completed and most of the varieties of traps have been secured and provided with windows so that the seal and the action of liquids passing through may be observed, and we shall soon be in possession of valuable original information upon this subject, and citizens who are interested may visit the office and see for themselves the action of any trap on the market.

The regulations in general have been well complied with and the plumbing workmanship of the city steadily improves from year to year.

SCHOOLHOUSES.

Early in the summer the plumbing inspector was instructed to make an examination of the drainage of all the schoolhouses, which he did, and his report, which is herewith included, was sent to the school board and the committee on lands and buildings of the city councils. All the principal defects noted were repaired during the summer vacation and at the Ash-street school the entire plumbing system was remodeled and relocated.

A number of cases of diphtheria having occurred among the pupils attending the Pearl-street school, it was closed by the school board and the matter referred to the board of health. Careful inspection and examination of the building was made by the board in connection with the sub-committee of the school. While nothing could be found to indicate that the disease originated there, it seemed quite probable that it had been trans-

mitted from pupil to pupil there. The place was thoroughly fumigated, the basements whitewashed, the drinking cups boiled in soda solution, and the stock of lead pencils burned. The building was declared sanitary and the schools opened, a special report of the findings being submitted to your honor at the time.

TENEMENT BLOCKS.

About the same number of tenement blocks required attention this year as last. In some the entire system of drainage was condemned and modern arrangements substituted at the instance of this board. There are yet many blocks where the drainage is far from satisfactory and must soon be replaced. In some places the old vaults have been connected with the sewer, making latrines of them, in others small latrines have been installed in place of water closets. All these, as usually cared for in tenement property, are nuisances and no better—often worse—than the old privy vaults, and their eradication is equally necessary. In a number of places where sewer connections have been required, the old-style direct-pressure water closets have been set outside, but it is found that to save the expense of water, and the danger of freezing, the water is shut off for weeks at a time, and they become more offensive and dangerous than the old vaults. The setting of water closets out of doors is now earnestly discouraged by the board.

DISPOSAL OF GARBAGE.

It is a matter of sincere regret that the past year has brought no improvement in the place or manner of disposing of waste and rubbish. We would therefore reiterate the suggestions of previous reports and if possible make them more emphatic.

The clean swill is gathered by private swill gatherers

and the city-farm teams; the latter taking what is left by the former, who often mix what they leave with ashes and dirt to such an extent that it cannot be taken as swill and is left by both. This, with all wastes and refuse of the streets and alleys, is collected by the scavenger teams of the street department. There is not the slightest effort made to keep the perishable and imperishable matters separate, as required by city ordinance. This is now, as in the past, carted to low land and used as filling, ostensibly for streets but often practically for building lots, the principal locality being along the valley of Cemetery brook, which is typical of all the others. Formerly these fills known as the city dumps were a considerable distance from residence property, but as the city has grown, dwellings have been erected all about them, some almost on them.

What are these dumps then? Simply huge piles, often twenty to thirty feet deep, of all imaginable kinds of refuse, the greater bulk being of perishable matter, much of it when gathered being dry enough to burn. The rest is swill that has been spilled or deliberately mixed with so much other rubbish that it is unfit for feed or fertilizer, tin cans containing portions of vegetables, fish, or meat, papers and rags that are too much soiled to be fit for sale as paper stock, and the promiscuous materials gathered from lawns, gardens, and the back streets. The ashes, brick, lime, etc., constituting imperishable matter is ostensibly used to cover the rest, but practically it is mixed with the rest and no attempt is made at covering worthy the name.

In these great piles there is always moisture enough to keep up a fermenting and rotting process. They are perfect culture media for all sorts of germs and from the nature of the material it is safe to presume the presence of all those causing the common contagious and infectious diseases. For these germs there is ample chance

for distribution by the winds, by rag pickers stirring up the surface, by flies swarming about the filthier portions, and probably most of all by rats which infest these dumps in great numbers, and overrun the neighboring dwelling houses. They burrow through the entire mass making holes which serve as vents for the foul and dangerous odors and gases that are constantly being generated in volumes far exceeding all the sewer gas of the entire city. A small heap of such refuse upon any street or premises in the city would be complained of as a nuisance and we would compel the owner or person responsible to remove or abate it. But these immense dumps which are much more dangerous nuisances, and which it is quite impossible to remove or abate, are built by officials of the city, and so far we have been unable to prevent it.

Collecting refuse from many streets and piling it up in a few to rot is not cleaning the city. The material might better lie scattered about the streets exposed to the purifying effects of sun and air. Therefore of the \$16,000 appropriated for scavenger service all has been worse than wasted so far as the sanitary condition of the city is concerned, except the small proportion paid to the city farm for work that has been well and faithfully performed.

We therefore consider these dumps as unclean, unsightly, unsanitary, disgusting, and dangerous to the public health. Not wishing to take our own views as final in so important a matter, we early in the year sent a circular letter to the physicians of the city asking their opinion of the method adopted by the city for the disposition of wastes. Thirty-one replies were received, all condemning the system and declaring it dangerous to the public health. A communication was sent to the city government regarding this matter, and certain amendments to the city ordinances were proposed which it was thought might aid in the separation of the various kinds

of refuse and thus improve the sanitary condition of the city. Both the communication and the amendments were disregarded and the same old system continued without the slightest endeavor to remedy the evils complained of. In view of this fact and the numerous complaints of citizens, your board felt compelled, in justice to themselves, the complainants, and the general public, to ask the supreme court to issue an injunction against the creation of these dumps within the sanitary limits of the city. Considering the plea of poverty and promises of greater care in collecting on the part of the officials having the work in charge, the matter has been allowed to rest without a hearing to the present time, but the board feels that it is their duty to ask the court to give an early hearing upon the petition and determine whether or not the public health is to be continually endangered in this matter.

Whatever the manner of final disposal, it is essential that the perishable and imperishable wastes be kept apart, and the first condition necessary to this end is that they be collected separately, because people will not keep them separate when all are mixed in the same cart for removal. To aid in this direction we would renew our request that private swill gatherers be put under license regulation.

The only really sanitary manner of final disposal of such refuse is by burning. Crematories such as would dispose of all the refuse of this city are in successful operation in other cities. If such cannot be had on account of the expense, then only the moist and putrifying portion should be collected and that taken to a considerable distance from the city and there disposed of under orders from the board of mayor and aldermen as specified in chapter 9 of the city ordinances.

ISOLATION HOSPITAL.

The only place to which we can remove a case of contagious disease at present is the old makeshift known as the pest-house, located in the most popular park of the city. It grows poorer each year, so that now the service it renders is not worth what it costs the city to support it. We would once more respectfully urge upon your Honor and the city councils the great and immediate need of an Isolation Hospital.

The following tables show the number of cases of contagious and infectious diseases reported during each month of the year, and the deaths resulting therefrom; also the average number of cases and deaths for the last twelve years, which is inserted for purposes of comparison.

MONTHS.	Membranous croup.		Diphtheria.		Typhoid fever.		Measles.		Scarlet fever.		Varioloid.		Totals.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January	1	1	34	7	4	.....	252	2	1	.....	.....	.....	292	10
February....	.....	.....	15	2	6	1	71	1	.....	.....	.....	.....	92	4
March.....	.....	.....	10	2	1	.....	31	.....	.....	.....	.....	.....	42	2
April.....	2	3	21	2	2	.....	6	.....	2	.....	.....	.....	33	5
May.....	1	2	13	.....	4	.....	4	.....	4	.....	.....	.....	26	2
June.....	1	1	1	1	5	.....	9	.....	2	.....	.....	.....	18	2
July.....	.....	.....	.....	.....	1	1	3	.....	1	.....	.....	.....	5	1
August.....	.....	.....	2	.....	11	.....	5	.....	1	.....	.....	.....	20	.....
September..	.....	.....	12	5	17	4	.....	.....	12	.....	.....	.....	41	9
October.....	.....	.....	19	7	13	3	1	.....	8	.....	.....	.....	41	10
November..	8	2	10	1	10	1	2	.....	11	1	.....	.....	41	5
December...	1	1	11	2	5	1	6	.....	12	.....	.....	.....	35	4
Totals...	14	10	148	29	78	11	387	3	54	1	.....	.....	681	54

YEARS.	Membranous croup.		Diphtheria.		Typhoid fever.		Measles.		Scarlet fever.		Varioloid.		Totals.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1885.....	*	*	*	18	*	20	*	5	*	36	*	....	*	79
1886.....	*	*	*	9	*	12	*	....	*	5	*	....	*	26
1887.....	*	*	73	17	28	18	94	4	*	9	....	....	*	48
1888.....	*	*	126	30	35	12	44	1	187	9	..	....	392	52
1889.....	*	*	79	23	36	16	259	5	54	4	....	....	428	48
1890.....	*	*	41	9	36	17	63	3	298	6	....	....	438	35
1891.....	*	*	21	2	76	18	25	....	89	2	....	....	211	22
1892.....	*	*	26	5	33	11	44	2	451	11	....	....	554	29
1893.....	*	*	7	1	79	15	110	5	212	2	....	....	408	23
1894.....	12	12	42	11	74	21	67	3	223	8	....	....	418	55
1895.....	17	11	47	11	73	21	55	4	68	1	....	....	260	48
1896.....	17	14	103	28	81	20	500	3	61	1	1	....	763	66
1897.....	14	10	148	29	78	11	387	3	54	1	....	....	681	54

Inspection of these tables will show that the deaths from these diseases for 1897 is about an average of the previous three years. The remarkable prevalence of measles in January, February, and March swells the cases reported to an unusually large number.

Diphtheria was prevalent during the winter months. The cases reported exceed those of 1896 by forty-five, while only a single death more than those of 1896 was recorded, thus making a considerable decrease in the percentage of deaths. That this is due in part to the increased employment of the antitoxine treatment there seems scarcely a doubt. The quarantine and disinfection have been carefully followed this year as last, and no case has been traced to another that had been previously recognized.

* No returns made during this year.

DEATH RETURNS.

TABLE SHOWING THE MORTALITY OF THE CITY BY DISEASES AND BY MONTHS FOR THE YEAR 1897.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Abscess in head.....								1		1			2
“ of parotid gland.....			1										1
Accident, burned.....		1	1				1	1					4
Accident, cerebral compression.....	1												1
Accident, crushed by truck.....													1
Accident, drowned.....			1		2	1	6					2	12
“ durin'g deliv'ry.....							1						1
“ g'nshot wound.....								1					1
Accident, inhaled burning gas.....								1					1
Accident, overdose of opium.....					1								1
Accident, railroad.....	1					1			1		1		4
Accident, smothered while asleep.....								1					1
Accident, thrown from carriage.....										1	1		2
Alcoholism, acute.....			1										1
Althrepsia.....							2	1					4
Anæmia.....					1	1			1	2	1		6
Aneurism of aorta.....						1					1		2
Angina pectoris.....		1										1	2
Apoplexy, cerebral.....	2	2	4	4	1	1	3	1	2	4		2	26
Asthma.....	1												1
“ & heart disease.....									2				2
Asphyxia.....			1						1	1			3
Brain, abscess of.....				1				2					3
“ congestion of.....	1		1			1			1				4
“ disease of.....		1							1			1	3
“ inflammation of.....	3				1			1					5
“ paralysis of.....			1										1
“ softening of.....	1							1					2
“ tumor of.....				1				1					2
Breast, carcinoma of.....					1								1
Bronchitis.....	7	6	17	6	1	4	5	2	2	2	3	3	58
“ capillary.....	5	2	2	2	2				1	1	1	2	18
“ chronic.....		1			1	1		1	1	3		1	9
Cancer, abdominal.....								1					1
“ of breast.....	1	1									1	1	4
“ of bowels.....			1										1
“ of face.....												1	1
“ of head.....			1	2									3
“ of neck.....				1									1
“ of rectum.....		1									2		3
“ serpiginous.....	1												1
“ of stomach.....					1		1	2					4
“ of uterus.....			1		1				1				3
Catarrh, intestinal.....											1		1
Cerebritis.....							1						1
Caries of ilium.....		1											1
Cholera infantum.....			1	3	2	2	26	29	26	17	1	3	110
Cholera infantum and bronchitis.....									1				1
Cholera infantum and dentition.....									1	1			2

TABLE.—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Cholera morbus.....							1						1
Cirrhosis.....										1			1
“ of liver.....		2									1	1	4
Colitis.....												1	1
Complication of diseases (heart, liver & kidneys).....									1				1
Convulsions.....	7	4	2	3	2		3	1	2	2	2	1	29
Croup, membranous.....	1			3	2		1				2	1	10
“ spasmodic.....	1			1					1			1	4
Cystitis, chronic.....		1							1		1		3
Debility.....									3	2	3		8
Debility and old age.....									1				1
Dentition.....	1	1	2			2	2	2	3	1			14
“ and diarrhea.....								1	2				3
Diabetes.....	2	1				1							4
“ mellitus.....		1		1									2
Diarrhea, chronic.....		1									1		2
“ dyspeptic.....									1				1
Diphtheria.....	7	2	2	2		1			5	7	1	2	29
Dropsy.....									1		1		2
Dysentery.....				1				2	2			1	6
Dyspepsia.....					1								1
Eclampsia.....	1	1						1					3
“ & pneumonia.....										1			1
Elephantiasis and val. disease of heart.....												1	1
Empyema.....					1	1							2
Endocarditis.....				1	1		1					1	4
Enteritis.....			4		1		2		1	1			9
“ catarrhal.....					1	1							2
“ and diarrhea.....							1						1
Enteritis and cerebral meningitis.....								1					1
Entero-colitis.....				2			1	1		1		1	6
Epilepsy.....						1							1
Epithelioma.....										1			1
Erysipelas.....			1								1		2
“ phlegmonous.....						1							1
Fever, bilious.....				1					1	1			3
“ puerperal.....								1					1
“ rheumatic.....			1										1
“ scarlet.....											1		1
“ thermic.....							1						1
“ typhoid.....	1						1		4	3	1	2	12
Gangrene, senile.....					1								1
Gastritis.....				1			1		3		1		6
“ chronic.....					1				1				2
Gastro-enteritis.....				1	1		3	1	1		1		8
“ duodenitis.....												1	1
Heart, disease of.....	1			1		2	1	1	3	3	1		13
Heart, disease of, and anæmia.....						1							1
Heart disease & old age.....							1			1			2
Heart disease & pulmo- nary congestion.....							1						1
Heart, cardiac insuffi- ciency.....								1		1		1	3

TABLE.—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Heart, cardiac hypertrophy										1			1
“ degeneration of, old age.....											1		1
“ dilatation of			1								1		2
“ fatty degeneration of.....								1					1
“ mitral lesion of				1				1					2
“ mitral regurgitation of							2						2
“ non-development of									1				1
“ paralysis of											1		1
“ rheumatism of.....									1				1
“ thrombosis of.....			1										1
“ valvular disease of.....	4	6	3	1	2	6	3	1		1	2	1	30
Hemorrhage, cerebral.....											2		2
“ internal.....												1	1
“ meningeal.....											1		1
“ post partum uterine.....							1						1
Hepatic calculi.....					1						1		1
Hepatitis, chronic.....												1	1
Hydrocephalus.....				1			1	2	1				5
Inanition.....	2	7	2	3	1	1	4	3	1	4	2	1	31
Intestinal obstruction.....										1			1
Influenza.....		2	3										5
Intoxication, mercurial.....			1										1
Jaundice.....							1						1
Kidneys, cystic degeneration of.....									1				1
Kidneys, disease of suprarenal capsules									1				1
La grippe				2									2
“ and complications.....							1						1
Laryngitis, acute.....	1												1
“ acute catarrhal.....		1											1
“ broncho.....											1		1
“ tubercular.....									1				1
Liver, abscess of.....			1						1				2
“ chronic atrophy of.....						1							1
“ disease of.....			1										1
Lungs, congestion of.....	3	1	1			3		1				1	10
“ gangrene of.....		1											1
“ hemorrhage of.....				1									1
“ inflammation of.....							1						1
Malnutrition.....											1		1
Mania, acute.....					1								1
Marasmus.....	1			1		2			1	2			7
Mastoiditis.....											1		1
Measles.....	2	1											3
Meningitis.....	2	2	4	2				2	1	1			14

TABLE.—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Meningitis, cerebral.....	2			2	2	1	1					3	11
“ cerebro-spi- nal.....		1	4	1						4		1	11
Meningitis, tubercular..	4	2			1			2	1			1	11
Miscarriage.....								1					1
Myelitis.....			1			1							2
Myocarditis.....												1	1
Nephritis.....	7	4	3	3	1	3			2	2		1	26
“ chronic.....	1			1							1		3
Nervous prostration....											1		1
Neuritis, multiple, and paralysis.....										1			1
Old age.....	3	1	1	2	2	2		1		1	1		14
“ and heart disease							1						1
“ and senile gan- grene.....												1	1
Paralysis.....	1	3	1	2	2	1	1	2	2	1	2	2	20
Paramenia.....						1							1
Paraplegia, with asthe- nia of arteries.....									1				1
Pericarditis.....												1	1
Peritonitis.....	1	1		1	1		1	2		2		1	10
Pertussis.....	2				1	1	3	4			1		13
“ and bronchitis.										1			1
“ and meningitis secondary.....									1				1
Phthisis pulmonalis....	9	6	9	6	13	5	6	6	7	10	4	6	87
“ pulmonalis and myelitis.....										1			1
Pleurisy.....												2	2
Pneumonia.....	15	7	16	9	12	3	2	1	1	5	4	6	81
“ broncho.....	1	5	2	3		2		1	4		2		20
“ catarrhal.....			1								1		2
“ pleuro.....	1			1									2
“ typhoid.....					1								1
Poisoning, carbolic acid												1	1
Pre-natal exhaustion....				1									1
Premature birth.....	2	4	3	4	4	7	3	3		1	3	7	41
Pyelitis.....						1							1
Rheumatism, acute.....											1		1
Scrofula.....						1							1
Septicæmia.....				1		2	1						4
Shock, from surgical op- eration.....	1												1
“ from injury to hip joint.....									1				1
Skull, fracture of.....							1		2				3
Spina bifida.....								1					1
Stenosis, mitral, and in- terstitial nephritis....									1				1
Stillborn.....	11	5	11	8	7	5	4	6	9	10	6	9	91
Stomach, dilatation of..				1									1
“ stricture of.....								1					1
Stomach, ulceration of, and acute nephritis....										1			1
Suicide, poisoning.....			1		1								2
Sunstroke.....							2						2

TABLE.—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Syphilis, congenital.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Tetanus.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Tuberculosis.....	2	.....	2	.....	3	3	1	1	3	4	4	2	25
“ & enteritis.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Tumor, abdominal.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
“ intracranial.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
“ ovarian.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
“ of uterus.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	2
Unknown.....	5	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	9
Uræmia.....	.....	.....	.....	.....	.....	.....	2	1	.....	2	.....	1	6
Uræmia and diabetes mellitus.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Total.....	128	97	119	97	83	80	109	104	126	118	77	86	1124

SOME COMPARISONS OF VITAL STATISTICS FOR THE LAST TWELVE YEARS.

	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.
Population, estimated.....	37,884	39,032	40,215	41,433	42,689	44,126	45,500	48,000	50,000	55,000	55,000	56,000	60,000
No. deaths, exclusive of still-births	733	725	798	853	764	901	880	963	971	977	1,020	1,051	1,018
Deaths, per thousand of population	19.35	18.57	19.84	20.59	17.90	20.40	19.34	20.06	19.42	17.76	18.54	18.77	16.97
Ratio, deaths of children to total	312	313	356	397	353	434	393	500	527	546	549	531	631
Deaths, per cent.....	42.56	43.17	44.61	46.54	46.20	48.17	44.66	51.92	50.62	55.89	53.82	50.52	61.98
Deaths of children per thousand of													
population.....	8.24	8.02	8.85	9.58	8.27	9.87	8.64	10.42	10.54	9.91	9.98	9.48	10.50
Deaths from zymotic diseases.....	231	205	256	227	199	252	181	153	137	209	213	227	236
Deaths from zymotic diseases, per													
thousand of population.....	6.10	5.25	6.37	5.48	4.66	5.72	3.98	3.18	2.74	3.80	3.97	4.05	3.77
Cholera infantum.....	89	115	148	115	86	141	122	103	89	40	146	129	110
Consumption.....	93	100	93	109	79	94	84	89	79	74	76	112	88
Group.....	12	21	25	24	25	15	7	3	4	24	14	20	14
Diphtheria.....	18	9	17	30	23	9	2	5	1	11	10	28	29
Bronchitis, all forms.....	29	11	29	37	35	38	38	39	44	56	59	51	86
Pneumonia, all forms.....	42	26	39	45	38	58	72	39	53	81	86	77	105
Heart disease, all forms.....	40	37	45	23	47	43	38	48	46	52	75	77	64
Scarlet fever.....	5	.....	4	1	5	3	.....	2	5	.....	4	1	1
Typhoid fever.....	20	12	17	12	16	17	18	11	15	8	21	19	12
Measles.....	36	5	8	9	4	6	2	11	2	4	1	3	3
Whooping cough.....	11	3	1	5	6	4	5	.....	.....	.....	2	3	13
Smallpox.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Births reported.....	1,106	1,207	1,301	*830	*872	*965	*985	1,178	1,491	1,247	1,440	1,714	1,614
Births per thousand of population.	29.19	30.42	34.59	439	506	463	549	637	650	616	599	652	634
Marriages reported.....	404	451	473	439	506	463	549	637	650	616	599	652	634

* The returns are manifestly incomplete.

Again we must note an increase in the deaths of children, and by reference to table beginning on page 431 it will be seen that the causes of death are very largely ailments that are preventable by sufficient care and proper food.

Consumption (various forms of tuberculosis) still claims eleven per cent of the total deaths. With these two matters we can do little more than has been done until further legislation empowers us to control the sale of milk and requires consumption to be reported the same as the other contagious diseases, so that we may work intelligently toward its prevention.

Pneumonia and its varieties caused ten per cent of the total deaths, and bronchitis eight and one half per cent. These are both much higher than last year. As they are not contagious diseases they are not usually considered as coming within the realm of officers of public health, but as they commonly follow exposure of weakened systems, it seems proper that the public be at least warned of their fatality and reminded that they are in greater part preventable by sufficient care.

We include herewith the report of the health inspectors, the plumbing inspector, upon the school buildings, and a special report of the board upon the Pearl-street schoolhouse.

In conclusion we would express our thanks to your Honor and the city councils, as well as many citizens who have given us encouraging assistance.

Respectfully submitted.

JOHN C. BICKFORD,
WILLIAM K. ROBBINS,
WILLIAM M. PARSONS, M. D.,
Board of Health.

MANCHESTER, N. H., October 30, 1897.

REPORT ON PEARL-STREET SCHOOLHOUSE.

Hon. William C. Clarke, Mayor and Chairman of School Committee:

DEAR SIR,—Eight cases of diphtheria, two of them fatal, having been reported from the Pearl-street school, some alarm was felt among the pupils of that district and the sub-committee closed the school, requesting the board of health to make the proper investigation and decide when the school might be opened with safety. Accordingly this board, together with the sub-committee of the school and interested citizens, have made three special inspections of the building, in both favorable and unfavorable weather, and with varying conditions and uses of the warming and ventilating apparatus, which is of the Smead system. We have not been able to produce back drafts and can find no evidence that foul air from the closets has entered the school rooms, nor can we find any indication that the building was a casual factor in the breaking out of diphtheria among the pupils.

As this disease becomes infectious in its earlier stages, there was possible communication of it among the pupils by personal contact and the common use by all of the drinking cups and lead pencils.

The dark closet where slight odors were detected has been torn out. The basement walls have been white-washed; the pencils burned; the drinking cups boiled in strong lye and washed, and the building thoroughly fumigated.

We can therefore report to you that we believe the Pearl-street school is entirely free from danger of diph-

theria or other contagious disease, and recommend that the school be opened for regular work Monday, November 1. In this connection we would suggest the use of individual drinking cups and lead pencils in all the schools.

JOHN C. BICKFORD,
WILLIAM K. ROBBINS,
WILLIAM M. PARSONS, M. D.,
Board of Health.

INSPECTORS' REPORT.

Gentlemen of the Board of Health:

We beg leave to submit the following as the report of the sanitary inspectors for the year 1897:

Vaults and privies inspected.....	706
Vaults inspected after cleaning.....	318
Water closets inspected.....	1,995
Yards and alleys inspected.....	1,491
Cellars inspected	2,290
Barns and outbuildings inspected.....	194
Tenements inspected	552
Barn cellars inspected.....	173
Latrines inspected	26
Teams and riggings of excavators inspected....	22
Soaperies, slaughter-houses, etc., inspected....	21

Cleaning or repairs were ordered as follows:

Vaults and privies cleaned.....	148
Yards and alleys cleaned.....	420
Cellars cleaned	766
Barn cellars cleaned.....	59
Sheds, etc., cleaned.....	51
Tenements cleaned	84
Water closets cleaned or repaired.....	584
Vault covers repaired.....	8
Leaky drainpipes repaired.....	111

Houses within 100 feet of a public sewer and not connected therewith, 51.

Openings other than leaks in the drainage system were found in 24 places, and same were closed by order of the

department. One thousand five hundred and five sinks have been examined, and 415 have been provided with traps.

Sewage was found running on the surface of the ground in 87 places, and such nuisances were abated either by entering the sewer or carrying away in some manner not offensive.

In doing the work of the department it has been necessary to make 3,230 calls, and to write 1,051 letters.

Two hundred and eighty-nine complaints have been investigated. In 225 cases the inspectors have been able to give relief, and in 64 cases it was found that no cause existed, or that same was beyond the control of the department.

Seventeen dead animals have been properly disposed of.

One hundred and twenty-five hens and small animals have been removed from cellars.

Twenty-eight swine and cows have been discovered being kept within the sanitary limits of the city, without licenses. Same were ordered removed or licenses procured.

Twenty complaints were made against the scavenger service; in each case the proper parties were notified and relief afforded.

Twenty-seven persons were discovered throwing garbage in the back streets and lake, and were warned against the practice.

Private swill collectors have been warned forty-five times to be neater in their work.

Twenty-six catch-basins or street cesspools have been flushed or repaired by order of this department.

Eighty-five notices have been prepared and served, and proper returns made.

A sanitary inspection has been made of 21 bakeshops.

Two theatres were ordered cleaned and put into proper sanitary condition.

Circus grounds have been inspected 6 times, and nuisances abated 3 times.

Stable bedding was found in back street in 21 places, and ordered removed.

The dumps have been inspected 38 times, and nuisances there to the number of 4 abated by the street department.

One hundred and fourteen nuisances not otherwise classified have been abated through the efforts of this department.

Thirteen samples of water secured from Lake Massabesic and springs and wells about the city have been sent away for analysis.

Householders have been given 26 permits to clean their own vaults.

Permits to the number of 1,517 have been granted for the burial or removal of dead bodies, and the returns forwarded to the city registrar.

A statement of mortality has been prepared each month, and copies sent to over two hundred other towns and cities, to local physicians, etc.

Contagious and infectious diseases have been reported as follows: Measles, 380; diphtheria, 149; typhoid fever, 78; scarlet fever, 54; membranous croup, 14; varioloid, 0; total, 681. Five hundred and seven of these cases were reported by physicians, 102 by householders, and 72 were discovered by the inspectors. The inspectors were unable to trace the cause in 377 cases; in 273 cases the connection with some previous case was clearly traceable. Colds were probably the cause in 15 cases; 6 cases were contracted outside of the city; and in 8 cases it was reasonable to attribute the cause to unsanitary surroundings.

In 119 cases disinfectants were being used. The inspectors ordered their use in 183 cases. At most of these

latter places instructions were given as to their use, and in many cases the department furnished the disinfectants.

Bedding burned for contagious diseases 3 times.

In 62 cases patients were found well isolated, and in 198 cases inspectors were obliged to order isolation. In nearly all of these cases it was necessary for the inspectors to give instructions as to the steps to be taken.

Nine houses were watched to see that the rules of isolation were complied with; and 7 funerals were attended to prevent a too public observance of the same.

Six hundred and one rooms where disease had existed were fumigated by the inspectors.

One hundred and six children who were attending school, and 57 people who were working and living in houses where contagious disease existed, were either restrained from attending school and employment, or instructed as to thorough isolation from the disease until all danger from contagion had passed.

Nine cases have been cared for at the contagious disease hospital.

Four hundred and forty-two houses have been placarded, and the placards removed at the termination of the disease.

About 3,000 pamphlets issued by the State Board of Health have been distributed in the localities where contagious disease existed.

Weekly reports of contagious and infectious diseases have been sent to the State Board of Health, Concord, and the United States Marine Hospital service, Washington, D. C.

The inspectors have each in turn patrolled the shores of Lake Massabesic, Sundays, holidays, and part of every other day from June 1 to October 1.

Thirteen people who were found bathing in the lake were driven out and warned not to enter it again.

Twenty-seven dead fish were removed from the lake or its shores, and buried.

Urinals and slophoppers inspected, 34.

Found unsanitary, 7.

Steamboats inspected 21 times.

Warned parties about throwing swill in lake 20 times.

Found swill and other refuse close to cottages 15 times.

Nine persons were warned as to the disposal of sink-water.

Four parties were caught washing clothes in the lake, and one throwing washing water in the lake. Both were reprimanded and warned.

Nuisances to the number of 114, not otherwise classified, were abated.

Several picnics and band concerts were attended, to prevent the careless disposal of waste and rubbish in the lake or on its shore.

Banana skins, sawdust, tin cans, paper, and rubbish of all sorts, have been removed whenever found.

PLUMBING INSPECTIONS MADE.

Number of jobs reported.....	669
tank water closets.....	1,061
pressure closets	32
Kelley & Genesee closets.....	30
sinks.....	716
bath-tubs	451
wash-bowls	416
wash-trays	91
slop-hoppers	6
urinals	15
Other fixtures not classed above.....	34
	<hr/>
Total number of fixtures put in.....	2,852

The pipe put in was tested with water in 589 places. At 16 places where water was not accessible, the smoke test was used in place of water.

A total of 2,007 inspections were made of the work during its progress and after its completion.

At 379 places work was found defective. In all such cases the defective work was removed and proper work substituted therefor.

In several cases plumbers were found trying to deceive the inspector, but in most cases the work has been more expertly done than in previous years, as several parties who were inclined to be dishonest, or were incompetent from lack of knowledge and experience, have discontinued the occupation.

The inspector has been to some trouble to secure from his reports the following statistics as to new buildings, which he thinks may be interesting:

Total number reported.....	217
Single tenement buildings.....	74
Two-tenement buildings	54
Three-tenement buildings	19
Four-tenement buildings	2
Six-tenement buildings	2
Nine-tenement buildings	1
Residences	29

The new buildings include the Boston & Maine depot, Elliot Hospital Memorial building, mill for Devonshire Manufacturing Co., Notre Dame de Lourdes Hospital, and 32 other buildings, viz: ten-footers, cook rooms, carriage houses, stables, etc. Total number of new buildings, 217; estimated value, \$775,000.

The inspectors desire to express their thanks to the honorable board who have so ably directed their efforts; also to all who have aided them in the work of the department.

WILLIAM B. BLAKE.
JOHN F. LOONEY.
CARL O. SEAMAN.

At the request of the board of health, Plumbing Inspector Carl O. Seaman made an examination of the sanitary condition of the public schools. His report was forwarded to Mayor Clarke and presented to the school board. The document follows:

Report of Plumbing Inspector.

MANCHESTER, N. H., May 29, 1897.

To the Members of the School Board and Committee on Lands and Buildings:

GENTLEMEN,—Believing that the health of the children of the city while in attendance at our public schools should receive the watchful care and attention of all upon whom any authority may rest in regard thereto, we have caused the several schoolhouses of the city to be inspected, in order that any defects in their sanitary condition may be made known to you, and that such repairs may be made during the summer vacation as seem necessary for the health of the attendants. Feeling confident that you will gladly make such changes and improvements as will insure protection against dangers from defects in the sanitary construction or condition of the school buildings of the city, we submit herewith the report of Mr. Carl O. Seaman, the inspector of plumbing, trusting that you will deem it worthy of attention without further comments from us.

Yours very truly,
JOHN C. BICKFORD,
WILLIAM K. ROBBINS,
WILLIAM M. PARSONS, M. D.,
Board of Health.

To the Board of Health:

GENTLEMEN,—In accordance with your directions I have examined the plumbing and sanitary condition of the several schoolhouses, and submit the following report as to their condition:

ASH-STREET SCHOOL.

Found plumbing very unsanitary. All water closets poorly flushed through a three fourths inch lead pipe, and nearly all without light. Could not find that the soil-pipe ran through the roof. Closets and plumbing in general very bad, and twenty years out of date.

WEBSTER-STREET SCHOOL.

Found water closets (latrines) automatically flushed. Trap to sink in south end of basement syphons and breaks the seal, permitting odors to escape to second floor. Found blow-off to steam boiler entered in drain pipe, and drain pipe badly broken where blow-off enters; sewer gas could escape freely. Found two two-inch joints of lead pipe to soil-pipe made with cement and loose. Found soil pipe carried above roof on outside of building through four-inch galvanized iron pipe.

BLODGET-STREET SCHOOL.

Found old vaults still in use. Sink waste on east side runs off very slowly.

FRANKLIN-STREET SCHOOL.

Found water closets poorly lighted and flushed. Flush operates by door. Found two-inch joint of soil-pipe to upstairs sink leaking. Soil-pipe run above roof in two places through four-inch galvanized pipe on outside of building. Plumbing in general very bad.

MAIN-STREET SCHOOL.

Found closets insufficiently flushed because they operate by doors, and the bad odors are noticed from them all over the building in hot weather. Boiler blow-off enters sewer. Found leak in two-inch soil-pipe because not properly supported. Urinals very poor. Soil-pipe runs through roof outside in two places through galvanized iron pipes.

LOWELL-STREET SCHOOL.

Found water closet in outhouse flushed by door; soil-pipe runs through roof; one sink which is thought to be trapped in the ground.

SPRING-STREET SCHOOL.

Found Smead system in use; dry water closets in use in outhouse; Akron sewer pipe for four sinks in building; sink waste is of one-inch lead pipe.

TRAINING SCHOOL.

Water closets dark; lighted by gas; poor flush operated by door; all supply pipes need cleaning out; principal complains of bad odors coming from plumbing all the time. Plumbing in general very bad.

RIMMON SCHOOL.

Wash-bowls and sinks are in good condition. Dry system of water closets; no odor; no complaint.

HALLSVILLE SCHOOL.

Found dry system of water closets in use. Sinks all in good condition. Soil-pipe runs through roof. Principal complains of insufficient ventilation in lower story of building.

VARNEY SCHOOL.

Found Smead system of dry water closets in use. Noticed bad odors coming from them. Found all fires out that keep the system going. As it depends on forced ventilation to keep odors out of the building, the closets as they are are worse than vaults in the basement. About one half of the closets are dark. Soil-pipe runs through roof through two-inch pipe in two places. One conductor pipe found broken. Middle room on east side of building, on first floor, is not properly ventilated.

WILSON SCHOOL.

Plumbing modern and in good condition. Not kept as clean as it should be.

PEARL-STREET SCHOOL.

Smead system of plumbing in fair condition. No complaints. Two sinks in basement need better foundation. Wash-bowls in some of the rooms need cementing between bowl and slab.

BAKERSVILLE SCHOOL.

Modern plumbing in fair condition. Water closets work by seat. Some need repairing. Some flush too soon; one not at all; and some seats need repairing. One sink in the girls' basement leaks in trap.

PARKER SCHOOL.

Modern plumbing. Several water closets on girls' side need repairing, and one on boys' side.

STRAW SCHOOL.

Modern plumbing in good condition. Urinals here out of date, very poor design.

To put the buildings in proper sanitary condition, I would recommend the following:

At Ash-Street School.—This entire system should be relocated and replaced by modern plumbing.

At Webster-Street School.—The sink-trap in south end of the basement should be replaced by a non-syphon trap. The blow-off to the steam boiler should be disconnected from the sewer, and the two-inch joints of lead pipe should be made according to the plumbing rules. The Akron pipe in the basement should be replaced by iron pipe. The urinals should be connected with the sewer and provided with an automatic flush of water.

At the Franklin-street and Main-street Schools.—The water closets should be provided with better light, and changed so as to flush in a different manner. The urinals should be replaced by a new system. The steam blow-off from the boiler should be disconnected from the sewer.

At the Training School.—The water closets and urinals should be relocated and replaced by a new system, and the water supply pipes should be increased in size.

At the Varney School and Hallsville School.—The dry system of closets and urinals should be replaced by a modern water-carriage system.

At the Straw School.—The urinals can be made sanitary by supplying a slate safe and back.

With repairs and alterations made as above, the several buildings will be in fair sanitary condition for the present, but only for the present, for I am satisfied that the Smead, or a similar system, with dry closets attached, is not desirable; that, in fact, there are too many ways by which, with slight negligence or oversight on the part of attendants, the rooms may become flooded with air from the privy vaults.

Respectfully submitted.

C. O. SEAMAN,
Inspector of Plumbing.

REPORTS
OF THE
TRUSTEES OF CEMETERIES AND
CEMETERY FUNDS.

REPORT
OF THE
TRUSTEES OF CEMETERIES.

Pine Grove Cemetery.

To the Trustees of Cemeteries and to the City Councils:

The sub-trustees of the Pine Grove cemetery make report as follows:

During the year 1897, no radical change has been made in the policy of conducting this cemetery. The same superintendent has been continued in office, and the general management of the grounds has been satisfactory to the sub-trustees and, they hope, to the public also. The appearance of the cemetery was never better than during the past warm season, and all improvements are now made with an eye to future development as well as to present needs.

Eighty lots have been sold during the year, in all,—nineteen on the lawns under perpetual care, sixteen on Riverside and three on Chapel Lawn; sixty with lawn restrictions, so called (by which all lots are graded before sale and no walks are constructed between the lots); and one of the old unrestricted lots. Only three of the unrestricted lots are now left, and hereafter, in accordance with the policy adopted some years ago, no more of this kind will be laid out. All lots will be sold either with lawn restrictions or under perpetual care. Experience has clearly demonstrated the advantage of this policy

and the appearance of the grounds has been much bettered thereby. There are now unsold fifty-four lots on Riverside Lawn and fifteen on Chapel Lawn, all under perpetual care; and thirty-five lots with lawn restrictions remain, ready for sale.

During the year about one half of Pine Lawn, which lies just east of Riverside Lawn, and which is designed to accommodate a growing demand for small lots under perpetual care, has been graded; and it is intended to grade the remainder early in the coming season, and the lots thereon will be ready for use. The section just south of Riverside Lawn has been graded and is ready for top-dressing in the spring, and will be prepared as soon as possible for sale into lots with lawn restrictions.

The "Field of Manesquo" has been enlarged by the addition of a section adjoining on the south, and four hundred additional iron markers for the graves procured. More care is given each year to these public grounds, and it is the desire and intention of the sub-trustees that they shall be well looked after.

In preparing the new lot section, it became necessary to remove the old house, which had fallen into decay and was unoccupied; and it was sold and moved away by the purchaser. Torn down it was of no value, and its removal was imperative. The sub-trustees deem it highly advantageous that they were able to get a small sum for it and have it removed without cost to the cemetery.

A section of the grounds lying south of the Swedish Lawn was during the year reserved for the Swedish Evangelical Mission church and Swedish Baptist church under an agreement and conditions similar to those under which the Swedish Lawn was reserved. They are to be known as the Swedish Mission Lawn and the Swedish Baptist Lawn.

A great and lasting improvement in the southern part of the cemetery was effected in the spring by the repairs

which the board of street and park commissioners, at the request of the sub-trustees, made on the Calef road. Gutters or ditches were made on the sides of this highway, and the surface water, which formerly flowed across the cemetery, is now conducted away by them, and much trouble in rainy seasons is avoided. The sub-trustees are grateful to the street commissioners for the promptness and efficiency with which they responded to the request of the board.

A work horse and harness were purchased in the spring, and a saving made over the expense of hiring, as was formerly done. Nearly twelve hundred yards of concrete were laid in the avenues during the year, and a large amount of earth, when the Calef road was rebuilt by the street railway, was procured for filling at an expense extremely low, and will be very useful in the work of the coming season.

Several receptacles for rubbish were placed in various parts of the grounds with good results, and it is hoped that as the people learn of their existence, there will be a still greater willingness to place dead flowers, papers, and other rubbish in them, instead of throwing it promiscuously over the grounds. A little care on the part of the visitors will save a good deal of needless labor for the employees, and add greatly to the appearance of the cemetery.

The rules and regulations prescribed by the sub-trustees for the management of the cemetery have been printed, and the lot owners can obtain copies by applying to the superintendent.

The Merrill yard, which is under the charge of this board, has received considerable attention the past year. The walks have been cleared, the trees trimmed, monuments and stones cleaned and straightened, and the general appearance of the yard improved. It is a very neat

and attractive yard, and there are still quite a number of desirable lots unsold.

Without going into greater details, the expenses over which this board has control have been kept within the appropriations; and the sub-trustees hope that the results of the year's work will receive the approbation of the trustees, the city councils, and the people.

EDWIN F. JONES,

For the Board of Sub-Trustees of the Pine Grove Cemetery.

Valley Cemetery.

The sub-trustees of the Valley cemetery submit the following report:

During the year 1897 the Valley cemetery has been cared for on the same general plan as in former years. About the usual amount of work has been done during the year, in the ordinary care of the grounds. Permanent improvements have been made as follows:

Raising the bank wall and setting the fence over on Pine street, at a cost of \$436. This work was made necessary by the raising of the grade of Pine street. On the avenue leading by the city tomb, which was considered unsafe, especially in winter, about 225 feet of pipe railing have been put up at a cost of \$115. On the Auburn-street side there have been some improvements by changing the grades of the lots and removing trees that were a damage to them. If the work is carried out as begun, it will greatly improve that part of the cemetery.

On the west side of the valley there has been an improvement made by grading the bank, which was rough and unsightly.

No. of bodies in tomb.....	67
interments	60
removals	11

Cash received:	
For water	\$340.00
Care of lots	736.00
Sundries	259.91
Tomb fees	271.50
Interments	167.00
Removals	38.00
	\$1,812.41
Cash paid city treasurer.....	\$1,800.00
Cash paid C. H. G. Foss.....	12.00
Balance .....	.41
	\$1,812.41

Respectfully submitted.
 GARDNER K. BROWNING,
 BUSHROD W. HILL,
 S. P. CANNON,
Sub-Trustees Valley Cemetery.

Amoskeag Cemetery.

The sub-trustees of Amoskeag cemetery submit the following report:

A change in the management of the cemetery has been made during the past year, owing to the death of the former superintendent, James E. Bailey, who died September 7, 1897. Mr. Bailey was also a member of the board of trustees, and in both offices was faithful and conscientious in the discharge of his duties. The vacancy in the board was filled by the election of Mr. A. D. Maxwell, and the trustees elected Mr. George Harwood superintendent.

Four burials have been made in the yard during the year. The paths, which, for some unaccountable reason, were dug out several years ago, have been filled up with gravel and the cemetery presents a better appearance

than ever before. The iron fence has been painted. It was intended to add more fence, but the entire appropriation was used up in filling the paths.

Several applications have been made for lots, but there are none to spare. For several years the project has been contemplated of purchasing more land of the Amoskeag Company, but it has not as yet been carried out. The city is growing in this direction, and if land is to be obtained it must be bought before houses get too near and the occupants object to the purchase of new cemetery land.

WILLIAM WATTS,
A. D. MAXWELL,
WILLIAM H. HUSE,
Sub-Trustees of Amoskeag Cemetery.

TREASURER'S REPORTS.

To the Trustees of Cemeteries:

GENTLEMEN,—I herewith present to you the annual report of the money received during the year ending December 31, 1897:

Pine Grove Cemetery.

Number of deeds delivered during the year, seventy-one.

To cash received for the same....	\$2,443.90	
interest received for the same	30.14	
cash received from superintendent	2,786.16	
	_____	\$5,260.20

Cr.

By treasurer's receipts.....	\$2,300.00	
superintendent's receipts	2,786.16	
cash on hand	174.04	
	_____	\$5,260.20

Valley Cemetery.

To cash received from superintendent..... \$1,800.00

Cr.

By superintendent's receipts..... \$1,800.00

Respectfully submitted.

FRED L. ALLEN,
Treasurer of Trustees of Cemeteries.

I hereby certify that I have examined the accounts of Fred L. Allen, treasurer of the trustees of cemeteries, and find the same correctly cast and properly vouched for.

JAMES E. DODGE,
City Auditor.

To the Trustees of the Cemetery Fund:

GENTLEMEN,—I herewith submit to you the fifteenth annual report of the funds received and expenses paid to December 31, 1897:

Pine Grove Cemetery.

Amount of permanent fund on hand January

1, 1897 \$33,237.42

Receipts during the year:

From George A. Parsons.....	\$114.04
W. G. Everett and S. F. Murry	186.30
Charles A. Merrill.....	185.01
A. W. Dole.....	165.00
C. W. Clement, Adm'r.....	176.00
David H. Young.....	170.50
John K. Wilson.....	172.40
Willis P. Fogg.....	147.32
Sarah B. Batchelder.....	144.00
Mrs. Ada and W. H. Eaton..	149.93
M. Albertine Olzendam....	300.00
Clarissa Jenks	129.60
Mrs. S. J. Wheeler.....	133.96
George A. Clark and Mary A. Jones	198.00
Frank T. Weeks.....	108.00

From Mrs. C. L. Richardson.....	\$136.00	
heirs of Mrs. J. C. Clough..	115.20	
Lizzie Kelley	100.00	
S. S. Marden.....	144.00	
Charles A. Morgan.....	104.43	
Mrs. E. E. Weeks and Mrs. S. Amsden	108.00	
Josiah Laselle	97.46	
Edith M. Sargent, Sadie C. and Almira P. Dow.....	375.00	
Armenia J. Blaisdell and Emily A. Dustin.....	140.25	
John H. Buswell.....	143.55	
Louisa R. Cheney, C. W. Cheney, J. E. Cheney, and Clifton Williams	220.00	
Mrs. Charles Fradd and Min- nie Klinge	100.00	
D. H. Maxwell and J. W. Lane	165.00	
		<u>\$4,428.95</u>
Total permanent fund Dec. 31, 1897....		\$37,666.37

CR.

By bonds on hand January 1, 1897	\$30,700.00	
Bonds bought during the year....	4,500.00	
Cash on hand December 31, 1897..	2,466.37	
		<u>\$37,666.37</u>
Income on hand January 1, 1897..	\$2,757.28	
from interest on bonds...	1,622.50	
from savings bank deposit	106.27	
		<u>\$4,486.05</u>

CR.

Expenses paid during the year:	
Daniels & Downs.....	\$2.20
Manchester S. & R. Co.....	40.00

Palmer & Garmon.....	\$83.38	
Palmer & Garmon.....	14.10	
John B. Varick Co.....	1.68	
B. A. Stearns.....	857.00	
Cash on hand December 31, 1897..	3,487.69	
	<u> </u>	\$4,486.05

Valley Cemetery.

Amount of permanent fund on hand January
1, 1897 \$12,218.03

Receipts during the year:

Irene Hunt	\$300.00	
A. J. Lane, executor.....	200.00	
A. J. Lane, executor.....	100.00	
Richard T. Green, executor.....	202.50	
Louis S. Brooks, executor.....	73.52	
Helen M. Jones.....	126.00	
Dudley P. Ladd, executor.....	124.00	
Mrs. Moody Carter.....	108.00	
Charles H. Kimball, administrator	100.00	
D. C. Moulton.....	126.00	
John C. Lyford.....	100.00	
Charles Bunton	114.00	
	<u> </u>	1,674.02

Total permanent fund December 31, 1897 \$13,892.05

CR.

By bonds on hand January 1, 1897	\$10,800.00	
Bonds bought during the year....	2,700.00	
Cash on hand December 31, 1897..	392.05	
	<u> </u>	\$13,892.05
Income on hand January 1, 1897..	\$1,070.14	
from interest on bonds....	596.25	
from savings bank deposit	47.53	
	<u> </u>	1,713.92

CR.

Expenses paid during the year:

C. H. G. Foss.....	\$267.50	
Palmer & Garmon.....	12.05	
Cash on hand December 31, 1897..	1.434.37	
	<u> </u>	\$1,713.92

GALE FUND, VALLEY CEMETERY.

Income on hand January 1, 1897..	\$103.45	
from fund	9.82	
from savings bank deposit	3.38	
	<u> </u>	\$116.65

CR.

By cash paid C. H. G. Foss.....	\$6.00	
from savings bank deposit	110.65	
	<u> </u>	\$116.65

Piscataquog Cemetery.

Amount of permanent fund on hand January 1, 1897	\$350.00
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CR.

By bonds on hand January 1, 1897	\$300.00	
Bonds bought during the year.....	50.00	
	<u> </u>	\$350.00
Income on hand January 1, 1897	\$73.08	
from interest on bonds....	15.00	
from savings bank deposit	5.98	
	<u> </u>	\$94.06

CR.

Expenses paid during the year:

C. A. Rowell.....	\$3.00	
C. A. Rowell.....	3.00	
Cash on hand December 31, 1897..	88.06	
	<u> </u>	\$94.06

MARY P. HARRIS FUND, PISCATAQUOG CEMETERY.

Amount of fund January 1, 1897.....		\$500.00
	CR.	
By bonds on hand December 31, 1897.....		\$500.00
Income on hand January 1, 1897..	\$289.33	
from interest on bonds....	27.50	
from savings bank deposit	4.69	
		<u>\$321.52</u>
	CR.	
By cash on hand December 31, 1897.....		\$321.52

Merrill Cemetery.

Amount of permanent fund on hand January 1, 1897		\$487.89
	CR.	
By bonds on hand January 1, 1897.	\$450.00	
Cash on hand December 31, 1897..	37.89	
		<u>\$487.89</u>
Income on hand January 1, 1897..	\$43.32	
from interest on bonds....	22.50	
from savings bank deposit	2.94	
		<u>\$68.76</u>
	CR.	
By cash on hand December 31, 1897.....		\$68.76

Respectfully submitted.

FRED L. ALLEN,
Treasurer Cemetery Fund.

This is to certify that I have examined the books of accounts of Fred L. Allen, treasurer of the trustees of the cemetery funds, embracing the receipts and expenditures for the year 1897, and I find the same correct and

properly vouched. I have also examined the securities in which said fund is invested and find as follows:

PINE GROVE CEMETERY.

Bonds of the city of Manchester, N. H.:

5 per cent, 1913.....	\$14,700.00
5 per cent, 1942.....	20,500.00
Cash on hand.....	2,466.37

Total amount of bonds and cash Decem- ber 31, 1897.....	\$37,666.37
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VALLEY CEMETERY.

Bonds of the city of Manchester, N. H.:

5 per cent, 1913.....	\$4,800.00
5 per cent, 1942.....	8,700.00
Cash on hand.....	392.05
	<hr/>
	\$13,892.05

PISCATAQUOG CEMETERY.

Bonds of the city of Manchester, N. H.:

5 per cent, 1942.....	\$350.00
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Mary P. Harris Fund.

Bonds of the city of Manchester, N. H.:

5 per cent, 1942.....	\$500.00
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MERRILL CEMETERY.

Bonds of the city of Manchester, N. H.:

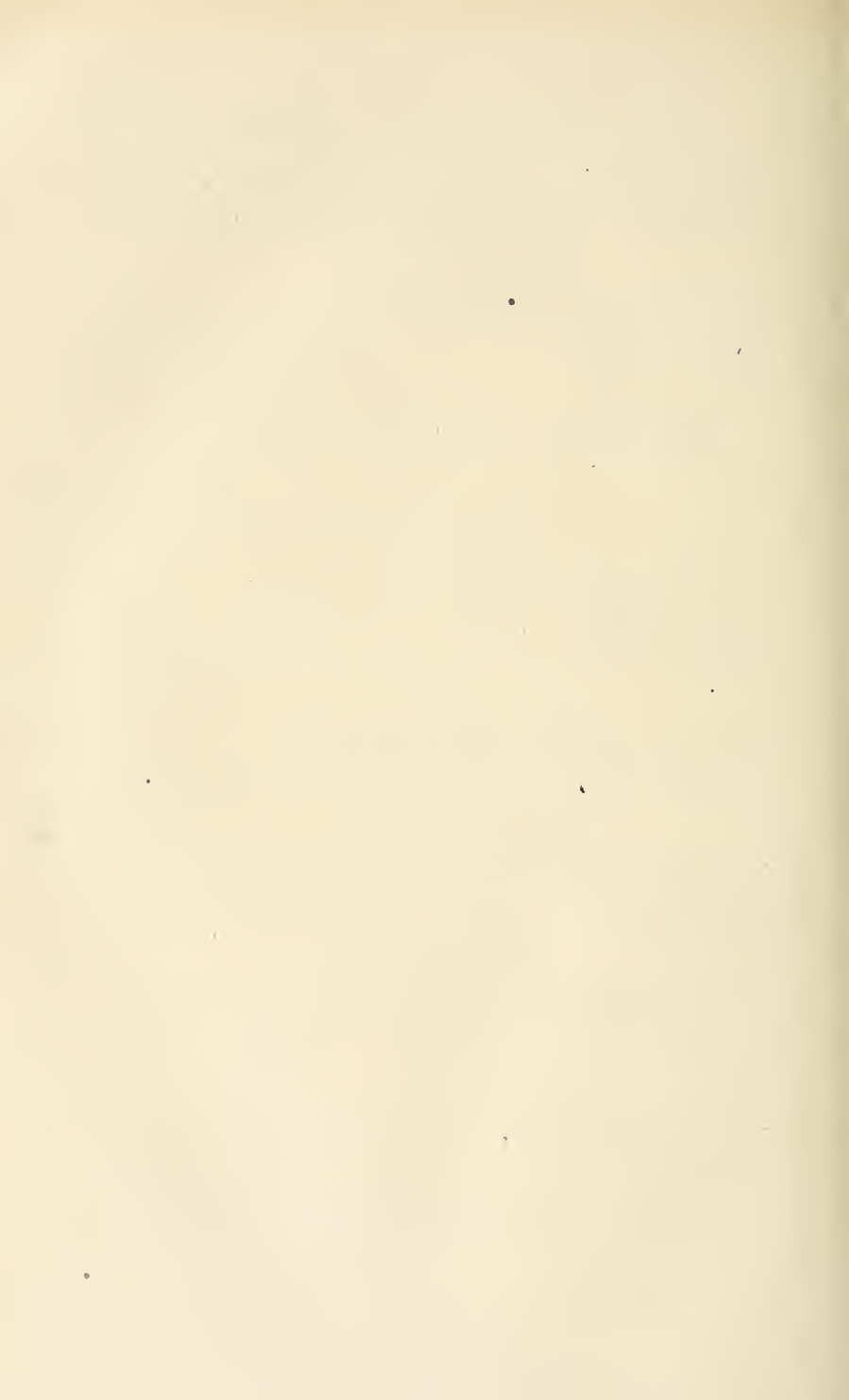
5 per cent, 1913.....	\$200.00
5 per cent, 1942.....	250.00
Cash on hand.....	37.89

Total amount of bonds and cash Decem- ber 31, 1897.....	\$487.89
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Total permanent fund December 31, 1897	\$52,896.31
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JAMES E. DODGE,

Auditor.



REPORT
OF THE
TRUSTEES OF THE SINKING FUND.

REPORT

OF THE

TRUSTEES OF THE SINKING FUND.

To the Trustees of the Sinking Fund:

GENTLEMEN,—I herewith transmit to you the fifth annual report of the receipts of this board for the year ending December 31, 1897:

DR.

Total amount of fund Jan. 1, 1897, for the payment of improvement bonds	\$20,577.15
Appropriation for 1896.....	15,000.00
Appropriation for 1897.....	20,000.00
Income received from interest on bonds	1,410.09
Income received from savings bank deposit	27.35
	\$57,014.59

CR.

By bonds on hand January 1, 1897	\$20,000.00
Bonds bought during the year....	35,000.00
Premium paid for bonds.....	1,790.00
Accrued interest on bonds.....	184.44
Cash on hand December 31, 1897..	40.15
	\$57,014.59

DR.

Total amount of fund Jan. 1, 1897,		
for the payment of water bonds	\$43,597.72	
Water-works hydrant service, 1896	16,800.00	
Water-works hydrant service, 1897	17,175.00	
Appropriation for 1897.....	5,000.00	
Income received from interest on		
bonds	2,006.50	
Income received from savings bank		
deposit	67.42	
	<hr/>	\$84,646.64

CR.

By bonds on hand January 1, 1897	\$42,000.00	
Bonds bought during the year....	37,000.00	
Premium paid for bonds.....	2,497.00	
Cash on hand December 31, 1897..	3,149.64	
	<hr/>	\$84,646.64

DR.

Total amount of fund for the payment of		
school bonds, appropriation 1897.....	\$2,000.00	

CR.

By bonds bought during the year.....	\$2,000.00
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Respectfully submitted.

FRED L. ALLEN,
Treasurer Sinking Fund.

This is to certify that I have examined the books of accounts of Fred L. Allen, treasurer of the trustees of the sinking fund, embracing the receipts and expenditures for the year ending December 31, 1897, and find the same

correct and properly vouched. I have also examined the securities in which said fund is invested, and find as follows:

For the payment of improvement bonds.

Bonds of the city of Manchester, N. H.:

4 per cent, 1900.....	\$15,000.00	
4 per cent, 1908.....	10,000.00	
4 per cent, 1913.....	5,000.00	
4 per cent, 1914.....	5,000.00	
4 per cent, 1915.....	4,000.00	
4 per cent, 1917.....	16,000.00	
Cash on hand December 31, 1897	40.15	
	<hr/>	\$55,040.15

For the payment of water bonds:

Bonds of the city of Manchester, N. H.:

4 per cent, 1900.....	\$2,000.00	
4 per cent, 1909.....	10,000.00	
4 per cent, 1910.....	6,000.00	
4 per cent, 1913.....	10,000.00	
4 per cent, 1914.....	18,000.00	
4 per cent, 1916.....	11,000.00	
4 per cent, 1917.....	22,000.00	
Cash on hand December 31, 1897	3,149.64	
	<hr/>	\$82,149.64

For the payment of school bonds.

Bonds of the city of Manchester, N. H.:

4 per cent, 1914.....	\$2,000.00	
	<hr/>	

Total amount of sinking fund Decem- ber 31, 1897.....	\$139,189.79
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JAMES E. DODGE,

Auditor.

GAS LIGHTS, OIL LAMPS, AND
ELECTRIC LIGHTS.

GAS LIGHTS, OIL LAMPS, AND ELECTRIC LIGHTS.

Gas Lights in Use.

Clarke and Chestnut.
Appleton, west end.
Salmon, between Elm and Canal.
Blodget and Chestnut.
Orange and Chestnut.
Orange, between Chestnut and Elm.
Bridge, between Chestnut and Elm.
Pearl and Walnut.
Orange and Walnut.
Orange and Beech.
Pearl and Maple.
Arlington and Maple.
East High and Maple.
Lowell and South.
Concord and Belmont.
Amherst and Belmont.
Concord and Beacon.
Lowell and Beacon.
East High and Belmont.
East High and Hall.
Belmont and Central.
Willow and Merrill.
Auburn and Franklin.

One light on State.
 River, near Turner Hall.
 Milford and Bowman.
 Milford and B.
 River and Douglas.
 Dover and Granite.

Oil Lights in Use.

Clarke and Adams.
 Pearl and Linden.
 Canal, near Amoskeag bridge.
 Merrimack and Beacon.
 Hanover and Mammoth road.
 Lake avenue and Hall road.
 Elm and Shasta.
 Elm and Baker.
 One light on Baker.
 Douglas and West.
 Douglas and Quincy.
 Granite and Quincy.
 Mast road and Riddle.
 Carroll.
 Bowman.
 A and B streets.
 Light near the Huntress gardens.
 Mammoth road and Cohas avenue.
 Mammoth road and Island Pond road.
 Mammoth road and Cilley.
 Mammoth road and Young.
 Massabesic and Hall road.
 Massabesic and Taylor.
 Belmont and Green.
 Valley and Taylor.
 Valley and Cypress.
 Cypress and Prout avenue.

Jewett and Young.

Young and Taylor.

Three lights on River road, south of Blue store.

Ten lights in Goffe's Falls.

Three lights in Youngsville.

One light on Candia road, near Noah Reed's.

One light on Candia road, near Walter Cody's house.

One light at junction of Lake avenue and Hanover.

One light on Island Pond road, Mill-Dam House.

Amherst and Beacon.

One light at junction Ainsworth avenue and Young road.

One light at junction Ainsworth avenue and Young street.

One light on Taylor, near Byron Stearns's house.

One light on Taylor, near Gilmore's house.

One light on Valley, near Eastman's store.

One light on Candia road, at P. Rogers's.

One light on Candia road, at Dan Cronin's.

One light on Candia road, at G. Bean's.

One light on Candia road, at C. Francis's.

One light on Candia road, at S. Mead's.

One light on Candia road, at Clafin's.

One light on Hanover, at Sam Page's.

One light at junction of Hanover and Page.

One light at Brown's.

One light at junction of Hanover and Proctor.

One light at junction of Hanover and Candia roads.

One light at junction of Proctor and Candia roads.

Electric Lights in Use.

No. 1.	Cypress and Massabesic,	arm.
2.	Massabesic and Old Falls road,	pole.
3.	Lake avenue and Beacon,	arm.
4.	Central and Hall.	"
5.	Lake avenue and Massabesic,	"

No.		arm.
6.	Wilson and Laurel,	arm.
7.	Merrimack and Hall,	"
8.	Manchester and Hall,	"
9.	Manchester and Wilson,	"
10.	Hanover and Ashland,	"
11.	Hanover and Hall,	"
12.	Hanover and Beacon,	"
13.	Concord and Ashland,	"
14.	Bridge and Hall,	"
15.	Myrtle and Russell,	"
16.	Pearl and Linden,	"
17.	Pearl and Russell,	"
18.	Bridge and Nashua,	"
19.	Nashua and High,	"
20.	Concord and Dutton,	"
21.	Amherst and Lincoln,	"
22.	Hanover and Lincoln,	"
23.	Manchester and Lincoln,	"
24.	Merrimack and Lincoln,	"
25.	Laurel and Lincoln,	"
26.	Central and Lincoln,	"
27.	Lake avenue and Lincoln,	"
28.	Spruce and Lincoln,	"
29.	Spruce and Maple,	"
30.	Lake avenue and Maple,	"
31.	Central and Maple,	"
32.	Merrimack and Maple,	"
33.	Manchester and Maple,	"
34.	Hanover and Maple,	"
35.	Amherst and Maple,	"
36.	Concord and Maple,	"
37.	Lowell and Nashua,	"
38.	Bridge and Maple,	"
39.	Myrtle and Maple,	"
40.	Orange and Ash,	"
41.	Harrison and Beech,	"

No. 42.	Myrtle and Beech,	arm.
43.	Pearl and Beech,	"
44.	Bridge and Beech,	"
45.	Lowell and Ash,	"
46.	Amherst and Ash,	"
47.	Lowell and Beech,	"
48.	Concord and Walnut,	"
49.	Amherst and Beech,	"
50.	Hanover and Beech,	"
51.	Hanover square,	pole.
52.	Manchester and Beech,	arm.
53.	Merrimack and Beech,	"
54.	Laurel and Beech,	"
55.	Central and Beech,	"
56.	Lake avenue and Beech,	"
57.	Spruce and Beech,	"
58.	Cedar and Union,	"
59.	Lake avenue and Union,	"
60.	Central and Union,	"
61.	Laurel and Union,	"
62.	Merrimack and Union,	"
63.	Manchester and Union,	"
64.	Hanover and Union,	"
65.	Amherst and Union,	"
66.	Concord and Union,	"
67.	Lowell and Walnut,	"
68.	Lowell and Union,	"
69.	High and Union,	"
70.	Bridge and Union,	"
71.	Bridge and Walnut,	"
72.	Orange and Union,	"
73.	Prospect and Union,	"
74.	Brook and Union,	"
75.	Pennacook and Union,	"
76.	Webster and Pine,	"
77.	North and Pine,	pole.

No. 78.	Sagamore and Pine,	arm.
79.	Blodget and Pine,	"
80.	Harrison and Hazel,	"
81.	Prospect and Pine,	"
82.	Myrtle and Pine,	"
83.	Orange and Pine,	"
84.	Pearl and Pine,	"
85.	Bridge and Pine,	"
86.	Tremont square,	pole.
87.	High and Pine,	arm.
88.	Lowell and Pine,	"
89.	Concord and Pine,	"
90.	Amherst and Pine,	"
91.	Hanover and Pine,	"
92.	Manchester and Pine,	"
93.	Merrimack and Pine,	"
94.	Laurel and Pine,	"
95.	Central and Pine,	"
96.	Lake avenue and Pine,	"
97.	Cedar and Pine,	"
98.	Auburn and Pine,	"
99.	Cedar and Chestnut,	"
100.	Park square,	pole.
101.	Lake avenue and Chestnut,	arm.
102.	Central and Chestnut,	"
103.	Merrimack square, east,	pole.
104.	Merrimack and Chestnut,	arm.
105.	Manchester and Chestnut,	"
106.	Hanover and Chestnut,	"
107.	Concord square, east,	pole.
108.	Concord square, west,	"
109.	Chestnut and Concord back street,	arm.
110.	Chestnut and High,	"
111.	Chestnut and Bridge,	"
112.	Chestnut and Pearl,	"
113.	Chestnut and Myrtle,	"

No. 114.	Chestnut and Harrison,	arm.
115.	Chestnut and Brook,	"
116.	Pennacook and Chestnut,	pole.
117.	Salmon and Chestnut,	"
118.	Webster and Chestnut,	arm.
119.	Clarke and Elm,	"
120.	Webster and Elm,	"
121.	North and Elm,	"
122.	Salmon and Elm,	"
123.	Pennacook and Elm,	"
124.	Brook and Elm,	"
125.	Harrison and Elm,	"
126.	Langdon street,	pole.
127.	Dean and Elm,	arm.
128.	Prospect and Chestnut,	"
129.	Orange and Elm,	"
130.	Kidder and Elm,	"
131.	Elm east back street, on Pearl,	"
132.	Bridge and Elm,	"
133.	Washington and Church,	"
134.	Birch and Lowell,	"
135.	Lowell and Elm,	"
136.	Elm east back street, between Lowell and Concord,	"
137.	Water and Elm,	"
138.	Vine and Concord,	"
139.	Vine and Amherst,	"
140.	Amherst and Elm,	"
141.	Spring and Elm west back street,	"
142.	Stark street,	"
143.	Market and Franklin,	"
144.	Market and Elm,	"
145.	Hanover and Elm east back street,	"
146.	Elm and Manchester,	"
147.	Dean avenue and Elm west back street,	"
148.	Elm and Merrimack,	"

No. 149.	Franklin and Merrimack,	arm.
150.	Middle street,	"
151.	Merrimack square, west,	pole.
152.	Elm and Central,	arm.
153.	Elm and Lake avenue,	"
154.	Elm and Spruce,	"
155.	Elm east back street, between Spruce and Cedar,	pole.
156.	Elm and Cedar,	arm.
157.	Franklin and Granite,	"
158.	Elm and Auburn,	"
159.	Elm and Green,	"
160.	Elm and Valley,	"
161.	Elm and Brown avenue,	"
162.	Summer and State,	pole.
163.	Granite and State,	arm.
164.	Granite bridge, east,	pole.,
165.	Bedford and Granite,	"
166.	Canal and Granite,	"
167.	Depot and Canal,	"
168.	Central, between Franklin and Canal,	"
169.	Bedford and Central,	arm.
170.	Canal and Merrimack,	"
171.	Canal and Middle,	"
172.	Canal and Stark,	"
173.	Canal and Mechanic,	"
174.	Canal and Spring,	"
175.	Canal and Bridge,	"
176.	McGregor bridge, east,	pole.
177.	Canal and Hollis,	"
178.	Canal and Dean,	"
179.	Canal and Langdon,	arm.
180.	River road and North,	"
181.	Amoskeag bridge, east,	o
182.	Amoskeag bridge, west,	o
183.	Amoskeag watering-trough,	pole.

No. 184.	Amoskeag brick store,	pole.
185.	McGregor and Main,	"
186.	McGregor and Bridge,	"
187.	McGregor bridge, west,	"
188.	Amory and Main,	"
189.	Amory and Beauport,	"
190.	Wayne and Beauport,	"
191.	Marion and Main,	"
192.	McGregor and Wayne,	"
193.	McGregor and Putnam,	arm.
194.	Sullivan and Main,	pole.
195.	Beauport and Sullivan,	"
196.	Main and Schuyler,	"
197.	Wilton and Main,	arm.
198.	Douglas and Main,	"
199.	Douglas and Barr,	"
200.	Granite and Green,	"
201.	West and Granite,	"
202.	Granite and Main,	"
203.	Granite and Second,	"
204.	Granite bridge, west,	pole.
205.	School and Turner,	arm.
206.	School and Third,	"
207.	Second and Bath,	pole.
208.	Ferry and Turner,	arm.
209.	Ferry and Third,	"
210.	Walker and Second,	"
211.	Blaine and Third,	"
212.	Clinton and Main,	"
213.	Walker and Main,	"
214.	Parker and West,	"
215.	Winter and Parker,	"
216.	Main and Mast,	pole.
217.	Main and Milford,	arm.
218.	Main and A,	"
219.	Carroll and Milford,	"

No. 220.	Old Mast road and Mast,	arm.
221.	Hall and Amherst,	"
222.	Laurel and Maple,	"
223.	Central and Wilson,	"
224.	Harrison and Pine,	"
225.	Massabesic and Belmont,	pole.
226.	Union and Appleton,	arm.
227.	Elm and Young,	pole.
228.	Franklin and Pleasant,	arm.
229.	Elm and Appleton,	"
230.	Milford and Riddle,	"
231.	Nutt road and Portsmouth Railroad,	pole.
232.	Lake avenue and Canton,	"
233.	Laurel and Hall,	arm.
234.	Beech and Brook,	"
235.	Kidder and Boyden,	pole.
236.	Myrtle and Walnut,	arm.
237.	Bridge and Linden,	"
238.	Lowell and Ashland,	"
239.	Lowell and Belmont,	"
240.	Pearl and Union,	"
241.	Salem and Union,	pole.
242.	Water street,	arm.
243.	Arlington and Ashland,	"
244.	Orange and Oak,	"
245.	Prospect and Oak,	"
246.	Arlington and Russell,	"
247.	Walnut and Gore,	"
248.	Laurel and Milton,	"
249.	Massabesic and Hospital road,	pole.
250.	Lake avenue and Wilson,	arm.
251.	Bridge and Ash,	"
252.	Franklin and Depot,	"
253.	Spruce and Union,	"
254.	Malvern and East High,	"
255.	Hanover and Highland,	pole.

No. 256.	Auburn and Beech,	pole.
257.	Kidder and Whitney,	"
258.	Valley and Jewett,	"
259.	Concord and Derry,	"
260.	Auburn and Union,	"
261.	Harrison and Walnut,	arm.
262.	West Hancock and Second,	pole.
263.	Douglas and West,	"
264.	Hooksett road, Amoskeag,	"
265.	Ash and Prospect,	arm.
266.	Canal and Salmon,	pole.
267.	Harrison and Russell,	arm.
268.	Gates and Dubuque.	pole.
269.	Baker and Elm,	"
270.	Auburn and Maple,	"
271.	Pine and Salmon,	"
272.	Adams and Appleton,	"
273.	Clarke and River road,	arm.
274.	North Main and Bremer,	pole.
275.	Beech and Cedar,	"
276.	Cass and Lake avenue,	"
277.	Mast and Riddle,	"
278.	Brown avenue and Baker,	arm.
279.	Brown avenue and Hancock,	pole.
280.	Clarke and Union,	arm.
281.	Brook and Maple,	pole.
282.	Market and Canal,	arm.
283.	Brook and Hazel,	pole.
284.	Webster and River road,	"
285.	Webster and Walnut,	"
286.	Chestnut, near Ray brook,	"
287.	Concord and Beech,	arm.
288.	Prospect and Linden,	pole.
289.	Pearl and Morrison,	"
290.	Concord and Hall,	arm.

No. 291.	Merrimack and Belmont,	arm.
292.	Spruce and Beacon,	"
293.	Belmont and Grove,	"
294.	Bowman, near Milford,	"
295.	Amory and Rimmon,	pole.
296.	Pine and Valley,	"
297.	Manchester and Milton,	"
298.	Mammoth and Candia road,	"
299.	Cypress and Hayward,	"
300.	Conant and Rimmon,	"
301.	Cartier and Kelley,	"
302.	Monmouth and McGregor back street,	"
303.	Calef road and Welch avenue,	"
304.	Valley and Taylor,	arm.
305.	Pine and Brook,	"
306.	Conant and Beauport,	"
307.	Douglas and North Weare Railroad,	pole.
308.	Orange and Hall,	"
309.	Wayne and Dubuque,	arm.
310.	Putnam and Cartier,	"
311.	Hall road and Lake avenue,	pole.
312.	Walker and Fourth,	arm.
313.	Winter, near Main,	"
314.	Walker and Turner,	pole.
315.	Ainsworth avenue and Young street,	arm.
316.	Valley and Belmont,	"
317.	Pine and Grove,	"
318.	Blaine and Second,	"
319.	Amory and Morgan,	"
320.	Amory and Alsace,	"
321.	East High and South,	"
322.	Blaine and Main,	"
323.	Dover and Clinton,	"
324.	Elm back street, on Blodget,	"
325.	B and C,	pole.

No. 326.	Milford and Bismarck,	pole.
327.	Merrimack and Wilson,	arm.
328.	Pennacook and Canal,	pole.
329.	Adams and Cartier,	"
330.	Amherst and Ashland,	arm.
331.	Putnam and Bartlett,	pole.
332.	Auburn and Chestnut,	arm.
333.	Laurel and Laurel avenue,	"
334.	Hanover and Belmont,	"
335.	Lowell and Malvern,	"
336.	Wilson and Adams,	"
337.	Lincoln and Silver,	"
338.	Somerville and Jewett,	"
339.	Elm and Ray brook,	"
340.	Amory and Bartlett,	"
341.	West Hancock and Dartmouth,	"
342.	Monroe and River road,	"
343.	Marion and McGregor,	"
344.	South Main and Harvell,	"
345.	South Main and Hancock,	"
346.	Boynton street,	"
347.	Mast road and Forest,	"
348.	North and Union,	"
349.	Kelley and Rimmon,	"
350.	Coolidge avenue, near Kelley,	"
351.	Buzzell and East High,	"
352.	Mechanic and Elm back street,	"
353.	Harrison and Maple,	"
354.	North and Bay,	"
355.	Front and Dunbarton,	"
356.	Orange and Linden,	"
357.	Myrtle, near Belmont,	"
358.	Taylor and Young road,	"
359.	Nutt road and Auger avenue,	"
360.	Union and Grove,	"

No. 361.	Kelley and Alsace,	arm.
362.	Main and Wayne,	"
363.	Spruce and Barry avenue,	"
364.	Lowell and Hall,	"
365.	Central and Canal,	"
366.	Myrtle and Elm back street,	"
367.	Wilson and Silver,	"
368.	Beech and Young,	"
369.	Beech and Lawrence Railroad,	"
370.	Lincoln and Cedar,	"
371.	Wilson and Spruce,	"
372.	Laurel and Beacon,	"
373.	Harrison and Oak,	"
374.	Pearl and Oak,	"
375.	Liberty and Webster,	"
376.	Wentworth and Bell,	"
377.	Montgomery and Conant,	"
378.	Massabesic and Hall road,	"
379.	Summer and Hall,	"
380.	Harrison and Ash,	"
381.	Bridge and Highland,	"
382.	Lowell and Chestnut,	"
383.	Spruce and Chestnut west back street,	"
384.	Tilton and Bowman avenue,	"
385.	Prince and Boynton,	"
386.	Carroll and Charlestown avenue,	"
387.	Beech and Silver,	"
388.	Beech and Portsmouth Railroad,	"
389.	Merrimack and Franklin west back street,	"
390.	Prospect and Elm back street,	"
391.	Pine and Pennacook,	"
392.	Sagamore and Walnut,	"
393.	Bridge and Belmont,	"
394.	Cypress and Valley,	"
395.	Carpenter and Union,	"

No. 396.	North River road and Rowell,	arm.
397.	North River road and Stark park,	"
398.	Hanover and Grant,	"
399.	Page and Portsmouth Railroad,	"
400.	Central and Cass,	"
401.	Second and Schiller,	"
402.	Mast and Bowman,	"
403.	North Union,	"
404.	Gore and Ash,	"
405.	South and Elm,	"
406.	Beech and Nutt road,	"
407.	Ashland and East High,	"
408.	Laurel and Belmont,	"
409.	Lake avenue, near Beacon,	"
410.	Pine and Green,	"
411.	Hanover and Page,	"
412.	Beech and Green,	"
413.	New Mast road and Wilkins,	"
414.	Derryfield park,	"
415.	Charles street,	"
416.	State, near Granite,	"
417.	Union and Valley,	"
418.	Union and Silver,	"
419.	Valley and Wilson,	"
420.	Auburn and Wilson,	"
421.	Cedar, near Maple,	"
422.	Thornton and Sullivan,	"
423.	New Mast road and D,	"
424.	Pearl and Belmont,	"
425.	State, south of Granite,	"
426.	State east back,	"
427.	Elm and Shasta,	"
428.	North and Walnut,	"
429.	Nutfield Lane, north of Amherst,	"
430.	Elm and Elm avenue,	"

No. 431.	Arlington and Warren,	arm.
432.	Merrimack and Belmont,	"
433.	Amory, near Montgomery,	"
434.	Granite bridge, center,	pole.
435.	Prospect and Hall,	arm.
436.	Grove and Beech,	"
437.	Union and Whitford,	"
438.	Bedford road,	"
439.	Elm and Carpenter,	"
440.	North and Chestnut,	"
441.	Blodget and Union,	"
442.	Dearborn and Taylor,	"
443.	Union and Myrtle,	"
444.	River road, near Otis,	"
445.	North Adams, near Ray brook,	"
446.	A street, near B street,	"
447.	Elm west back and Winter place,	"
448.	Amherst and Chestnut,	"
449.	Salmon and Beech,	"
450.	Summer and Dearborn,	"
451.	East High and Hall,	"
452.	Myrtle, west of Hall,	"
453.	Merrimack, east of Beacon,	"
454.	Taylor and Vinton,	"

REPORT OF THE CITY AUDITOR.

REPORT OF THE CITY AUDITOR.

To the City Councils:

GENTLEMEN,—The auditor herewith submits to your honorable body his annual report.

WORK OF THE OFFICE.

There have been made during the year the usual annual examinations of the accounts of the treasurer, city clerk, water-works, superintendents of Pine Grove and Valley cemeteries, tax collector, superintendent of city farm, superintendent of schools; monthly examination of the accounts of city weigher, quarterly examination of the accounts of chief of police, semi-annual examination of the account of the clerk of the police court; and compilation and superintendence of the publication of the annual report.

About six thousand bills against the city have been examined and certified as correct. All the pay-rolls for the street and park commission, schools, fire department, water-works, police department, cemeteries, city farm, and city officials, have been examined and certified to.

Twelve monthly drafts, amounting in the aggregate to \$1,340,844, have been drawn on the city treasury.

Accounts have been kept with all the appropriations, with the treasurer, and tax collector.

EXPENDITURES.

The amount of appropriation for auditor's department was		\$2,000.00
Expended for salaries.....	\$1,860.00	
Expended for supplies.....	60.65	
Balance transferred to reserved fund	79.35	
	<hr/>	\$2,000.00

Respectfully submitted.

JAMES E. DODGE,
City Auditor.

REPORT OF THE CITY TREASURER.

	DR.
To Tower, Giddings & Co., water bonds..	\$100,000.00
Tower, Giddings & Co., premium on bonds	6,248.00
Curtis & Motley, temporary loan.....	100,000.00
Manchester National Bank, temporary loan	50,000.00
F. S. Mosley & Co., temporary loan....	50,000.00
F. S. Mosley & Co., premium on loans..	.75
R. L. Day & Co., temporary loan.....	50,000.00
E. C. Smith, city hall.....	98.50
M. J. Healy, police department.....	47,815.01
John C. Bickford, police department..	1,451.64
Fred L. Allen, treasurer Pine Grove cemetery	2,300.00
B. A. Stearns, Pine Grove cemetery...	2,786.16
C. H. G. Foss, Valley cemetery.....	1,800.00
county of Hillsborough, paupers off the farm	2,689.50
A. F. Precourt, milk licenses.....	92.50
trustees cemetery fund, bonds.....	7,750.00
A. B. Eaton, city scales.....	457.89
William E. Buck, tuition.....	349.05
William E. Buck, free text-books.....	208.68
N. P. Kidder, rent of tenements.....	5.82
E. C. Smith, rent of tenements.....	202.55
H. D. Lord, rent of tenement.....	67.06
George E. Morrill, taxes of 1893.....	85.00
George E. Morrill, taxes of 1896.....	51,880.13
George E. Morrill, abatement of 1896..	965.78

To George E. Morrill, taxes of 1897.....	\$576,672.76
George E. Morrill, abatement of 1897..	658.81
George E. Morrill, old taxes.....	457.71
George E. Morrill, interest on taxes...	1,449.91
E. C. Smith, dog licenses.....	2,131.31
E. C. Smith, billiard table licenses.....	332.43
E. C. Smith, show licenses.....	77.00
N. P. Kidder, show licenses.....	658.00
N. P. Kidder, sewer licenses.....	1,980.12
E. C. Smith, sewer licenses.....	3,716.50
E. C. Smith, lunch-cart licenses.....	67.50
street and park commissioners, for sup- plies furnished sundry persons.....	81.42
health department, antitoxine sold....	69.55
F. L. Allen, treasurer, unclaimed bills prior to December, 1892.....	29.64
street and park commission, amount re- ceived from Manchester Street Rail- way	3,899.39
Charles K. Walker, water-works.....	125,719.17
E. G. Libbey, city farm.....	4,560.54
E. C. Smith, temporary merchants.....	50.00
B. Tafts, peddler's license.....	20.00
Solomon Kaplan, peddler's license....	20.00
town of Londonderry, school tax, 1896	39.15
Abraham Sharpiro, peddler's license..	20.00
Simon Lowanstan, peddler's license...	20.00
Barnett Custen, peddler's license.....	20.00
M. Kurtz, peddler's license.....	20.00
Aaron H. Weinstein, peddler's license..	20.00
Joseph Breault, gray horse, fire depart- ment	20.00
M. Rosenblum, peddler's license.....	20.00
S. Levenson, peddler's license.....	20.00
Israel Seidel, peddler's license.....	20.00

To N. J. Bachelder, secretary, four fifths expense disposing of two glandered horses	\$18.40
George E. Morrill, collector, redemption taxes, 1895	398.26
George E. Morrill, collector, redemption taxes, 1894	1,444.16
George E. Morrill, collector, redemption taxes, 1896	2,635.60
George E. Morrill, collector, redemption taxes, 1895	1,437.92
Dana Dubin, peddler's license.....	20.00
county of Hillsborough, coal for court house	66.87
state of New Hampshire, four fifths ex- pense of killing glandered horse.....	14.40
executor estate of James A. Weston, legacy bequeathed to city of Manches- ter for observatory on Oak Hill.....	5,000.00
C. W. Boynton, land sold on Spruce St.	182.09
C. W. Boynton, interest on notes.....	20.02
St. Raphael's school, desks.....	45.00
J. E. Lanouette, overdraft.....	11.75
Clark M. Bailey, overdraft.....	10.00
Notre Dame de Lourdes Hospital, over- draft	30.00
J. H. McKenzie.....	82.40
Solon A. Carter, insurance tax.....	2,964.75
Solon A. Carter, railroad tax.....	35,255.86
Solon A. Carter, savings bank tax.....	48,516.24
Solon A. Carter, literary fund.....	3,511.68
Charles W. Boynton, land sold on Spruce street	182.09
New England Telephone & Telegraph Co., discount on October tolls.....	.54

To John B. Clarke Co., overdraft.....	\$5.50
town of Londonderry, school tax, 1897..	38.87
T. C. Stewart, board of Emma Daniels	16.00

Total receipts for year 1897.....	\$1,302,033.33
Cash on hand January 1, 1897.....	240,961.57
Unpaid bills December 31, 1897.....	18,323.80
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	\$1,561,318.70

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By January draft	\$59,219.76
February draft	143,549.68
March draft	43,399.26
April draft	38,009.83
May draft	48,203.50
June draft	116,404.70
July draft	102,437.06
August draft	112,584.38
September draft	155,804.49
October draft	46,218.14
November draft	361,291.28
December draft	113,721.92

Total drafts of year 1897.....	\$1,340,844.00
Unpaid bills January 1, 1897.....	80,098.53
Cash on hand December 31, 1897.....	140,376.17
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	\$1,561,318.70

FRED L. ALLEN,
Treasurer.

To the City Councils of the City of Manchester, N. H.:

GENTLEMEN,—I have examined the accounts of Fred L. Allen, city treasurer, for the year ending December 31, 1897, and find proper vouchers for all payments, and all receipts duly accounted for.

RECEIPTS.

499

The net cash on hand January 1 was.....	\$160,863.04
Receipts during the year.....	1,302,033.33
Total	<u>\$1,462,896.37</u>
Amount of drafts during the year.....	\$1,340,844.00
Net cash on hand December 31, 1897.....	122,052.37
Total	<u>\$1,462,896.37</u>

The cash balance taken December 31, 1897, I find to be as follows:

Deposited in Suffolk National Bank.....	\$21,057.00
Deposited in Second National Bank.....	113,678.98
Deposited in office safe.....	4,702.28
Deposited in Commonwealth National Bank	937.91
Gross amount of cash on hand.....	<u>\$140,376.17</u>
Deduct amount of bills unpaid.....	18,323.80
Net cash on hand December 31, 1897	<u>\$122,052.37</u>

Respectfully submitted, together with a tabular statement of the receipts and expenditures of the city for the year 1897.

JAMES E. DODGE,
City Auditor.

STATEMENT OF THE RECEIPTS AND EXPENDITURES OF THE CITY OF MANCHESTER FOR THE YEAR 1897.

Receipts.

CENTRAL DEPARTMENT.

Received from:

Direct city taxes.....	\$630,213.91
Cost and interest on taxes...	1,449.91
	<u>\$631,663.82</u>

Licenses to enter sewer.....	\$5,696.62	
to keep dog.....	2,131.31	
to sell milk.....	92.50	
to keep billiard and pool tables, and lunch carts	399.93	
to shows and exhi- bitions	735.00	
to peddle	270.00	
	<hr/>	\$9,325.36
Rents		373.93

SUNDRIES.

Received from:		
City scales	\$457.89	
Miscellaneous sources	579.49	
	<hr/>	\$1,037.38

SCHOOL DEPARTMENT.

Received from text-books and tuition.....	\$557.73
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POLICE DEPARTMENT.

Received from fines and costs.....	\$49,266.65
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PUBLIC PLACES.

Received from:		
Pine Grove cemetery.....	\$5,086.16	
Valley cemetery	1,800.00	
	<hr/>	\$6,886.16

WATER-WORKS.

Gross receipts	\$125,719.17
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CHARITABLE, PATRIOTIC, AND PHILANTHROPIC.

Received from:		
City farm	\$4,560.54	
Hillsborough county, board- ing paupers and Industrial School inmates.....	2,689.50	

RECEIPTS.

501

James A. Weston estate, Weston Observatory	\$5,000.00	
	<hr/>	\$12,250.04

MISCELLANEOUS.

Received from:

Premium on bonds and notes sold	\$6,248.75	
Interest on notes.....	20.02	
Land redeemed from tax sale	6,422.22	
Manchester Electric Railway, on account of paving.....	3,899.39	
Land sold	364.18	
	<hr/>	\$16,954.56

Total ordinary receipts during the year 1897		\$854,034.80
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TEMPORARY LOAN.

Received from loans in anticipation of tax of 1897		\$250,000.00
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STATE.

Received from:

Insurance taxes	\$2,964.75	
Railroad taxes	35,255.86	
Savings bank taxes.....	48,516.24	
Literary fund	3,511.68	
	<hr/>	\$90,248.53

BONDED DEBT.

Received from:

Water bonds sold.....	\$100,000.00	
Cemetery bonds sold.....	7,750.00	
	<hr/>	\$107,750.00

Gross receipts	\$1,302,033.33	
Net cash on hand January 1, 1897.....	160,863.04	
	<hr/>	\$1,462,896.37
	<hr/>	<hr/>

Expenditures.

CENTRAL DEPARTMENT.

Paid interest on water bonds..	\$40,414.00	
interest on city bonds...	41,406.00	
interest on cemetery bonds	2,268.75	
interest on temporary loan, anticipation tax, 1897	2,834.79	
	<hr/>	\$86,923.54
Paid city hall	\$2,949.97	
printing and stationery..	1,735.90	
incidental expenses	16,167.71	
mayor's incidentals	280.50	
city officers' salaries....	14,627.18	
city auditor's department	1,920.65	
sinking fund trustees....	27,000.00	
	<hr/>	\$64,681.91

STREET AND SEWER DEPARTMENT.

Paid street and park commis- sion	\$3,427.91
repairs of highways.....	21,203.80
snow and ice.....	4,983.61
new highways	8,381.97
land taken for highways..	912.00
watering streets	3,762.64
paving streets	7,031.79
macadamizing streets....	14,472.74
grading for concrete.....	5,450.96
scavenger service	15,260.85
street sweeping	2,318.22
lighting streets	53,889.73
bridges	3,407.52
city teams	6,723.94

EXPENDITURES.

503

Paid repairs of sewers.....	\$5,830.46	
new sewers	35,698.29	
bicycle path	564.36	
River road and Elm-street sewer	5,258.06	
rebuilding A m o s k e a g bridge abutment.....	3,541.90	
paving Elm and Granite streets	15,552.80	
	<hr/>	\$217,673.55

ENGINEER'S DEPARTMENT.

Paid engineer's department	\$4,780.91
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HEALTH DEPARTMENT.

Paid health department	\$4,366.85
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SCHOOL DEPARTMENT.

Paid repairs of schoolhouses...	\$5,872.74	
fuel	6,628.26	
furniture and supplies....	1,451.84	
books and stationery.....	59.13	
printing and advertising..	304.43	
contingent expenses	3,111.94	
care of rooms.....	5,720.28	
evening schools	1,388.15	
teachers' salaries	77,037.17	
salaries school committee, clerk, truant officer....	1,090.00	
salary of superintendent	2,300.00	
evening school, mechan- ical drawing	364.36	
free text-books	6,320.36	
manual training	1,370.86	
	<hr/>	\$113,019.52

CITY LIBRARY.

Paid city library		\$4,679.97
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FIRE DEPARTMENT.

Paid fire department	\$60,811.28	
fire-alarm telegraph	1,917.35	
hydrant service	17,175.00	
	<hr/>	\$79,903.63

POLICE DEPARTMENT.

Paid police station	\$2,526.57	
police court	3,630.94	
police commission	38,584.90	
	<hr/>	\$44,742.41

PUBLIC BUILDINGS.

Paid repairs of buildings.....	\$3,489.01	
Parker school lot.....	287.74	
new schoolhouses	52,128.74	
Weston Observatory	4,997.94	
	<hr/>	\$60,903.43

WATER-WORKS.

Paid water-works	\$65,113.97	
water-works sinking fund	17,175.00	
	<hr/>	\$82,288.97

PUBLIC PLACES.

Paid commons	\$4,526.80	
West Side park	12,000.00	
land on Squog river.....	1,750.00	
Stark and Derryfield parks	5,003.84	
Pine Grove cemetery.....	8,304.87	
Valley cemetery	2,997.40	
Amoskeag cemetery	337.06	
Merrill yard	57.53	
	<hr/>	\$34,977.50

CHARITABLE, PATRIOTIC, AND PHILANTHROPIC.

Paid paupers off the farm.....	\$8,319.21	
city farm	8,486.55	
indigent soldiers	181.74	
Women's Aid Home.....	300.00	
Sacred Heart Hospital...	300.00	
free beds, Elliot Hospital	300.00	
Emergency ward, Elliot Hospital	300.00	
free beds, Notre Dame de Lourdes Hospital	300.00	
semi-centennial history...	600.00	
decoration of soldiers' graves	399.51	
militia	1,000.00	
band concerts	300.00	
dedication of Weston Ob- servatory	147.90	
dedication new high- school building	84.75	
	<hr/>	\$21,019.66

ABATEMENTS.

Paid abatement of taxes.....	\$1,452.43	
	<hr/>	
Total of ordinary municipal expen- ditures		\$821,414.28

TEMPORARY LOAN.

Paid loan made in anticipation of tax for 1897	\$250,000.00	
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BONDED DEBT.

Paid school bonds	\$10,000.00	
bridge bonds	25,000.00	
water bonds	100,000.00	
	<hr/>	\$135,000.00

STATE AND COUNTY TAXES.

Paid state tax	\$68,225.00	
county tax	66,204.72	
	<u> </u>	\$134,429.72
Grand total of expenditure during the year		\$1,340,844.00
Cash on hand December 31, 1897	\$140,376.17	
Less unpaid bills	18,323.80	
	<u> </u>	
Net cash on hand.....		122,052.37
		<u> </u>
		<u>\$1,462,896.37</u>

Interest.

Appropriation	\$47,500.00	
Transferred from water-works account	40,414.00	
	<u> </u>	\$87,914.00

EXPENDITURES.

Paid Curtis & Motley, discount on \$100,000 notes, 5 months, 26 days.....	\$1,388.45
R. L. Day & Co., discount on \$50,000 note, 2 months, 11 days.....	315.56
Manchester National Bank discount on \$50,000 note	626.40
F. S. Moseley & Co., dis- count on \$50,000 note, 4 months, 15 days.....	504.38
coupons on bridge bonds	2,406.00
coupons on water bonds..	40,414.00

RECEIPTS.

YEAR.	January 1, Balance on hand.	Direct city taxes.	Costs and interest on taxes.	LICENSES.							Hillsboro' county, board of paupers and Industrial School inmates.	Land sold.	Premium on bonds sold.	Accrued interest on bonds sold.	Land redeemed.	Miscellaneous.	Bridges.	City scales.	Electric railroad.	Tuition and text-books.	Court fines and costs.
				To enter sewer.	To keep dog.	To sell milk.	To keep billiard and pool tables.	For peddlers, shows, exhibitions and lunch carts.	Rents.	City farm.											
1896*	\$143,088.90	\$528,960.27	\$1,031.31	\$3,236.48	\$1,281.07	\$80.00	\$175.00	\$620.50	\$585.26	\$4,494.12	\$3,400.71	\$15,476.44	\$10,378.00	\$531.46	\$4,423.46	\$384.05	\$1,228.00	\$313.13	.....	\$505.98	\$64,005.51
1897*	160,863.61	630,213.91	1,449.91	5,696.62	2,131.31	92.50	226.93	1,078.00	373.93	4,560.54	2,689.50	364.18	6,248.75	20.02	6,422.22	579.49	.....	457.89	\$3,899.39	557.73	49,266.65

EXPENDITURES.

YEAR.	INTEREST.				City officers' salaries.	City Hall.	Auditors' department.	Police department.	STREET AND SEWER DEPARTMENT.															
	On water bonds.	On city bonds.	On cemetery bonds.	On temporary loan.					Street and park commission.	Repairs of highways, snow and ice.	New highways.	Widening old Main-moth road.	Land damages.	Sprinkling.	Paving.	Paving Elm and Granite streets.	Macadamizing.	Grading for concrete.	Scavenger teams.	Street sweeping.	Lighting streets.	Bridges, maintenance.	Amoskeag bridge abutment.	Granite street bridge.
1896..	\$41,446.00	\$30,362.00	\$1,912.48	\$925.01	\$14,885.49	\$5,316.61	\$1,969.77	\$53,046.86	\$3,712.03	\$23,621.72	\$18,617.52	\$1,000.00	\$2,911.12	\$4,196.48	\$6,320.69	.....	\$19,848.48	\$5,035.82	\$14,991.10	\$2,968.41	\$51,126.60	\$1,336.88	.....	\$138,755.73
1897..	40,414.00	41,406.00	2,268.75	2,834.79	14,627.18	2,949.97	1,920.65	41,742.41	3,427.91	26,187.41	8,381.97	.....	912.00	3,762.64	7,031.79	\$15,552.80	14,472.74	5,450.96	15,260.85	2,318.22	53,889.73	3,407.52	.....	\$3,541.90

EXPENDITURES.—CONTINUED.

YEAR.	Engineers' department.	Health department.	Printing and stationery.	Incidental expenses.	Miscellaneous.	Mayor's incidentals.	CITY LIBRARY.		FIRE DEPARTMENT.			PUBLIC BUILDINGS.		WATER-WORKS.		PUBLIC PLACES.										
							Maintenance.	Books.	Fire department.	Fire-alarm telegraph.	Hydrant service.	Repairs.	New school-houses, lands, buildings and furniture.	Construction, repairs, and current expenses.	Sinking fund.	Commons.	Land.	Stark and Derryfield parks.	Pine Grove cemetery.	Valley cemetery.	Amoskeag cemetery.	Paupers off the farm.	City farm.	Notre-Dame de Lourdes hospital.	Indlg sold.	
1896..	\$5,895.25	\$4,163.39	\$1,938.55	\$16,526.42	.....	\$249.54	\$3,877.37	\$1,000.00	\$63,567.62	\$1,730.42	\$16,800.00	\$7,549.68	\$121,258.86	\$95,993.65	\$16,800.00	\$1,331.15	.....	\$5,000.00	\$8,593.54	\$3,006.81	\$349.72	\$12,140.67	\$8,463.89	\$300.00	\$300.00	\$285.
1897..	4,780.91	4,366.85	1,735.90	16,167.71	\$832.65	280.50	3,679.97	1,000.00	60,811.28	1,917.35	17,175.00	3,489.01	52,416.48	65,113.97	17,175.00	4,526.80	\$13,750.00	5,003.84	8,304.87	2,997.40	337.06	8,319.21	8,486.55	300.00	.....	181.

* See Reports for 1894 and 1895 for comparison with other years.

RECEIPTS.

Interest on debt.	Land redeemed.	Miscella- neous.	Bridges.	City scales.	Electric railroad.	Tuition and text- books.	Court fines and costs.	Pine Grove cemetery.	Valley cemetery.	Weston Legacy.	Gross receipts, water-works.	Total ordi- nary receipts during the year, exclud- ing cash on hand.	LOANS.		TAXES RECEIVED FROM THE STATE.				Total receipts from loans and state taxes.	Grand total re- ceipts during the year, in- cluding cash on hand.
													Temporary.	Bonded.	Insurance tax.	Railroad tax.	Savings bank tax.	Literary fund.		
531.46	\$4,423.46	\$384.05	\$1,228.00	\$313.43	.....	\$505.98	\$64,005.51	\$5,119.23	\$1,900.31	.....	\$128,907.03	\$777,037.62	\$100,000.00	\$456,000.00	\$2,632.50	\$29,530.64	\$50,770.79	\$3,869.60	\$642,803.53	\$1,562,930.05
20.02	6,422.22	579.49	.....	457.89	\$3,899.39	557.73	49,266.65	5,086.16	1,800.00	\$5,000.00	125,719.17	854,034.80	250,000.00	107,750.00	2,964.75	35,255.86	48,516.24	3,511.68	447,998.53	1,462,896.37

EXPENDITURES.

STREET AND SEWER DEPARTMENT.												SCHOOL DEPARTMENT.													
Expending for concrete.	Scavenger teams.	Street sweeping.	Lighting streets.	Bridges, main- tenance.	Amoskeag bridge improvement.	Granite street bridge.	City teams.	Repairs of sewers and drains.	New sewers.	Bicycle path.	Sinking fund.	Repairs of school- houses.	Fuel.	Furniture and sup- plies.	Books and stationery.	Printing and adver- tising.	Contingent expenses.	Care of rooms.	Evening schools.	Teachers' salaries.	Salaries of school com- mittees and transit officers.	Salary of superinten- dent of schools.	Evening schools mechanical drawing.	Free text- books.	Manual training.
\$5,035.82	\$14,991.10	\$2,968.44	\$51,426.60	\$4,336.88	.....	\$138,755.73	\$6,285.70	\$5,421.63	\$71,629.32	.....	\$15,000.00	\$6,578.38	\$6,784.03	\$1,114.14	\$46.04	\$429.56	\$1,857.79	\$5,031.56	\$1,061.50	\$72,838.95	\$1,100.00	\$2,300.00	\$356.25	\$5,058.42	\$1,403.29
5,450.96	15,260.85	2,318.22	53,889.73	3,407.52	\$2,541.90	.....	6,723.95	5,830.46	40,956.35	\$564.36	27,000.00	5,872.74	6,028.26	1,451.84	59.13	304.43	3,111.94	5,720.28	1,388.15	77,037.17	1,090.00	2,300.00	364.36	6,320.36	1,370.86

EXPENDITURES.—CONTINUED.

PUBLIC PLACES.				CHARITY, PATRIOTISM, PHILANTHROPY.														Tax abate- ments.	Total of ordi- nary municipal expenditures.	Debt.	Temporary loan.	State tax.	County tax.	Total of loan debt and state and county tax expenditure.	Grand total of expenditures.	Cash on hand.
Park and Berryfield parks.	Pine Grove cemetery.	Valley cemetery.	Amoskeag cemetery.	Paupers off the farm.	City farm.	Notre-Dame de Lourdes hospital.	Indigent soldiers.	Decorat- ion of soldiers' graves.	Band concerts.	Militia.	Weston Ob- servatory.	Women's Aid Home.	Semi-Cen- tennial cel- ebration.	Free beds, El- liot hos- pital.	Sacred Heart hospital.	Emergen- cy ward, Elliott hos- pital.										
\$5,000.00	\$8,593.54	\$3,066.84	\$349.72	\$12,140.67	\$8,463.89	\$300.00	\$285.85	\$407.47	\$300.00	\$800.00	.....	\$300.00	\$2,000.00	\$300.00	\$300.00	\$300.00	\$1,183.96	\$1,057,637.29	\$110,000.00	\$100,000.00	\$68,225.00	\$66,204.72	\$344,429.72	\$1,402,067.01	\$160,863.04
5,003.84	8,304.87	2,997.40	337.06	8,319.21	8,486.55	300.00	181.74	399.51	300.00	1,000.00	\$4,997.94	300.00	300.00	300.00	300.00	1,452.43	821,414.43	135,000.00	250,000.00	68,225.00	66,204.72	519,129.72	1,340,844.00	122,052.37	

1937

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1937

Paid coupons on improvement		
bonds	\$15,980.00	
coupons on school bonds..	9,200.00	
coupons on city bonds....	6,200.00	
coupons on Granite bridge		
bonds	5,120.00	
coupons on cemetery		
bonds	2,268.75	
interest on security note	2,500.00	
Total expenditures		\$86,923.54
Transferred to reserved fund.....		990.46
		<u>\$87,914.00</u>

Payment of Funded Debt.

Appropriation	\$35,000.00	
Received from sale of bonds...	100,000.00	
		<u>\$135,000.00</u>

EXPENDITURES.

Paid water bonds	\$100,000.00	
school loan bonds.....	10,000.00	
Granite bridge loan bonds	25,000.00	
		<u>\$135,000.00</u>

Sinking Fund.

Appropriation	<u>\$27,000.00</u>
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EXPENDITURES.

Paid sinking fund commis-	
sioners	<u>\$27,000.00</u>

Reserved Fund.

Appropriation	\$10,000.00
Unclaimed bills covered into treasury, per resolution of December 7, 1897.....	29.64
Transferred from the following accounts:	
Interest	990.46
City hall	1,050.03
Printing and stationery	264.10
Mayor's incidentals	19.50
Auditor's department	79.35
Street and park commission	172.09
Land taken for highways....	4,088.00
Watering streets	1,237.36
Macadamizing streets	527.26
Street sweeping	681.78
Bridges	592.48
Scavenger service	739.15
New sewers	4,301.71
Lighting streets	1,110.27
Health department	33.15
Fire department	188.72
Police station	273.43
Police court	269.06
Weston Observatory	2.06
Dedication of Weston Ob- servatory	2.10
Dedication of high-school building	65.25
Parker school lot	12.26
Valley cemetery	2.60
Amoskeag cemetery	12.94
Pine Grove cemetery.....	195.13
Fuel	1,371.74

Furniture and supplies.....	\$548.16
Books and stationery	40.87
Care of rooms	279.72
Evening schools	111.85
Evening school, mechanical drawing	35.64
Manual training	129.14
Care of Merrill yard.....	42.47
Paupers off the farm.....	2,205.79
Indigent soldiers	118.26
Decoration 'of soldiers' graves	.49
Abatement of taxes.....	547.57
Fire-alarm telegraph.....	82.65

\$32,454.23

EXPENDITURES.

Transferred to purchase land on Piscataquog river.....	\$1,750.00
Transferred to the following accounts:	
Parker school lot.....	300.00
Dedication of Weston Ob- servatory	150.00
Dedication of high-school building	150.00
Bicycle path	600.00
Incidental expenses	4,167.71
City officers salaries.....	17.18
Repairs of highways.....	1,698.08
Snow and ice.....	489.33
New highways	1,999.49
Paving streets	2,031.79
Grading for concrete.....	450.96
City teams	223.94
Repairs of sewers.....	830.46
Paving Elm and Granite streets	495.31

Engineer's department	\$280.91	
Police commission	584.90	
Commons	26.80	
Stark and Derryfield parks..	3.70	
Repairs of schoolhouses.	2,872.74	
Contingent expenses	1,411.94	
Printing and advertising.	4.43	
Teachers' salaries	3,037.17	
Free text-books	1,320.36	
City farm	486.55	
Repairs of buildings.	1,531.07	
New schoolhouses	2,599.89	
Transferred to new account..	2,939.52	
		<u>\$32,454.23</u>

Temporary Loan.

RECEIPTS.

Received from Manchester National Bank, on note of \$50,000, dated July 1, 1897.	\$50,000.00	
Received from Hanover National Bank, New York, on four notes of \$25,000 each, dated June 10, 1897.	100,000.00	
Received from Suffolk National Bank, Boston, on note of \$50,000, dated July 30, 1897.	50,000.00	
On note of \$50,000, dated September 29, 1897.	50,000.00	
		<u>\$250,000.00</u>

EXPENDITURES.

Paid Manchester National Bank note dated July 1, 1897.	\$50,000.00
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Paid Hanover National Bank, New York, four notes of \$25,- 000 each, dated June 10, 1897	\$100,000.00	
Paid Suffolk National Bank, Boston, two notes of \$50,000 each, dated July 30, 1897, and September 29, 1897.....	100,000.00	
	<hr/>	<u>\$250,000.00</u>

City Hall.

Appropriation	<u>\$4,000.00</u>
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EXPENDITURES.

FUEL AND LIGHTS.

Paid Manchester Electric Co., electric lights	\$131.70	
People's Gas-Light Co., gas	180.74	
Union Electric Co., elec- tric lights	291.79	
L. B. Bodwell & Co., 97,195 lbs. coal	253.84	
J. M. Clark, 20 tons coal	128.00	
D. M. Poore, wood.....	11.50	
	<hr/>	\$997.57

WATER AND TELEPHONE.

Paid Manchester Water-Works, use of water.....	\$342.15	
New England Telephone & Telegraph Co., use of telephones	75.00	
	<hr/>	\$417.15

CLEANING OFFICES, ETC.

Paid Clark M. Bailey, brooms..	\$1.13	
John H. Cole, services as janitor	516.00	
J. S. Holt & Co., soap....	5.62	
A. M. Eastman, soap.....	.60	
John B. Hall, soap, toilet paper	1.50	
Manchester Mills, 600 gal- lons soap	11.00	
Manchester Hardware Co., brushes .....	.25	
Mrs. Mary Nolan, labor cleaning offices	104.00	
Oscar Perkins, services as janitor	575.00	
J. K. Rhodes, janitor for 8½ days	17.00	
F. H. Thurston, Germol, soap	11.00	
J. J. Holland, borax:.....	1.00	
Talbot & Co., disinfectant	10.45	
J. B. Varick Co., brooms, dusters, brushes	25.20	
J. H. Wiggin & Co., soap, matches, oil	3.50	
	<hr/>	\$1,283.25

FURNITURE, FIXTURES, SUPPLIES.

Paid Adams Brothers, lime....	\$0.95
Clark M. Bailey, toilet paper	3.50
J. G. Ellinwood, photo- graphs	1.50
Peter Harris, keys, etc....	1.25

Paid John B. Hall, 1 thermometer	\$1.25	
Kimball & Hobbs, sole leather, hose, etc.....	6.00	
Manchester Electric Co., 15 lamps	3.75	
Manchester Hardware Co., hinges, cord .....	.57	
B. F. Shepard, keys, repairing chair	1.25	
Paid James W. Hill Co.:		
1 flag	7.50	
Crash and bunting.....	2.75	
Hanging and taking down awnings	19.17	
	<hr/>	\$49.44

INCIDENTAL REPAIRS.

Paid L. M. Aldrich, lumber and labor	\$4.34
J. J. Abbott, paint, glass, and labor	2.85
E. M. Bryant & Co., labor and fixtures	7.34
A. L. Franks & Co., lamps and labor	1.90
George Holbrook, material and labor	14.00
Head & Dowst Co., material and labor	33.79
Lessard & Hevey, plumbing repairs	2.96
J. Y. McQueston Co., repairing table, etc.....	13.85
Pike & Heald Co., material and labor.....	28.57

Paid J. B. Varick Co., asphaltum	\$0.95	
Paid Thomas A. Lane Co.:		
Electric fixtures, per contract	18.25	
Material and labor	7.50	
Paid C. L. Wolf:		
Material and labor, ladies' toilet	10.60	
Material and labor, city hall roof	4.50	
	<hr/>	\$151.40

SUNDRIES.

Paid C. A. Hoitt & Co., use of 200 chairs	\$10.00	
A. Elliott & Co., premium on insurance policy No. 106,470	31.16	
	<hr/>	\$41.16
Total expenditures		\$2,939.97
Overdraft, C. M. Bailey.....		10.00
Transferred to reserved fund.....		1,050.03
		<hr/>
		<u>\$4,000.00</u>

Printing and Stationery.

Appropriation	<u>\$2,000.00</u>
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EXPENDITURES.

ASSESSORS AND INSPECTORS.

Paid John B. Clarke Co., printing 50 blanks.....	\$16.00	
Paid Temple & Farrington Co.:		
Blank books and covers.....	55.00	
Pens, pencils, paper, ink, etc.	14.27	
	<hr/>	\$85.27

TAX COLLECTOR.

Paid The John B. Clarke Co.:		
Advertising sale non-res-		
ident lands	\$75.00	
Printing 25,000 bills.....	25.00	
	<hr/>	\$100.00

MESSENGER.

Paid W. P. Goodman, envelopes and note-		
heads		\$0.95

CITY CLERK.

Paid The John B. Clarke Co.,		
printing blanks, lists, bill-		
heads, etc.....	\$71.50	
Paid Temple & Farrington Co.:		
Rubber bands, envelopes....	1.85	
Blank book and cover.....	6.00	
	<hr/>	\$79.35

AUDITOR.

Paid The John B. Clarke Co., printing:		
Billheads, statements	\$28.00	
800 copies city report.....	1,046.60	
50 reports lettered.....	5.00	
Binding 150 reports.....	150.00	
Stamping seal	1.00	
	<hr/>	\$1,230.60

ENGINEER.

Paid The John B. Clarke Co., printing 1,000		
license blanks		\$6.50

CITY TREASURER.

Paid W. P. Goodman, blotting		
paper, book	\$4.64	

Paid Temple & Farrington Co., pay-roll sheets	\$10.50	
E. J. Knowlton, P. M., envelopes	10.90	
Paid The John B. Clarke Co., printing:		
1,000 blanks	2.00	
Blanks and blank books.....	12.00	
Binding 1 pay-roll book.....	3.50	
		<u>\$43.54</u>

MAYOR.

Paid E. R. Coburn Co., enve- lopes and paper.....	\$1.03	
W. P. Goodman, pencils, books	1.60	
Paid The John B. Clarke Co., printing:		
300 inaugural addresses.....	65.00	
400 slips, 300 envelopes.....	3.50	
Paid Temple & Farrington Co., stationery	30.34	
		<u>\$101.47</u>

MILK INSPECTOR.

Paid J. Arthur Williams, 100 postals and printing	\$1.60
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CITY COUNCILS AND COMMITTEES.

Paid The John B. Clarke Co., printing:	
Blanks, postals, etc.....	\$7.75
Advertising 12 times.....	27.60
Paid The Nate Kellogg Co., printing notices, blanks, postals, etc.....	16.75
Union Publishing Co., ad- vertising 12 times.....	27.67

INCIDENTAL EXPENSES.

517

Paid J. Arthur Williams, cards, blanks, etc.....	\$6.85	
	<u> </u>	\$86.62
Total expenditures		\$1,735.90
Transferred to reserved fund.....		264.10
		<u> </u>
		<u>\$2,000.00</u>

Incidental Expenses.

Appropriation	\$12,000.00	
Transferred from reserved fund	4,167.71	
	<u> </u>	<u>\$16,167.71</u>

EXPENDITURES.

LABOR.

Paid labor of men, division No. 2:		
January	\$24.00	
February	30.00	
	<u> </u>	\$54.00

BIRTHS, MARRIAGES, DEATHS.

Paid O. D. Abbott, M. D.....	\$11.75
D. S. Adams, M. D.....	3.50
J. L. Beaumier, M. D.....	.25
J. S. Brown, M. D.....	.25
J. F. Brown, M. D.....	.75
H. W. Boutwell, M. D....	30.25
H. T. Boutwell, M. D....	.50
A. A. E. Brien, M. D.....	18.25
J. L. Burnham, M. D.....	5.75
L. P. Beaudet, M. D.....	1.00
Lillian G. Bullock, M. D..	.25
E. Bernier, M. D.....	1.00
Rev. A. Carlsson.....	5.75

Paid Charles Corey, M. D.	\$1.00
I. L. Carpenter, M. D.	9.00
Charles Chirurg, M. D.	3.00
James M. Collity, M. D.	32.50
Rev. N. L. Colby	5.00
Rev. C. R. Crossett	2.50
Rev. T. E. Clapp	4.50
Rev. J. A. Chevalier	13.25
Rev. A. C. Coult . . . . .	.25
Rev. I. H. C. Davignon	20.50
E. B. Dunbar, M. D.	10.25
John F. Dowd, M. D. . . . .	.75
G. M. Davis, M. D.	5.75
Henry Duchine, M. D.	3.50
Mary S. Danforth, M. D.	9.00
C. M. Dodge, M. D.	3.00
Charles E. Dodge, M. D.	12.00
C. W. Downing, M. D.	4.00
R. H. Dillon, M. D. . . . .	.75
John Ferguson, M. D.	24.75
John Ferguson, Jr., M. D. . . . .	.50
George Frechette, M. D.	13.50
J. E. Fortier, M. D.	11.50
L. M. French, M. D.	18.75
C. F. Flanders, M. D.	47.00
E. N. Fugere, M. D.	28.00
Arthur Fournier, M. D.	10.00
Moise Guerin, M. D.	24.25
J. H. Gleason, M. D.	4.75
N. E. Guillet, M. D. . . . .	.25
M. Guggenheim, M. D.	5.25
S. J. Girouard, M. D.	1.75
G. H. Greeley, M. D. . . . .	.25
William Holland, M. D. . . . .	.25
Thomas C. Hill, M. D.	2.00

Paid George C. Hoitt, M. D.	\$0.75
G. W. Hazelton, M. D. ....	.50
Rev. P. Hevey.	15.25
Rev. C. R. Hennon.	20.25
J. A. Jackson, M. D.	19.75
N. P. Kidder.	635.75
M. E. Kean, M. D.	29.50
P. G. Laberge, M. D.	13.25
J. E. Lemaitre, M. D.	9.50
J. D. Lemay, M. D.	15.75
H. D. Lord.	31.00
J. E. Larochele, M. D.	8.75
J. E. A. Lanouette, M. D. .	18.00
Rev. J. J. Lyons.	6.50
M. V. B. Morse, M. D. ....	.25
C. A. Manning, M. D.	2.00
G. B. Morey, M. D.	2.75
Jacob W. Mooar, M. D.	1.00
J. W. D. McDonald, M. D.	14.75
Clara Odman	3.75
Anna Pollmer	11.00
W. M. Parsons, M. D.	2.00
Frederick Perkins, M. D. .	9.00
W. H. Pattee, M. D.	6.25
C. A. Palmer, M. D. ....	.50
George Porter, M. D. ....	.25
Rev. O. D. Patch,	2.75
William Richardson, M. D.	2.25
J. F. Robinson, M. D.	3.75
C. S. Rodier, M. D.	7.75
J. E. E. Roy, M. D.	4.25
F. C. Stewart, M. D.	2.75
Serville St. Pierre.	18.25
A. G. Straw, M. D.	1.75
Z. L. Straw, M. D.	7.00
Gillis Stark, M. D.	29.25

Paid C. B. Sturtevant, M. D...	\$8.00
V. N. Sikorsky, M. D.....	1.50
E. Sylvain, M. D.....	12.75
J. Sullivan, M. D.....	27.00
L. Tremblay, M. D.....	2.25
Arthur J. Todd, M. D....	.50
George D. Towne, M. D..	3.50
E. C. Tremblay, M. D.....	34.75
W. F. Templeton, M. D...	1.00
R. S. True, M. D.....	.50
Harry P. Watson, M. D...	1.25
G. M. Watson, M. D.....	.75
Hermann Wellner, M. D..	1.75
A. F. Wheat, M. D.....	3.00
G. L. Wakefield, M. D....	1.25
Ellen A. Wallace, M. D...	3.25
G. A. Weaver, M. D.....	.50

\$1,473.75

DAMAGES AND JUDGMENTS.

Paid Adams & Tasker, settle- ment of claim.....	\$20.17
Auguste Blanchet, glau- dered horse	5.00
T. E. & M. T Burke, set- tlement of claim, inju- ries to horse.....	43.00
Cavanaugh Brothers, set- tlement of claim, breach of contract	250.00
Demas Dwinell, settle- ment of claim, damage to real estate	125.00
Frank A. Dockham, settle- ment of claim.....	50.00

Paid A. L. Dodge, destroying diseased animals	\$13.00	
A. D. Gooden, settlement of claim, damage to real estate	100.00	
Selina H. Hoag, settlement of claim, damage to real estate.....	125.00	
J. G. Jones, settlement of claim, damage to wagon	3.00	
Ellen Kelliher, settlement of claim, personal injuries	250.00	
James Kelliher, settlement of claim, injury to property	250.00	
Andrew Leckie, settlement of claim, damage to property	50.00	
Theresia Maier, settlement of claim, personal injuries	1,300.17	
Joseph St. John, settlement of claim, injuries to horse	25.00	
Gordon Woodbury, settlement of claim, damage to real estate.....	250.00	
A. J. Wilkinson, glandered horse.....	4.00	
	<hr/>	\$3,213.34

LEGAL EXPENSES.

Paid E. H. Carroll, expenses incurred at legislature, session 1897	\$300.00
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Paid Dana W. King, recording deeds, etc.....	\$3.28	
Thomas D. Luce, certifying appeals, etc.....	3.00	
John H. Riedell, legal services	10.00	
Ezra S. Stearns, engrossing acts	6.75	
	<hr/>	\$323.03

CITY COUNCILS AND COMMITTEES.

Paid Fred L. Allen:		
Expenses to Boston sundry times, to deliver bonds, negotiate loans, etc.....	\$23.80	
Express and telegrams.....	.88	
Expenses to Concord.....	.72	
Paid George W. Bailey, use of teams		
John A. Barker, care of boiler, city library.....	118.50	
Boyd Brothers, use of teams	135.50	
Boyd Brothers, use of teams	43.00	
"Le Bulletin," advertising notices	5.00	
J. E. Bernier & Co., advertising notices.....	24.00	
Paid The John B. Clarke Co.:		
Blank book	6.50	
Advertising notices	33.71	
Paid F. X. Chenette, use of teams		
W. J. Freeman, use of teams	10.00	
W. J. Freeman, use of teams	70.00	
C. S. Fifield, use of teams	10.00	
W. P. Goodman, directories	97.50	

INCIDENTAL EXPENSES.

523

Paid E. T. James, use of teams	\$63.50	
E. J. Knowlton, P. M., stamps	84.50	
O. D. Knox, expense in- curred by committee on fire department to Low- ell, Lawrence, Nashua..	9.25	
Manchester Street Rail- way, car tickets.....	82.50	
J. C. McKeon, advertising licenses	5.00	
New England Telephone & Telegraph Co., use of telephone, solicitor....	36.00	
Plummer & Brown, use of teams	25.00	
Felix Provencher, use of hack	5.00	
Charles H. Simpson, use of teams	100.00	
Union Publishing Co., ad- vertising notices	41.02	
Whitten & Fifield, use of teams	20.00	
G. E. Wheeler & Son, use of teams	15.00	
	<hr/>	\$1,065.88

CITY LIBRARY.

Paid John B. Varick Co., broom, duster, brush		\$3.43
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STREETS.

Paid Union Manufacturing Co., numbers	\$3.60	
C. H. Wood, painting signs	3.85	
	<hr/>	\$7.45

CITY SCALES.

Paid C. B. Clarkson, services as weigher	\$30.00	
John Driscoll Co., clean- ing pipe, etc.....	1.25	
W. P. Goodman, stationery	2.30	
D. M. Poore, coal and wood	23.50	
John B. Varick Co., brooms .....	.74	
	<hr/>	\$57.79

MILK INSPECTOR.

Paid The John B. Clarke Co., advertising notice 6 times	\$11.25	
Union Publishing Co., advertising notice	7.16	
	<hr/>	\$18.41

MAYOR.

Paid E. R. Coburn Co., sta- tionery	\$10.09	
Daniels & Downs, covers, oil, oil can.....	.72	
Grace E. Downer, services as clerk	330.00	
W. P. Goodman, pencils, envelopes, books, direc- tories	6.90	
S. Louise Hill, typewriting 3½ days	7.00	
James W. Hill Co., 12 fans	.30	
Paid E. J. Knowlton, P. M.:		
Stamps and postals.....	107.00	
500 large envelopes	11.26	

INCIDENTAL EXPENSES.

525

Paid Francis Pratt, Jr., pens..	\$3.00	
Paid Temple & Farrington Co.:		
Fountain pen and ink.....	2.75	
Paper, envelopes	13.65	
Mucilage, ink, note books...	1.50	
Paid George P. Wallace, type-		
writer ribbons	2.00	
Maude Young, services as		
clerk	200.00	
Smith Premier Type-		
writer Co., repairing		
machine	8.15	
	<hr/>	\$704.32

TAX COLLECTOR.

Paid E. R. Coburn Co., cash		
book, index, ink.....	\$8.35	
H. E. Daniels, typewriting		
3 copies tax list.....	5.25	
W. E. Gilmore, writing		
tax bills	13.50	
"Independent Statesman,"		
advertising non-resident		
tax list, 1896.....	7.50	
Paid George E. Morrill:		
Taxes bought June, 1897.....	6,066.70	
Delivering tax bills.....	98.25	
	<hr/>	\$6,199.55

CITY CLERK.

Paid E. R. Coburn Co., blank		
books	\$25.25	
W. P. Goodman, ledger,		
envelopes, etc.....	9.00	
Florence M. Kidder, ser-		
vices as clerk.....	520.00	

Paid Novelty Advertising Co.,		
blanks, stamp, ink, pad	\$12.05	
E. C. Smith, envelopes,		
postals, seals, etc.....	30.12	
Temple & Farrington Co.,		
blank books, mucilage,		
ink, etc.....	18.00	
C. A. Trefethen, repair-		
ing clock .....	.75	
	<hr/>	\$615.17

CITY TREASURER.

Paid D. J. Adams, fitting keys	\$0.15	
Blanche E. Bullock, ser-		
vices as clerk.....	540.00	
E. R. Coburn Co., sta-		
tionery	13.60	
Daniels & Downs, type-		
writing.....	2.36	
W. P. Goodman, cards and		
envelopes	20.10	
E. J. Knowlton, P. M., pos-		
tals and stamps.....	35.00	
Temple & Farrington Co.,		
pencils, mucilage, etc....	1.92	
	<hr/>	\$613.13

COURT HOUSE.

Paid D. J. Adams, repairing		
lawn mowers	\$5.00	
L. M. Aldrich, screws,		
labor	1.05	
Moore & Preston, 30½ tons		
coal	183.00	
Timothy P. Shea, janitor	488.33	
John B. Varick Co.,		
brooms, duster, sponge,		
etc.	2.88	
	<hr/>	\$680.26

SCHOOLS.

Paid James W. Hill Co., cotton	\$1.26	
John B. Varick Co., broom, cotton waste	2.63	
Paid insurance on High school:		
John Dowst	60.00	
Clarence M. Edgerly.....	60.00	
A. Elliott & Co.....	60.00	
Everett & Smith.....	60.00	
Charles L. Harmon.....	60.00	
D. A. Holland.....	60.00	
D. W. Lane.....	60.00	
Richardson & Goggin.....	60.00	
John A. Sheehan.....	60.00	
Stark & Blanchet.....	60.00	
	<hr/>	\$603.89

ASSESSORS.

Paid The John B. Clarke Co., advertising	\$14.25	
John F. Gillis, furnishing transfers of real estate	12.00	
G. H. Nichols, use of team	6.00	
People's Gas-Light Co., mantle and chimney...	.90	
B. W. Robinson, deliver- ing blanks	3.75	
Paid Temple & Farrington Co.:		
Pamphlet Laws	1.00	
Blocks .....	.24	
	<hr/>	\$38.14

SUNDRIES.

Paid American Express Co., ex- press on reports.....	\$11.02
Amoskeag National Bank, use of vault.....	25.00

Paid Prof. E. R. Angell, examination of spring water	\$3.00
George W. Bailey, storage of ambulance	19.00
C. M. Bailey, V. S., examining diseased animals	21.00
A. T. Barr, testing weights and measures	4.00
E. T. Bartlett, M. D., analysis of spring water	15.00
Harry J. Briggs, making sewer book for city clerk	76.65
L. B. Bodwell & Co., 2 tons coal, Hallsville hosehouse	13.00
E. R. Coburn Co., paste . . . . .	.20
J. M. Clark, 2 tons coal, Hallsville hosehouse	13.00
First N. H. Battery, powder and firing national salute July 4	46.00
town of Goffstown, taxes	2.17
John H. Hayes, stamps, stationery, etc., ward clerk	4.98
John B. Hall, vaccine points	15.15
Manchester Water-Works, use of water, 129 Manchester street	3.38
Kenneth McDonald, moving desks	3.00
N. E. Confectionery Co., food for isolated family	2.00
Ellen H. Richards, examination of spring water	15.00

CITY OFFICERS' SALARIES.

529

Paid Clarence H. Sargent, trees	\$50.00	
H. E. Smith, M. D., examination of spring water	30.00	
Charles J. Senter estate, entrance to sewer.....	46.80	
George D. Towne, M. D., 1 visit Oscar Swanson...	1.50	
Temple & Farrington Co., 100 mailing boxes.....	4.00	
F. H. Thurston, bottles...	1.00	
Union Electric Co., lights at Hallsville hosehouse	19.24	
Sarah Whelpley, use of land in West Manchester, in full for all claims to date, June 9, 1897...	50.00	
J. H. Wiggin & Co., groceries for isolated family,	1.08	
		<u>\$496.17</u>
Total expenditures		<u><u>\$16,167.71</u></u>

City Officers' Salaries.

Appropriation	\$18,000.00	
Transferred from reserved fund	17.18	
		<u><u>\$18,017.18</u></u>

EXPENDITURES.

CENTRAL DEPARTMENT.

Paid William C. Clarke, mayor	\$1,800.00
Fred L. Allen, treasurer..	1,200.00
Edwin F. Jones, solicitor	800.00
Nathan P. Kidder, clerk..	27.50

Paid Edward C. Smith, city clerk	\$872.50	
George L. Stearns, clerk of common council	200.00	
Thomas W. Lane, building inspector	100.00	
Asa B. Eaton, weigher...	400.00	
John A. Barker, messenger	699.97	
E. C. Smith, milk inspector	12.50	
Archie F. Precourt, milk inspector	287.50	
J. K. Rhodes, messenger	24.00	
John M. Crawford, weigher	39.00	
Richard J. Barry, acting mayor	60.00	
	<hr/>	\$6,522.97

CITY PHYSICIAN AND OVERSEERS OF THE POOR.

Paid Irving L. Carpenter, M. D., city physician.....	\$600.00
W. H. Maxwell, ward 1...	25.00
Thomas L. Quimby, ward 2	25.00
Benjamin F. Garland, ward 3.....	25.00
Charles B. Clarkson, ward 4	25.00
Patrick Costello, ward 5	25.00
Charles Francis, ward 6..	25.00
William Marshall, ward 7	25.00
Charles S. McKean, ward 8	25.00
Thomas C. Stewart, ward 9	25.00
William C. Clarke, chairman <i>ex officio</i>	25.00

Paid William H. Maxwell, clerk of the board.....	\$100.00	
Judith Sherer, matron of pesthouse	360.00	
	<hr/>	\$1,310.00

SCHOOL OFFICERS AND BOARD OF SCHOOL COMMITTEE.

Paid W. E. Buck, superintend- ent of schools.....	\$2,300.00	
Curtis W. Davis, truant officer	750.00	
W. C. Clarke, chairman <i>ex officio</i>	10.00	
E. B. Woodbury, clerk of board	150.00	
George B. Rogers, presi- dent of common council, <i>ex officio</i>	10.00	
Walter B. Heath, ward 1	10.00	
Elliott C. Lambert, ward 1	10.00	
A. P. Horne, ward 2.....	10.00	
Charles H. Manning, ward 2	10.00	
George D. Towne, ward 3	10.00	
Louis E. Phelps, ward 3..	10.00	
Henry D. Soule, ward 4..	10.00	
Rev. N. L. Colby, ward 4	10.00	
James P. Slattery, ward 5	10.00	
John T. Kelley, ward 5...	10.00	
Herbert E. Richardson, ward 6	10.00	
Edson S. Heath, ward 7..	10.00	
E. B. Woodbury, ward 7..	10.00	
Luther C. Baldwin, ward 8	10.00	

Paid Ned T. Wallace, ward 8..	\$10.00	
Robert E. Walsh, ward 9..	10.00	
Henry I. Lemay, ward 9..	10.00	
	<hr/>	\$3,390.00

BOARD OF ASSESSORS.

Paid Henry E. Lewis, ward 1..	\$152.50	
John E. Stearns, ward 2..	207.25	
David O. Fernald, ward 3	940.00	
Harrison D. Lord, ward 4	387.50	
George F. Sheehan, ward 5	177.50	
George H. Dudley, ward 6	480.00	
Robert Leggett, ward 7..	127.50	
Eugene W. Brigham, ward 8	475.00	
John T. Hannigan, ward 9	115.00	
Hiram Forsaith, assistant	85.00	
N. Nichols, assistant.....	285.00	
John Cayzer, assistant...	42.50	
Henry F. Stone, assistant	67.50	
Isaac L. Whittemore, as- sistant	99.50	
C. B. Clarkson, assistant..	42.50	
Charles W. Brown, assist- ant	65.00	
Harvey L. Currier, clerical services	185.00	
Arthur W. Rowell, clerical services	135.00	
Louis Comeau, interpreter	65.00	
Jean B. Rejimbai, inter- preter	72.50	
J. N. St. Germain, inter- preter	42.50	
	<hr/>	\$4,249.25

TAX COLLECTOR.

Paid George E. Morrill:	
Salary, balance due year ending 1895	\$850.00
Commission on old taxes	19.20
Salary, balance due year ending 1896	850.00
Commission on old taxes	25.76
Salary, year ending November 30, 1897	800.00
	<hr/>
	\$2,544.96
	<hr/>
Total expenditures	<u>\$18,017.18</u>

Auditors' Department.

Appropriation	<u>\$2,000.00</u>
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EXPENDITURES.

LABOR.

Paid James E. Dodge, salary as auditor	\$1,200.00
Lizzie M. Cogswell, services as clerk	660.00
	<hr/>
	\$1,860.00

SUPPLIES, ETC.

Paid Clark M. Bailey, paper	\$1.74
Barton & Co., towels, hassock	1.13
Paid The Carter's Ink Co.:	
Typewriter ribbon	1.00
Coupon book	4.50

Paid E. R. Coburn Co., blotting paper	\$0.50	
John B. Clarke Co., print- ing bills and postals...	16.00	
Paid Lizzie M. Cogswell, cash paid:		
Making book rest.....	.50	
Postal cards, express.....	1.90	
Washing office towels, soap, etc.	3.40	
Paid James E. Dodge, express paid .....	.25	
W. P. Goodman, stationery	3.90	
Lovejoy & Stratton, 1 clock	1.75	
Lyon's Platinum Pen Co., pens	9.00	
Manchester Hardware Co., twine .....	.30	
Paid Temple & Farrington Co.:		
Book, pencils, etc.....	2.50	
3 books	5.55	
Paid John B. Varick Co., screw drivers, tacks, twine holder .....	.78	
Wycoff, Seamans & Bene- dict, adjusting type- writer	4.95	
George P. Wallace, carbon paper	1.00	
		<hr/>
		\$60.65
		<hr/>
Total expenditures		\$1,920.65
Transferred to reserved fund.....		79.35
		<hr/>
		<u>\$2,000.00</u>

Mayor's Incidentals.

Appropriation	<u>\$300.00</u>
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EXPENDITURES.

Paid Boyd Brothers, team hire	\$37.00	
Paid William C. Clarke:		
Team hire	168.00	
Entertainment of Chelsea and Boston officials, and other incidental expenses	75.50	
	<hr/>	
Total expenditures		\$280.50
Transferred to reserved fund.....		19.50
		<hr/>
		<u>\$300.00</u>

Street and Park Commission.

Appropriation	<u>\$3,600.00</u>
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EXPENDITURES.

SALARIES.

Paid H. P. Simpson, chairman	\$600.00	
George H. Stearns.....	600.00	
Byron Worthen	600.00	
	<hr/>	
		\$1,800.00

CLERICAL SERVICES.

Paid Julia F. Stearns.....	\$533.28	
George H. Stearns.....	468.00	
L. Robinson	10.00	
	<hr/>	
		\$1,011.28

USE OF TEAMS.

Paid H. P. Simpson.....	\$150.00	
George H. Stearns.....	150.00	
Byron Worthen	150.00	
	<hr/>	
		\$450.00

OFFICE SUPPLIES.

Paid T. S. Buck, stamps.....	\$3.46	
Paid The Carter's Ink Co.:		
Ribbon and carbon paper....	1.50	
Coupon book	4.50	
Paid The John B. Clarke Co., printing:		
Blanks and letter heads....	8.25	
Cloth signs	4.00	
200 reports	34.05	
Paid H. W. Eastman, cut of Weston Observatory ...	2.50	
J. G. Ellinwood, photo- graphs	24.50	
W. P. Goodman, books and stationery	11.65	
E. J. Knowlton, P. M., stamps	5.00	
New England Telephone & Telegraph Co., use of telephone	39.93	
Temple & Farrington Co., blank books	7.00	
John B. Varick Co., brush and broom .....	.73	
	<hr/>	\$147.07

SUNDRIES.

Paid H. P. Simpson, expenses of commis- sion to Boston & Worcester.....	\$19.56	
	<hr/>	
Total expenditures	\$3,427.91	
Transferred to reserved fund.....	172.09	
	<hr/>	
	<u>\$3,600.00</u>	

Repairs of Highways.

Appropriation	\$20,000.00	
Transferred from reserved fund	1,698.08	
	<hr/>	\$21,698.08

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll, division No. 1:		
May		\$3.00
Paid labor of men and teams, as per pay-roll, division No. 2:		
January	\$15.63	
March	48.75	
April	355.89	
May	840.71	
June	1,766.19	
July	1,778.83	
August	3,058.03	
September	1,613.59	
October	326.59	
November	331.58	
December	118.36	
	<hr/>	\$10,254.15
Paid labor of men and teams, as per pay-roll, division No. 4:		
April	\$54.00	
June	215.87	
July	55.00	
September	203.24	
October	52.50	
	<hr/>	\$580.61
Paid labor of men and teams, as per pay-roll, division No. 5:		
January	\$8.00	

April	\$3.75	
May	28.00	
June	152.87	
August	135.99	
September	31.00	
October	50.62	
	<hr/>	\$410.23
Paid labor of men and teams, as per pay-roll, division No. 6:		
May	\$128.87	
June	26.87	
July	58.12	
August	18.50	
September	36.00	
October	48.11	
December	7.50	
	<hr/>	\$323.97
Paid labor of men and teams, as per pay-roll, division No. 7:		
April	\$138.00	
May	206.74	
June	364.97	
July	558.25	
August	386.36	
September	170.62	
October	73.75	
November	96.42	
December	20.75	
	<hr/>	\$2,015.86
Paid labor of men and teams, as per pay-roll, division No. 8:		
January	\$7.00	
May	223.62	
July	401.91	
August	185.71	
September	281.62	

October	\$129.39	
November	8.35	
December	31.80	
	<hr/>	\$1,269.40
Paid labor of men and teams, as per pay-roll, division No. 9:		
May	\$91.25	
June	29.75	
September	23.00	
November	20.75	
	<hr/>	\$164.75
Paid labor of men and teams, as per pay-roll, division No. 10:		
January	\$119.06	
February	29.21	
March	130.97	
April	315.87	
May	611.73	
June	775.12	
July	665.37	
August	556.37	
September	498.62	
October	121.02	
November	168.40	
December	96.12	
	<hr/>	\$4,087.86
Paid labor of men and teams, as per pay-roll, division No. 12:		
August	\$12.00	
November	373.75	
	<hr/>	\$385.75

LUMBER AND OTHER MATERIAL.

Paid C. W. Farmer, 50 posts...	\$6.25
The Head & Dowst Co., lumber and labor.....	43.72
Charles Millar & Son, pipe	136.43

Paid A. C. Wallace, lumber and labor	\$179.44	
David Wells, 934 posts...	112.08	
	<hr/>	\$477.92

TOOLS AND HARDWARE.

Paid A. N. Clapp, tools.....	\$2.25	
Manchester Hardware Co., pick handles, scoops, rope, nails, bolts, etc...	28.00	
John B. Varick Co., tools and hardware	109.92	
	<hr/>	\$140.17

BLACKSMITHING AND REPAIRS.

Paid James Benson, sharpen- ing tools	\$5.15	
F. W. Blood Roofing Co., repairing slate roof, 303 Hanover street	2.00	
James R. Carr & Co., mate- rial and labor on foun- tains	17.36	
James H. Cram, sharpen- ing tools	2.00	
O. L. Hevey, connecting watering-trough, Amos- keag	3.68	
Paid T. A. Lane Co., material and labor:		
Fence rail	4.89	
Fountains	119.93	
Paid Lessard & Hevey, mate- rial and labor.....	13.43	
Wallace Laird, building culvert	40.00	

Paid C. S. McKean, filing saws	\$1.85	
Pike & Heald Co., repairing water pipe.....	3.39	
C. H. Robie Co., concreting roadways	473.23	
C. L. Wolf, pipe and labor	14.22	
	<hr/>	\$701.13

STONE, GRAVEL, CLAY, ETC.

Paid G. W. Campbell, 495 loads gravel	\$49.50	
William H. Coburn, 100 loads gravel	85.00	
M. E. Dickey, 102 loads gravel	6.30	
Edwards O. Dodge, 86 loads gravel	8.60	
Mark E. Harvey, 94 loads gravel	9.40	
Ralph E. Hall, 61 loads gravel	6.10	
Frank Libbey, 29 loads gravel	2.90	
James Lovering, 11 loads gravel	1.10	
J. F. Moore, 200 loads gravel	12.00	
Byron E. Moore, 260 loads gravel and clay.....	15.60	
J. A. Poore, 582 loads gravel	58.20	
J. M. Richardson, 18 loads gravel	1.80	
R. P. Stevens & Co., 13 loads stone chips.....	6.50	

Paid Thomas Walker, Jr., 20 loads gravel	\$1.20	
R. N. Whittemore, 50 loads gravel	3.00	
		<u>\$267.20</u>

SUNDRIES.

Paid L. M. Aldrich, filing saws	\$0.35	
John Campbell, use of water	3.00	
Concord Foundry Co., 1 fountain	100.00	
John Driscoll Co., dippers, boxes	14.40	
S. L. Flanders, 2 pails....	.30	
J. W. Fiske, brackets for fountain	3.75	
		<u>\$121.80</u>
Total expenditures		\$21,203.80
Transferred to snow and ice account.....		494.28
		<u><u>\$21,698.08</u></u>

Snow and Ice.

Appropriation	\$4,000.00	
Transferred from repairs of highways account	494.28	
Transferred from reserved fund	489.33	
		<u>\$4,983.61</u>

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll, division No. 2:	
January	\$341.60

February	\$1,867.39	
March	435.20	
November	79.25	
December	275.86	
	<hr/>	\$2,999.30
Paid labor of men and teams, as per pay-roll, division No. 4:		
February		\$32.50
Paid labor of men and teams, as per pay-roll, division No. 5:		
February		\$35.13
Paid labor of men and teams, as per pay-roll, division No. 6:		
February		\$89.00
Paid labor of men and teams, as per pay-roll, division No. 7:		
January	\$48.37	
February	167.50	
March	67.12	
December	64.12	
	<hr/>	\$347.11
Paid labor of men and teams, as per pay-roll, division No. 8:		
February		\$38.50
Paid labor of men and teams, as per pay-roll, division No. 9:		
February		\$20.50
Paid labor of men and teams, as per pay-roll, division No. 10:		
January	\$205.12	
February	825.58	
March	208.25	
December	70.10	
	<hr/>	\$1,309.05

SUPPLIES AND MISCELLANEOUS.

Paid A. N. Clapp, ax, pail.....	\$1.20	
Manchester Hardware Co., shovels	1.50	
C. H. Robie Co., 141 loads sand	14.10	
Union Snowplow & Wagon Co., 1 8-foot snowplow	75.00	
Paid John B. Varick Co.:		
Shovels	1.50	
Iron, shoes, scoops.....	19.22	
		<u>\$112.52</u>
Total expenditures		<u><u>\$4,983.61</u></u>

New Highways.

Appropriation	\$5,000.00	
Balance from last year unex- pended	1,382.48	
Transferred from reserved fund	1,999.49	
		<u>\$8,381.97</u>

EXPENDITURES.

LABOR.

Paid men, as per pay-roll, division No. 2:	
January	\$32.40
February	40.50
March	32.40
April	242.13
May	672.60
June	312.43
July	401.64

August	\$1,221.66
September	1,626.53
October	166.27
November	107.02
December	32.40

\$4,887.98

Paid men, as per pay-roll, division No. 7:

June	\$400.75
September	612.33
November	22.37

\$1,035.45

Paid labor of men, as per pay-roll, division
No. 8:

June	\$330.97
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Paid labor of men, as per pay-roll, division
No. 10:

May	\$422.09
June	30.00
July	142.25
August	619.86
September	420.92

\$1,635.12

TOOLS AND HARDWARE.

Paid Manchester Hardware

Co., lanterns, globes... \$2.75

John B. Varick Co., tools
and hardware 150.10

\$152.85

STONE AND OTHER MATERIAL.

Paid Charles A. Bailey, cover-

ing stone \$21.60

Luther Proctor, wood for
blasting 12.00

\$33.60

SUNDRIES.

Paid C. C. Babbitt, work on Maple street	\$6.00	
W. H. Coburn, grading Second street	300.00	
		<u>\$306.00</u>
Total expenditures		<u><u>\$8,381.97</u></u>

Damage of Land Taken for Highways.

Appropriation	<u>\$5,000.00</u>
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EXPENDITURES.

Paid John B. Bickford.....	\$300.00	
Joseph K. Mitchell.....	612.00	
		<u>\$912.00</u>
Total expenditures		\$912.00
Transferred to reserved fund.....		4,088.00
		<u><u>\$5,000.00</u></u>

Watering Streets.

Appropriation	<u>\$5,000.00</u>
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EXPENDITURES.

LABOR.

Paid labor of men, as per pay-roll, division No. 2:	
January	\$31.62
February	3.60
March	5.02
April	183.78
May	397.19

June	\$303.05
July	444.12
August	335.06
September	445.45
October	261.35
November	48.25
December	80.97

\$2,539.46

Paid labor of men, as per pay-roll, division
No. 10:

January	\$5.50
February	7.44
April	74.25
May	124.00
June	88.50
July	191.25
August	99.00
September	143.87
October	148.85
November	18.05

\$900.71

SUPPLIES, REPAIRS, ETC.

Paid Boston & Maine Railroad, freight	\$1.26
John T. Beach, repairing sprinkler, etc.....	54.75
Head & Dowst Co., lumber	6.38
C. H. Hutchinson, cast- ings and labor.....	4.10
Thomas A. Lane Co., labor and material on stand- pipes	39.01
Pike & Heald Co., repair- ing sprinkler .....	.40

Paid J. L. & H. K. Potter, sprinkler attachments..	\$140.00	
John B. Varick Co., hard- ware	76.57	
	<u> </u>	\$322.47
Total expenditures		\$3,762.64
Transferred to reserved fund.....		1,237.36
		<u> </u>
		<u>\$5,000.00</u>

Paving Streets.

Appropriation	\$5,000.00	
Transferred from reserved fund	2,031.79	
	<u> </u>	\$7,031.79

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll,
division No. 2:

May	\$415.96	
June	386.00	
July	637.90	
August	559.61	
September	273.07	
	<u> </u>	\$2,272.54

Paid labor of men and teams, as per pay-roll,
division No. 7:

May	\$56.00	
June	36.00	
July	70.50	
August	34.25	
September	47.75	
	<u> </u>	\$244.50

Paid labor of men and teams, as per pay-roll,
division No. 10:

January	\$55.12	
February	122.78	
March	8.25	
April	43.75	
May	224.81	
June	386.73	
July	279.90	
August	355.37	
September	341.38	
	<hr/>	\$1,818.09

TOOLS AND HARDWARE.

Paid John B. Varick Co. \$11.36

PAVING STONE, GRAVEL, ETC.

Paid C. A. Bailey, paving stone	\$849.77	
Paid Brooks & Brock:		
82 loads sand	72.90	
Paving stone	323.16	
Paid J. H. Coburn, 175 loads paving	306.25	
Daniel Connor, 16 loads stone	28.00	
F. M. Goings, 30 loads paving	45.00	
C. H. Robie Co., 95 loads sand	90.25	
	<hr/>	\$1,715.33

CONCRETING.

Paid C. H. Robie Co. \$240.80

SUNDRIES.

Paid J. Hodge:	
504 stakes	\$11.09
Lumber and labor	2.40
Paid Soule, Dillingham & Co.,	
paving Elm back street	
and Granite street.....	710.06
Temple & Farrington Co.,	
cardboard .....	.50
Head & Dowst Co., lumber	5.12
	<hr/>
	\$729.17
	<hr/>
Total expenditures	<u>\$7,031.79</u>

Paving Elm and Granite Streets.

Appropriation	\$10,000.00
Received from Manchester	
Street Railway	3,899.39
Transferred from Amoskeag	
bridge abutment account....	1,158.10
Transferred from reserved fund	495.31
	<hr/>
	<u>\$15,552.80</u>

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll,	
division No. 2:	
July	\$140.00
August	537.23
September	200.00
	<hr/>
	\$877.23
Paid Soule, Dillingham & Co., paving Elm	
street	\$2,757.38

STONE, GRAVEL, SAND, CEMENT.

Paid C. A. Bailey, paving blocks	\$4,968.11	
Brooks & Brock, sand and gravel	79.25	
Paid C. H. Robie Co.:		
318 loads sand.....	302.10	
32 loads roofing.....	96.00	
Paid J. A. & A. W. Walker, cement	667.50	
	<hr/>	\$6,112.96

CONCRETING.

Paid C. H. Robie Co.....	\$5,730.23
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SUNDRIES.

Paid Boston & Maine Railroad, freight....	\$75.00
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Total expenditures	<u>\$15,552.80</u>
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Macadamizing Streets.

Appropriation	<u>\$15,000.00</u>
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EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll, division No. 2:		
June	\$2,264.78	
July	1,316.95	
September	1,406.63	
October	282.18	
	<hr/>	\$5,270.54

Paid labor of men and teams; as per pay-roll,
division No. 10:

September	\$18.75	
October	1,964.77	
November	1,357.55	
		<u>\$3,341.07</u>

FUEL, FREIGHT, WATER.

Paid L. B. Bodwell & Co., 25 tons 1,400 lbs coal.....	\$99.94	
Boston & Maine Railroad, freight	116.19	
People's Gas-Light Co., 35 chaldrons coke	140.00	
water-works, use of water	30.00	
George Young, 20 cords wood	45.00	
		<u>\$431.13</u>

TOOLS AND HARDWARE.

Paid A. N. Clapp, fuse, nails, etc	\$5.21	
B. H. Piper Co., sledge handles	39.61	
Paid John B. Varick Co.:		
Dynamite, fuse, etc.....	693.12	
Iron, hammers, packing, paint, etc.	91.76	
		<u>\$829.70</u>

LABOR, CASTINGS, REPAIRS, ETC.

Paid Amoskeag Manufacturing Co.:		
Oil	\$27.54	
Steel and labor	22.09	
Paid James Briggs & Son, pipe for smokestack	1.50	

Paid Climax Road Machine Co.:	
1 stone crusher, less freight..	\$2,412.51
Plates, sprockets, etc.....	74.66
Paid W. M. Darrah & Co., roof-	
ing material	3.40
The Farrel Foundry & Ma-	
chine Co., plates and	
bearings	91.00
S. C. Forsaith Machine	
Co., repairs on crusher	
engine	111.74
Paid C. H. Hutchinson:	
1 collar, steel, plate, etc.....	24.56
Repairing road roller.....	7.57
Paid Head & Dowst Co., lumber	
and labor	155.42
Paid The Ingersoll-Sargeant	
Drill Co.:	
Repairs on drill.....	118.25
Hose couplings, etc.....	7.22
Paid Kimball & Hobbs, hose	
and couplings	65.00
Thomas A. Lane Co., nips,	
valves, ells	28.73
Lambert Hoisting Engine	
Co., 1 set grates.....	10.84
Lessard & Hevey, pipe,	
etc. ....	.96
Manchester Locomotive	
Works, repairing road-	
roller	565.74
Vacuum Oil Co., oil.....	46.00
C. L. Wolf, hose, smoke	
pipe, etc.	3.05
	<hr/>
	\$3,777.78

STONE.

Paid Charles A. Bailey, 749 tons crushed	\$711.55	
H. Willey, 42½ tons.....	21.25	
		<u>\$732.80</u>

SUNDRIES.

Paid American Express Co., express	\$2.20	
James W. Hill Co., 4 flags	.52	
Hartford Steam Boiler Inspection & Insurance Co., insurance	50.00	
Frederick Perkins, M. D., attendance on Charles Chabot	37.00	
		<u>\$89.72</u>
Total expenditures		\$14,472.74
Transferred to reserved fund.....		527.26
		<u>\$15,000.00</u>

Grading for Concrete.

Appropriation	\$5,000.00	
Transferred from reserved fund	450.96	
		<u>\$5,450.96</u>

EXPENDITURES.

LABOR.

Paid labor of men, as per pay-roll, division No. 2:	
April	\$66.39
May	140.38
June	173.38

GRADING FOR CONCRETE.

555

July	\$113.39	
August	99.26	
September	312.95	
October	67.70	
November	128.59	
December	249.67	
	<hr/>	\$1,351.71

Paid labor of men, as per pay-roll, division
No. 7:

May	\$62.87	
June	12.50	
October	49.75	
	<hr/>	\$125.12

Paid labor of men, as per pay-roll, division
No. 10:

May	\$138.38	
July	126.93	
August	28.63	
September	455.27	
	<hr/>	\$749.21

Paid Soule, Dillingham & Co., labor..... \$39.18

STONE AND CONCRETE.

Paid C. A. Bailey, curbing.....	\$52.67	
Warren Harvey, cesspool and edge-stone	1,610.15	
C. H. Robie Co., concrete	626.21	
Mead, Mason & Co., con- crete	513.56	
	<hr/>	\$2,802.59

SUNDRIES.

Paid Charles Francis, grading and filling sidewalk....	\$225.00
Palmer & Garmons, cut- ting stone	131.15

Paid Frederick Perkins, M. D., attendance on Patrick Campbell	\$27.00	<u>\$383.15</u>
Total expenditures		<u><u>\$5,450.96</u></u>

Scavenger Service.

Appropriation	<u>\$16,000.00</u>
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EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll,
division No. 2:

January	\$760.26	
February	571.22	
March	914.19	
April	1,148.72	
May	696.89	
June	785.63	
July	586.70	
August	762.62	
September	692.66	
October	528.27	
November	830.26	
December	691.96	
	<u> </u>	\$8,969.38

Paid labor of men and teams, as per pay-roll,
division No. 7:

September	\$22.00	
October	25.75	
November	41.50	
December	19.25	
	<u> </u>	\$108.50

Paid labor of men and teams, as per pay-roll,
division No. 10:

January	\$162.49	
February	199.26	
March	215.35	
April	386.84	
May	161.00	
June	236.00	
July	145.88	
August	151.50	
September	196.50	
October	200.27	
November	184.93	
December	238.71	
	<hr/>	\$2,478.73

CONTRACT.

Paid city farm, scavenger service 1 year, 1 month	\$2,708.30
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TOOLS AND HARDWARE.

Paid Manchester Hardware Co.	\$0.85	
John B. Varick Co.....	77.44	
	<hr/>	\$78.29

SUNDRIES.

Paid John T. Beach, 1 dump- cart	\$100.00
Freeman & Merrill, straw	28.83
Gage & McDougall, oats..	317.50
Head & Dowst Co., lumber	8.00
M. B. Jones, hay.....	\$5.32

Paid Partridge Brothers, 1,200 bushels oats	\$378.00	
	<hr/>	\$917.65
Total expenditures		\$15,260.85
Transferred to reserved fund.....		739.15
		<hr/>
		<u>\$16,000.00</u>

Street Sweeping.

Appropriation	<u>\$3,000.00</u>
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EXPENDITURES.

LABOR.

Paid labor of men, as per pay-roll, division No. 2:		
April	\$175.20	
May	131.54	
June	305.36	
July	118.46	
August	113.96	
September	267.08	
October	340.42	
November	155.44	
December	4.53	
	<hr/>	\$1,611.99
Paid labor of men, as per pay-roll, division No. 10:		
January	\$16.50	
April	18.50	
May	58.11	
June	113.63	
July	126.86	
August	62.00	

BRIDGES.

559

September	\$88.00	
October	65.90	
November	44.23	
December	3.10	
		<u>\$596.83</u>

REPAIRS, SUPPLIES, ETC.

Paid Boston & Maine Railroad, freight	\$2.02	
Hickory Broom Fibre Co., refilling brooms	87.50	
John B. Varick Co., hoes and brooms	19.88	
		<u>\$109.40</u>
Total expenditures	\$2,318.22	
Transferred to reserved fund.....	681.78	
		<u><u>\$3,000.00</u></u>

Bridges.

Appropriation	<u>\$4,000.00</u>
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EXPENDITURES.

LABOR.

Paid labor of men, as per pay-roll, division No. 2:		
January	\$9.76	
March	5.40	
April	5.12	
May	216.01	
June	75.78	
July	163.80	
September	227.99	
October	107.02	
November	78.14	
December	5.40	
		<u>\$894.42</u>

Paid labor of men, as per pay-roll, division
No. 10:

April	\$3.50
July	9.00
September	20.50

\$33.00

Paid Head & Dowst Co.....

\$76.80

LUMBER, STONE, HARDWARE.

Paid Head & Dowst Co., lumber	\$258.42
Manchester Hardware Co., hardware	29.60
John B. Varick Co., hard- ware	38.57

Paid A. C. Wallace:

Lumber	668.25
Plank	704.89

\$1,699.73

REPAIRS, ETC.

Paid J. J. Abbott, painting Me- Gregor bridge	\$421.32
James R. Carr & Co., paint and labor.....	20.35
C. H. Hutchinson, labor on bolts, etc.	11.90
Groton Bridge Co., paint- ing Granite bridge....	250.00

\$703.57

Total expenditures

\$3,407.52

Transferred to reserved fund.....

592.48

\$4,000.00

Rebuilding Amoskeag Bridge Abutment.

Appropriation

\$4,700.00

EXPENDITURES.

Paid Boston & Maine Railroad, amount expended in rebuild- ing east abutment of bridge	\$3,541.90	
	<u> </u>	
Total expenditures		\$3,541.90
Transferred to appropriation for paving Elm and Granite streets.....		1,158.10
		<u> </u>
		<u>\$4,700.00</u>

City Teams.

Appropriation	\$6,500.00	
Transferred from reserved fund	223.94	
	<u> </u>	
		<u>\$6,723.94</u>

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll, division No. 2:		
January	\$82.83	
February	187.97	
March	209.11	
April	161.01	
May	116.13	
June	153.20	
July	119.25	
August	142.25	
September	170.09	
October	132.88	
November	187.86	
December	177.56	
	<u> </u>	
		\$1,840.14

Paid labor of men and teams, as per pay-roll,
division No. 10:

January	\$23.50	
February	31.50	
March	20.75	
April	37.50	
June	15.75	
July	14.00	
August	14.00	
September	22.25	
November	24.50	
December	19.25	
		<u>\$223.00</u>

Paid labor of men and teams, as per pay-roll,
commons:

June	\$42.24	
July	180.00	
		<u>\$222.24</u>

GRAIN, HAY, STRAW.

Paid Adams Brothers	\$20.39	
Ame & Co.....	30.00	
William Corey	99.56	
Freeman & Merrill.....	703.84	
Gage & McDougall.....	326.00	
Albert H. George	172.71	
Granite State Grocery Co.	13.00	
John P. Griffin.....	40.70	
A. H. Hill.....	30.22	
H. O. Hill.....	28.32	
D. Kerwin	29.70	
C. R. Merrill.....	28.88	
S. Mullins	13.64	
G. F. Mills.....	119.11	
Partridge Brothers	469.75	
C. D. Welch.....	131.94	
F. B. Worthley.....	20.80	
		<u>\$2,278.56</u>

HARNESSES AND REPAIRS.

Paid The Fred Allen Co., repairs and supplies.....	\$21.00	
John F. Kerwin, repairs and supplies	30.90	
Kimball Carriage Co., repairs and supplies.....	114.10	
H. C. Ranno & Son, repairs and supplies	50.55	
John A. Ballou, repairs and supplies	9.70	
I. S. York, repairs and supplies	21.15	
	<hr/>	\$247.40

CARRIAGES, CARRIAGE REPAIRS.

Paid John T. Beach, carriage repairs	\$113.33	
O. A. Craig, 1 one-horse sled	20.00	
Manchester Hardware Co., sled shoes, etc.....	8.75	
John B. Varick Co., 1 pair wheels, ironed, with axles	47.35	
	<hr/>	\$189.43

HARDWARE.

Paid J. H. Farnham, files.....	\$9.61	
Manchester Hardware Co., tools and hardware....	96.61	
John B. Varick Co., tools and hardware	325.88	
	<hr/>	\$432.10

LIVE STOCK, VETERINARY EXPENSES.

Paid A. F. Abbott, V. S., visits and medicine	\$106.30	
Paid Cavanaugh Brothers:		
1 pair horses.....	287.50	
Difference in trading horses	115.00	
Paid E. H. Currier:		
Campho-naphthaline .....	.50	
Nitro	1.40	
Paid A. L. Dodge, V. S., visits and medicine	9.25	
J. L. Golden, V. S., visits and medicine	12.00	
W. B. Mitchell, medicine	11.95	
A. A. Potter, salve.....	1.00	
John B. Varick Co., alco- hol, witch hazel.....	5.85	
B. F. Welch, difference in trading horses	30.80	
	<hr/>	\$581.55

WATER, GAS, TELEPHONE, FUEL.

Paid Manchester Water-Works, use of water.....	\$68.00	
People's Gas-Light Co., gas	156.94	
New England Telephone & Telegraph Co., use of telephones	72.00	
L. B. Bodwell & Co., 10 tons coal	60.00	
John Perham, wood.....	6.56	
	<hr/>	\$363.50

LUMBER, REPAIRS, ETC.

Paid James Baldwin Co., lum- ber	\$16.38
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Paid James Briggs & Son, galvanized iron and labor. . .	\$8.29	
F. W. Blood Roofing Co., material and labor.	4.44	
The Head & Dowst Co., lumber, labor	114.16	
C. H. Hutchinson Foundry & Machine Works, castings, lumber, labor.	7.53	
J. Hodge, planing lumber	1.50	
Kimball & Hobbs, oil suits, etc.	5.83	
Paid Thomas A. Lane Co.:		
1 torch	5.00	
Material and labor.	3.20	
Paid G. W. Rief, lumber, belt-dressing	6.35	
L. & W. T. Seiberlich, paint, glass, etc.	2.42	
A. C. Wallace, lumber. . .	1.69	
C. L. Wolf, stovepipe and labor	4.30	
	<hr/>	\$181.09

HORSE HIRE.

Paid C. B. Danforth.	\$3.00	
C. H. Simpson.	65.50	
	<hr/>	\$68.50

MISCELLANEOUS.

Paid C. M. Bailey, globes.	\$10.13
Boston & Maine Railroad, freight on horse.	4.20
Paid A. N. Clapp:	
Kerosene	17.89
Sandpaper, spikes, etc.	1.27

Paid John Driscoll Co., dippers, wire, etc.	\$6.25	
Peter Duval, filing saws..	7.20	
Eager & Co., soap, ginger, etc.	7.25	
C. A. Hoitt & Co., 2 chairs	3.75	
Henry W. Parker, lime and salt	2.60	
E. D. Rogers, axle grease	5.50	
Temple & Farrington Co., books and pencils.....	22.69	
G. R. Vance, oil can.....	.20	
R. M. West, 2 ladders....	7.50	
		<u>\$96.43</u>
Total expenditures		<u><u>\$6,723.94</u></u>

Repairs of Sewers.

Appropriation	\$5,000.00	
Transferred from reserved fund	830.46	
		<u>\$5,830.46</u>

EXPENDITURES.

LABOR.

Paid labor of men, as per pay-roll, division No. 2:	
January	\$136.17
February	42.87
March	74.51
April	157.23
May	490.11
June	335.65
July	450.65

August	\$233.87
September	548.53
October	293.53
November	89.74
December	236.79

\$3,089.65

Paid labor of men, as per pay-roll, division
No. 10:

January	\$56.38
February	49.62
March	88.70
April	27.83
May	324.66
June	285.38
July	243.37
August	487.57
September	220.12
October	124.87
November	119.33
December	57.88

\$2,085.71

MATERIAL, LABOR, ETC.

Paid Boston & Maine Railroad, freight	\$42.66
John Driscoll Co., dippers, copper wire, etc.....	9.50
Warren Harvey, cesspool stone	150.53
C. H. Hutchinson Foun- dry & Machine Works, castings, etc., and labor	181.78
Kimball & Hobbs, 6 oil suits	13.50
Thomas A. Lane Co., mate- rial	2.33

Paid Manchester Hardware Co.,		
pails, oil can.....	\$2.89	
H. W. Parker, cement....	17.36	
Pike & Heald Co., dippers,		
pipe, etc.	8.35	
John B. Varick Co., weld-		
ing	3.70	
J. A. & A. W. Walker, 250		
barrels cement	222.50	
		<u>\$655.10</u>
 Total expenditures		<u><u>\$5,830.46</u></u>

New Sewers.

Appropriation	<u><u>\$40,000.00</u></u>
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EXPENDITURES.

LABOR.

Paid labor of men, as per pay-roll, division		
No. 2:		
April	\$280.61	
May	1,292.21	
June	2,907.51	
July	2,120.95	
August	866.30	
September	2,926.36	
October	1,311.71	
November	1,382.94	
December	733.00	
		<u>\$13,821.59</u>
 Paid labor of men, as per pay-roll, division		
No. 7:		
April	\$110.00	
May	798.75	

June	\$811.94	
July	611.12	
August	781.61	
September	484.88	
October	282.75	
	<hr/>	\$3,881.05

Paid labor of men, as per pay-roll, division
No. 10:

April	\$54.39	
May	320.13	
June	1,216.68	
July	566.45	
September	641.00	
October	1,418.31	
November	223.32	
December	56.25	
	<hr/>	\$4,496.53

HARDWARE.

Paid A. N. Clapp, nails, hammer, axes	\$5.08	
Manchester Hardware Co., nails, rakes, shovels, lanterns, globes, etc....	202.72	
John B. Varick Co., steel, dynamite, fuse, drills, files, pails, spikes, etc...	784.81	
	<hr/>	\$992.61

SEWER PIPE.

Paid Pike & Heald Co.	\$6,056.81
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MATERIAL, LABOR, ETC.

Paid Boston & Maine Railroad:
Labor of section men guarding track while sewer was

being laid in Wilson street, November, 1896	\$10.65	
Putting timbers under track in West Manchester.....	5.50	
Paid L. B. Bodwell & Co., coal..	113.94	
Carson Trench Machine Co., 1 block hook with swivel	8.15	
A. N. Clapp, kerosene....	40.30	
Frank L. Elliott, fuse and powder	563.98	
Paid C. H. Hutchinson:		
Castings	180.82	
Labor on drills.....	25.08	
Paid The Ingersoll-Sergeant Drill Co., drill, hose, couplings, supplies	510.06	
Thomas A. Lane Co., mate- rial and labor	73.70	
Manchester Locomotive Works, iron castings, etc.	1,275.37	
Moore & Preston, coal....	181.51	
D. M. Poore, coal.....	183.39	
B. H. Piper Co., pick handles	10.50	
James Robertson, 1 der- rick and trucking.....	110.00	
Wingate & Gould, 3 pairs rubber boots	8.00	
M. F. Whiton & Co., steel hoist	33.52	
	<hr/>	\$3,334.47

CEMENT, BRICK, STONE, LUMBER.

Paid J. H. Coburn, 2 loads logs	\$8.00
Warren Harvey, stone....	78.53

RIVER ROAD, CLARKE, AND ELM STREET SEWER. 571

Paid W. F. Head & Son, 231 M. brick	\$1,178.10	
Paid The Head & Dowst Co.:		
Lumber	508.75	
Cement	2.50	
Paid Kimball Carriage Co., 36 M. brick	201.60	
J. A. & A. W. Walker, cement	778.75	
	<hr/>	\$2,756.23

SUNDRIES.

Paid Boston & Maine Railroad, freight	\$253.55	
Pike & Heald Co., dippers, labor	5.45	
Myra Whittemore, right to build sewer through land	100.00	
	<hr/>	\$359.00

Total expenditures	\$35,698.29	
Transferred to reserved fund.....	4,301.71	
	<hr/>	\$40,000.00
	<hr/>	<hr/>

River Road, Clarke, and Elm Street Sewer.

Balance from last year unexpended.....	<u>\$5,697.57</u>
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EXPENDITURES.

LABOR.

Paid labor of men, as per pay-roll, division No. 2:	
January	\$852.59
February	1,190.69
March	956.14

May	\$476.51	
June	19.50	
	<hr/>	\$3,495.43
HARDWARE.		
Paid Manchester Hardware Co., graphite	\$0.10	
John B. Varick Co., dynamite, fuse, etc.....	1,128.18	
	<hr/>	\$1,128.28
CEMENT AND LUMBER.		
Paid Luther Proctor, oak lumber	\$16.00	
H. W. Parker, 10 casks cement	10.52	
	<hr/>	\$26.52
SUNDRIES.		
Paid Boston & Maine Railroad, freight	\$0.25	
L. B. Bodwell & Co., coal	256.31	
Carson Trench Machine Co., grates for engine..	9.50	
J. G. Ellinwood, photographs of Gould house	12.00	
C. H. Hutchinson, labor on drills, etc.....	4.50	
The Ingersoll-Sergeant Drill Co., valves, nuts, bolts, piston, etc.....	99.54	
Thomas A. Lane Co., pipe, packing, etc.	4.54	
Moore & Preston, coal....	105.69	
Pike & Heald Co., pipe...	115.50	
	<hr/>	\$607.83
Total expenditures		\$5,258.06
Transferred to new account.....		439.51
		<hr/>
		<u>\$5,697.57</u>

Bicycle Path.

Appropriation, transfer from reserved fund	<u>\$600.00</u>
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EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll,
division No. 7:

October	\$191.60	
November	102.25	
	<hr/>	\$293.85

Paid labor of men and teams, as per pay-roll,
division No. 8:

October	\$45.00	
November	212.59	
	<hr/>	\$257.59

Paid labor of men and teams, as per commons
pay-roll:

November	\$4.25
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SUNDRIES.

Paid J. J. Abbott, painting
signs

\$4.25

L. M. Aldrich & Co., lum-
ber and labor.....

4.42

<hr/>	\$8.67
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Total expenditures	\$564.36
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Transferred to new account.....	35.64
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<hr/>	<u>\$600.00</u>
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Commons.

Appropriation	\$4,500.00
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Transferred from reserved fund	26.80
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<hr/>	<u>\$4,526.80</u>
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EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-rolls:

January	\$179.75
February	259.89
March	83.87
April	265.00
May	197.25
June	285.98
July	145.86
August	308.11
September	78.73
October	378.85
November	486.75
December	207.62

 \$2,877.66

PLANTS, TREES, ETC.

Paid Clark & Estey, rose bushes	\$5.00
J. A. Chamberlain, trees..	2.00
O. Hardy, trees.....	8.50
A. G. Hood, plants.....	60.00
J. S. Holt & Co., ashes....	90.00
Ingram & Richmond, plants	35.00
Fred Johnson, trees	2.00
Frank Koener, plants....	20.00
The Kirby Floral Co., plants	60.00
James Richards, manure	10.50
Ray Brook Garden Co., plants	64.00
F. S. Worthen, plants....	35.00

 \$392.00

WATER AND ELECTRIC LIGHTS.

Paid Manchester Water-Works, use of water.....	\$700.00	
Union Electric Co., elec- tric lights	36.00	
	<hr/>	\$736.00

REPAIRS AND GENERAL EXPENSES.

Paid J. J. Abbott, paint.....	\$37.94	
L. M. Aldrich, filing saws, lumber	6.06	
Adams Brothers, salt....	.60	
Boston & Maine Railroad, freight .....	.80	
J. R. Carr Co., paint and labor	38.30	
Albert Davis, pine boards	14.00	
W. E. Goodwin, repairs on fountains	6.72	
The Head & Dowst Co., lumber, labor	22.46	
Peter Harris, keys.....	.50	
J. Hodge, lumber, labor..	33.23	
Paid C. H. Hutchinson Foundry & Machine Works:		
Repairs on scrapers, lawn- mowers, etc.....	14.16	
Labor on castings, etc.....	8.70	
Paid Thomas A. Lane Co., 18 dippers	4.50	
Manchester Hardware Co., tools and seed	45.74	
Manchester Locomotive Works, castings and labor	47.04	

Paid Pike & Heald Co., pipe	\$2.16	
Pope & Trudell, sharpening tools	1.85	
Leander Pope, sharpening tools	16.80	
C. H. Robie Co., material and labor	33.50	
G. R. Vance, pipe.....	1.50	
John B. Varick Co., tools and hardware	71.10	
A. C. Wallace, lumber...	17.73	
Wingate & Gould, rubber boots	14.00	
	<hr/>	\$439.39

SUNDRIES.

Paid J. B. Dupaul, barrels.....	\$3.50	
John Fullerton, expenses to Boston to get 6 guns given the city.....	46.00	
Edward McMahon, rent of barn	29.00	
Paige & Myrick, police badge	1.25	
R. G. Sullivan, tobacco stems	2.00	
	<hr/>	\$81.75
Total expenditures		<u>\$4,526.80</u>

Stark and Derryfield Parks.

Appropriation	\$5,000.00	
Transferred from reserved fund	3.70	
Balance from last year unexpended .....	.14	
	<hr/>	\$5,003.84

EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll,
commons:

January	\$33.00
February	13.37
March	78.75
April	140.12
May	736.00
June	1,046.50
July	726.32
August	806.06
September	911.87
October	94.75

\$4,586.74

SHRUBS, PLANTS, TREES, ETC.

Paid O. Hardy, trees and

shrubs	\$87.60
J. S. Holt & Co., ashes....	56.50
Manchester Hardware Co., grass seed	37.64
Partridge Brothers, seed	3.90

\$185.64

TOOLS, HARDWARE, REPAIRS, ETC.

Paid D. J. Adams, fitting keys	\$0.85
L. M. Aldrich, lumber, etc.	1.93
J. H. Coburn, paving.....	29.75
The Head & Dowst Co., lumber and cement	22.96
Thomas A. Lane Co., mate- rial and labor.....	11.24
Manchester Hardware Co., tools and hardware....	67.63

Paid Manchester Water-Works,		
use of water	\$24.00	
Merrill & Laird, building		
cesspools	18.90	
C. E. Palmer, tin, solder,		
labor	8.70	
Leander Pope, sharpening		
tools, etc.	14.25	
John B. Varick Co., tools		
and hardware	31.25	
	<hr/>	\$231.46
Total expenditures		<u>\$5,003.84</u>

Lighting Streets.

Appropriation \$55,000.00

EXPENDITURES.

ELECTRIC LIGHTS.

Paid Manchester Electric Co.:

	Charges.	Discounts.
January	\$4,206.00	\$27.87
February	4,207.08	18.49
March	4,207.07	13.38
April	4,207.08	15.97
May	4,207.08	13.32
June	4,242.05	16.22
July	4,283.75	18.64
August	4,290.37	27.91
September	4,302.92	9.97
October	4,307.96	8.00
November	4,346.16	13.10
December	4,350.83	11.93
	<hr/>	<hr/>
	\$51,158.36	\$194.80
Less discount	194.80	
	<hr/>	<hr/>

\$50,963.56

GAS.

Paid People's Gas-Light Co.:

January	\$53.06
February	53.06
March	43.82
April	44.10
May	40.18
June	35.14
July	31.36
August	32.48
September	35.00
October	39.34
November	47.74
December	49.98

\$505.26

CARE OF GAS AND OIL LAMPS.

Paid E. P. Cogswell, lighting street lamps	\$54.93
William Brooks, lighting lamps at Goffe's Falls..	104.30
Patrick Dobbins, lighting lamps at Goffe's Falls..	104.40
F. W. Elliott, lighting lamps and oil for same to January 1, 1898....	15.39
Charles D. Francis, light- ing lamps	189.92
Joseph Goodwin, lighting lamps	1,316.00
Mrs. Mary E. Reed, light- ing lamps at Massabesic to January 1, 1898.....	9.00

\$1,793.94

SUPPLIES.

Paid Clark M. Bailey, chimneys, wicks, burners, etc.....	\$41.75	
Paid A. N. Clapp:		
Kerosene	50.74	
Gasoline	125.50	
Matches, lamps, chimneys...	5.05	
Paid Eager & Co., matches....	.75	
Noah B. Reed, oil and supplies to September 1, 1897.....	6.00	
John B. Varick Co., glass, matches, burners	23.33	
Paid C. L. Wolf:		
Lanterns with gasoline fix- tures, and labor putting up	287.00	
Repairs on fixtures.....	14.71	
	<hr/>	\$554.83

SUNDRIES.

Paid Boston & Maine Railroad, freight	\$2.64	
Boyd Brothers, use of hacks	17.00	
J. P. Brown & Co., use of hacks	10.00	
Plummer & Brown, hacks and team	12.50	
C. C. Perry, use of hacks	20.00	
Felix Provencher, use of hack	5.00	
Whitten & Fifield, use of hack	5.00	
	<hr/>	\$72.14
Total expenditures	\$53,889.73	
Transferred to reserved fund.....	1,110.27	
	<hr/>	\$55,000.00
	<hr/>	

Engineer's Department.

Appropriation	\$4,500.00	
Transferred from reserved fund	280.91	
	<hr/>	<u>\$4,780.91</u>

EXPENDITURES.

LABOR.

Paid W. H. Bennett, engineer	\$1,200.00	
Harrie M. Young, first assistant	712.25	
George W. Wales, second assistant	858.00	
Harry J. Briggs, third assistant	697.50	
Alfred Dodge, assistant..	586.50	
L. B. Webster, labor.....	112.50	
Herbert L. Watson, labor	28.00	
Frank A. Fox, labor.....	1.50	
Ella M. Barker, clerk...	373.12	
	<hr/>	\$4,569.37

TEAMS, AND TEAM EXPENSES.

Paid A. F. Abbott, V. S., visits and medicine	\$13.75	
Manchester Street Rail- way, tickets	10.00	
J. B. McCrillis & Son, car- riage repairs	1.90	
	<hr/>	\$25.65

TELEPHONE.

Paid New England Telephone & Telegraph Co., use of telephone.....		\$36.30
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SUPPLIES AND OFFICE EXPENSES.

Paid W. L. Blenus, repairing tapes	\$1.65	
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Paid E. R. Coburn, paper, pencils, copy book, envelopes, etc.	\$15.75	
Paid The Carter's Ink Co.:		
Typewriter ribbons	2.00	
Coupon book	4.50	
Paid The John B. Clarke Co., printing:		
150 reports	45.00	
Blank book	9.50	
Binding books	19.00	
Paid S. C. Forsaith Machine Co., pine stakes.....	20.00	
Frost & Adams, drawing supplies	25.88	
The Head & Dowst Co., lumber and labor.....	2.99	
Manchester Index Co., 1 index	1.00	
A. Mantell & Co., 12 sheets transfer paper	1.50	
	<hr/>	\$148.77
SUNDRIES,		
Paid G. W. Wales, 36 yards cord	\$0.72	
Harrie M. Young, cash paid for telephone....	.10	
	<hr/>	\$0.82
Total expenditures		<u><u>\$4,780.91</u></u>

Health Department.

Appropriation	<u><u>\$4,400.00</u></u>
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EXPENDITURES.

SERVICES.

Paid C. W. Downing, M. D.:	
Salary as member of board of health for year ending February 1, 1897	\$200.00
Three months' services.....	50.00
Paid W. K. Robbins, salary as member of board of health for year ending February 1, 1897.....	
	200.00
William J. Starr, salary as member of board of health for 10 $\frac{3}{4}$ months..	
	179.17
Richard J. Barry, sanitary inspector	
	225.00
William B. Blake, sanitary inspector	
	348.75
Herbert S. Clough, san- itary inspector	
	78.00
John F. Looney, sanitary inspector	
	721.13
Carl O. Seaman, sanitary inspector	
	577.50
Charles B. Clarkson, 11 $\frac{1}{2}$ days' labor	
	23.00
M. Alma Fracker, clerk...	
	204.00
Ethel A. Marston, clerk..	
	200.00
	<hr/>
	\$3,006.55

PRINTING AND STATIONERY.

Paid The John B. Clarke Co., printing:	
Bulletins	\$36.90
Circulars, letter headings, etc.	125.65
300 reports	14.28

Paid E. R. Coburn Co., stationery	\$6.80	
W. P. Goodman, stationery	3.30	
“Le Bulletin,” printing 2,000 circulars	4.00	
Ethel A. Marston, postage, pencils, etc.....	12.95	
Novelty Advertising Co., blanks	6.00	
Temple & Farrington Co., 1 directory	2.50	
	<hr/>	\$212.38

TEAMS.

Paid G. W. Bailey, teams.....	\$11.00	
Paid W. B. Blake:		
Carfares	21.55	
Job team	2.50	
Paid R. J. Barry, carfares.....	8.50	
H. M. Clough, team.....	1.00	
Herbert S. Clough, carfares	4.25	
F. X. Chenette, teams....	5.50	
W. J. Freeman, teams....	4.00	
C. S. Fifield, teams.....	10.50	
E. T. James, teams.....	6.00	
John F. Looney, carfares	36.90	
C. O. Seaman, carfare....	.10	
Whitten & Fifield, teams	15.50	
	<hr/>	\$127.30

PESTHOUSE.

Paid C. A. Hoitt & Co., 1 spring	\$3.50
Judith Sherer, board sundry persons	44.66

Paid A. D. Sherer, lumber and labor	\$9.73	
G. W. Whitford, coal and wood	38.00	
	<hr/>	\$95.89

SUPPLIES FOR ISOLATED FAMILIES.

Paid Annis Flour & Grain Co., groceries	\$4.02	
L. B. Bodwell & Co., coal and wood	2.25	
A. H. Cate, groceries....	12.49	
James M. Collity, M. D., medical consultation...	3.00	
W. B. Blake, medicine and wood	2.50	
H. S. Clough, whiskey and disinfectants	1.45	
J. M. Clark, coal and wood	12.65	
E. L. Caswell, coal and wood	3.15	
T. F. Fifield, groceries...	11.26	
Freeman & Merrill, hay..	2.48	
A. L. Gadbois, groceries..	2.42	
J. F. Healy, groceries....	8.01	
O. D. Knox & Co., gro- ceries	1.69	
John F. Looney, oil, eggs, whiskey, etc.....	2.42	
McQuade Brothers, gro- ceries	1.75	
Noyes & Prince, groceries	11.07	
F. H. Thurston, disin- fectants, prescriptions..	13.42	
J. H. Wiggin & Co., gro- ceries	1.16	
	<hr/>	\$97.19

OFFICE EXPENSES AND SUPPLIES.

Paid Amoskeag Manufacturing Co., disinfectant lamps	\$14.50
H. S. Clough, telegrams..	.90
Paid Charles H. Coburn:	
Laying birch floor.....	25.00
1 water tank and cover.....	2.00
Paid G. V. Demers, paint and labor	2.70
M. A. Fracker, envelopes, stamps, postals	11.85
Paid C. A. Hoitt & Co.:	
1 hall tree	6.75
1 ice chest, etc.....	5.94
1 rubber mat, 1 rug, 1 hassock	3.50
Paid James W. Hill Co., 4 shades	5.20
Lehn & Fink, antitoxine..	45.00
Library Bureau, 1 card index outfit	15.00
H. K. Mulford Co., anti-toxine	90.78
New England Telephone & Telegraph Co., use of telephone	36.45
Paid People's Gas-Light Co.:	
Gas	2.94
Mantles, chimney, shade.....	1.30
Paid F. C. Robinson, 1 lamp... ..	7.50
L. A. Salomon & Co., methyl	47.30
Paid John B. Varick Co.:	
Wood alcohol	187.45
Lantern, varnish, etc.....	2.60
	<hr/>
	\$514.66

SUNDRIES.

Paid Brodie Electric Co., drilling holes in generator plate	\$0.80
Burnham, Brown & Warren, legal services.....	13.00
L. B. Bodwell & Co., ice from July to January..	4.74
W. B. Blake, express, disinfectants, telephone, expenses to Concord...	6.60
Herbert S. Clough, express	.90
Arthur K. Day, M. D., diphtheria examination	116.00
Harold C. Ernst, M. D., diphtheria examination	24.00
M. A. Fracker, express and laundry	1.45
John F. Looney, express, disinfectants, etc.....	1.90
Ethel A. Marston, express, freight, laundry, etc....	8.85
New Hampshire College of Agriculture, water analyzed	60.00
Paid W. M. Parsons, M. D.:	
Traveling expenses attending meeting American Board of Health at Philadelphia....	40.50
Membership fee	5.00
Paid Pike & Heald Co., plumbing material, etc.....	22.19
C. O. Seaman, disinfectants, lumber	1.37

Paid Star Stamp Co., badges . . .	\$3.00	
Snelling & Woods, disin-		
fectants	2.58	
	<hr/>	\$312.88
Total expenditures		\$4,366.85
Transferred to reserved fund		33.15
		<hr/>
		<u>\$4,400.00</u>

Repairs of Schoolhouses.

Appropriation	\$3,000.00	
Transferred from reserved fund	2,872.74	
	<hr/>	\$5,872.74
		<hr/>

EXPENDITURES.

MASONWORK.

Paid B. W. Robinson	\$315.55	
Z. B. Stuart	311.86	
	<hr/>	\$627.41

PAINTING AND GLAZING.

Paid J. J. Abbott	\$33.97	
J. S. Avery . . . . .	.80	
W. F. Conner	2.00	
Curtis & Peterson	1.95	
Joel Daniels & Co.	4.04	
C. F. Jack	2.00	
W. H. Newry . . . . .	.75	
Eben Paul	1.77	
John A. Sargent	440.66	
	<hr/>	\$487.94

CONCRETING.

Paid C. H. Robie Co.	\$97.34
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WOODWORK.

Paid George H. Dudley, lum- ber and labor.....	\$811.56	
J. Hodge, door, blinds, etc.	44.00	
	<hr/>	\$855.56

PLUMBING, IRONWORK, AND REPAIRS.

Paid D. J. Adams, repairing locks, fitting keys, etc..	\$12.42	
Amoskeag Manufacturing Co., castings, chain, etc.	109.20	
S. C. Austin & Co., repair- ing lightning rods, etc.	45.50	
C. W. Anderson, repairing clock	2.00	
E. M. Bryant & Co., repair- ing bells, etc.....	48.79	
Henry Boone, repairing clock	1.50	
Cressey & Colby, repairing flue rod .....	.50	
W. M. Darrah & Co., roof- ing material and labor	109.12	
Paid A. L. Franks & Co.:		
1 desk push	1.00	
Supplies and labor.....	107.37	
Paid W. F. Gill, repairing clock	1.75	
The Head & Dowst Co., re- pairing roof and labor..	10.82	
Peter Harris, sharpening lawn mowers, unlocking doors	5.40	
R. D. Jenkins, reseating chairs	1.35	

Paid T. A. Lane Co., material and labor, electric lights, plumbing, etc., sundry schoolhouses	\$291.63	
Lessard & Hevey, plumb- ing material and labor..	2,438.73	
H. I. Lemay, repairing clocks	3.00	
Pike & Heald Co., material and labor, plumbing, etc.	191.79	
W. L. Spaulding, plumb- ing material and labor	211.82	
W. H. Sullivan, material and labor, retinting rooms	51.00	
C. P. Still, stone steps....	2.50	
George S. Perry & Co., re- pairing sharpeners	7.30	
Charles A. Trefethen, re- pairing and cleaning clocks	20.50	
	<hr/>	\$3,674.99
SUNDRIES.		
Paid J. S. Avery, setting glass	\$0.50	
Paid W. F. Conner:		
Cash paid for work.....	4.00	
Mending hose, etc.....	.25	
Paid J. G. Jones, trucking....	5.25	
A. A. Jenkins, tuning pianos	31.00	
Napoleon Lemay, fixing flag rope	1.50	
Manchester Slaughtering & Rendering Co., fer- tilizer stock	8.00	

FUEL.

591

Paid Mrs. Charles Miller, labor at Straw school.....	\$1.50	
A. E. Newton, 12 force pumps	12.00	
S. J. Russell, cleaning vaults	25.00	
Edward Sears, fixing flag rope	2.50	
B. A. Stearns, loam and grading	38.00	
	<hr/>	\$129.50
Total expenditures		<u>\$5,872.74</u>

Fuel.

Appropriation	<u>\$8,000.00</u>
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EXPENDITURES.

COAL.

Paid L. B. Bodwell & Co., 718 tons 400 lbs. coal.....	\$3,954.35	
Dunlap & Wason Coal Co., 206 tons 428 lbs.....	1,340.06	
D. M. Poore, 6 tons coal..	37.50	
E. V. Turcotte, 131 tons, 1,345 lbs. coal.....	859.14	
	<hr/>	\$6,191.05

WOOD.

Paid L. B. Bodwell & Co., wood	\$5.50
J. M. Clark, wood.....	121.13
Gilman Clough, wood....	24.20
Dunlap & Wason Coal Co., pine and hard wood, sawed	62.00

Paid W. E. Dunbar & Co., 34½		
cords wood	\$138.50	
Moore & Preston, wood...	24.25	
D. M. Poore, hard and pine		
wood	31.63	
	<hr/>	\$407.21

SUNDRIES.

Paid C. B. Clarkson, 15 days' labor as		
weigher		\$30.00
		<hr/>
Total expenditures		\$6,628.26
Transferred to reserved fund.....		1,371.74
		<hr/>
		<u>\$8,000.00</u>

Furniture and Supplies.

Appropriation	<u>\$2,000.00</u>
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EXPENDITURES.

PHYSICAL AND CHEMICAL APPARATUS, SUPPLIES, ETC.

Paid Tebbetts & Soule.....	\$258.37
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HARDWARE.

Paid Manchester Hardware Co.,		
snow shovel, bell, chain,		
brushes, etc.....	\$14.24	
John B. Varick Co.,		
brooms, brushes, dus-		
ters, mats, pails, etc....	299.80	
	<hr/>	\$314.04

BOOKS AND STATIONERY.

Paid Boston School Supply Co.,		
reading chart	\$14.15	

Paid O. D. Case, & Co., black-boards	\$116.64	
E. R. Coburn Co., 3 sets pantograph	12.00	
Oliver Ditson Co., music books	20.75	
Educational Publishing Co., subscription to "Primary Education," January 1, 1898.....	1.00	
The Greenwood School Supply Co., 1 duplicator and ink	3.02	
J. L. Hammett Co., maps and globes	112.00	
Paid New England Publishing Co., subscription to:		
"Journal of Education".....	2.50	
"American Teacher" .....	.50	
Paid Prang Educational Co., models, etc.....	31.66	
Temple & Farrington Co., Bibles	3.75	
	<hr/>	\$317.97

FURNITURE.

Paid W. & L. E. Gurley, surveyors' instruments	\$120.00
Paid C. A. Hoitt & Co.:	
Chairs	21.01
Tables, matting, shade, polish	15.49
Use of chairs	10.34
Paid Josselyn & Read Co., tables and chairs	27.25
Kimball & Hobbs, rubber mats, lettered	177.75

Paid F. E. Nelson, mugs, cups, duster	\$5.87
Paid George S. Perry & Co.:	
Ink wells	24.45
Chucks for sharpeners.....	6.75
Paid Temple & Farrington Co.,	
1 shade .....	.97
Weston & Hill Co., 1 flag	12.00

 \$421.88

SUNDRIES.

Paid Adams Brothers, salt...	\$0.65
Bartón & Co., crash, cheese cloth .....	.98
Daniels & Downs, engross- ing diplomas	48.25
Frank W. Fitts, 306 yards ribbon	21.19
S. C. Forsaith Machine Co., lumber .....	.75
T. F. Fifield, oil, can, soap	3.88
H. J. Holmes, oil.....	.36
James W. Hill Co., 1 roller and cord .....	.61
W. F. Hubbard, sawdust	.40
C. H. Kimball, drumheads, sticks, and hooks.....	5.88
Paid Kimball & Hobbs:	
Shoe pegs .....	.70
Rubber bands, tips, cloth....	2.91
Paid Manchester Broom Co.,	
brooms .....	.50
Manchester Mills, soap..	12.25
Albert Nettle, chimneys..	.60
Paid People's Gas-Light Co.:	
1 stove and tubing.....	5.60
Mantle and chimney.....	.60

Paid Pike & Heald Co., mop waste, dustpans, meas- ures, shovels, etc.....	\$12.32	
Standard Oil Co., oil....	1.50	
Temple & Farrington Co., 500 tags .....	.65	
F. H. Thurston, disin- fectant	17.50	
A. C. Wallace, sawdust..	1.50	
	<hr/>	\$139.58
Total expenditures		<hr/> \$1,451.84
Transferred to reserved fund.....		548.16
		<hr/> <hr/> \$2,000.00

Books and Stationery.

Appropriation	<hr/> <hr/> \$100.00
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EXPENDITURES.

SUNDRIES.

Paid A. S. Campbell & Co., pos- tals and printing.....	\$1.50
W. P. Goodman, books and stationery	12.01
E. J. Knowlton, P. M., pos- tage stamps	25.00
New England Publishing Co., subscription to "Journal of Education" and "American Primary Teacher," to January 1, 1897	3.00
Novelty Advertising Co., envelopes, cardboard....	9.12

Paid George P. Wallace, ribbons and carbon paper	\$4.00	
E. B. Woodbury, postage and stationery	4.50	
		<u>\$59.13</u>
Total expenditures		\$59.13
Transferred to reserved fund.....		40.87
		<u><u>\$100.00</u></u>

Printing and Advertising.

Appropriation	\$300.00	
Transferred from reserved fund	4.43	
		<u>\$304.43</u>

EXPENDITURES.

SUNDRIES.

Paid A. S. Campbell & Co., printing blanks	\$2.75	
Paid The John B. Clarke Co., printing:		
Blanks, cards, circulars, lists, etc.	245.44	
400 reports	50.74	
Binding books	5.50	
		<u>\$304.43</u>
Total expenditures		<u><u>\$304.43</u></u>

Contingent Expenses.

Appropriation	\$1,700.00	
Transferred from reserved fund	1,411.94	
		<u>\$3,111.94</u>

EXPENDITURES.

FREIGHT AND CARTAGE.

Paid J. G. Jones.....	\$104.09	
C. A. Winberg.....	9.00	
	<hr/>	\$113.09

WATER, GAS, ELECTRIC LIGHTS.

Paid Manchester Electric Co., electric lights	\$62.25	
People's Gas-Light Co., gas	308.14	
Union Electric Co., elec- tric lights	231.85	
water commissioners, use of water	966.00	
	<hr/>	\$1,568.24

ANNUAL GRADUATION.

Paid F. P. Colby, moving pianos	\$6.00	
Oliver Ditson Co., music..	13.58	
Daniels & Downs, engross- ing diplomas	2.60	
C. A. Hoitt & Co., use of 52 chairs	2.00	
Paid Opera House Co.:		
Use of opera house.....	75.00	
Coupon tickets	1.15	
Paid Frank T. Weeks, taking tickets at opera house.....	2.00	
	<hr/>	\$102.33

SUNDRIES.

Paid W. E. Buck:		
Cash paid for express, freight, telegrams	\$39.07	
Use of team.....	79.50	

Paid J. P. Brown & Co., use of team	\$3.00
Louis Bailey, cash paid for water, Youngsville	6.00
Curtis W. Davis, use of team	150.00
Paid Emma J. Ela:	
Cash paid for carrying water	18.50
Cleaning schoolrooms.....	1.75
Paid S. B. Hope, use of team, carrying special teacher of music to suburban schools	
	82.50
Mrs. J. J. Kimball, piano..	200.00
E. J. Knowlton, P. M., pos- tage	10.00
E. C. Lambert, expenses to Boston for teacher.....	6.32
Byron Moore, water priv- ilege for Goffe's Falls school	6.00
Albert Somes, cash paid for cartage books, etc., from Straw to High school	50.77
Inez Warren, cash paid for carrying water.....	3.50
D. A. Simons, rent of 100 chairs	4.00
	<hr/>
	\$660.91

SCHOOL CENSUS.

Paid W. H. Andrews, 14 days..	\$35.00
Charles W. Brown, 14 days	35.00
George H. Chadwick, 14 days	35.00
C. B. Clarkson, 14 days...	35.00

Louis Comeau, 14 days...	\$35.00	
Hiram Forsaith, 11 days	27.50	
E. Parker French, 14 days	35.00	
W. E. Gilmore, 14 days...	35.00	
Harry C. Graf, 14 days..	35.00	
F. G. B. Kemp, 14 days..	35.00	
Frank C. Lindquist, 14 days	35.00	
T. E. McDerby, 14 days...	35.00	
A. W. Rowell, 14 days....	35.00	
J. B. Rejimbail, 14 days..	35.00	
Nathan A. Sleeper, 14 days and use of team.....	41.00	
John C. Smith, 14 days...	35.00	
Paid Henry F. Stone:		
16 days	44.00	
Use of team.....	9.00	
Supplies	5.37	
Paid J. J. Sullivan, 14 days....	35.00	
George Sheehan	10.00	
		<u>\$661.87</u>
Total expenditures		\$3,106.44
The John B. Clarke Co., overdraft.....		5.50
		<u>\$3,111.94</u>

Care of School-Rooms.

Appropriation	<u>\$6,000.00</u>
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EXPENDITURES.

JANITORS OF SCHOOLHOUSES.

Paid John S. Avery.....	\$600.00
Nellie M. Atwood.....	37.00
H. G. Batchelder.....	250.02

Paid S. H. Batchelder.....	\$399.96	
Edwin N. Baker.....	350.04	
James E. Bailey.....	127.53	
W. F. Conner.....	525.00	
Robert Cook	250.02	
Ida E. Corning.....	37.00	
Clarence Drayton	9.35	
Emma J. Ela.....	49.00	
Charles Ellis	23.33	
F. D. Hanscom.....	42.51	
V. H. Hill.....	500.04	
C. E. Jack.....	550.02	
W. H. Newry.....	474.96	
Fred Perron	73.00	
Almon Proctor	22.50	
W. J. Powers.....	300.00	
D. T. Robinson.....	280.75	
William Stevens	399.96	
J. S. Washburn.....	350.04	
Inez M. Warren.....	40.25	
Charles Watson	14.00	
	<hr/>	\$5,706.28

SUNDRIES.

Paid Nellie M. Atwood, cash paid for cleaning school- rooms	\$2.50
Mrs. Ida E. Corning, clean- ing school-rooms.....	2.00
Mrs. Charles Ellis, labor at Straw school.....	1.50
Charles Golding, cleaning school-rooms, Youngs- ville	3.00

Paid Mrs. E. M. Martsch, cleaning school-rooms, Goffe's Falls	\$5.00	
	<hr/>	\$14.00
Total expenditures		\$5,720.28
Transferred to reserved fund.....		279.72
		<hr/>
		\$6,000.00
		<hr/> <hr/>

Evening Schools.

Appropriation		\$1,500.00
		<hr/> <hr/>

EXPENDITURES.

SALARIES.

Paid L. H. Carpenter.....	\$65.00	
Charles E. Cochran.....	184.00	
Honorie J. Crough.....	182.00	
Mabel S. Chasse.....	28.00	
Beatrice Daly	24.00	
Sarah B. Dunbar.....	49.00	
W. W. Forbes.....	52.00	
Julius Hegewald	82.00	
M. C. Henry.....	50.00	
Tilla E. Johnson.....	21.00	
Maggie G. Linen.....	90.00	
Carrie G. Mason.....	4.50	
William J. Mooar.....	52.00	
Mary McLaren	4.50	
Arthur W. Morgan.....	180.00	
Mary E. Paige.....	54.50	
Arthur W. Rowell.....	87.00	
Elizabeth Walsh	4.50	
E. R. Wood.....	8.00	
	<hr/>	\$1,222.00

JANITORS.

Paid V. H. Hill.....	\$91.40	
Morton E. Sanborn.....	23.00	
	<u> </u>	\$114.40

SUNDRIES.

Paid Harry B. Cilley, rent of room	\$40.00	
J. G. Jones, cartage.....	2.50	
T. A. Lane Co., labor on gas pipe	2.00	
E. W. Poore, wood.....	7.25	
	<u> </u>	\$51.75
Total expenditures		\$1,388.15
Transferred to reserved fund.....		111.85
		<u> </u>
		\$1,500.00
		<u> </u>

Teachers' Salaries.

Appropriation	\$74,000.00	
Transferred from reserved fund	3,037.17	
	<u> </u>	\$77,037.17
		<u> </u>

Paid teachers, as per pay-roll:

January	\$7,450.47
February	7,632.28
March	7,671.45
April	7,321.34
May	7,649.65
June	7,639.88
September	7,371.45
October	8,166.32
November	8,102.08
December	8,032.25
	<u> </u>

Total expenditures	<u> </u>	\$77,037.17
		<u> </u>

Evening School, Mechanical Drawing.

Appropriation	<u>\$400.00</u>
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EXPENDITURES.

SALARIES.

Paid H. W. Allen.....	\$180.50	
John M. Kendall.....	180.50	
	<hr/>	\$361.00

SUNDRIES.

Paid John B. Varick Co., 12 triangles.....	\$3.36	
	<hr/>	
Total expenditures		\$364.36
Transferred to reserved fund.....		35.64
		<hr/>
		<u>\$400.00</u>

Free Text-Books.

Appropriation	\$5,000.00	
Transferred from reserved fund	1,320.36	
	<hr/>	<u>\$6,320.36</u>

EXPENDITURES.

FREE TEXT-BOOKS AND SUPPLIES.

Paid The American Book Co..	\$752.86
Allyn & Bacon.....	59.03
E. E. Babb & Co.....	111.32
Boston School Supply Co.	19.10
Cheney Globe Co.....	12.50
The Century Co.....	3.50
Clark & Estey.....	.29
E. R. Coburn Co.....	3.06
T. H. Castor & Co.....	18.36

Paid The Clark Manufacturing Co.	\$10.80	
Dodd, Mead & Co.....	282.00	
Oliver Ditson Co.....	16.82	
Eagle Pencil Co.....	63.60	
W. P. Goodman.....	38.75	
Ginn & Co.....	931.90	
J. L. Hammett Co.....	396.92	
D. C. Heath & Co.....	123.65	
Houghton, Mifflin & Co..	37.93	
Henry Holt & Co.....	61.52	
Harper & Brothers.....	8.83	
G. F. King & Merrill.....	426.53	
G. F. King & Co.....	228.91	
Kasson & Palmer.....	3.00	
King-Richardson Publishing Co.	709.24	
C. H. Kimball.....	1.65	
Longmans, Green & Co..	4.00	
Lee & Shepard.....	13.79	
Leach, Shewell & Sanborn	35.11	
Maynard, Merrill & Co..	75.75	
Manchester Ink Co.....	8.25	
Novelty Advertising Co..	1.75	
The Prang Educational Co.	550.33	
George S. Perry & Co....	77.00	
Silver, Burdett & Co....	24.70	
Thompson, Brown & Co.	69.80	
University Publishing Co.	40.25	
John B. Varick Co.....	3.00	
William Ware & Co....	587.14	
Werner School Book Co..	5.30	
George P. Wallace.....	1.00	
F. W. Woolworth & Co..	1.00	
		<hr/>
		\$5,820.24

SUNDRIES.

Paid Frank W. Fitts, cotton..	\$0.12	
Fannie L. Sanborn, ser- vices as clerk in superin- tendent's office	500.00	
	<hr/>	\$500.12
Total expenditures		<hr/> <hr/> \$6,320.36

Manual Training.

Appropriation	<hr/> <hr/> \$1,500.00
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EXPENDITURES.

Paid Fred E. Browne, teacher	\$1,199.91	
Hanover-street Laundry, washing aprons	3.40	
The Head & Dowst Co., lumber and labor.....	64.41	
J. Hodge, lumber and labor	49.80	
C. A. Hoitt & Co., 1 chair	1.75	
W. F. Hubbard, 25 feet cherry and planing....	4.75	
Manchester Hardware Co., screw eyes .....	.24	
Manchester Electric Co., fuses, lamps	1.75	
Palmer, Parker & Co., lumber	17.31	
John B. Varick Co., hard- ware	27.54	
	<hr/>	\$1,370.86
Total expenditures		<hr/> <hr/> \$1,370.86
Transferred to reserved fund.....		129.14
		<hr/> <hr/> \$1,500.00

City Library.

Balance from last year unex- pended	\$2,843.05	
Appropriation	4,500.00	
		<u>\$7,343.05</u>

EXPENDITURES.

LIBRARIAN AND ASSISTANTS.

Paid Kate E. Sanborn, libra- rian	\$375.00	
Florence E. Whitcher, librarian	66.66	
George H. Fletcher.....	504.50	
Arthur H. Fletcher.....	318.13	
George W. Swallow.....	279.00	
Arthur N. Tasker.....	5.85	
L. B. James.....	53.90	
W. C. Swallow.....	9.75	
		<u>\$1,612.79</u>

CATALOGUE AND CATALOGUE SUPPLIES.

Paid Library Bureau, cards, list sheets, etc.....	\$30.98	
Louise E. Newell, copyist	273.30	
Edith O. Simmons, copyist	408.90	
Paid Temple & Farrington Co.:		
Ink, paper, envelopes.....	12.32	
5,600 cards	19.60	
		<u>\$745.10</u>

BINDING, REBINDING, AND RESEWING.

Paid Boston Bookbinding Co..	\$174.09	
Temple & Farrington Co..	204.39	
		<u>\$378.48</u>

WATER, LIGHTS, FUEL, INSURANCE.

Paid L. B. Bodwell & Co.:	
63 tons, 435 lbs. coal.....	\$369.69
Wood	4.88
Paid Clough & Twombly, insur-	
ance premium	125.00
People's Gas-Light Co.,	
gas	28.98
Union Electric Co., elec-	
tric lights	269.18
Water-Works, use of	
water	16.00
	<hr/>
	\$813.73

NEW BOOKS.

Paid trustees of city library.....	\$1,000.00
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SUNDRIES.

Paid The John B. Clarke Co.,	
printing:	
250 reports, 1895.....	\$18.15
300 reports, 1896.....	21.00
"Daily Mirror," one year....	6.00
Paid G. R. Fletcher, cash paid	
for cleaning	18.27
N. P. Hunt, postage, 1896,	
1897	4.76
C. F. Livingston, printing	
book covers	20.30
W. E. Moore, printing	
labels	1.00
Thomas A. Lane Co., 24	
lamps	6.00
Mary E. Robbins, expenses	
to Manchester to meet	
trustees	11.16

Paid Kate E. Sanborn, cash paid for cleaning.....	\$16.23	
U. D. Tenney, mending portrait	7.00	
		<u>\$129.87</u>
Total expenditures		\$4,679.97
Transferred to new account.....		2,663.08
		<u>\$7,343.05</u>

Fire Department.

Appropriation	<u>\$61,000.00</u>
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EXPENDITURES.

SERVICES.

Paid Thomas W. Lane, chief engineer	\$1,300.00	
Fred S. Bean, assistant engineer	175.00	
Ruel G. Manning, assist- ant engineer	175.00	
Clarence R. Merrill, as- sistant engineer	175.00	
Eugene S. Whitney, assist- ant engineer	175.00	
Fred S. Bean, clerk.....	25.00	
		<u>\$2,025.00</u>
Paid teamsters and engineers, as per pay- roll:		
January	\$2,262.93	
February	2,269.43	
March	2,264.89	
April	2,262.93	
May	2,318.93	

FIRE DEPARTMENT.

609

June	\$2,305.14	
July	2,339.01	
August	2,393.68	
September	2,448.52	
October	2,361.56	
November	2,271.68	
December	2,359.39	
	<hr/>	\$27,858.09

CALL MEMBERS.

Paid Engine Co. No. 1:		
For year 1897.....	\$1,690.00	
Extra labor	8.00	
Paid Engine Co. No. 2:		
For year 1897	1,680.00	
Extra labor	8.00	
Paid Engine and Ladder Co. No. 3:		
For year 1897.....	2,285.00	
Extra labor	8.00	
Paid Engine Co. No. 4:		
For year 1897	1,690.00	
Extra labor	8.00	
Paid Engine & Ladder Co. No. 5:		
For year 1897	2,450.00	
Extra labor	8.00	
Paid Engine & Ladder Co. No. 6:		
For year 1897	2,450.00	
Extra labor	8.00	
Paid Chemical Engine Co. No. 1:		
For year 1897	475.00	
Extra labor	4.00	
Paid Hook-and-Ladder Co., No. 1:		
For year 1897	1,820.00	
Extra labor	8.00	
Paid Hose Co. No. 1:		
For year 1897	1,685.00	
Extra labor	8.00	

Paid Hose Co. No. 2:		
For year 1897.....	\$1,685.00	
Extra labor	8.00	
Paid Hose Co. No. 3:		
For year 1897	910.00	
Extra labor	8.00	
	<hr/>	\$18,904.00

OTHER LABOR.

Paid F. O. Bartlett, labor as driver	\$82.50	
C. A. Butterfield, labor as driver	20.25	
F. W. Bond, labor as driver	31.50	
John W. Finn, labor as driver	9.75	
Alfred Gustafson, labor as driver	27.00	
William Gage, labor as driver	42.00	
Herbert W. Jenne, labor..	41.25	
Thomas Smith, labor as driver	21.00	
	<hr/>	\$275.25

LAUNDRY.

Paid Mrs. Charles Cutler.....	\$21.59	
Mrs. G. M. Goodwin.....	18.00	
Mrs. H. H. Hulme.....	50.74	
L. A. Lamson.....	7.50	
W. Morse	8.21	
Margaret Powers	58.62	
Mrs. M. L. Porter.....	8.25	
Mrs. Annie Roberts.....	4.00	
Mrs. Susie E. Reed.....	9.50	
L. A. Sawyer.....	18.70	
Mrs. C. C. Tinkham.....	19.48	
	<hr/>	\$224.59

FURNITURE, ETC.

Paid W. A. Dakin & Co., 2 mop- wringers	\$5.00	
Paid C. A. Hoitt & Co.:		
Iron bed	7.50	
Mattresses, springs, etc.....	29.00	
Pillows, comforters	9.50	
Chairs, shades	7.75	
Matting	12.25	
Ice tank, etc.....	5.50	
Paid James W. Hill Co., pillow slips, sheets, crash.....	18.57	
R. K. Horne, 1 towel rack	.35	
Kimball & Hobbs, mat- ting	3.13	
D. A. Simons, 3 mat- tresses	19.47	
	<hr/>	\$118.02

PRINTING AND STATIONERY.

Paid The John B. Clarke Co., printing 400 reports....	\$45.56
W. P. Goodman, copying book	1.36
Paid Nate Kellogg Co., printing:	
Reports, postals, cards, etc...	103.15
Binding cards and rosters...	8.55
Paid Temple & Farrington Co., books and stationery	11.78
Union Publishing Co., ad- vertising	16.52
Engine Co. No. 1.....	10.00
Engine Co. No. 2.....	10.00
Engine & Ladder Co. No. 3	10.00
Engine Co. No. 4.....	10.00
Engine & Ladder Co. No. 5	10.00

Paid Engine & Ladder Co. No. 6	\$10.00	
Chemical Engine Co. No. 1	10.00	
Aerial Truck Co. No. 1....	10.00	
Hose Co. No. 1.....	10.00	
Hose Co. No. 2.....	10.00	
Hose Co. No. 3.....	10.00	
	<hr/>	\$296.92

WATER, GAS, ELECTRIC LIGHTS, TELEPHONE.

Paid New England Telephone & Telegraph Co., use of telephones	\$295.41	
People's Gas-Light Co., gas	807.10	
Union Electric Co., elec- tric lights	64.86	
water commissioners, use of water	460.58	
	<hr/>	\$1,627.95

FUEL.

Paid L. B. Bodwell & Co.:		
142 tons, 1,243 lbs. coal.....	\$845.36	
Wood	11.00	
Paid George Brown, sawing and splitting wood.....	4.50	
Alfred F. Davis, wood....	7.00	
Dunlap & Wason Coal Co., 50 tons coal.....	300.00	
S. L. Flanders, wood.....	32.30	
J. E. French, wood.....	15.00	
E. V. Turcotte, 34 tons, 930 lbs. coal.....	224.03	
	<hr/>	\$1,439.19

FREIGHT AND TRUCKAGE.

Paid John W. Wilson.....	\$9.15
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SUPPLIES.

Paid H. K. Barnes, 8-foot jacket suction, etc.....	\$10.65
Clark M. Bailey, 13 brooms	5.77
Paid J. A. & W. Bird & Co.:	
Bicarbonate of soda.....	20.00
Sulphuric acid	11.06
Paid Boston Woven Hose & Rubber Co., 1 nozzle...	10.00
Brodie Electric Co., 2 bells	6.00
Cavanaugh Brothers, 3 horses	425.00
Cornelius Callahan Co., gong	15.00
The Daniels-Cornell Co., soap	41.98
S. L. Flanders, oil, oil cans, chimneys	16.44
D. M. Goodwin, brooms..	8.50
A. W. Harris Oil Co., valve oil and cans.....	6.05
T. F. Hannaford, 12 brooms	4.75
W. F. Hubbard, 10 barrels sawdust	1.00
A. S. Jackson, bottles and corks	9.00
Thomas A. Lane Co., hose, couplings, lamps, shade	53.50
C. W. H. Moulton, 1 set locks	20.00
Manchester Mills, 460 lbs. waste	21.95
Paid Pike Manufacturing Co.:	
Disinfecting fluid	10.50
Axle grease	1.50

Paid F. O. Pierce Co.:	
Sal ammoniac	\$8.80
Bristle sweep	11.32
Paid Pike & Heald Co., kettle, stove, dippers, etc.....	
	13.21
C. N. Perkins & Co., 1 noz- zle and attaching.....	1.75
Plumer & Holton, reefers, jackets, overalls.....	104.00
Revere Rubber Co., wash- ers	1.13
S. E. Spencer, 40 hat- bands	4.00
H. Stratton, 60 lbs. lead..	2.40
F. H. Thurston, Germol..	2.50
D. B. Varney, brass cast- ings, etc.....	40.69
Weston & Hill Co., cotton, crash	10.52
	<hr/>
	\$898.97

PLUMBING, REPAIRS, ETC.

Paid Amoskeag Manufacturing Co., finishing brass sheaves, hangers, etc...	
	\$28.25
Cornelius Callahan Co., repairing hose	1.00
The Electric Gas-Lighting Co., battery and covers	17.00
The Head & Dowst Co., lumber	2.92
J. Hodge, lumber and labor .....	.35
Hutchinson Foundry & Machine Works, door weights	6.66

Paid Thomas A. Lane Co., plumbing material and labor	\$15.64	
Joseph LeFavour, repairs on Chemical engine....	3.00	
H. J. Lawson, iron and labor	1.05	
Pike & Heald Co., mate- rial and labor.....	10.96	
Manchester Locomotive Works, repairing en- gine, boiler, and gear...	56.00	
G. W. Reed, repairing fire bucket .....	.75	
C. A. Trefethen, repairing indicator50	
A. C. Wallace, lumber....	1.28	
	<hr/>	\$145.36

HARDWARE.

Paid John B. Varick Co.....	\$310.83
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VETERINARY SERVICES AND MEDICINES.

Paid A. F. Abbott, V. S., visits and medicine	\$67.00
Charles M. Bailey, V. S., visits and medicine.....	25.25
E. H. Currier, medicine..	3.50
N. Chandler, ointment...	4.50
Z. Foster Campbell, med- icine	4.95
A. L. Dodge, V. S., visits and medicines	33.50
The Granite Pharmacy, medicine	1.30
F. K. Hubbard, colic cure	2.00

Paid P. C. Lamprey, alcohol, etc.	\$4.75	
G. B. Peavy, medicine....	3.00	
A. D. Smith, medicine, etc.	8.80	
Snelling & Woods, med- icine	12.06	
C. A. Williams, medicine	1.83	
	<hr/>	\$172.44

* CARRIAGE REPAIRS.

Paid Couch & McDonald.....	\$21.60	
Manchester Locomotive Works	155.23	
J. B. McCrillis & Son....	223.03	
Sanborn Carriage Co.....	24.84	
	<hr/>	\$424.70

BLACKSMITHING.

Paid C. H. Bodwell.....	\$4.00	
Cressey & Colby.....	168.55	
T. Hickey	24.75	
A. Lemire	57.65	
Mahaney & McSweeney..	370.00	
J. O. Tremblay.....	197.50	
J. F. Woodbury Co.....	65.50	
	<hr/>	\$887.95

HAY, GRAIN, ETC.

Paid Adams Brothers.....	\$46.02	
B. W. Cate.....	12.71	
Freeman & Merrill.....	162.79	
Gage & McDougall.....	1,280.06	
A. H. Hill.....	71.86	
J. F. Kerwin.....	7.50	
W. F. Merrill.....	572.94	
C. R. Merrill.....	2,072.91	
Nichols & Allen.....	208.22	
Partridge Brothers	212.00	
	<hr/>	\$4,647.01

HARNESS REPAIRS AND SUPPLIES.

Paid W. H. Adams, repairs...	\$117.35	
The Fred Allen Co., repairs	45.20	
Paid Charles E. Berry:		
Collar and hames.....	26.00	
Repairs	2.05	
Paid W. E. Greeley, repairs....	2.45	
John F. Kerwin, supplies	3.12	
Paid H. C. Ranno & Son:		
Repairs	70.60	
Whips	17.00	
		<hr/>
		\$283.77

SUNDRIES.

Paid T. Bloomey, sawing and splitting wood	\$2.25
Joseph Breault, use of horse	83.25
Cavanaugh Brothers, use of horse	78.25
John Costello, sawing wood	2.25
Tilton F. Fifield, matches, oil, soap	10.48
S. C. Forsaith Machine Co., sawdust .....	.70
A. M. Finney, cleaning car- pets	5.61
W. F. Hubbard, sawdust	.30
Thomas W. Lane, paid for postage, express, cart- age, freight	14.95
H. F. W. Little, filing saws	1.05
G. W. Reed, pasturing horses	29.00

Paid C. H. Simpson, use of hacks	\$15.00	
C. A. Trefethen, cleaning clock	1.00	
E. V. Turcotte, use of horse	17.50	
N. J. Whalen, soap.....	.50	
	<hr/>	\$262.09
Total expenditures.....		\$60,811.28
Transferred to reserved fund.....		188.72
		<hr/>
		<u>\$61,000.00</u>

Fire Alarm Telegraph.

Appropriation	<u>\$2,000.00</u>
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EXPENDITURES.

LABOR.

Paid labor of men, as per pay-roll:		
January	\$52.00	
February	48.00	
March	48.00	
April	52.00	
May	52.00	
June	52.00	
July	54.00	
August	52.00	
September	52.00	
October	52.00	
November	52.00	
December	54.00	
	<hr/>	\$620.00

Paid Oscar Bineau	\$4.50	
W. Hill	1.50	
E. A. Sears.....	5.50	
Charles S. Willis.....	1.00	
	<hr/>	\$12.50

SUPPLIES.

Paid American Electrical Works, wire	\$53.52	
James Baldwin Co., 350 pins	3.50	
J. H. Bunnell & Co., bells, zincs, jars	34.31	
Brodie Electric Co., insul- ators, magnet, repairs, etc.	30.75	
James R. Carr Co., paint..	7.75	
John C. Gold, repairing climbers	1.75	
J. Hodge, lumber and labor	26.30	
The Head & Dowst Co., lumber	3.46	
Kimball & Hobbs, leather, gloves	5.90	
Thomas A. Lane, pipe and labor	3.52	
Paid The N. E. Gamewell Co.:		
Fire-alarm boxes	225.00	
Lightning arresters	18.00	
Repairing repeater, indicator	27.14	
Paid Pike & Heald Co., gaso- line, copper	1.40	
F. O. Pierce Co., vitriol...	34.68	
J. B. Prescott & Son, 50 3-pound zincs	11.50	

Paid Talbot Dyewood & Chemical Co., vitriol.....	\$107.87	
D. B. Varney, zinc castings	282.00	
John B. Varick Co., hardware	75.22	
Washburn & Moen Manufacturing Co., wire.....	216.45	
C. L. Wolf, pipe.....	1.05	
	<hr/>	\$1,171.07

SUNDRIES.

Paid W. B. Corey, drawing poles	\$3.50	
H. F. W. Little, filing saws	.35	
J. B. McCrillis & Son, repairing and altering wagon	86.00	
Sanborn Carriage Co., sharpening bar, welding bit	1.45	
Union Manufacturing Co., plating pliers	3.95	
John W. Wilson, freight and cartage	18.53	
	<hr/>	\$113.78
Total expenditures		\$1,917.35
Transferred to reserved fund.....		82.65
		<hr/>
		<u>\$2,000.00</u>

Hydrant Service.

Appropriation	<u>\$17,175.00</u>
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EXPENDITURES.

Paid water-works, rent of 687 hydrants....	<u>\$17,175.00</u>
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Police Department. -- Station.

Appropriation	<u>\$2,800.00</u>
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EXPENDITURES.

SERVICES.

Paid Frank P. Wiggin, janitor.....	\$642.25
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WATER, GAS, ELECTRIC LIGHTS, FUEL.

Paid L. B. Bodwell & Co., 107,- 260 lbs. coal.....	\$280.12	
People's Gas-Light Co., gas	63.14	
D. M. Poore, wood.....	31.25	
E. V. Turcotte, 41 tons, 1,505 lbs. coal.....	271.40	
Union Electric Co., elec- tric lights	574.21	
water-works, use of water	338.79	
J. F. Wyman, 2 tons coal	13.00	
	<hr/>	\$1,571.91

LAUNDRY, ETC.

Paid Clark M. Bailey, brooms, mops, toilet paper, mop waste, etc.....	\$21.83
The Daniels-Cornell Co., matches	2.75
Griffin Brothers, soapine..	6.50
Mrs. A. M. George, wash- ing floors, etc.....	68.10
James W. Hill Co., crash	4.88
J. S. Holt & Co., soap.....	8.00
J. N. Lacourse & Co., soap	1.00
John Morley, cleaning paint	17.50

Paid John B. Varick Co., mop waste, brooms, duster, etc.	\$7.60	
J. H. Wiggin & Co., soap, matches, paper	13.75	
Mrs. J. F. Wiggin, wash- ing towels, blankets, etc.	63.85	
	<hr/>	\$215.76

SANITARY.

Paid C. W. Lerner, disinfect- ant	\$25.00	
F. H. Thurston, Germol, etc.	18.25	
	<hr/>	\$43.25

REPAIRS, ETC.

Paid L. M. Aldrich, lumber and labor	\$20.71	
John Driscoll Co., repair- ing ash barrel.....	1.50	
Thomas A. Lane Co., re- pairing gas pipe.....	.20	
Pike & Heald Co., globes, pipe, repairs	4.46	
Leander Pope, repairing bunk chains, etc.....	8.59	
John B. Varick Co., hard- ware	3.19	
	<hr/>	\$38.65

SUNDRIES.

Paid T. F. Fifield, oil.....	\$0.60	
Charles A. Hoitt & Co., spring for chair.....	2.25	
David Labell, labor.....	1.00	

Paid Manchester Coal & Ice Co., ice from July to Oct. 20	\$8.90	
Joseph Quirin, 1 barrel crackers	2.00	
		<u>\$14.75</u>
Total expenditures		<u>\$2,526.57</u>
Transferred to reserved fund.....		273.43
		<u><u>\$2,800.00</u></u>

Police Department. -- Court.

Appropriation	<u>\$3,900.00</u>
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EXPENDITURES.

SERVICES.

Paid John C. Bickford, clerk..	\$600.00	
Isaac L. Heath, police justice	1,500.00	
George Prescott, associ- ate justice	300.00	
		<u>\$2,400.00</u>

CONVEYING PRISONERS.

Paid Healy and Cassidy.....	\$781.00
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PRINTING AND STATIONERY.

Paid A. S. Campbell & Co., printing civil dockets, etc.	\$99.50	
The John B. Clarke Co., 3,000 writs	12.00	
Temple & Farrington Co., books and stationery ..	6.15	
		<u>\$117.65</u>

SUNDRIES.

Paid M. J. Healy, cash paid for witness fees, etc.	\$332.29
Total expenditures	<u>\$3,630.94</u>
Transferred to reserved fund.....	269.06
	<u><u>\$3,900.00</u></u>

Police Department.-- Commission.

Appropriation	\$38,000.00	
Transferred from reserved fund	584.90	
	<u> </u>	<u><u>\$38,584.90</u></u>

EXPENDITURES.

SERVICES.

Paid Michael J. Healy, chief of police	\$900.00	
John F. Cassidy, deputy chief	800.00	
Harry Loveren, chairman of commission, salary..	150.00	
N. S. Clark, commissioner, salary	100.00	
F. P. Carpenter, commissioner, salary	100.00	
A. B. Brown, police matron	418.00	
regular patrol	22,133.95	
extra time of regular patrol	801.15	
special patrol	10,567.12	
	<u> </u>	<u><u>\$35,970.22</u></u>

POLICE COMMISSION.

625

FEEDING PRISONERS.

Paid Diet Kitchen.....	\$222.40	
Hannah Green	41.80	
W. D. Ladd & Co.....	21.07	
Paris & Tremblay.....	5.50	
Joseph Quirin	2.48	
	<hr/>	\$293.25

PRINTING AND STATIONERY.

Paid The John B. Clarke Co., printing envelopes, let- ter headings, blanks, etc.	\$34.75	
E. R. Coburn Co., blotting paper	6.75	
Clark & Estey, pens and paper	1.50	
W. P. Goodman, books and stationery	46.49	
Star Stamp Co., 1 stencil	.54	
Temple & Farrington Co., books, paper	4.05	
	<hr/>	\$94.08

PATROL SYSTEM EXPENSES.

Paid A. F. Abbott, V. S., at- tendance and medicine	\$2.25
Adams Brothers, straw, salt, etc.	11.10
Samuel Adams, labor on wires	20.00
W. H. Adams, strap and snap	1.10
The Fred Allen Co., har- ness-dressing	8.00

Paid Automatic Time Stamp & Register Co., time stamp ribbons	\$4.00
Gordon Burnham Battery Co., glass cells.....	44.00
E. M. Bryant & Co., sup- plies	7.12
W. B. Corey, trucking pole	2.00
Daniel Cronin, hay.....	60.26
A. L. Dodge, V. S., sewing wound	1.50
Paid George A. Durgin:	
Repairs, etc., patrol wagon...	35.00
Repairs and painting ambu- lance	74.00
Paid George Dunnington, rope, blankets, collar, repairs	14.50
Richard Ebbitt, V. S., at- tendance and medicine	7.50
Paid A. Filion:	
1 2-seated sleigh.....	140.00
Repairing wagon	5.75
Paid Freeman & Merrill, oats, corn, feed	33.10
Gage & McDougall, oats..	12.00
A. H. Hill, oats.....	11.00
The Head & Dowst Co., labor	3.56
J. Hodge, 50 arms and labor	19.30
Peter Harris, repairing harness	1.50
Mahaney & McSweeney, shoeing horse .....	.65

Paid C. H. Morse, expert service, drawing specifications, etc.	\$107.00	
Paid Municipal Signal Co.:		
Supplies	16.50	
1 automatic register.....	250.00	
Paid New England Telephone & Telegraph Co.:		
Rent of private line and instruments	234.00	
27 6-pin cross arms.....	6.75	
Paid Pulsifer, Cook & Co., register paper	21.99	
Pettingell-Andrews Co., electrical supplies	140.22	
Perkins & Franks, electrical material	9.44	
Partridge Brothers, hay, straw, etc.....	155.21	
Charles E. Perry & Co., register paper	21.61	
Sanborn Carriage Co., repairs	18.20	
Paid N. J. Whalen:		
Stock food	4.50	
Repairing harnesses, etc.....	44.65	
Paid T. J. Wiggin, hay.....	20.40	
J. F. Woodbury Co., horse shoeing	51.12	
Paid Zeigler Electric Co.:		
Labor and material putting police movements in first-class order	11.40	
Repairs	8.57	
	<hr/>	\$1,640.75

HARDWARE AND REPAIRS.

Paid J. J. Abbott, paint and setting glass	\$21.86	
L. M. Aldrich, lumber and labor	33.21	
James Baldwin Co., 100 pins	1.00	
S. C. Forsaith Machine Co., stock and labor...	35.46	
A. L. Franks & Co., electrical supplies	4.28	
George Holbrook, lumber and labor	9.75	
Kimball & Hobbs, rubber tubing and washers....	4.90	
Thomas A. Lane Co., plumbing material, labor, etc.	11.75	
Manchester Hardware Co., hardware	6.78	
Pope & Trudell, repairing chains, etc.	1.00	
John B. Varick Co., hardware	64.09	
	<hr/>	\$194.08

TELEPHONE AND TELEGRAPH.

Paid New England Telephone & Telegraph Co., use of telephones	\$286.83	
Western Union Telegraph Co., telegrams	12.25	
	<hr/>	\$299.08

SUNDRIES.

Paid L. W. Colby, photographing criminals	\$47.00	
H. P. Diamond, labor as lineman	19.00	
John B. Hall, medicine...	2.40	
Charles A. Hoitt & Co., 1 chair and cushion.....	8.00	
J. J. Holland, medicine, etc.	6.80	
John P. Lovell Arms Co., 3 handcuffs	7.00	
H. C. Wallace, photographs	2.00	
J. W. Wilson, trucking...	1.24	
		<u>\$93.44</u>
Total expenditures		<u><u>\$38,584.90</u></u>

Repairs of Buildings.

Appropriation	\$3,000.00	
Transferred from reserved fund	1,531.07	
		<u><u>\$4,531.07</u></u>

EXPENDITURES.

LABOR.

Paid labor of men, as per pay-roll, division No. 2:		
January	\$24.00	
February	30.00	
		<u>\$54.00</u>

CITY LIBRARY.

Paid George W. Hamlin, painting, varnishing	\$39.24	
Thomas A. Lane Co., material and labor.....	.60	
Joseph St. Laurent, lumber and labor.....	22.04	
Pike & Heald Co., material and repairs.....	6.78	
C. L. Wolf, plumbing material and labor.....	5.76	
	<hr/>	\$74.42

POLICE STATIONS.

Paid J. R. Carr Co., painting and glazing	\$66.37	
W. M. Darrah & Co., repairing roof	28.46	
J. B. Huntley, labor on closet .....	.50	
Thomas A. Lane Co., labor on water pipe and closet	7.22	
Joseph St. Laurent, material and labor	18.95	
Paid Shirley & Smith:		
Kalsomining and patching...	55.00	
Pointing brick work.....	11.60	
Paid C. L. Wolf, 1 sink and setting up	6.75	
	<hr/>	\$194.85

ENGINE-HOUSES.

Paid J. J. Abbott, glass and setting same, sundry houses....	\$7.55
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Paid James R. Carr Co.:	
Paper, paper hanging, molding, etc.	\$309.50
Painting and glazing.....	16.61
Paid The Head & Dowst Co.,	
lumber and labor.....	4.49
J. B. Huntley, plumbing material and labor, sundry houses	385.34
C. E. Palmer, solder, pipe, labor	3.85
Perkins & Franks, electric bell	4.00
Pike & Heald Co., plumbing material and labor, sundry houses	26.50
C. H. Robie Co., concreting	8.36
Joseph St. Laurent, lumber, etc., and labor, sundry houses	645.99
Thomas Smith, lumber and labor	257.26
W. H. Tebbetts, painting and papering	99.49
C. L. Wolf, plumbing material and labor.....	99.42
John B. Varick Co., hardware	54.29
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	\$1,922.65

COURT HOUSE.

Paid D. E. Guiney, repairing water-closet	\$1.50
Joseph St. Laurent, lumber and labor.....	19.67

Paid John B. Varick Co., grass seed, brooms	\$10.20	
C. L. Wolf, plumbing ma- terial and labor.....	99.82	
	<hr/>	\$131.19

SCHOOLS.

Paid Bobrick School Furniture Co., 48 No. 2 desks and seats	\$160.80	
Warren Harvey, 1 step, Parker school	20.00	
Paid The Head & Dowst Co.:		
Gilding letters	8.50	
Teaming, labor	18.61	
Paid J. B. Huntley, 1 vent cap	.45	
Paid Joseph St. Laurent:		
6 posts	12.00	
100 tree boxes.....	150.00	
Paid C. A. Trefethen, 1 clock...	3.50	
C. L. Wolf, labor on gas- lights, etc., Webster- street school	40.95	
	<hr/>	\$414.81

SUNDRIES.

Paid F. W. Blood Roofing Co., repairing roof, etc.....	\$6.35	
James R. Carr Co., paper, paper hanging, etc., city tenements	16.40	
Joseph St. Laurent, lum- ber, labor	3.64	
Lovejoy & Stratton, care city clocks	470.25	
C. H. Simpson, use of hacks	95.00	

Paid C. A. Trefethen, care of city clocks	\$89.00	
C. L. Wolf, plumbing re- pairs	16.45	
	<hr/>	\$697.09
Total expenditures		\$3,489.01
Transferred to new account.....		1,042.06
	<hr/>	<hr/>
		\$4,531.07

New Schoolhouses.

Balance from last year unex- pended	\$52,152.86	
Transferred from reserved fund	2,599.89	
	<hr/>	\$54,752.75

EXPENDITURES.—HIGH SCHOOL.

ARCHITECT.

Paid W. M. Butterfield.....	\$1,757.90
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CONTRACT.

Paid The Head & Dowst Co.:	
Balance due	\$35,750.00
Extras	1,471.71
Curbing around lot.....	2,253.00
Resetting curbing and one additional piece	55.25
Paid Ames Manufacturing Co., 2 bronze tablets.....	275.00
Bobrick School Furniture Co., 480 desks and seats	2,232.00
Edward Hodgkinson, grad- ing grounds	295.00

Paid Perkins & Franks, electric apparatus	\$892.90	
C. H. Robie Co., concreting	985.14	
C. A. Hoitt & Co., furniture	813.58	
Paid Thomas A. Lane Co.:		
Heating, balance due.....	3,635.00	
Extras	66.36	
	<hr/>	\$48,724.94

SUNDRIES.

Paid Mrs. B. Abbott, labor....	\$6.60
Paid O. G. Brown:	
808 loads loam.....	1,212.00
40 loads clay.....	40.00
Paid The John B. Clarke Co., advertising 8 lines 5 times	1.00
Mrs. Delaney, labor.....	2.25
Jones & Co., paint.....	10.30
Kimball & Hobbs, hose, etc.	31.22
Mrs. B. E. Landers, labor	8.10
John L. Morley, labor....	42.45
Paid labor of men, as per pay-roll:	
July	105.77
August	25.03
September	36.15
Paid Vedal Nadeau, labor grading	7.65
John B. Varick Co., hardware, etc.....	107.54
R. M. West, ladders.....	3.70

Paid Union Publishing Co., advertising notice	\$6.14	
	<u> </u>	\$1,645.90
Total expenditures		\$52,128.74
Transferred to new account.....		2,624.01
		<u> </u>
		<u>\$54,752.75</u>

Parker School Lot.

Transferred from reserved fund by resolution, July 6, 1897.....		\$300.00
		<u> </u>

EXPENDITURES.

Paid Mead, Mason & Co.:		
Concreting	\$237.74	
Grading	50.00	
	<u> </u>	
Total expenditures		\$287.74
Transferred to reserved fund.....		12.26
		<u> </u>
		<u>\$300.00</u>

Water-Works.

Balance from last year unexpended	\$17,387.36	
Cash received from water rents	125,719.17	
Premium on bonds sold.....	6,248.00	
	<u> </u>	
		\$149,354.53
		<u> </u>

EXPENDITURES.

LABOR.

Paid labor of men, as per pay-roll:		
January	\$1,296.32	
February	1,483.84	

March	\$1,228.20	
April	1,786.04	
May	2,701.56	
June	3,193.67	
July	2,277.39	
August	2,276.29	
September	2,805.69	
October	2,480.44	
November	2,705.01	
December	2,259.96	
	<hr/>	\$26,494.41
Paid labor of men, as per pay-roll, division		
No. 2:		
January	\$274.68	
April	1,043.90	
May	321.10	
August	2,143.50	
September	20.00	
	<hr/>	\$3,803.18
Paid E. A. G. Holmes.....		255.55

GENERAL EXPENSE.

Paid F. W. Elliott, dinners, annual inspection	\$19.25
W. C. Clarke, 12 meetings of board	48.00
Paid Henry Chandler:	
14 meetings of board.....	56.00
Clerk	100.00
Paid Alpheus Gay, 26 meetings of board	104.00
Charles H. Manning, 13 meetings of board.....	52.00
Charles T. Means, 13 meetings of board	52.00

Paid Harry E. Parker, 13 meetings of board.....	\$52.00	
A. C. Wallace, 14 meetings of board	56.00	
Paid C. K. Walker:		
Salary as superintendent....	1,999.93	
Gas	23.83	
Express and telegrams.....	15.60	
Postage	24.20	
Electric light	1.69	
Sundries	12.95	
	<hr/>	\$2,617.45

PRINTING AND STATIONERY.

Paid T. S. Buck, stamp, pad, ink	\$0.76	
A. S. Campbell & Co., printing 18,800 notices	24.00	
Paid The John B. Clarke Co., printing:		
1,000 postals	11.50	
19,500 bills	35.00	
1,000 half-letter heads.....	4.00	
650 reports	64.80	
5 plates and inserting.....	20.00	
Cut	7.00	
Advertising, 1 line 29 times..	7.55	
Repairing and binding book	4.90	
Paid E. R. Coburn Co., stationery	18.45	
Temple & Farrington Co., blank book	14.75	
Union Publishing Co., advertising 1 line 27 times	7.25	
	<hr/>	\$219.96

TEAMS, TELEPHONE, FUEL.

Paid L. B. Bodwell & Co.:	
Wood	\$5.00
Coal	286.01

Paid F. X. Chenette, use of barge	\$6.00	
W. E. Dunbar & Son, pine wood .....	.25	
C. S. Fifield, use of team..	2.00	
Paid E. T. James, use of teams	33.50	
New England Telephone & Telegraph Co., use of telephone	144.00	
John L. Proctor, wood....	7.50	
J. A. & A. W. Walker, 290 tons, 1,130 lbs. coal....	868.95	
Whitten & Fifield, use of team	2.00	
J. F. Wyman, wood.....	6.00	
G. W. Whitford, wood...	2.00	
	<hr/>	\$1,363.21

LAND.

Paid Charles H. Bartlett, land as per deed.....	\$650.00	
R. J. Barry, land as per deed	150.00	
Frank W. Elliott, land and buildings as per deed...	2,500.00	
Martha D. Gould, land and buildings as per deed..	600.00	
Luther S. Proctor, land and buildings as per deed	600.00	
Mary O. Pierce, land as per deed	1,400.00	
Fred Whittaker, land and buildings as per deed..	300.00	
George Young, land as per deed	250.00	
	<hr/>	\$6,450.00

LEGAL SERVICES.

Paid Drury & Peaslee, legal services	\$311.70	
Dana W. King, recording deeds	7.62	
Joseph A. Hutchinson and others, costs in land damage suit	484.38	
William Morrill, recording deeds	9.80	
	<hr/>	\$813.50

HARDWARE, BLACKSMITHING, FREIGHT.

Paid Boston & Maine Railroad, freight	\$575.77	
Cressey & Colby, sharpening tools, etc.....	369.98	
James Cram, repairing picks, etc.	5.01	
Amos Latouche, teaming wood	24.00	
Manchester Hardware Co., hardware	70.86	
John L. Proctor, drawing 53 tons coal.....	21.20	
John B. Varick Co., hardware	508.24	
	<hr/>	\$1,575.06

SUPPLIES.

Paid Adams Brothers:	
Cement	\$47.80
Hay and salt.....	2.03
Paid Boston Lead Manufacturing Co., solder and lead pipe	49.76

Paid Boston Belting Co.:	
Hose and couplings.....	\$30.94
Packing	16.91
Paid Builders' Iron Foundry,	
sleeves, bends, branches, etc.	365.75
Paid Chapman Valve Manufac-	
turing Co.:	
Gates	380.28
10 hydrants	283.50
1 spindle	2.39
Paid Chadwick Lead Works:	
300 pigs lead.....	1,022.31
Reel and pipe.....	32.61
Paid P. C. Cheney Co., wiping	
waste	54.15
A. N. Clapp, oil.....	40.80
Coffin Valve Co., 5 gates..	75.00
Dickey & Coleman, 21	
cords, 7 $\frac{3}{4}$ feet manure..	131.80
W. E. Dunbar & Son, 75	
loads filling	25.00
Edson Manufacturing Co.,	
pump heads, dia-	
phragms, etc.	18.25
S. C. Forsaith Machine	
Co., flue cleaner	1.88
Garlock Packing Co., pack-	
ing	28.12
Hays Manufacturing Co.,	
stop boxes, rods, etc....	416.25
Hersey Manufacturing	
Co., meters	455.35
Paid The Head & Dowst Co.:	
Brick	70.20
Cement	5.00

Paid J. Hodge:	
300 meter boxes.....	\$90.00
Lumber	6.07
Paid C. A. Hoitt & Co., chim-	
neys	1.00
Ingersoll-Sergeant Drill	
Co., wire, battery, etc.	25.14
C. M. Kemp Manufactur-	
ing Co., guides for No. 1	
stock .....	.37
Kimball & Hobbs, 25 rub-	
ber gaskets	3.75
Thomas A. Lane Co.,	
valves, unions, gaskets,	
etc.	192.43
Ludlow Valve Manufac-	
turing Co., valves.....	292.30
Leonard & Ellis, machine	
oil	133.28
Lead Lined Iron Pipe Co.,	
pipe and couplings.....	991.82
H. J. Lawson, copper....	2.60
Manchester Locomotive	
Works, manhole covers,	
sleeves, plates, etc.....	788.10
National Meter Co., meters	1,497.70
Neptune Meter Co., me-	
ters, etc.	344.50
Newark Brass Works,	
cocks, feed screws, etc.	556.40
New England Water Pipe	
Co., nips, ells, couplings	119.70
Norwood Engineering Co.,	
hydrants, etc.	662.00
Pike & Heald Co., pipe, etc.	19.01

Paid Rensselaer Manufacturing Co., 10 gates.....	\$115.00	
Richards & Co., 250 pigs lead	686.12	
I. F. Sturtevant, lumber..	239.87	
Thomson Meter Co., meters, etc.....	227.15	
Union Water Meter Co., meters, etc.....	1,174.05	
Vacuum Oil Co., cylinder oil	87.76	
George R. Vance, 6 pails..	6.00	
Walworth Manufacturing Co., screws and gear...	.67	
George Woodman & Co., couplings, nips, etc....	56.00	
W. A. Wood & Co., waste	14.11	
Henry R. Worthington, shaft, jacket elbows....	4.77	
McNeal Pipe & Foundry Co., pipe.....	8,806.07	
	<hr/>	\$20,699.82

REPAIRS.

Paid Amoskeag Manufacturing Co., repairs on wagon..	\$3.75
American Steam Gauge Co., repairing gauge, etc.	2.40
E. M. Bryant & Co., electrical supplies and labor	2.34
Crosby Steam Gage & Valve Co., repairing gage	3.50
W. M. Darrah & Co., slating material and labor	8.64

Paid Hersey Manufacturing Co., repairing meters...	\$12.65	
The Head & Dowst Co., lumber and labor.....	12.50	
George F. Higgins, concreting	25.00	
J. Hodge, lumber and labor	4.10	
Thomas A. Lane Co., labor on electric lights.....	2.00	
Manchester Locomotive Works, material and labor on gears, bolts, valves, etc.....	97.49	
National Meter Co., repairing meters	74.40	
C. H. Robie Co., repairing roadways	84.35	
Thomson Meter Co., repairing meters	3.80	
Union Water Meter Co., repairing meters	42.20	
George R. Vance, tin, pipe, and labor	30.78	
	<hr/>	\$409.90

SUNDRIES.

Paid town of Auburn, taxes on land and buildings....	\$178.48
Warren Brown, services and expenses, land cases	61.25
Dudley & Doherty, engineering	18.00
F. L. Follansbee, moving building	20.00

Paid J. Gott, cleaning vault...	\$3.00	
New Hampshire Insurance Co., insurance on Hunter buildings, 3 years	25.00	
Joseph B. Sawyer estate, labor surveying	49.50	
sinking fund commissioners, hydrant rentals....	17,175.00	
George L. Tatro, use of steamboat	10.00	
George W. Townsend, services of diver, and expenses caulking pipe...	46.70	
	<hr/>	\$17,586.93
Total expenditures		\$82,288.97
Transferred to interest account.....		40,414.00
Transferred to new account.....		26,651.56
		<hr/>
		<u>\$149,354.53</u>

Pine Grove Cemetery.

Appropriation	<u>\$8,500.00</u>
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EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll:	
January	\$148.76
February	193.20
March	149.26
April	277.26
May	379.37
June	619.31

PINE GROVE CEMETERY.

645

July	\$509.23	
August	667.59	
September	672.84	
October	464.26	
November	370.70	
December	184.87	
	<hr/>	\$4,636.65
Paid Charles Cameron	\$9.37	
Mark Harvey	4.00	
C. Henderson	6.75	
	<hr/>	\$20.12

PLANTS, SHRUBS, LOAM, ETC.

Paid A. H. Chadbourne, ornamental shrubs	\$25.80	
James A. Colby, 271 loads loam	406.50	
Frank Goings, 37 loads loam	37.00	
A. G. Hood, plants, etc...	140.45	
Luke Brothers Co., rose bushes and shrubs.....	30.00	
Manchester Slaughtering & Rendering Co., fertilizer	20.00	
Manchester Street Railway, 2,170 loads gravel	138.50	
Agnes Phillips, 104 loads loam	119.00	
Milton K. Putney, 145 loads loam	217.50	
C. C. Webster, 368 loads clay	368.00	
estate of C. C. Webster, 160 loads clay and loam	223.50	
	<hr/>	\$1,726.25

WATER, TELEPHONE, INSURANCE, FUEL.

Paid L. B. Bodwell & Co., 2 tons coal	\$14.00	
A. Elliott & Co., premium on insurance policy....	2.50	
Manchester Coal & Ice Co., 1 ton coal.....	7.00	
New England Telephone & Telegraph Co., use of telephones	85.05	
water commissioners, use of water	347.25	
R. E. Wilson, coal.....	14.00	
	<hr/>	\$469.80

PRINTING AND STATIONERY.

Paid The John B. Clarke Co., printing:		
1 blank book.....	\$2.25	
Receipts, blanks, bills bound	40.00	
Paid W. P. Goodman, station- ery	6.70	
E. J. Knowlton, P. M., stamped envelopes	4.36	
W. E. Moore, printing cards	1.50	
	<hr/>	\$54.81

REPAIRS AND IMPROVEMENTS.

Paid J. J. Abbott, paint, letter- ing, etc.	\$21.79
L. M. Aldrich, lumber and labor	102.68
Frank S. Bodwell, labor of men	14.50
John Driscoll Co., dippers	2.10

Paid Richard Evans, white- washing and patching ceilings	\$7.45	
Freeman & Merrill, cement	2.60	
Hartwell Foundry Co., 402 lot markers	60.30	
The Head & Dowst Co., lumber, etc.	7.16	
J. Hodge, lumber and labor	27.48	
C. H. Hutchinson, labor on fence	3.60	
Thomas A. Lane Co., plumbing material and labor	26.14	
Pike & Heald Co., labor and material	4.27	
C. H. Robie Co., concret- ing	740.63	
Morton E. Sanborn, 12 sprinklers	8.00	
John B. Varick Co., tools and hardware	98.80	
	<hr/>	\$1,127.50

TEAM EXPENSES.

Paid Adams Brothers, oats....	\$3.69
A. F. Abbott, V. S., pro- fessional services	7.00
C. H. Bodwell, shoeing horse .....	.80
A. L. Dodge, V. S., pro- fessional services	1.00
Thomas Hickey Co., shoe- ing horse	6.75

Paid Partridge Brothers, hay, grain	\$78.50	
B. F. Welch, 1 horse....	100.00	
I. S. York, harness, collar, halter	42.00	
	<hr/>	\$239.74
SUNDRIES.		
Paid Boyd Brothers, use of hack	\$5.00	
E. F. Jones, clerk of trustees one year.....	25.00	
	<hr/>	\$30.00
Total expenditures		<hr/> \$8,304.87
Transferred to reserved fund.....		195.13
		<hr/> <hr/> \$8,500.00

Valley Cemetery.

Appropriation	<hr/> <hr/> \$3,000.00
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EXPENDITURES.

LABOR.

Paid labor of men and teams, as per pay-roll:	
January	\$65.00
February	77.87
March	63.50
April	149.18
May	205.74
June	262.13
July	215.37
August	212.89
September	258.19

VALLEY CEMETERY.

649

October	\$180.90	
November	153.10	
December	76.10	
	<hr/>	\$1,919.97

Paid B. F. Bascomb, team and labor	\$45.00	
William Berwick, team...	4.00	
Frank M. Goings, team and labor	37.20	
	<hr/>	\$86.20

WATER AND TELEPHONE.

Paid New England Telephone & Telegraph Co., use of tel- ephones	\$36.00	
water commissioners, use of water	37.50	
	<hr/>	\$73.50

TURF, LOAM, PLANTS, ETC.

Paid B. F. Bascomb, sand, loam, turf, etc.....	\$62.65	
A. H. Chadbourne, shrubs	2.40	
J. Francis, plants.....	57.00	
Frank M. Goings, loam...	13.00	
A. G. Hood, plants.....	23.95	
J. H. Johnston, loam....	12.50	
John B. Varick Co., seed, etc.	24.31	
	<hr/>	\$195.81

PRINTING AND STATIONERY.

Paid E. J. Knowlton, P. M., stamped envelopes	\$4.35	
Temple & Farrington Co., ink, pens, book, etc....	12.35	
	<hr/>	\$16.70

REPAIRS, TOOLS, IMPROVEMENTS.

Paid The Head & Dowst Co., building wall and fence, per contract	\$436.00	
C. A. Hoitt Co., 9 chairs..	7.47	
Kimball & Hobbs, 2 mats	3.00	
Thomas A. Lane Co., hose washers .....	.75	
Manchester Hardware Co., tools and hardware....	3.70	
Palmer & Garmons, set- ting stones	17.25	
Paid Pike & Heald Co.:		
Iron fence	115.00	
Plumbing material and labor	54.16	
Paid C. H. Robie Co., concret- ing	11.47	
Z. B. Stuart, mason work	12.05	
William Sutcliffe, repair- ing tools .....	.90	
John B. Varick Co., tools and hardware	31.47	
		<u>\$693.22</u>
SUNDRIES.		
Paid Boyd Brothers, use of team	\$2.00	
S. P. Cannon, clerk for sub-trustees	10.00	
		<u>\$12.00</u>
Total expenditures		\$2,997.40
Transferred to reserved fund.....		260.00
		<u><u>\$3,000.00</u></u>

Amoskeag Cemetery.

Appropriation	<u>\$350.00</u>
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EXPENDITURES.

LABOR.

Paid James E. Bailey.....	\$36.75	
G. C. Harwood.....	1.50	
R. D. Heath.....	16.50	
A. McGaffey	19.50	
Paid pay-roll, commons:		
July	70.86	
August	108.95	
	<hr/>	\$254.06

SUNDRIES.

Paid J. H. Coburn, 50 loads gravel	\$60.00	
E. T. James, teams.....	3.50	
Manchester Water-Works, use of water.....	12.00	
Palmer & Garmons, set- ting headstones	4.50	
C. H. Simpson, use of team	3.00	
	<hr/>	\$83.00

Total expenditures	\$337.06
Transferred to reserved fund.....	12.94
	<hr/>
	<u>\$350.00</u>

Care of Merrill Yard.

Appropriation	<u>\$100.00</u>
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EXPENDITURES.

LABOR.

Paid Charles Cameron, labor..	\$16.50
Mark E. Harvey, labor...	6.50

Paid Palmer & Garmons, material and labor.....	\$28.53	
Whitten & Fifield, use of teams	6.00	
		<u>\$57.53</u>
Total expenditures		\$57.53
Transferred to reserved fund.....		42.47
		<u>\$100.00</u>

Purchase of Land for West Side Park.

Appropriation	\$12,000.00
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EXPENDITURES.

Paid Edward Wagner	\$12,000.00
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Land in West Manchester.

Appropriation, transferred from reserved fund	\$1,750.00
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EXPENDITURES.

Paid G. F. & E. C. Swift.....	\$1,750.00
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Weston Observatory.

Appropriation, legacy from James A. Weston estate	\$5,000.00
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EXPENDITURES.

CONTRACTS.

Paid Davis & Raynes, plans and specifications	\$91.00
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Paid Warren Harvey, stone work	\$163.75	
Paid The Head & Dowst Co.:		
Building	4,553.00	
Extras	19.24	
	<hr/>	\$4,826.99

SUNDRIES.

Paid J. P. Brown & Co., use of hacks	\$15.00	
The John B. Clarke Co., advertising	13.00	
pay-roll, commons, September	133.50	
Union Publishing Co., advertising	9.45	
	<hr/>	\$170.95
Total expenditures		\$4,997.94
Transferred to reserved fund.....		2.06
		<hr/>
		<u>\$5,000.00</u>

Dedication of Weston Observatory.

Appropriation	<u>\$150.00</u>
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EXPENDITURES.

SUNDRIES.

Paid G. W. Bailey, use of teams	\$10.00
Boyd Brothers, use of teams	5.00
The John B. Clarke Co., programs	4.60
W. J. Freeman, use of teams	10.00

Paid E. T. James, use of teams	\$10.00	
Manchester City Band, music	50.00	
Odd Fellows' Building Association, use of chairs	10.00	
D. A. Simons, use of chairs	8.30	
C. H. Simpson, use of teams	10.00	
A. M. Winchester, dinners, Grand Lodge Masons..	30.00	
	<hr/>	\$147.90
Total expenditures		\$147.90
Transferred to reserved fund.....		2.10
		<hr/>
		<u>\$150.00</u>

Dedication of New High School Building.

Appropriation	<u>\$150.00</u>
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EXPENDITURES.

SUNDRIES.

Paid G. W. Bailey, carriage...	\$5.00
The John B. Clarke Co., printing programs and badges	13.25
W. J. Freeman, carriage..	5.00
E. M. Hawes, trucking chairs	2.00
E. T. James, carriage.....	2.50
W. J. Tucker, services and expenses	50.00

Paid A. M. Winchester, board		
Dr. Tucker and W. W. Colburn	\$7.00	
		<u>\$84.75</u>
Total expenditures		\$84.75
Transferred to reserved fund.....		65.25
		<u><u>\$150.00</u></u>

Paupers off the Farm.

Appropriation	\$10,525.00
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EXPENDITURES.

GROCERIES, MEATS, ETC.

Paid Barlow & Nye.....	\$15.00
Bartlett & Thompson....	40.00
Bessette & Trahan.....	30.00
Burke Brothers	4.00
John F. Cahill.....	81.95
C. H. Clark.....	13.00
A. M. Eastman.....	2.18
E. C. Eastman.....	45.93
Eager & Co.....	30.00
H. Fradd & Co.....	91.41
T. F. Fifield.....	34.93
Carl A. Friborg.....	30.00
Griffin Brothers.....	886.90
A. H. Gray.....	35.00
A. G. Grenier, estate....	7.00
Henry C. Hall.....	7.00
Joseph Huard	166.94
John F. Healy.....	82.00
O. D. Knox & Co.....	154.00
J. N. Lacourse.....	11.00

Paid P. D. Lynch.....	\$203.00	
Lamoreaux Brothers	55.02	
G. C. Lord.....	15.00	
E. Marchand	116.00	
Thomas H. Mahoney.....	100.00	
McQuade's Market	206.90	
A. W. Morse.....	53.00	
Edward F. Murray.....	50.00	
Ulric Messier	45.00	
Noyes & Prince.....	78.26	
F. X. Parent.....	10.00	
E. W. Perkins.....	62.00	
D. M. Poore & Son.....	126.00	
Edmond Pinard	45.00	
O. W. Price.....	10.00	
Eugene Quirin	161.00	
Joseph Quirin ..:.....	31.00	
Paris & Tremblay.....	18.00	
Queen City Market.....	12.00	
Swinston & Robinson....	12.00	
D. A. Shanahan.....	48.00	
H. A. Tirrell.....	21.00	
Trahan & Co.....	28.00	
J. O. Turcotte.....	20.00	
Moise Verrette	59.90	
Calixte Vigneault	100.00	
Henry Weber	25.00	
		<hr/>
		\$3,659.32

FUEL.

Paid L. B. Bodwell & Co.....	\$18.00
V. Bourque	27.00
Charles Boisclair	39.00
S. A. Blood.....	9.00
Charles Cota	3.00
W. E. Dunbar & Son.....	13.75

Paid Dunlap & Wason Coal Co.	\$7.00
S. C. Forsaith Machine Co.	3.00
Philius Graveline	28.00
S. Lavoie	20.00
David Lovering	3.00
Joseph Masse	10.50
Moore & Preston.....	22.00
John Moss	2.25
John Perham	2.50
D. M. Poore.....	10.00
John P. Russell & Co....	126.75
Louisa Schink	17.25
E. V. Turcotte.....	12.25
J. F. Wyman.....	32.13

\$406.38

BOARD AND CARE AND RENT.

Paid C. M. Bennett.....	\$27.00
county of Hillsborough..	496.94
W. H. Gilmore.....	127.04
Thomas Kelley	7.00
Christina Maycock	33.53
Agnes Massey	32.00
New Hampshire Asylum for Insane	22.56
Notre Dame de Lourdes Hospital	84.00
Napoleon Paris	23.00
Celia H. Pressey.....	57.72
D. L. Robinson.....	15.00
State Industrial School..	2,464.01
St. Patrick's Old Ladies' Home	64.00
St. Patrick Orphans' Home	120.00
St. Mary's Orphans' Home	28.00
Fred Weissbach	104.74
William Whelpley	40.00

\$3,746.54

CLOTHING.

Paid W. H. Cate.....	\$1.00	
Dodge & Straw.....	1.50	
Lightbody & Burbank...	13.60	
H. M. Moody.....	2.00	
John Montplaisir	1.50	
M. A. McDonough.....	2.38	
J. L. Niven.....	3.50	
Michael O'Dowd	7.00	
P. F. O'Toole.....	12.40	
G. L. Robinson.....	3.00	
O. G. Trudeau.....	23.00	
E. C. Wescott.....	3.50	
Weston & Martin.....	1.00	
		<u>\$75.38</u>

MEDICINE, MEDICAL SERVICES, FUNERAL EXPENSES.

Paid D. S. Adams, M. D., assist- ing Dr. Carpenter.....	\$3.00
board of health, medical treatment of isolated children	52.25
Paid F. X. Chenette:	
Burial, Mrs. Blanchard.....	25.00
Burial, Tillie Welcome.....	17.50
Paid Dr. C. F. Flanders, M. D.:	
Examination F. P. Proctor...	3.00
Assisting Dr. Carpenter.....	5.00
Paid John B. Hall, medicine, etc.	132.30
Thomas C. Hill, M. D., assisting Dr. Carpenter	3.00
John Holland, medicine..	3.93
W. B. Mitchell, medicine	4.95
Felix Provencher, burial of child, J. Labonty...	10.00

Paid F. H. Thurston, medicine	\$1.60	
E. V. Turcotte, burial of Mrs. Cote and child....	25.00	
A. F. Wheat, M. D., con- sultation with Dr. Car- penter	3.00	
A. J. Todd, M. D., assisting Dr. Carpenter	3.00	
	<hr/>	\$292.53

SUNDRIES.

Paid Boston & Maine Railroad, railroad tickets, sundry persons	\$38.40	
A. S. Campbell & Co., printing 4,000 billheads	24.75	
Charles B. Clarkson, con- veying sundry persons to insane asylum.....	18.07	
E. R. Coburn Co., rubber bands .....	.50	
The John B. Clarke Co., printing 2,500 blanks...	9.00	
Nate Kellogg Co., printing certificates	4.00	
A. D. Maxwell, wood.....	2.00	
Paid W. H. Maxwell:		
Transportation sundry per- sons to Concord and Gras- mere	9.84	
Postage	1.00	
Paid C. S. McKean, meals for six men	1.50	
	<hr/>	\$109.06
Total expenditures		<hr/> \$8,289.21
Overdraft, Notre Dame de Lourdes Hospital		30.00
Transferred to reserved fund.....		2,205.79
		<hr/> <hr/> \$10,525.00

City Farm.

Appropriation	\$8,000.00	
Transferred from reserved fund	486.55	
		<u>\$8,486.55</u>

EXPENDITURES.

Paid E. G. Libbey, superintendent	\$500.00	
Mrs. Annie Libbey, matron	300.00	
		<u>\$800.00</u>

HOUSE AND FARM LABOR.

Paid labor of men and women, as per pay-roll:

January	\$137.52	
February	181.89	
March	148.99	
April	147.04	
May	146.68	
June	207.96	
July	158.85	
August	209.31	
September	188.49	
October	166.05	
November	206.82	
December	155.78	
		<u>\$2,055.38</u>

Paid labor, as per pay-roll, division No. 2:

February	\$6.34	
April	5.67	
September	8.03	
December	11.63	
		<u>\$31.67</u>

Paid Flora Burpee	\$4.00	
Carrie E. Buck.....	2.25	
Andrew Crother	6.60	
Richard Evans	4.00	
Charles L. Fuller.....	14.67	
Daniel Griffin	10.27	
Maria Leonard	3.43	
Chester Maynard	7.33	
Jerry Mahoney	5.86	
John T. Pitman.....	4.00	
John L. Martin.....	.75	
Jacob Reed	7.33	
Daniel Webster	1.50	
Nellie F. Underwood.....	3.50	
	<hr/>	\$75.49

FUEL.

Paid L. B. Bodwell & Co., 13 tons, 160 lbs. coal.....	\$77.40	
A. W. Prescott, 70 cords wood	210.00	
	<hr/>	\$287.40

CLOTHING, DRY GOODS, ETC.

Paid Allen & Kimball, clothing	\$5.60
Barton & Co., dry goods..	4.74
H. K. Boardman, boots and shoes	40.00
Clark & Estey, stockings	4.25
Cushman & Hardy, shirts, overalls, etc.	20.92
George W. Dodge, boots and shoes	20.65
G. W. Dodge Shoe Co., boots and shoes.....	8.70
F. C. Dow, boots and shoes	10.11

Paid W. P. Farmer, boots and shoes	\$28.22	
Lowell O. Fowler, boots and shoes	12.90	
James W. Hill Co., cambric, cotton, buttons, print, etc.	43.59	
A. & W. S. Heath, boots and shoes'	8.25	
Patrick Kean, dry goods..	27.29	
F. P. Kimball, hose.....	3.00	
Manchester One Price Clothing Co., clothing..	34.25	
Manchester Stocking Co., 5 dozen hose.....	3.25	
William Marcotte & Co., underclothing	26.00	
H. M. Moody, clothing....	18.00	
Miville & Deschenes, dry goods	10.08	
Plumer & Holton, underclothing, hats	28.46	
Robitaille, LaFlamme & Co., mittens, pants.....	10.75	
The Raymond Syndicate, underclothing	6.85	
E. Therien, boots and shoes	7.25	
Weston & Hill Co., dry goods	10.83	
E. C. Wescott, flannel and cotton	14.17	
	<hr/>	\$408.11

MEATS AND PROVISIONS.

Paid Annis Flour & Grain Co.	\$77.35
C. M. Abbott.....	55.95

Paid S. F. Adams.....	\$13.05
Barlow & Nye.....	249.74
Baker & Allen.....	30.20
L. Belli	7.30
Bixby's Market	9.22
G. W. Clark.....	19.62
The Daniels-Cornell Co...	632.56
Dodge & Laing.....	68.41
C. W. Draper.....	1.81
C. H. Durgin.....	2.75
The Granite State Grocery Co.	13.00
Granite State Beef Co...	4.12
Gloucester Fish Market..	2.32
D. Johnson	8.52
W. D. Ladd & Co.....	9.18
Manchester Provision Co.	108.77
Manchester Beef Co.....	52.93
John J. McGovern.....	22.37
E. S. Newton.....	27.38
Parnell Brothers	213.93
Henry W. Parker.....	53.95
Phoenix Market	32.81
D. M. Poore & Son.....	8.59
W. E. Prescott.....	4.90
Joseph Quirin	7.20
W. H. Raymond Grocery Co.	32.86
Tom Robinson	83.98
Summer-street Market...	155.94
Small & Jones.....	18.48
Sears & Co.....	11.40
John E. Towle & Co.....	74.51
J. O. Turcotte.....	23.36
J. H. Wiggin & Co.....	4.01
John M. Woodbridge.....	2.10
	<hr/>
	\$2,144.57

FURNITURE AND KITCHEN UTENSILS.

Paid Clark M. Bailey, tinware, brooms, dusters	\$29.13	
Charles A. Hoitt & Co., crockery, glassware, oil- cloth, paper, etc.	24.83	
R. K. Horne, crockery and tinware	18.61	
Kimball & Hobbs, table oilcloth, etc.	2.25	
J. Y. McQueston Co., 1 chair	7.50	
Paid Pike & Heald Co.:		
Copper kettle	2.25	
Tinware	11.40	
Paid Taggart & Manahan, chairs, crockery	14.36	
	<hr/>	\$110.33

MEDICINE, VETERINARY SERVICES.

Paid A. F. Abbott, V. S., visits and medicine	\$27.60	
A. L. Dodge, V. S., visits	9.50	
Richard Ebbitt, V. S., visits	2.00	
John B. Hall, medicine . . .	9.25	
J. J. Holland, medicine . .	5.30	
A. J. Hedborg & Co., medi- cine	4.45	
E. C. Smith, medicine . . .	1.45	
F. H. Thurston, medicine, etc.	10.30	
Charles A. Williams, medi- cine	5.17	
Weeks & Potter, oil of cedar	4.85	
	<hr/>	\$79.87

BLACKSMITHING, HARNESSES. ETC.

Paid The Fred Allen Co., re- pairing harnesses	\$1.55	
John A. Ballou, blankets	21.00	
George Dunnington, re- pairing harnesses	5.05	
Thomas Hickey Co., horse- shoeing	6.25	
Kimball Carriage Co., robes, collars, bits, soap	58.65	
J. F. Kerwin, blankets, rope ties, etc.	13.50	
The Ranno Harness Co., feed bags	3.30	
J. O. Tremblay, horseshoe- ing	84.40	
N. J. Whalen, repairing harnesses, etc.	22.40	
	<hr/>	\$216.10

CARRIAGE REPAIRS.

Paid Couch & McDonald, re- pairs	\$37.05	
George A. Durgin, repair- ing wagon, etc.	28.64	
J. B. McCrillis & Son, re- pairs	17.08	
James Murphy, painting and varnishing wagon . .	13.00	
Sanborn Carriage Co., re- pairs	9.05	
	<hr/>	\$104.82

HAY, GRAIN, AND OTHER FEED.

Paid Adams Brothers	\$57.55
Cavanaugh Brothers	8.90
Thomas W. Emerson Co.	2.35

Paid Freeman & Merrill.....	\$77.82	
Gage & McDougall.....	49.75	
W. F. Merrill.....	7.20	
C. R. Merrill.....	58.25	
Partridge Brothers	197.85	
	<hr/>	\$459.67

HARDWARE, FERTILIZERS, SEEDS, ETC.

Paid Adams Brothers	\$17.50	
J. J. H. Gregory.....	7.85	
Manchester Hardware Co.	16.64	
John B. Varick Co.....	280.83	
	<hr/>	\$322.82

INSURANCE.

Paid John Dowst, premium on policy	\$17.50	
A. Elliott & Co., premium on policy	35.00	
Jones & Perry, premium on policy	17.50	
Richardson & Goggin, pre- mium on policies.....	52.50	
John A. Sheehan, pre- mium on policies.....	70.00	
	<hr/>	\$192.50

PRINTING, ADVERTISING, STATIONERY, TELEPHONE.

Paid The John B. Clarke Co.:		
Advertising notices	\$0.50	
Printing invitations	5.00	
Paid W. P. Goodman, station- ery	2.30	
New England Telephone & Telegraph Co., use of telephone	44.90	

Paid Novelty Advertising Co., ink, pads, etc.....	\$1.15	
Sampson, Murdock & Co., 1 directory	2.00	
	<hr/>	\$55.85

REPAIRS AND IMPROVEMENTS.

Paid J. J. Abbott, paint and paper	\$31.50	
D. J. Adams, repairing lawn mower	1.00	
Adams Brothers, lime, hair, plaster	4.41	
F. W. Blood Roofing Co., repairing boiler	2.00	
James R. Carr Co., paint, paper, glass	37.64	
Charles I. Earl, repairing sewing machine	3.00	
S. C. Forsaith Machine Co., lumber	49.04	
D. E. Guiney, plumbing material and labor.....	7.15	
Paid The Head & Dowst Co.:		
Lumber and labor.....	25.62	
Posts	10.00	
Paid J. Hodge, lumber and labor	19.37	
Thomas A. Lane Co., pipe and labor on tank.....	8.51	
Pike & Heald Co., mate- rial and labor.....	28.03	
C. A. Trefethen, repairing clock .....	.75	
C. L. Wolf, range linings and grate, and labor ad- justing same	16.67	
	<hr/>	\$244.69

SUNDRIES.

Paid Boston & Maine Railroad, freight	\$2.52	
L. B. Bodwell & Co., ice and cutting ice.....	10.00	
George W. Bailey, use of hack	5.00	
Paid Cavanaugh Brothers:		
Pair horses	\$300.00	
Discount	50.00	
	<hr/>	
	\$250.00	
Bay horse at auction	51.00	
	<hr/>	
	\$199.00	
Commission	5.10	
	<hr/>	204.10
Paid John S. Cole, use of pas- ture in Auburn.....	45.00	
A. N. Clapp, kerosene....	41.70	
The Daniels-Cornell Co., soap	24.68	
Perry H. Dow, 1 Jersey bull	12.00	
W. J. Freeman, use of hack	5.00	
Charles S. Fifield, use of hacks	10.00	
William Hayes, cider bar- rels	8.75	
A. H. Hill, grinding corn, etc.	174.83	
Kimball & Hobbs, shoe- makers' supplies	3.88	
Paid E. G. Libbey, cash paid:		
Return of escaped prisoners..	20.49	

Postoffice box rent.....	\$6.00	
“Daily Mirror,” one year....	5.00	
Paid C. W. Lerner & Co., disinfectant	12.50	
Manchester Mills, cotton waste	1.02	
Manchester Slaughtering & Rendering Co., oil and hogs dressed	4.50	
J. J. McGovern, soap and oil	9.60	
John T. Pitman, 1 gander	1.50	
Felix Provencher, use of hacks	5.00	
Quirin & Duhaime, 3 barrels	5.00	
L. P. Reynolds, tobacco...	12.58	
C. H. Simpson, use of hacks	15.00	
R. G. Sullivan, tobacco and pipes	10.54	
J. O. Turcotte, tobacco...	33.21	
water-works, use of water	177.90	
Whitten & Fifield, use of teams	17.00	
Paid Gordon Woodbury:		
Making cider	7.94	
Grinding corn	5.04	
		<u>\$897.28</u>
Total expenditures		<u><u>\$8,486.55</u></u>

Indigent Soldiers.

Appropriation	<u><u>\$300.00</u></u>
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EXPENDITURES.

GROCERIES.

Paid T. F. Fifield.....	\$20.00	
E. Marchand.....	15.00	
E. F. Murray.....	4.00	
D. M. Poore & Son.....	70.00	
	<hr/>	\$109.00

FUEL.

Paid S. C. Forsaith Machine Co.	\$2.50	
D. M. Poore.....	7.00	
C. E. Pollard.....	6.00	
	<hr/>	\$15.50

BOARD AND CARE.

Paid Mrs. Thomas McGrath...	\$32.00	
Celia H. Pressey.....	8.00	
	<hr/>	\$40.00

MEDICINE, ETC.

Paid J. J. Holland.....	\$12.99	
Edward C. Smith.....	4.25	
	<hr/>	\$17.24

Total expenditures		\$181.74
Transferred to reserved fund.....		118.26
		<hr/>
		\$300.00
		<hr/> <hr/>

Women's Aid Home.

Appropriation		\$300.00
		<hr/> <hr/>

EXPENDITURES.

Paid Women's Aid Home, appropriation for free beds.....		\$300.00
		<hr/> <hr/>

DECORATION OF SOLDIERS' GRAVES.

671

Free Beds, Elliot Hospital.

Appropriation \$300.00

EXPENDITURES.

Paid A. M. Heard, treasurer, amount appropriated \$300.00

Emergency Ward, Elliot Hospital.

Appropriation \$300.00

EXPENDITURES.

Paid Cora M. Dearborn, treasurer, amount appropriated \$300.00

Sacret Heart Hospital.

Appropriation \$300.00

EXPENDITURES.

Paid Sacred Heart Hospital, amount appropriated \$300.00

Notre Dame de Lourdes Hospital.

Appropriation \$300.00

EXPENDITURES.

Paid Notre Dame de Lourdes Hospital, amount appropriated \$300.00

Decoration of Soldiers' Graves.

Appropriation \$400.00

EXPENDITURES.

Paid Louis Bell Post No. 3, G. A. R., expenses incurred Memorial Day.....	\$399.51
Total expenditures	<u>\$399.51</u>
Transferred to reserved fund.....	.49
	<u><u>\$400.00</u></u>

Militia.

Appropriation	<u><u>\$1,000.00</u></u>
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EXPENDITURES.

Paid Amoskeag Veterans.....	\$100.00
Co. C, First Regiment	
N. H. N. G.....	100.00
Co. F, First Regiment,	
N. H. N. G.....	100.00
Co. H, First Regiment,	
N. H. N. G.....	100.00
Co. L, First Regiment	
N. H. N. G.....	100.00
First Regiment Band.....	100.00
Joseph Freschl Post, G.	
A. R.....	100.00
Louis Bell Post No. 3, G.	
A. R.....	100.00
Manchester War Veterans	100.00
Manchester Cadets	100.00
	<u>\$1,000.00</u>

Band Concerts.

Appropriation	<u><u>\$300.00</u></u>
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EXPENDITURES.

Paid First Regiment Band....	\$150.00	
Manchester City Band....	150.00	
	<u> </u>	<u>\$300.00</u>

Semi-Centennial History.

Appropriation		<u>\$600.00</u>
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EXPENDITURES.

Paid Herbert W. Eastman.....		<u>\$600.00</u>
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Abatement of Taxes.

Appropriation		<u>\$2,000.00</u>
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EXPENDITURES.

Paid sundry persons, on taxes abated.....		<u>\$1,452.43</u>
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Total expenditures		\$1,452.43
Transferred to reserved fund.....		547.57

\$2,000.00

State Tax.

Appropriation		<u>\$68,225.00</u>
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EXPENDITURES.

Paid Solon A. Carter, state treasurer.....		\$68,225.00
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County Tax.

Appropriation		<u>\$66,204.72</u>
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EXPENDITURES.

Paid Hillsborough county		<u>\$66,204.72</u>
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Resolution Raising Money and Making Appropriations for the Year One Thousand Eight Hundred and Ninety-Seven.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the sum of six hundred and thirty thousand dollars (\$630,000) be raised for the use of the city for the year one thousand eight hundred and ninety-seven (1897) by tax on the polls and estates liable to be taxed thereon, which sum, together with such unappropriated money as may be now in the city treasury, or may hereafter come into it, shall be appropriated as follows, viz.:

CENTRAL DEPARTMENT.

Interest	\$47,500.00
Reserved fund.....	10,000.00
City hall expenses.....	4,000.00
Printing and stationery.....	2,000.00
Incidental expenses.....	12,000.00
Mayor's incidentals.....	300.00
City officers' salaries.....	18,000.00
Sinking fund.....	27,000.00
Payment of funded debt.....	35,000.00
Auditor's department, salaries, and expenses....	2,000.00

STREET AND SEWER DEPARTMENT.

Paving Elm and Granite streets.....	\$10,000.00
Rebuilding Amoskeag bridge abutment.....	4,700.00
Board of street and park commissioners, salaries and expenses.....	3,600.00
Repairs of highways.....	20,000.00
Building new highways.....	5,000.00
Land taken for new highways.....	5,000.00
Watering streets.....	5,000.00
Paving streets.....	5,000.00
Macadamizing streets.....	15,000.00

APPROPRIATIONS.

675

Grading for concrete.....	\$5,000.00
Scavenger teams.....	16,000.00
Street sweeping.....	3,000.00
Lighting streets.....	55,000.00
Repairs of bridges.....	4,000.00
City teams.....	6,500.00
Repairs of sewers and drains.....	5,000.00
New sewers.....	40,000.00
Removal of snow and ice.....	4,000.00

ENGINEER'S DEPARTMENT.

Salaries and expenses.....	\$4,500.00
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HEALTH DEPARTMENT.

Salaries and expenses.....	\$4,400.00
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SCHOOL DEPARTMENT.

Repairs of schoolhouses.....	\$3,000.00
Fuel.....	8,000.00
Furniture and supplies.....	2,000.00
Books and stationery.....	100.00
Printing and advertising.....	300.00
Contingent expenses.....	1,700.00
Care of rooms.....	6,000.00
Evening schools.....	1,500.00
Teachers' salaries.....	74,000.00
Evening school, mechanical drawing.....	400.00
Free text-books.....	5,000.00
Manual training.....	1,500.00

CITY LIBRARY.

Salaries and expenses.....	\$4,500.00
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FIRE DEPARTMENT.

Salaries and general expenses.....	\$61,000.00
Fire-alarm telegraph.....	2,000.00
Hydrant service.....	17,175.00

POLICE DEPARTMENT.

Salaries and expenses of commission and force..	\$38,000.00
Expenses of court.....	3,900.00
Care and maintenance of station.....	2,800.00

PUBLIC BUILDINGS.

Repairs of buildings.....	\$3,000.00
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PUBLIC PLACES.

Care of commons.....	\$4,500.00
Care of Stark and Derryfield parks.....	5,000.00
Care of Pine Grove cemetery.....	8,500.00
Care of Valley cemetery.....	3,000.00
Care of Amoskeag cemetery.....	350.00
Care of Merrill yard.....	100.00
Purchase of land for West Side park.....	12,000.00

PATRIOTIC, CHARITABLE, AND PHILANTHROPIC.

Support of paupers off the city farm.....	\$10,525.00
Maintenance of city farm.....	8,000.00
Support of indigent soldiers.....	300.00
Bed for city patients, Women's Aid Home.....	300.00
Bed for city patients, Elliot Hospital.....	300.00
Bed for city patients, Sacred Heart Hospital....	300.00
Bed for city patients, Notre Dame de Lourdes Hospital	300.00
Support of city patients, Emergency Ward, Elliot Hospital	300.00
Decoration of soldiers' graves.....	400.00
Militia armories.....	1,000.00
Band concerts.....	300.00
Semi-centennial history.....	600.00

APPROPRIATIONS.

677

TAXES.

Abatement of taxes.....	\$2,000.00
State taxes.....	68,225.00
County taxes.....	66,204.72

Total amount to be raised by taxation... \$630,000.00

Passed March 5, 1897.

TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS.

Resident and non-resident.	Polls.		Dogs.*		Real estate, value.	Stock in trade.	Money on hand, at interest, or on deposit, value.	Horses, asses, and mules, over 18 months old.		Carriages, value.	Cows, oxen, and other neat stock over 18 months old.	
	No.	Value.	Male.	Female.				Tax.	No.		Value.	No.	Value.
1890	9,723	\$972,300.00	710	51	\$13,898,120.00	\$2,351,102.00	\$378,226.00	1,797	\$172,186.00	\$50,400.00	717	\$15,470.00
1891	10,367	1,036,700.00	713	49	14,124,570.00	2,332,782.00	382,626.00	2,151	185,866.00	53,496.00	671	12,944.00
1892	10,673	1,067,300.00	700	43	14,310,978.00	2,355,780.00	373,634.00	2,225	200,182.00	53,590.00	616	12,580.00
1893	11,835	1,183,500.00	.....	.....	16,003,370.00	2,594,818.00	425,334.00	2,777	210,632.00	59,516.00	551	11,656.00
1894	12,103	1,210,300.00	.....	.....	16,956,070.00	2,421,954.00	519,500.00	2,608	200,376.00	57,526.00	452	9,618.00
1895	12,244	1,224,400.00	.....	.....	17,688,224.00	2,435,546.00	149,592.00	2,639	196,264.00	59,128.00	431	9,710.00
1896	12,583	1,258,300.00	.....	.....	18,358,266.00	2,421,862.00	147,148.00	2,644	184,790.00	57,440.00	410	9,308.00
1897	12,921	1,292,100.00	.....	.....	18,763,182.00	2,772,460.00	113,288.00	2,617	174,746.00	57,810.00	507	10,320.00

AMOUNT OF TAXATION.

TABULAR STATEMENT OF TAXATION BY BOARD OF ASSESSORS.—Continued.

No.	Hogs.		Sheep over 6 months old.		Fowls.		Stock in banks and other corporations, value.	Stock in public funds and bonds, value.	Factories and their machinery, value.	Total value	Rate of tax per hundred.	Tax levied.	Total, including dog tax.
	No.	Value.	No.	Value.	No.	Value.							
104	\$1,040.00	17	\$46.00	.....	.....	\$280,500.00	\$19,900.00	\$6,068,450.00	\$24,207,740.00	\$1.91	18,462,057.17	\$462,769.00
115	932.00	12	30.00	.....	.....	290,100.00	19,900.00	6,432,576.00	21,872,492.00	1.78	412,730.76	443,541.76
85	572.00	14	42.00	.....	\$226.00	301,700.00	4,400.00	6,649,000.00	23,362,044.00	1.95	505,679.17	506,465.17
12	120.00	13	38.00	.....	52.00	317,600.00	5,600.00	6,667,906.00	27,439,742.00	1.85	507,640.68	507,640.68
73	820.00	40	80.00	.....	316.00	230,000.00	22,100.00	6,765,050.00	28,391,710.00	1.78	505,372.44	505,372.44
52	524.00	29	62.00	.....	174.00	263,166.00	1,400.00	6,174,950.00	28,861,122.00	1.74	502,183.02	502,183.02
26	260.00	43	90.00	.....	.....	249,104.00	2,000.00	6,755,100.00	29,443,668.00	1.86	547,651.50	547,651.50
45	470.00	33	56.00	.....	.....	233,264.00	.....	7,068,650.00	30,486,946.00	2.08	634,127.80	634,127.80

* Dog tax repealed. See chapter 6, January laws of 1893.

† Tax on the Manchester Building Association, \$34,500 at 1 per cent. See Laws of 1889, chapter 12.

Assessors' Oath.

We, the Assessors of the City of Manchester, do solemnly swear that in making the invoice for the purpose of assessing the foregoing taxes, we appraise all taxable property at its full value, and as we would appraise the same in payment of a just debt due from a solvent debtor. *So help us God.*

Valuation and Taxes.

The amount of taxes assessed on the polls and on the real and personal estate, within the city of Manchester, N. H., for the year 1897, was as follows:

	Valuation.	Rate per \$1,000	Tax.
Real estate.....	\$25,831,832	\$20.80	\$537,302.10
Personal property.	3,363,014		69,950.01
	<hr/>		<hr/>
	\$29,194,846		\$607,252.11
No. of polls, 12,921	1,292,100	20.80	26,875.69
	<hr/>		<hr/>
Totals	\$30,486,946		\$634,127.80

The share distributed to Manchester of the amount of tax assessed, as per returns made by the corporations to state treasurer:

On railroads	\$35,255.86
On savings banks.....	48,516.24
On insurance companies.....	2,964.75
On literary fund.....	3,511.68
	<hr/>
Grand tax total.....	\$724,376.33

For further information in relation to taxes collected by the state, see State Treasurer's report.

TABLE OF TAXES DUE AND UNCOLLECTED.

YEAR.	Due January 1, 1897, assessed in 1897.	Discounts and abatements, 1897.	Collected in 1897.	Due December 31, 1897.
Taxes of 1885.....	\$1,205.71	.....	.....	\$1,205.71
Taxes of 1886.....	1,264.85	.....	.....	1,264.85
Taxes of 1887.....	1,163.94	.....	.....	1,163.94
Taxes of 1888.....	1,580.13	.....	.....	1,580.13
Taxes of 1889.....	1,397.03	.....	.....	1,397.03
Taxes of 1890.....	1,687.08	.....	.....	1,687.08
Taxes of 1891.....	1,968.41	.....	.....	1,968.41
Taxes of 1892.....	2,588.95	.....	\$1.95	2,587.00
Taxes of 1893.....	4,106.58	.....	9.60	4,096.98
Taxes of 1894.....	3,578.13	.....	46.28	3,531.85
Taxes of 1895.....	5,538.26	.....	399.88	5,138.38
Taxes of 1896.....	{ 56,758.63 } { 828.10 }	\$965.78	51,373.85	5,247.10
Taxes of 1897.....	634,127.80	658.81	564,731.57	68,737.42
Totals.....	\$717,793.60	\$1,624.58	\$616,563.13	\$99,605.88

TAX VALUATIONS, ETC., FROM 1890 TO 1897, INCLUSIVE.

Year.	Valuation.	Taxes.	No. polls.	Poll tax.	Valuation of poll.
1890.....	\$24,207,740	\$462,869.17	9,723	\$1.91	\$100
1891.....	24,872,492	443,541.76	10,367	1.78	100
1892.....	25,932,044	506,465.17	10,673	1.95	100
1893.....	27,439,742	507,640.68	11,835	1.85	100
1894.....	28,391,710	505,372.44	12,103	1.78	100
1895.....	28,861,122	502,183.02	12,244	1.74	100
1896.....	29,443,668	547,651.50	12,583	1.86	100
1897.....	30,486,946	634,127.80	12,921	2.08	100

For years prior to 1890, see reports of 1890 and 1891.

Settlement of Account of George E. Morrill, Tax Collector for City of Manchester, N. H., June 1, 1896.

	Amount out- outstanding June 1, 1895.	Collected.	Balance out- standing June 1, 1896.
Tax list, 1885.....	\$1,205.71		\$1,205.71
1886.....	1,264.85		1,264.85
1887.....	1,163.94		1,163.94
1888.....	1,580.13		1,580.13
1889.....	1,397.03		1,397.03
1890.....	1,687.08		1,687.08
1891.....	1,968.41		1,968.41
1892.....	2,594.80	\$5.85	2,588.95
1893.....	4,134.33	27.75	4,106.58
1894.....	3,928.81	317.08	3,578.13
Amount collected.....		\$350.68	
Credited by cash, as per treasurer's receipt No. 202.....		<u>\$350.68</u>	
Interest collected, 1892.....		\$1.62	
1893.....		5.35	
1894.....		27.25	
1895.....		997.09	
		\$1,031.31	
Credited by cash, as per treasurer's receipt No. 200.....		<u>\$1,031.31</u>	
1895.	Dr.		
June 1. Balance due on settlement of 1893 list			\$4,259.48
1896.	Cr.		
May 12. By cash paid treasurer per receipt No. 68...		\$170.00	
By cash paid treasurer per receipt No. 127..		421.79	
			\$591.79
December 31, 1896, due on 1893 list....			\$3,667.69

1895. DR.

To warrant resident list.....	\$501,170.67	
warrant non-resident list.....	1,012.35	
voluntary list.....	613.13	
	<u> </u>	\$502,796.15

1895 and 1896. CR.

By cash paid treasurer as per vouchers Nos. 83, 100, 130, 148, 160, 201, in year 1895; and receipts Nos. 79, 164, 201, in year 1896..	\$496,094.14	
By abatements.....	1,163.75	
unpaid taxes, June 1, 1896....	5,538.26	
	<u> </u>	<u>\$502,796.15</u>

CITY OF MANCHESTER TO GEORGE E. MORRILL.

DR.

To salary for year ending June 1, 1896	\$1,650.00	
commission on old taxes.....	19.20	
	<u> </u>	\$1,669.20

CR.

By cash paid by treasurer, on account of salary.....	\$800.00	
balance paid by treasurer, as per bill	869.20	
	<u> </u>	<u>\$1,669.20</u>

MANCHESTER, N. H., December 31, 1896.

I hereby certify that I have examined the account of George E. Morrill, tax collector of said Manchester, and find the same correct, as above stated.

JAMES E. DODGE,
City Auditor.

Settlement of Account of George E. Morrill, Tax Collector for City of Manchester, N. H., June 1, 1897.

	Amount out- outstanding June 1, 1896.	Collected.	Balance out- standing June 1, 1897.
Tax list, 1885.....	\$1,205.71		\$1,205.71
1886.....	1,264.85		1,264.85
1887.....	1,163.94		1,163.94
1888.....	1,580.13		1,580.13
1889.....	1,397.03		1,397.03
1890.....	1,687.08		1,687.08
1891.....	1,968.41		1,968.41
1892.....	2,588.95	\$1.95	2,587.00
1893.....	4,106.58	9.60	4,096.98
1894.....	3,578.13	46.28	3,531.85
1895.....	3,928.81	399.88	3,528.93
Amount collected.....		\$457.71	
Credited by cash, as per treasurer's receipt No. 135.....		<u>\$457.71</u>	
Interest collected.....		\$1,449.91	
Credited by cash, as per treasurer's receipt No. 136.....		<u>\$1,449.91</u>	
1896.	DR.		
June 1. Balance due on settlement of 1893 list			\$4,259.48
1897.	CR.		
May 10. By cash paid treasurer, per receipt No. 81...		<u>\$85.00</u>	<u>\$85.00</u>
June 1, 1897, due on 1893 list.....			\$4,174.48
1896.	DR.		
To warrant resident list.....	\$546,121.64		
warrant non-resident list.....	1,529.86		
voluntary list.....	828.10		
			<u>\$548,479.60</u>

1896, 1897.	CR.	
By cash paid treasurer, as per vouchers Nos. 128, 143, 165, 167, 210, in year 1896; and receipts Nos. 51, 86, 127, 134, in year 1897...		\$541,678.29
By abatements, vouchers Nos. 189, 128		1,554.21
By unpaid taxes, June 1, 1897....		5,247.10
		<u>\$548,479.60</u>

CITY OF MANCHESTER TO GEORGE E. MORRILL.

DR.

To salary for year ending June 1, 1897	\$1,650.00	
commission on old taxes.....	25.76	
		<u>\$1,675.76</u>
By cash paid by treasurer, on account of salary.....	\$800.00	
balance paid by treasurer, as per bill	875.76	
		<u>\$1,675.76</u>

MANCHESTER, N. H., August 2, 1897.

I hereby certify that I have examined the account of George E. Morrill, tax collector of said Manchester, and find the same correct, as above stated.

JAMES E. DODGE,
City Auditor.

Some Laws and Decisions Relating to Exemptions from Taxation.

CONSTITUTION OF NEW HAMPSHIRE, ARTICLE 82, PAGE 38,
PUBLIC STATUTES.

ENCOURAGEMENT OF LITERATURE, ETC.

ARTICLE 82. "Knowledge and learning generally diffused through a community being essential to the preservation of a free government, and spreading the opportunities and advantages of education through the various parts of the country being highly conducive to promote this end, it shall be the duty of the legislators and magistrates, in all future periods of this government, to cherish the interest of literature and the sciences, and all seminaries and public schools; to encourage private and public institutions, rewards, and immunities for the promotion of agriculture, arts, sciences, commerce, trades, manufactures, and natural history of the country; to countenance and inculcate the principles of humanity and general benevolence, public and private charity, industry and economy, honesty and punctuality, sincerity, sobriety, and all social affections and generous sentiments among the people; *provided, nevertheless*, that no money raised by taxation shall ever be granted or applied for the use of schools or institutions of any religious sect or denomination."

PUBLIC STATUTES, CHAPTER 55.

SECTION 2. "Real estate, whether improved or unimproved, and whether owned by residents or others, is liable to be taxed, except houses of public worship, twenty-five hundred dollars of the value of parsonages owned by religious societies and occupied by their pastors, schoolhouses, seminaries of learning, real estate of the United States, state, or town used for public purposes, and almshouses on county farms."

SECTION 11. "Towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town."

OPINION OF THE SUPREME COURT.

58 N. H. Rep. page 623. "The exemption in each case is limited to ten years. A perpetual alienation of the whole power of taxation would be the destruction of government; and the dangerous tendency of legislation suspending any part of that power, for any period, is manifest. *P. Bank v. Billings*, 4 Pet. 514, 561. So long as the existing laws remain unrepealed, and the constitutional construction heretofore adopted remains unchanged, contracts hereafter made under these laws and that construction will be valid. If the legislature for any reason wish to prevent the making of any more such contracts, their object can be accomplished by a repeal of the laws authorizing them."

Hospitals, etc., are exempt from taxation in their respective charters as "being of the nature of a public charity," as follows:

Gale Home for Aged and Destitute Women, N. H. Laws of 1889, chapter 199.

Elliot Hospital, N. H. Laws of 1881, chapter 178.

Manchester Women's Aid and Relief Society, organized in January, 1875, N. H. Laws, 1891, chapter 283.

Orphanage and Home for Old Ladies (Catholic) on Hanover street, N. H. Laws, 1883, chapter 56.

Schedule of Property used for Religious, Charitable, and Educational Purposes, and Exempt from Taxation by Law, not including that Owned by the City of Manchester.

Convent, Sisters Jesus Mary, French Catholic; East Spruce street, near Beech:		
Building	\$10,000.00	
13,000 square feet of land....	2,600.00	
	<hr/>	\$12,600.00
Convent, Sisters of Mercy, Catholic; 415 Union street, corner Laurel:		
Building	\$30,000.00	
12,600 square feet of land....	6,300.00	
	<hr/>	\$36,300.00
Mount St. Marys' Academy, Catholic; from con- vent lot east to Beech street:		
Building	\$25,000.00	
31,500 square feet of land....	9,450.00	
	<hr/>	\$34,450.00
Lot south side of Laurel street, corner Union street, Catholic; McDonald school:		
Building	\$35,000.00	
10,800 square feet of land....	5,000.00	
	<hr/>	\$40,000.00
Hospital of the Sacred Heart and Old Ladies' Home, Catholic; Amherst and Hanover streets:		
Building	\$14,000.00	
40,500 square feet of land....	30,375.00	
	<hr/>	\$44,375.00
St. Patrick's Orphan Asylums, Catholic; 184 Hanover street:		
Building	\$47,000.00	
40,500 square feet of land....	40,500.00	
	<hr/>	\$87,500.00
St. Joseph's High School, Catholic; Lowell street, Corner of Birch:		
Building	\$12,000.00	
8,000 square feet of land....	8,000.00	
	<hr/>	\$20,000.00

Union-street school, Catholic; corner Union and Laurel streets:		
Building	\$4,000.00	
5,000 square feet of land.....	2,500.00	
	<hr/>	\$6,500.00
St. Agnes' school, Catholic; corner Cedar and Pine streets:		
Building	\$12,000.00	
20,000 square feet of land....	3,200.00	
	<hr/>	\$15,200.00
St. Joseph's school for girls, Catholic; corner Pine and Lowell streets:		
Building	\$10,000.00	
Land included in cathedral lot	<hr/>	\$10,000.00
Convent of Holy Angels, French Catholic; Beauport street, corner Wayne, West Manchester:		
Building	\$15,000.00	
22,500 square feet of land....	4,500.00	
	<hr/>	\$19,500.00
Orphanage school, Beauport, Wayne, and Putnam streets; French Catholic:		
Building	\$25,000.00	
30,000 square feet of land....	6,000.00	
	<hr/>	\$31,000.00
St. Augustine's academy, French Catholic; corner Beech and Spruce streets:		
Building	\$8,000.00	
15,000 square feet of land....	4,500.00	
	<hr/>	\$12,500.00
St. Mary's parochial school, French Catholic; corner Wayne and Cartier streets:		
Building	\$12,000.00	
25,000 square feet of land....	2,000.00	
	<hr/>	\$14,000.00
Residence priest St. Augustine's church, French Catholic; No. 383 Beech street:		
Building	\$6,000.00	
7,500 square feet of land.....	1,875.00	
	<hr/>	\$2,500.00
		<hr/>
		\$7,875.00

Orphan children's school, parish St. Augustine; 251, 253 Lake avenue:		
Building	\$12,000.00	
10,000 square feet of land....	5,000.00	
	<hr/>	\$17,000.00
Residence priest St. Anne's church, Catholic; No. 231 Merrimack street:		
Building	\$5,000.00	
8,820 square feet of land....	2,646.00	
	<hr/>	\$2,500.00
	\$7,646.00	
Residence Catholic bishop; No. 145 Lowell street:		
Building	\$40,000.00	
24,000 square feet of land....	12,000.00	
	<hr/>	\$2,500.00
	\$52,000.00	
Residence priest St. George's church, French Catholic; Orange street, corner Pine:		
Building	\$2,500.00	
10,000 square feet of land....	4,000.00	
	<hr/>	\$2,500.00
	\$6,500.00	
Residence priest St. Mary's church, French Cath- olic; 376 Beauport street, West Manchester:		
Building	\$2,500.00	
5,000 square feet of land....	1,000.00	
	<hr/>	\$2,500.00
	\$3,500.00	
St. Anne's church, Catholic; Union street, corner Merrimack:		
Building	\$30,000.00	
10,180 square feet of land....	5,090.00	
	<hr/>	\$35,090.00
St. Augustine's church, French Catholic; Beech street, corner East Spruce:		
Building	\$28,000.00	
13,000 square feet of land....	3,250.00	
	<hr/>	\$31,250.00

St. Joseph's cathedral and chapel, Catholic; Pine street, corner Lowell:		
Building	\$70,000.00	
40,000 square feet of land....	30,375.00	
	<hr/>	\$100,375.00
St. Mary's church, French Catholic; Beauport street, corner Wayne, West Manchester:		
Building	\$25,000.00	
70,000 square feet of land....	14,000.00	
	<hr/>	\$39,000.00
St. Raphael's church and school, German Catholic; Third street, corner Ferry, West Manchester:		
Building	\$35,000.00	
8,000 square feet of land....	3,400.00	
	<hr/>	\$38,400.00
St. George's church, French Catholic; Pine street, corner Orange:		
Building	\$75,000.00	
18,690 square feet of land....	7,614.00	
	<hr/>	\$82,614.00
St. Patrick's church and school, Catholic; Kelley street, Cartier street, and Coolidge avenue:		
School building.....	\$20,000.00	
56,281 square feet of land....	4,502.00	
	<hr/>	\$24,502.00
First Baptist church; Union street, corner Concord:		
Building	\$28,000.00	
11,250 square feet of land....	6,750.00	
	<hr/>	\$34,750.00
First Freewill Baptist church; Merrimack street, corner Chestnut:		
Building	\$12,400.00	
12,600 square feet of land....	12,600.00	
	<hr/>	\$25,000.00

Second Baptist church; Merrimack street, near
Pine:

Building	\$9,000.00	
9,450 square feet of land.....	3,780.00	
	<u> </u>	\$12,780.00

People's Baptist church; Chestnut street, corner
Concord:

Building	\$8,000.00	
3,200 square feet of land.....	2,000.00	
	<u> </u>	\$10,000.00

First Congregational church; Hanover street, cor-
ner Union:

Building	\$30,000.00	
43,200 square feet of land....	34,560.00	
	<u> </u>	\$64,560.00

Second Congregational church; Market street,
corner Franklin:

Building	\$25,000.00	
19,000 square feet of land....	19,000.00	
	<u> </u>	\$44,000.00

Third Congregational church; South Main street,
corner Milford, West Manchester:

Building	\$8,000.00	
23,000 square feet of land....	3,000.00	
	<u> </u>	\$11,000.00

First M. E. church; Valley street, corner Jewett:

Building	\$8,000.00	
11,400 square feet of land....	1,000.00	
	<u> </u>	\$9,000.00

St. Paul's M. E. church; Union street, corner
Amherst:

Building	\$25,000.00	
10,010 square feet of land....	6,000.00	
	<u> </u>	\$31,000.00

Trinity M. E. church; School street:

Building	\$2,000.00	
12,176 square feet of land....	3,000.00	
	<u> </u>	\$5,000.00

St. James M. E. church; Penacook street, corner Pine:		
Building	\$9,000.00	
11,000 square feet of land....	2,200.00	
	<hr/>	\$11,200.00
Grace church, Episcopal; Lowell street, corner Pine:		
Building	\$20,000.00	
9,300 square feet of land....	6,975.00	
	<hr/>	\$26,975.00
First Unitarian church; Concord street, corner Beech:		
Building	\$24,000.00	
13,500 square feet of land....	6,000.00	
	<hr/>	\$30,000.00
First Universalist church; Lowell street, near Elm:		
Building	\$17,000.00	
10,000 square feet of land....	15,000.00	
	<hr/>	\$32,000.00
Christian church, Protestant; Pine street, corner Merrimack:		
Building	\$6,000.00	
9,000 square feet of land....	6,700.00	
	<hr/>	\$12,700.00
First Presbyterian church, German; Second street, corner Bath, West Manchester:		
Building	\$3,000.00	
10,000 square feet of land....	2,500.00	
	<hr/>	\$5,500.00
Swedish Lutheran church, Protestant; Sagamore, corner Pine:		
Building	\$7,500.00	
10,950 square feet of land....	2,000.00	
	<hr/>	\$9,500.00
Swedish Evangelical Mission; Pine street, corner Orange:		
Building	\$6,500.00	
Land	4,100.00	
	<hr/>	\$10,600.00

Swedish Baptist church; Arlington street, near Maple:		
Building	\$5,000.00	
4,432 square feet of land.....	1,100.00	\$6,100.00
Second Advent church; Amherst street, between Pine and Union:		
Building	\$5,100.00	
4,500 square feet of land.....	3,375.00	\$8,475.00
City Mission chapel, Protestant; Merrimack street, corner Beech:		
Building	\$7,000.00	
12,600 square feet of land....	6,000.00	\$13,000.00
Westminster Presbyterian church; Brook street, corner Hazel:		
Building	\$15,000.00	
10,000 square feet of land....	2,500.00	\$17,500.00
South Manchester Union chapel, Protestant; Elm street, south:		
Building	\$2,500.00	
10,747 square feet of land....	1,000.00	\$3,500.00
Episcopal Mission church; North Main street, corner School, West Manchester:		
Building	\$3,500.00	
19,412 square feet of land....	4,000.00	\$7,500.00
Residence pastor St. Paul's M. E. church; Union street, near Amherst:		
Building	\$3,000.00	\$2,500.00
Residence pastor First Congregational church; No. 590 Beech street, near Bridge:		
Building	\$5,000.00	
8,100 square feet of land....	2,400.00	\$2,500.00
	\$7,400.00	

Residence pastor Grace Episcopal church; corner of Harrison and Union streets:		
Building	\$6,000.00	
15,000 square feet of land....	3,750.00	
	<hr/>	\$2,500.00
	\$9,750.00	
German School Society; Third, Bath, and Ferry streets:		
Building	\$4,500.00	
10,187 square feet of land....	2,500.00	
	<hr/>	\$7,000.00
Elliot Hospital, Protestant; East Manchester:		
Building	\$23,000.00	
Land	7,000.00	
	<hr/>	\$30,000.00
Elliot Hospital lot; Hanover street, corner Chestnut:		
Building	\$3,000.00	
Land	13,000.00	
	<hr/>	\$16,000.00
Elliot Hospital:		
Land and buildings, Main street	\$4,000.00	
Land and building, Quincy street	2,500.00	
	<hr/>	\$6,500.00
Women's Aid Home, Pearl street, corner Beech:		
Building	\$15,000.00	
57,530 square feet of land....	10,000.00	
	<hr/>	\$25,000.00
Manchester Children's Home; Webster street:		
Building	\$20,000.00	
55,000 square feet of land....	2,500.00	
	<hr/>	\$22,500.00

Residence pastor Swedish Lutheran church;
Sagamore street, corner Pine:

Building	\$3,000.00	
10,200 square feet of land....	1,020.00	
	<u> </u>	\$2,500.00
	\$4,020.00	

Gale Home:

One half Manchester Bank block, Elm street.....	\$38,000.00	
One half Martin's block, Elm street	25,000.00	
Land and building, Pearl street, corner Ash.....	25,000.00	
	<u> </u>	\$88,000.00

EXEMPT FROM TAXATION.

Church property, Catholic.....	\$351,231.00	
Convent property, Catholic.....	68,400.00	
Parochial residences, Catholic....	12,500.00	
Parochial schools, Catholic.....	200,650.00	
Hospitals and other charitable in- stitutions	131,875.00	
	<u> </u>	\$764,656.00
Church property, Protestant.....	\$441,640.00	
Parochial residences, Protestant...	10,000.00	
Private school property, Protestant	7,000.00	
Hospitals and other charitable in- stitutions	188,000.00	
	<u> </u>	\$646,640.00

TAXABLE.

Land and buildings, Catholic.....	\$65,021.00	
Land and buildings, Protestant...	14,170.00	
	<u> </u>	\$79,191.00
Total exempt and taxable.....		<u> </u>
		\$1,490,487.00

SCHEDULE OF PROPERTY USED FOR MANUFACTURING PURPOSES EXEMPT BY LAW FROM
TAXATION.

OWNER.	Occupant.	Location.	Goods manufactured.	Exemption commenced.	Exemption ceases.	Valuation.
Amoskeag Mfg. Co	Amoskeag Mfg. Co	Jefferson mill	Cotton	April 1, 1887	April 1, 1897	\$1,000,000.00
Stark mills	Stark mills	Mill W. N. McGregor bridge	"	"	" 1, 1900	200,000.00
William W. Hubbard	William W. Hubbard	Land and building, Dean ave.	Wood	Dec. 1, 1885	" 1, 1896	92,100.00
West Side Shoe Co	* Crafts & Green	Land and buildings, West Hancock	Shoes	June 16, 1890	" 1, 1901	37,500.00
F. M. Hoyt & Co	* F. M. Hoyt & Co	1 1/2 acres, land and building	"	Oct. 6, 1891	" 1, 1902	20,700.00
Elliott Mfg. Co	† Elliott Mfg. Co	58,466 ft. land and factory, Valley and Wilson	Silk	April 5, 1892	" 1, 1903	32,000.00
Kimball Carriage Co	† Kimball Carriage Co	Stock and machinery	Carriages, etc.	" 1, 1890	" 1, 1900	32,000.00
Kennedy Land Co	Josselyn & Seavey	Land and building, Silver and Lincoln (1 acre land and building south of brewery	"	Dec. 12, 1892	" 1, 1903	11,000.00
Rimmon Mfg. Co	Jennings & Stevens	Stock and machinery	Furniture	" 12, 1892	" 1, 1903	8,000.00
Dana & Provost	* Dana & Provost	Land and buildings, 20,000 feet, Kelley street	"	April 1, 1893	" 1, 1903	6,000.00
Eaton Heights Shoe Co	Eaton Heights Shoe Co	Union street, at junction with C. & P. R.	Wood	" 1, 1893	" 1, 1903	25,000.00
So. Manchester Building Association	So. Manchester Building Association	Land and building	Shoes	June 5, 1894	June 5, 1904	20,000.00
Eureka Shoe Co	"	{ Land and buildings, 75,000 feet, Lincoln and Silver streets	"	Jan. 1, 1895	Jan. 1, 1905	30,000.00
Redman & Eaton Shoe Co	"	{ Land, buildings, machinery, and materials	"	" 1, 1895	" 1, 1905	50,000.00
Imo Wrapper Co	Imo Wrapper Co	East Manchester	Cotton	Dec. 4, 1894	Dec. 4, 1904	35,000.00
				Dec. 1, 1897	Dec. 1, 1907	10,000.00
						\$1,539,300.00

* Stock and machinery taxable.

† Stock and machinery, — value not determined.

TABULAR STATEMENT OF BONDED DEBT, CITY OF MAN-CHESTER, N. H., DEC. 31, 1897.

YEAR.	Six per cent to build water works.*	At four per cent, water works.†	At five per cent, water bonds.	At 4½ per cent, water bonds.	Five per cent, cemetery bonds.‡	\$70,000 issued Oct. 31, 1863. \$50,000 issued July 1, 1864	Six per cent, to fund debts.	Issued July 1, 1881, four per cent, to build McGregor bridge.	Issued April 1, 1895, four per cent to fund debts.
1890	\$400,000	\$200,000	.....	.....	\$13,850	\$120,000	\$60,000	\$155,000
1891	400,000	200,000	.....	.....	18,850	120,000	60,000	155,000
1892	300,000	300,000	.....	.....	20,000	120,000	60,000	155,000
1893	300,000	300,000	\$100,000	\$100,000	26,000	120,000	60,000	155,000	
1894	300,000	350,000	100,000	100,000	31,000	50,000	60,000	155,000	
1895	200,000	500,000	100,000	100,000	36,250	.....	60,000	155,000
1896	200,000	500,000	100,000	100,000	42,250	.....	60,000	155,000
1897	100,000	600,000	100,000	100,000	50,000	.....	60,000	155,000

Four per cent im-provement bonds.	Four per cent school house bonds.	Four per cent Granite-street bridge bonds.	Amount of six per cent bonds due and paid.	Amount of six per cent bonds re-fundd at four per cent.	Total amount of bonded debt Dec. 31, 1896.	Amount of six per cent city bonds on which interest has ceased, not yet presented for payment.	Amount of six per cent water bonds on which interest has ceased, not yet presented for payment.
.....	.....	.....	\$99,900	\$100,000	\$948,850	.....	\$100
.....	.....	.....	100	.....	953,850	.....	.....
.....	.....	.....	93,900	100,000	955,000	.....	100
\$100,000	.....	.....	65,500	.....	1,195,600	\$4,500	100
200,000	.....	.....	50,000	.....	1,296,000	.....	.....
300,000	\$20,000	.....	.....	100,000	1,571,250	.....	.....
400,000	230,000	\$130,000	.....	.....	1,917,250	.....	.....
400,000	220,000	105,000	.....	.....	1,890,000	.....	.....

* \$400,000 water bonds, issued January 1, 1872; \$100,000 of these bonds re-funded January 1, 1887; \$100,000 re-funded January 1, 1892; \$100,000 re-funded January 1, 1897.

† \$200,000 water bonds, issued July 1, 1874; \$100,000 of these bonds re-funded July 1, 1890, and \$100,000 re-funded July 1, 1895.

‡ \$2,200 water bonds, issued in 1884, and other additional bonds each year.

The city guarantees the perpetual care of lots in the cemeteries. Bonds payable July 1, 1913.

REMARKS.—The city guarantees the perpetual care of lots in the cemeteries of the city to parties who pay \$100 and upward. There are \$50,000 in cemetery bonds, so called, not negotiable, in the hands of the city treasurer, which are included in the \$1,890,000.

Total amount of bonded debt, including cemetery bonds.....	\$1,890,000.00
Net indebtedness for water purposes.....	900,000.00
	<hr/>
Net debt after deducting water debt..	\$990,000.00
As shown in the assessors' books for the year 1897:	
The assessed value of personal property, including poll tax.....	\$4,655,114.00
The assessed value of real estate.....	25,831,832.00
	<hr/>
Total value for taxation.....	\$30,486,946.00
Tax rate, 2.08 per cent on a hundred.	
Per cent of net indebtedness (excluding debt for water purposes) to assessed valuation...	3.575
Per cent of net indebtedness (including debt for water purposes) to assessed valuation...	6.527
Population, census of 1890.....	43,983
Population, census of 1880.....	32,458
	<hr/>
Increase of population in ten years....	11,525
Increase of population since 1890 (estimated)	16,000
No issue of bonds has ever been contested.	
The interest on the debt has always been promptly paid at maturity.	
None of the bonds are stated specifically as being payable in gold.	
None of the bonds can be called for redemption.	
A sinking fund was established in 1893.	

The power of the city to borrow money in relation to the water-works is limited to the sum of \$600,000 by section 6, chapter 70, New Hampshire Laws of 1871, entitled "An act to enable the city of Manchester to establish water-works," except as further extended an amount of \$300,000, by laws of 1891, chapter 26; and \$200,000, by laws of 1895, chapter 172.

Date of issue.	Description.	Number.	Denomina- tion.	Amount.	Total.	Date when the principal is payable.	INTEREST.		
							Rate per cent.	When payable.	Where payable.
Dec. 16, 1895	Water bonds.	50	\$1,600	\$50,000	\$50,000	Dec. 16, 1915	4	Semi-annual.	At Suffolk Bank, Boston, Mass.
Oct. 1, 1894	"	50	1,000	50,000	50,000	Oct. 1, 1914	4	"	"
Nov. 1, 1893	"	100	1,000	100,000	100,000	Nov. 1, 1913	4 1/2	"	"
Aug. 1, 1893	"	100	1,000	100,000	100,000	Aug. 1, 1913	5	"	"
Jan. 1, 1892	"	100	1,000	100,000	100,000	Jan. 1, 1912	4	"	"
Jan. 1, 1897	"	100	1,000	100,000	100,000	Jan. 1, 1917	4	"	"
Re-funded	"	60	100	6,000		1, 1902	6	"	At treasurer's office, Manchester, N. H.
Jan. 1, 1872	"	62	500	31,000		1, 1902	6	"	"
1, 1872	"	63	1,000	63,000	100,000	1, 1902	6	"	"
July 1, 1890	"	100	1,000	\$100,000	100,000	July 1, 1910	4	"	At Suffolk Bank, Boston, Mass.
Re-funded	"	100	1,000	\$100,000	100,000	1, 1915	4	"	"
July 1, 1895	"	100	1,000	\$100,000	100,000	1, 1915	4	"	"
Re-funded	"	100	1,000	\$100,000	100,000	Jan. 1, 1907	4	"	"
Jan. 1, 1887	"	15	100	\$1,500		Jan. 1, 1911	4	"	At treasurer's office, Manchester, N. H.
Re-funded	"	39	500	19,500		July 1, 1911	4	"	"
July 1, 1881	Bridge bonds.	39	1,000	39,000	60,000	1, 1911	4	"	"
1, 1881	"					{ \$25,000 July			
						{ 1, 1898, '99,			
						{ 1900, '30,			
						{ 000 July 1,			
						{ 1901			
1, 1896	"	105	1,000	\$105,000	105,000	000 July 1,	4	"	At Suffolk Bank, Boston, Mass.
April 1, 1885	City bonds.	50	1,000	\$50,000	50,000	April 1, 1905	4	"	"
1, 1885	"	50	1,000	50,000	50,000	April 1, 1907	4	"	"
1, 1885	"	50	1,000	50,000	50,000	1, 1909	4	"	"
1, 1885	"	5	1,000	5,000	5,000	1, 1911	4	"	"
July 1, 1893	Imp. bonds.	100	1,000	\$100,000	100,000	Jan. 1, 1913	4	"	"
June 1, 1894	"	100	1,000	100,000	100,000	April 1, 1914	4	"	"
April 1, 1895	"	100	1,000	100,000	100,000	1, 1915	4	"	"
1, 1896	"	100	1,000	100,000	100,000	1, 1916	4	"	"
						{ \$10,000 July			
						{ 1, 1898, and			
						{ \$10,000 an-			
						{ nually			
						{ thereafter			
July 1, 1895	School bonds.	100	1,000	\$100,000	100,000	July 1, 1916	4	"	"
1, 1895	"	80	1,000	80,000	80,000			"	"
1, 1896	"	40	1,000	40,000	40,000			"	"
					\$1,840,000				

STATEMENT OF THE ANNUAL INTEREST CHARGE ON THE BONDED DEBT.

YEAR.	Six per ct. water bonds.	Four per ct. water bonds.	Four and a half and 5 per ct. water bonds.	Five per ct. cemetery bonds.	Six per ct. to fund debt.	Four per ct. to b'ld Mc. Gregor bridge.	Four per ct. to fund debt.	Four per ct. Imp. bonds.	Four per ct. school bonds and Granite bridge.	Total of annual interest.
1890....	\$27,000	\$6,000	.....	\$623.75	\$7,200	\$2,400	\$6,200	.....	.....	\$49,423.75
1891....	24,000	8,000	.....	813.92	7,200	2,400	6,200	.....	.....	48,613.92
1892....	18,000	12,000	.....	1,000.00	7,200	2,400	6,200	.....	.....	46,800.00
1893....	18,000	12,000	.....	1,041.66	7,200	2,400	6,200	.....	.....	46,841.66
1894....	18,000	14,000	\$9,500	1,550.00	.....	2,400	6,200	\$8,000	.....	50,650.00
1895....	18,000	14,000	9,500	1,812.50	.....	2,400	6,200	12,000	\$4,800	68,712.50
1896....	12,000	20,000	9,500	2,112.50	.....	2,400	6,200	16,000	14,400	82,612.50
1897....	9,000	22,000	9,500	2,500.00	.....	2,400	6,200	16,000	13,000*	80,600.00

SUMMARY OF CITY DEBT.

Amount of bonded debt January 1, 1897....	\$1,917,250.00
Amount of cemetery bonds issued in 1897...	7,750.00
Accrued interest on bonded debt.....	40,300.00
	<hr/>
	\$1,965,300.00
Amount of security note or bond †.....	100,000.00
	<hr/>
	\$2,065,300.00
Amount of bonded debt paid in 1897.....	35,000.00
	<hr/>
Total indebtedness December 31, 1897.	\$2,030,300.00

AVAILABLE ASSETS.

Net cash on hand December 31, 1897.....	\$122,052.37
Taxes uncollected, list of 1897.....	56,796.23

* This amount will be reduced \$1,400 annually by payment of principal.

† This loan was made by authority of resolution passed January 26, 1894, and renewed March 3, 1896.

BONDED DEBT.

703

Stock of Suncook Valley Railroad, estimated value	\$14,500.00
Sinking fund December 31, 1898.....	139,189.79
	<hr/>
	\$332,538.39

BONDED DEBT.

Total net indebtedness January 1, 1898.....	\$1,697,761.61
Total net indebtedness January 1, 1897.....	1,730,476.43
	<hr/>
Decrease	\$32,714.82

PUBLIC BUILDINGS OCCUPIED IN PART BY PRIVATE PARTIES.

BATTERY BUILDING.

Annual rent.	Location.	Occupants.	Rooms.	Command.	Remarks.
Free.	Manchester street.	First Light Battery.	2 rooms.	First N. H. L. Battery.	Battery occupies first and second floor and basement.
"	"	Emmet Guards.	1 room.	Emmet Guards.	Guards occupy third floor. Ward meetings are held in battery room on second floor.

WARD FIVE WARDROOM.

Annual rent.	Location.	Occupants.	Rooms.	Command.	Remarks.
Free.	Lake avenue.	Sheridan Guards.	1 room.	Sheridan Guards.	Ward meetings held in building.

Valuation of Real Estate Owned by the City.

High School, Beech street, corner Lowell:		
Building	\$170,000.00	
59,400 square feet of land....	17,820.00	
	<hr/>	\$187,820.00
Franklin-street school, Franklin street, corner Pleasant:		
Building	\$16,000.00	
19,200 square feet of land....	19,200.00	
	<hr/>	\$35,200.00
Spring-street school, Spring street:		
Building	\$13,000.00	
13,600 square feet of land....	13,600.00	
	<hr/>	\$26,600.00
Lincoln-street school, Lincoln street, corner Merimack:		
Building	\$45,000.00	
40,000 square feet of land....	8,000.00	
	<hr/>	\$53,000.00
Ash-street school, Ash street, corner Bridge:		
Building	\$50,000.00	
57,537 square feet of land....	17,262.00	
	<hr/>	\$67,262.00
Main-street school, North Main street, West Manchester:		
Building	\$6,000.00	
40,293.4 square feet of land..	10,073.00	
	<hr/>	\$16,073.00
Webster-street school, Webster street:		
Building	\$39,000.00	
55,714 $\frac{3}{4}$ square feet of land....	13,928.00	
	<hr/>	\$52,928.00
Blodget-street school, Blodget street:		
Building	\$1,500.00	
9,000 square feet of land....	3,600.00	
	<hr/>	\$5,100.00

Lowell-street school, Lowell street, corner Chestnut:

Building	\$1,000.00	
9,000 square feet of land.....	9,000.00	
	<hr/>	\$10,000.00

Merrimack-street school, Merrimack street, corner Union:

Building	\$15,000.00	
12,600 square feet of land....	6,300.00	
	<hr/>	\$21,300.00

Parker school, South Main street, West Manchester:

Building	\$20,000.00	
13,650 square feet of land....	2,047.00	
	<hr/>	\$22,047.00

Bakersville school, Elm street, south:

Building	\$10,000.00	
24,184 square feet of land....	3,628.00	
	<hr/>	\$13,628.00

Stark District school, River road, north:

Building	\$1,000.00	
43,560 square feet of land....	100.00	
	<hr/>	\$1,100.00

Amoskeag school, Front street, Amoskeag:

Building	\$1,500.00	
6,000 square feet of land.....	1,000.00	
	<hr/>	\$2,500.00

Rimmon school, corner Amory and Dubuque streets:

Building	\$17,400.00	
16,600 square feet of land....	2,490.00	
	<hr/>	\$19,890.00

Goffe's Falls school, Goffe's Falls:

Building	\$4,000.00	
47,916 square feet of land....	250.00	
	<hr/>	\$4,250.00

VALUATION OF REAL ESTATE OWNED BY THE CITY. 707

Harvey District school, Nutt road:		
Building	\$2,000.00	
21,780 square feet of land....	100.00	
	<hr/>	\$2,100.00
Webster Mills school, Webster Mills:		
Building	\$400.00	
5,445 square feet of land.....	100.00	
	<hr/>	\$500.00
Old Hallsville school, East Manchester:		
Building	\$500.00	
30,075 square feet of land....	3,008.00	
	<hr/>	\$3,508.00
Youngsville school, Youngsville:		
Building	\$500.00	
51,228 square feet of land....	100.00	
	<hr/>	\$600.00
Mosquito Pond school, Mosquito Pond:		
Building	\$400.00	
10,890 square feet of land....	100.00	
	<hr/>	\$500.00
Pearl-street school:		
Building	\$18,700.00	
Land	3,200.00	
	<hr/>	\$21,900.00
Varney school, Bowman street, corner Mast, West Manchester:		
Building	\$43,750.00	
Land	6,700.00	
	<hr/>	\$50,450.00
New Hallsville school, Jewett street, corner Young, East Manchester:		
Building	\$29,800.00	
44,000 square feet of land....	3,300.00	
	<hr/>	\$33,100.00
Straw school, Chestnut street, corner Harrison:		
Building	\$30,000.00	
32,400 square feet of land....	16,200.00	
	<hr/>	\$46,200.00

New Wilson school, Wilson, Cedar, and Auburn streets:

Building	\$30,000.00	
40,000 square feet of land....	5,000.00	
		<u>\$35,000.00</u>
		\$732,556.00

ENGINE-HOUSES.

Engine-house and stable, Central station, Vine street: .

Building	\$31,800.00	
21,718.86 square feet of land..	25,438.00	
		<u>\$57,238.00</u>

North Main-street engine-house, North Main street, West Manchester:

Building	\$18,000.00	
11,819 square feet of land....	2,955.00	
		<u>\$20,955.00</u>

Webster-street engine-house, Webster street, corner Chestnut:

Building	\$12,000.00	
8,510 square feet of land.....	2,180.00	
		<u>\$14,180.00</u>

Merrimack engine-house, Lake avenue:

Building	\$15,000.00	
10,000 square feet of land....	3,000.00	
		<u>\$18,000.00</u>

Hosehouse and cottage, Maple street, corner East High:

Building	\$3,000.00	
18,330 square feet of land....	3,666.00	
		<u>\$6,666.00</u>

Engine-house and wardroom, ward 9, Rimmon and Amory streets, West Manchester:

Building	\$22,755.00	
6,000 square feet of land....	870.00	
		<u>\$23,625.00</u>

VALUATION OF REAL ESTATE OWNED BY THE CITY. 709

South Manchester hosehouse:

Building	\$4,200.00	
4,278 square feet of land.....	684.48	
	<u> </u>	\$1,884.48
		<u> </u>
		\$145,548.48

OTHER PUBLIC BUILDINGS AND LOTS.

City library, Dean avenue, corner Franklin street:

Building	\$35,000.00	
15,000 square feet of land....	30,000.00	
	<u> </u>	\$65,000.00

City hall, Elm street, corner Market:

Building	\$20,000.00	
100,000 square feet of land...	150,000.00	
	<u> </u>	\$170,000.00

City farm, Mammoth road:

Building	\$5,000.00	
46.66 acres, west Mammoth road	70,000.00	
81.55 acres, east Mammoth road	65,240.00	
	<u> </u>	\$140,240.00

Court house, Franklin street, corner West Merimack:

Building	\$20,000.00	
19,000 square feet of land....	57,000.00	
	<u> </u>	\$77,000.00

Battery building, Manchester street:

Building	\$13,000.00	
3,400 square feet of land.....	5,100.00	
	<u> </u>	\$18,100.00

Police station, Manchester street, corner Chestnut:

Building	\$40,000.00	
7,500 square feet of land.....	15,000.00	
	<u> </u>	\$55,000.00

Slayton lot, Manchester street:		
Police patrol stable.....	\$4,000.00	
Building	300.00	
2,908 square feet of land.....	4,700.00	
	<hr/>	\$9,000.00
City stable and other buildings, Franklin street:		
Building	\$15,950.00	
44,656 square feet of land....	89,312.00	
	<hr/>	\$105,262.00
City stable, district No. 10.....		\$1,000.00
City scales, Franklin street:		
Building		\$300.00
Gravel lots, Goffstown:		
2 acres		\$400.00
Police station, Clinton street, West Manchester:		
Building	\$3,500.00	
3,790 square feet of land.....	1,000.00	
	<hr/>	\$4,500.00
Gravel lot, district No. 10, bought of Brooks & Brock (city has right to remove gravel until August 25, 1903):		
1 1-3 acres.....		\$500.00
Ward 5 wardroom, Lake avenue:		
Building	\$4,500.00	
Land	1,000.00	
	<hr/>	\$5,500.00
		<hr/>
		\$651,802.00

PERSONAL PROPERTY OWNED BY THE CITY.

Property in care city engineer.....	\$1,149.00
in care chief engineer fire department.	107,177.50
in care street and park commission...	26,805.23
in care superintendent of schools.....	36,755.00
in care city messenger.....	3,000.00
in care city marshal and janitor.....	7,250.00

VALUATION OF REAL ESTATE OWNED BY THE CITY. 711

Property in care superintendent of city farm...	\$12,544.87
in care trustees city library.....	30,000.00
in care superintendent of Pine Grove cemetery	248.35
in care superintendent Valley cemetery	106.00
Stock in Suncook Valley Railroad, in care of city treasurer.....	50,000.00
Personal property in care city weigher.....	1,000.00
	<hr/>
	\$276,035.95
Uncollected taxes in 1897.....	\$56,796.23
Net cash in the treasury, December 31, 1897...	122,052.37
	<hr/>
	\$178,848.60

OTHER REAL AND PERSONAL ESTATE OWNED BY THE CITY.

Soldiers' monument.....	\$25,000.00
Permanent inclosure of commons.....	10,200.00
Amoskeag bridge over Merrimack river.....	25,000.00
Fountains and water-troughs on streets and com- mons	3,600.00
City tomb	10,000.00
McGregor bridge.....	90,000.00
Granite bridge.....	130,000.00
South Main-street bridge, over Piscataquog river	28,450.00
Second-street bridge, over Piscataquog river....	52,036.06
Print-Works bridge, on Granite, over lower canal	5,000.00
Two bridges in highway district No. 9.....	2,000.00
One bridge at Goffe's Falls.....	1,000.00
Expended on construction of sewers.....	625,103.73
	<hr/>
	\$1,007,389.79

PARKS AND CEMETERIES.

Valley cemetery, 19.7 acres.....	\$200,000.00
Pine Grove cemetery, about 96 acres.....	46,700.00
Amoskeag cemetery, 1.23 acres.....	4,340.00
Stark park, 28 acres.....	9,000.00

Derryfield park, 76 acres.....	\$25,000.00
Concord common, 4.48 acres.....	200,000.00
Tremont common, 2.25 acres.....	40,000.00
Hanover common, 3 acres.....	100,000.00
Park common, 3.49 acres.....	60,000.00
Merrimack common, 5.89 acres.....	200,000.00
Wagner's park, 9.85 acres.....	12,000.00
Land on Piscataquog river.....	3,500.00
	<hr/>
	\$900,540.00

WATER-WORKS.

Real estate and personal property of water-works, at cost price.....	\$1,458,246.29
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RECAPITULATION.

Real estate owned by the city, schoolhouses...	\$732,556.00
Real estate owned by the city.....	651,802.00
Real estate owned by the city, engine-houses...	145,548.48
Water-works at cost price.....	1,458,246.29
Personal property owned by the city.....	276,035.95
Uncollected taxes and cash.....	178,848.60
Other real and personal property.....	1,007,389.79
Parks and cemeteries.....	900,540.00
	<hr/>
	\$5,350,967.11

PROPERTY ACCOUNT.

Inventory of assets, December 31, 1897.....	\$5,350,967.11
Inventory of assets, December 31, 1896.....	5,236,208.62
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Gain in valuation.....	\$114,758.49

Auditor's Office.

City hall building. Open from 8 to 12 A. M., 1.30 to 5 P. M.; 7 to 9 P. M. on Thursday.

In every bill presented to the city auditor for his approval, the following points will be considered and passed upon.

1. Is the subject matter of the bill under examination within the scope of the powers conferred by the legislature on the city government?

2. Is the bill certified by the party legally authorized to make the contract, or cause the expenditure to be made?

3. Has any appropriation been made to meet the expenditure, and is there a balance unexpended sufficient to pay this bill?

4. Are the number of articles in the bill, or the measurements either of dimensions, quantities, or weights correctly and fully stated, and is the proof of the delivery to the city of the whole amount charged sufficient?

5. Is the price charged a fair market price, or is it so largely in excess as to require the attention of the city councils to be called to the same?

6. Is the bill written in a fair legible hand, correctly cast, and on paper of sufficient length and width to admit of its proper backing and filing?

7. If the bill is in part payment of a contract, the date and the total amount of the contract, the amount already paid, the amount of the work not yet completed, and the per cent retained, if any, should be stated in the bill.

8. Any other inquiries in matters of law and fact which affect the question of indebtedness before the auditor.

9. Approval, rejection, or suspension for further information or correction as the circumstances of each case may require.

COURT DECISIONS, LEGAL POINTS AND RULES, RELATING TO THE APPROVAL OR DISAPPROVAL OF CLAIMS AGAINST THE CITY.

No bill or account shall be paid by the city treasurer until the auditor has approved it as correct.

Public trusts or powers devolved by law or charter on the city councils cannot be delegated to others. *Dillon's Municipal Corporations*, section 96, volume 1.

No member of either branch [of the city councils], except the mayor, shall receive any compensation for his services, or shall hold any office or agency created during his continuance in office. *General Laws*, chapter 46, section 13.

The executive powers of the city, except where vested in the mayor, shall be exercised by the mayor and aldermen. *General Laws*, chapter 46, section 14.

The mayor and aldermen have all the powers and authority of selectmen of towns unless it is otherwise provided by law. *General Laws*, chapter 46, section 14.

Joint standing committees have advisory powers only; they cannot legally be endowed with executive or legislative powers by ordinance or resolution of the city councils, as no by-law or ordinance shall be repugnant to the constitution or laws of the state.

No member of either branch of the city councils can enter into any verbal or written contract to furnish supplies to, or do any work for the city. Any firm of which a member is also a member of the city councils is included in this prohibition.

No city official, or department, or board of officials having legal power to expend money for the benefit of the city, can purchase of or contract with themselves, with any one of the board, or with any firm of which one of said officials is a member. *Dillon's Municipal Corporations*, volume 1, page 436, section 444.

Every bill against the city shall specify the particular appropriation to which the same should be charged, and the moneys paid will be charged to such appropriations only.

He who is intrusted with the business of others cannot be allowed to make such business a source of profit to himself.

All orders passed by the city councils authorizing a ministerial act to be performed by its agent or agents must be strictly construed, and the act to be done must be specifically stated.

The board of engineers have the authority of firewards. (*General Laws*, chapter 106, section 11.) They have no power conferred upon them by law or ordinance to purchase new apparatus of any kind.

The joint standing committee on fire department have advisory powers only.

The laws and ordinances require the city auditor to withhold his signature from all bills against any appropriation where the amount of the appropriation is expended, until the city council shall have provided the means of paying the same. Section 4, chapter 3 of the City Ordinances, and section 4, ordinances relating to the duties of the city auditor, approved January 7, 1890.

The power of towns to raise and appropriate money is derived solely from statutory provisions, which restrict the power to certain specified objects and other necessary charges.

Votes to raise or pay money for purposes other than those prescribed by statute are void, and towns cannot be compelled, and generally will not be permitted, to carry such votes into effect.

It is not left to the unrestricted and irresponsible discretion of towns to vote gifts or to select donees; their charity is a duty defined, commanded, enforced, and regulated, and the objects of it are designated by law.

A majority cannot dispose of the property of a minority in an unlimited manner. *Gore v. Epping*, 41 N. H. 539.

The following parties are authorized by law or ordinance to make expenditures, within the scope of their powers, for their respective departments: For fire department and fire-alarm telegraph, the chief engineer, to be submitted monthly

to the approval of the board of engineers; for police department, mayor and police commission; for police court, police judge; for water-works department, superintendent, subject to the rules of the board of commissioners and ordinances relating thereto; for city farm, superintendent; for overseers of the poor, each overseer, subject to the rules of the board of overseers, and their monthly review and approval; for schools, superintendent, or such person as the board of school committee may designate, bills to be approved by the board monthly; for streets, sewers, and other work under these departments, street and park commissioners; for city clerk's office, treasurer's office, tax collector's office, assessor's office, auditor's office, incidental expenditures, city physician, city messenger, city solicitor, city engineer,—mayor; for cemeteries, superintendents, subject to board of trustees (to consist of citizens not members of the city councils); for health department, board of health, subject to approval of mayor; city library, board of trustees or person designated by them. It may be stated as a general rule, that all subordinate officials are under the supervision and control of the mayor, subject to such limitations and restrictions as the board of aldermen, acting as a board, may require.

RESOLUTIONS, ORDERS, ORDI-
NANCES.

RESOLUTIONS, ORDERS, ORDINANCES
PASSED IN 1897.

CITY OF MANCHESTER.

RESOLUTION making a temporary loan of One Hundred
Thousand Dollars.

Resolved by the Mayor, Aldermen, and Common Council of the
City of Manchester, in City Council assembled, as follows:

That for the purpose of paying such claims against the
city as may fall due before the fifth day of December, 1897,
the mayor be and hereby is authorized to make a temporary
loan for the use of the city, of a sum not exceeding one
hundred thousand dollars (\$100,000), being in anticipation of
the taxes of the present year; giving for the same the notes
of the city, signed by the mayor and countersigned by the
city treasurer.

Passed April 6, 1897.

CITY OF MANCHESTER.

RESOLUTION appropriating \$3,500 for the purchase of Land
on the bank of the Piscataquog river.

Resolved by the Mayor, Aldermen, and Common Council of the
City of Manchester, in City Council assembled, as follows:

That for the purpose of purchasing a tract of land on the
bank of the Piscataquog river in West Manchester, there be
appropriated the sum of thirty-five hundred dollars (\$3,500),

and that said sum of money be obtained by the issuing of the promissory notes of the city of Manchester, said notes to be dated the same day as the date of the deed from the owner of said land to the city, and to be payable to the order of the maker of said deed, one half of the purchase price July 1, 1897, and the other one half July 1, 1898, and to bear no interest until after the date of payment of each of said notes; and to be signed by the city treasurer and countersigned by the mayor, and the mayor and city treasurer are authorized to do all things necessary to issue said notes.

Passed December 1, 1896.

CITY OF MANCHESTER.

RESOLUTION to discontinue certain Streets and Sewers.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

SECTION 1. That all streets and sewers as shown on the city plan and within the boundary of the land purchased by the city, and known as the West Side park, be and are hereby repealed.

SECT. 2. This resolution shall take effect upon its passage.

Passed May 4, 1897.

CITY OF MANCHESTER.

RESOLUTION making a Temporary Loan of Two Hundred Thousand Dollars.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That for the purpose of paying such claims against the city as may fall due before the twenty-third of December,

1897, the mayor be and hereby is authorized to make a temporary loan for the use of the city, of a sum not exceeding two hundred thousand dollars (\$200,000), being in anticipation of the taxes of the present year; giving for the same the notes of the city, signed by the mayor and countersigned by the city treasurer.

Passed June 29, 1897.

CITY OF MANCHESTER.

RESOLUTION for the Transfer of Money.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That for the purpose of paying a promissory note of seventeen hundred and fifty dollars (\$1,750), of the city of Manchester, due July 1, 1897, being one of two such notes held by Augustus F. and Edwin C. Swift against the city of Manchester, for the sale of a tract of land on the bank of the Piscataquog river in West Manchester, purchased by vote of the city councils in 1896, that there be transferred from the appropriation for the reserved fund the sum of seventeen hundred and fifty dollars (\$1,750) to a special appropriation for the purchase of land on the bank of the Piscataquog river, and that said note, due July 1, 1897, be charged to said appropriation for the purchase of land on the bank of the Piscataquog river, and said sum of seventeen hundred and fifty dollars (\$1,750) is hereby appropriated for said purpose.

Passed June 29, 1897.

CITY OF MANCHESTER.

RESOLUTION relating to the Transfer of Money.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is authorized to make the following transfers:

From the appropriation for reserved fund to a special appropriation, to be known as an appropriation for the dedication of the Weston observatory, the sum of one hundred and fifty dollars (\$150), and that the joint standing committee on finance be and hereby is authorized to expend such sum, or as much of it as may be necessary to defray the expenses of said dedication.

Passed September 7, 1897.

CITY OF MANCHESTER.

RESOLUTION relating to the Transfer of Money.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is authorized to make the following transfers:

From the appropriation for Amoskeag bridge abutment to the appropriation for paving Elm and Granite streets, the unexpended balance of said appropriation for Amoskeag bridge abutment.

Passed September 7, 1897.

CITY OF MANCHESTER.

RESOLUTION relating to the Transfer of Money.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and hereby is authorized to make the following transfers:

From the appropriation for reserved fund to a special appropriation, to be known as an appropriation for the dedication of the Manchester high school, the sum of one hundred and fifty dollars (\$150), and that the joint standing committee on finance be and is hereby authorized to expend such sum, or as much of it as may be necessary to defray the expenses of said dedication.

Passed September 7, 1897.

CITY OF MANCHESTER.

RESOLUTION for transferring certain Money.

Resolved by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and is hereby authorized to make the following transfers:

From the appropriation for repairs of highways to the appropriation for snow and ice, \$494.28; from the appropriation for reserved fund to the appropriation for repairs of buildings, \$500; and from the appropriation for reserved fund to incidental expenses, \$4,000.

Passed October 5, 1897.

CITY OF MANCHESTER.

AN ORDER to erect certain Fire-Alarm Boxes.

Ordered, If the Board of Mayor and Aldermen concur: That the chief engineer of fire department be authorized to erect certain fire-alarm boxes as follows:

On new Mast road near D street; at the corner of Merrimack and Beacon streets. The expense thereof to be charged to the appropriation for fire-alarm telegraph.

Passed January 4, 1897.

AN ORDER to build certain Sewers.

Ordered, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to build certain sewers as follows:

In Dubuque east back street from Kelley street northerly to Coolidge avenue west back street, and thence 200 feet north of Bremer street in Coolidge avenue west back street; in Milford street from Amherst road westerly about 300 feet; in Hanover street from near Beacon street to Highland street; in Valley street from near Belmont to Cypress street; in Harvard street from Wilson street easterly 200 feet. And the expense thereof be charged to the appropriation for new sewers.

Passed January 4, 1897.

CITY OF MANCHESTER.

AN ORDER to establish the grade of South Main street.

Ordered, If the Board of Mayor and Aldermen concur: That the grade of South Main street from Boynton road to Bedford town line be established as follows:

The intersection of South Main and Boynton on the west side of South Main shall be 71.50; at 19 feet south of Boyn-

ton road on west side grade shall be 71.30; at 69 feet south of Boynton road on west side grade shall be 70.70; at 119 feet south of Boynton road on west side grade shall be 70.10; at 169 feet south of Boynton road on west side grade shall be 69.60; at 219 feet south of Boynton road on west side grade shall be 69.20; at 269 feet south of Boynton road on west side grade shall be 69.00; at 319 feet south of Boynton road on west side grade shall be 69.00. Then the grade to fall 0.115 per 100 for 1,300 feet. Then at 1,619 from south of Boynton road on west side grade shall be 67.50; then at 1,669 from south of Boynton road on west side grade shall be 67.55; then at 1,719 from south of Boynton road on west side grade shall be 67.70; then at 1,769 from south of Boynton road on west side grade shall be 68.00; then at 1,819 from south of Boynton road on west side grade shall be 68.45; then at 1,869 from south of Boynton road on west side grade shall be 68.80; then at 1,919 from south of Boynton road on west side grade shall be 69.00; then 100 feet level at 69.00. Then the grade to rise 0.125 per 100 for 400 feet; grade to be 69.50. Then 50 feet from elevation 69.50 the grade shall be 69.50; at 100 feet from first elevation 69.50 the grade shall be 69.30; at 150 feet from first elevation 69.50 the grade shall be 69.00. Then the grade to fall 0.467 per 100 for 900 feet grade shall be 64.80. At 50 feet from elevation 64.80 the grade shall be 64.55; at 100 feet from elevation 64.80 the grade shall be 64.10; at 150 feet from elevation 64.80 the grade shall be 63.50; at 200 feet from elevation 64.80 the grade shall be 63.00; at 250 feet from elevation 64.80 the grade shall be 62.60; at 300 feet from elevation 64.80 the grade shall be 62.30; then the grade to fall 0.1107 per 100 for 271 feet, grade shall be 62.00. The east side of South Main shall be parallel to the west side of said street, and one foot lower as shown on plans 993, 994, 995, 996 on file in the city engineer's department.

And the same is hereby made the established grade of said street.

Passed January 4, 1897.

CITY OF MANCHESTER.

AN ORDER to establish the Grade of Alsace Street.

Ordered, If the Board of Mayor and Aldermen concur: That the grade of Alsace street from Kelley street northerly to Bremer be and is hereby made the established grade, as follows:

The grade at the intersection of the west line of Alsace street and the north line of Kelley street shall be 142.22; at 50 feet north of Kelley street grade shall be 143.75; at 100 feet north of Kelley street grade shall be 145.90; at 150 feet north of Kelley street grade shall be 147.75; at 200 feet north of Kelley street grade shall be 149.10; at 250 feet north of Kelley street grade shall be 149.80; at 300 feet north of Kelley street grade shall be 150.00; then 250 straight grade .20 making elevation at the corner of Bremer and Alsace streets 150.50. The east side of the street shall be level with the grade of said west side.

Passed January 4, 1897.

CITY OF MANCHESTER.

AN ORDER to Build Cleveland Street.

Ordered, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to build to grade Cleveland street from its intersection of Second, thence easterly to the Merrimack river. And the expenses thereof to be charged to the appropriation for new streets.

Passed January 4, 1897.

CITY OF MANCHESTER.

AN ORDER to establish the Grade of Chestnut Street.

Ordered, If the Board of Mayor and Aldermen concur: That the grade of Chestnut street from Clark to Trenton street be established as follows:

At northeast corner of Clark and Chestnut grade shall be elevation 156.50. Then grade to rise 2.75 per 100 feet for 400 feet to elevation 167.50; then grade to rise 2.411 per 100 feet for 170 feet to elevation 171.60; then grade to rise 2.444 per 100 feet for 180 feet to elevation 178.00; then grade to rise 2.912 per 100 feet for 412 feet to elevation 188, being the southeast corner of Chestnut and Carpenter.

The northeast corner of Chestnut and Carpenter grade shall be 190.25. At 36 feet from corner of Chestnut and Carpenter, east side, grade shall be 191.50; at 86 feet from corner of Chestnut and Carpenter, east side, grade shall be 194.40; at 136 feet from corner of Chestnut and Carpenter, east side, grade shall be 197.85; then grade to rise 8.40 per 100 feet for 100 feet to elevation 206.25. At 50 feet from elevation 206.25 grade shall be 210.20; at 100 feet from elevation 206.25 grade shall be 213.65; at 150 feet from elevation 206.25 grade shall be 216.65; at 200 feet from elevation 206.25 grade shall be 219.10; at 247 feet from elevation 206.25 on the southeast corner of Chestnut and Trenton the grade shall be 221.00.

The grade of Chestnut street from Clark to Trenton street, on west side, shall be as follows:

At the northwest corner of Clark and Chestnut grade shall be 156.50; then grade to rise 2.75 per 100 for 400 feet to elevation 167.50; then grade to rise 2.588 per 100 for 170 feet to elevation 171.90; then grade to rise 2.611 per 100 for 180 feet to elevation 176.60; then grade to rise 2.949 per 100 for 412 feet to elevation 188.75, being the southeast corner of Chestnut and Carpenter streets.

The northeast corner of Chestnut and Carpenter streets grade shall be 189.50. At 56 feet from corner of Chestnut and Carpenter, west side, grade shall be 190.90; at 86 feet from corner of Chestnut and Carpenter, west side, grade shall be 193.55; at 136 feet from corner of Chestnut and Carpenter, west side, grade shall be 197.20. Then grade to rise 8.50 per 100 for 100 feet, grade shall be 205.70. At 50 feet from elevation 205.70 grade shall be 209.70; at 100 feet from elevation 205.70 grade shall be 213.10; at 150 feet from elevation 205.70 grade shall be 216.10; at 200 feet from elevation 205.70 grade shall be 218.60; at 247 feet from elevation 205.70 on the southwest corner of Chestnut and Trenton streets the grade to be 220.50.

Passed January 4, 1897.

CITY OF MANCHESTER.

AN ORDER relating to the Final Transfers for the year 1896.

Ordered, If the Board of Mayor and Aldermen concur: That the city clerk be and hereby is authorized to make the following transfers, to wit:

To reserved fund:

From interest.....	\$1,800.51
printing and stationery.....	561.45
city officers' salaries.....	2,714.51
mayor's incidentals.....	50.46
auditor's department.....	30.23
street and park commission.....	287.97
land taken for highways.....	2,088.88
watering streets.....	803.52
macadamizing streets.....	151.52
street sweeping.....	31.56
scavenger service.....	1,008.90
lighting streets.....	573.40

ORDERS.

729

From health department.....	\$36.61
books and stationery.....	53.96
care of rooms.....	468.44
teachers' salaries.....	1,161.05
evening schools.....	438.50
evening school, mechanical drawing.....	143.75
manual training.....	96.71
fire-alarm telegraph.....	269.58
police station.....	487.69
police court.....	32.01
paving streets.....	320.69
police patrol.....	.19
commons	148.85
Amoskeag cemetery.....	.28
indigent soldiers.....	164.15
abatment of taxes.....	11,816.04
free cash in treasury in excess of appro- priations	8,540.42
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	\$24,281.83

From reserved fund:

To city hall.....	\$316.61
incidental expenses.....	3,026.42
repairs of highways.....	312.78
snow and ice.....	308.94
bridges	336.88
grading for concrete.....	35.82
city teams.....	285.70
repairs of sewers.....	421.63
new bridge, Granite street.....	7,527.73
engineer's department.....	1,395.25
repairs of schoolhouses.....	578.38
fuel	284.03
furniture and supplies.....	114.14
printing and advertising.....	129.56
contingent expenses.....	257.79

To free text-books.....	\$58.42
fire department.....	2,567.65
police commission.....	856.75
repairs of buildings.....	1,549.68
new schoolhouse, West Manchester.....	255.54
Valley cemetery.....	6.84
Pine Grove cemetery.....	93.54
paupers off the farm.....	1,640.67
city farm.....	463.89
decoration of soldiers' graves.....	7.47
new sewers.....	186.06
new schoolhouses.....	2,452.87
	<hr/>
Total	\$25,471.04

Passed January 4, 1897.

CITY OF MANCHESTER.

AN ORDER relating to Claims and Suits against the City.

Ordered, If the Board of Mayor and Aldermen concur: That the mayor and the city solicitor be authorized to dispose of suits against the city now pending in court, or which may be entered in court during the ensuing two years, as they deem best, and that they be a special committee to consider claims against the city, with authority to settle such claims as they deem proper, when the amount involved in such settlement does not exceed two hundred and fifty dollars.

Passed February 9, 1897.

CITY OF MANCHESTER.

AN ORDER to print the Fifty-first Annual Report of the Receipts and Expenditures of the City of Manchester.

Ordered, If the Board of Mayor and Aldermen concur: That the joint standing committee on finance be, and they hereby

are, authorized to procure, for the use of the inhabitants of said city, the printing of the fifty-first annual report of the receipts and expenditures of the city of Manchester, including the reports of the joint standing committee on finance, the city auditor, the school board and superintendent of schools, superintendent of water-works, water commissioners, engineer of fire department, police commissioners, overseers of the poor, trustees, librarian and treasurer of the city library, committee on cemeteries, joint standing committee on city farm, city physician, city solicitor, city engineer, street and park commissioners, and such other matters relating to city affairs as said finance committee may direct: and also to procure the printing of the mayor's inaugural address of January 5, 1897, the expense thereof to be charged to the appropriation for printing and stationery.

Passed February 2, 1897.

CITY OF MANCHESTER.

AN ORDER to purchase Horses for the Fire Department.

Ordered, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on fire department be and are hereby authorized to purchase two horses for use of the Manchester fire department, at a cost not exceeding one hundred and twenty-five dollars (\$125) for each horse purchased. The expense thereof to be charged to the appropriation for fire department.

Passed March 5, 1897.

CITY OF MANCHESTER.

AN ORDER to repair Public Buildings.

Ordered, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on lands and build-

ings be and are hereby authorized to make necessary repairs in and upon the public buildings, the expense thereof to be charged to the appropriation for repairing buildings.

Passed April 6, 1897.

CITY OF MANCHESTER.

AN ORDER authorizing the Committee on Setting Trees to Expend \$200 for Trees.

Ordered, If the Board of Mayor and Aldermen concur: That the committee on setting trees be authorized to expend two hundred dollars (\$200) for shade trees, the expense thereof to be charged to the appropriation for incidental expenses.

Passed May 4, 1897.

CITY OF MANCHESTER.

AN ORDER relative to the New High School.

Ordered, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on lands and buildings be and are hereby authorized and empowered to carry out and complete all contracts entered into by authority of order of city councils passed September 3, 1895; and are hereby invested with all the authority contained in said order.

Passed May 4, 1897.

CITY OF MANCHESTER.

AN ORDER to Build Certain Sewers.

Ordered, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to build certain sewers as follows:

In Silver street from Lincoln to Wilson street; in Beacon street, from east of Beacon westerly about 150 feet; and the expense thereof be charged to the appropriation for new sewers.

Passed June 1, 1897.

CITY OF MANCHESTER.

AN ORDER to purchase Horses for the Fire Department.

Ordered, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on fire department be and are hereby authorized to purchase two horses for use of the Manchester fire department, the expense thereof to be charged to the appropriation for fire department.

Passed June 1, 1897.

CITY OF MANCHESTER.

AN ORDER to build a Sewer in Walnut Street.

Ordered, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to build a sewer in Walnut street, from Salmon street southerly 175 feet, and the expense thereof be charged to the appropriation for new sewers.

Passed June 29, 1897.

CITY OF MANCHESTER.

AN ORDER for extra Electric Work at the New High School.

Ordered, If the Board of Mayor and Aldermen concur: That the bill of Perkins & Franks for extra electric wiring and

electric apparatus at the new high school, amounting to \$730.50, be paid, and the amount be charged to the appropriation for new schoolhouses.

Passed July 6, 1897.

CITY OF MANCHESTER.

AN ORDER relating to the Parker School Lot.

Ordered, If the Board of Mayor and Aldermen concur: That the committee on lands and buildings be authorized and empowered to complete the grading of the Parker school lot, set the steps, concrete the walks and sidewalks, and do other necessary concrete work; and that there be appropriated for that purpose the sum of three hundred dollars (\$300), and that said sum of three hundred dollars be transferred from the reserved fund, and to be known as the appropriation for the Parker school lot.

Passed July 6, 1897.

CITY OF MANCHESTER.

AN ORDER in relation to the Appropriation for Decoration of Soldiers' Graves.

Ordered, If the Board of Mayor and Aldermen concur: That the bill of Louis Bell post, No. 3, G. A. R., for expenses incurred on Memorial day, in decorating soldiers' graves, be paid, and that it be charged to appropriation for decoration of soldiers' graves.

Passed July 6, 1897.

CITY OF MANCHESTER.

AN ORDER to build a Sewer on Silver Street.

Ordered, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to build a sewer on Silver street, from Wilson to Hall street, and the expenses thereof be charged to the appropriation for new sewers.

Passed July 6, 1897.

CITY OF MANCHESTER.

AN ORDER to erect Electric Lights.

Ordered, If the Board of Mayor and Aldermen concur: That the mayor and the joint standing committee on lighting streets be and are hereby authorized to erect the following electric lights:

Corner of Amherst and Chestnut; corner of Salmon and Beech streets.

Passed August 3, 1897.

CITY OF MANCHESTER.

AN ORDER to Macadamize a Portion of Pearl Street.

Ordered, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to macadamize Pearl street, from Pine to Union street, the expense thereof to be charged to the appropriation for macadamizing.

Passed August 3, 1897.

CITY OF MANCHESTER.

AN ORDER relative to the Publication of the Semi-Centennial History of the City of Manchester.

Ordered, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on finance be and they are hereby authorized to expend a sum not exceeding six hundred dollars (\$600), in aid of the publication of a semi-centennial history of the city of Manchester, now in process of compilation by Herbert W. Eastman, under the direction of the special committee appointed by the authority of the last city council, which had in charge the recent semi-centennial celebration, the expense to be charged to the special appropriation for semi-centennial history.

Passed August 3, 1897.

CITY OF MANCHESTER.

AN ORDER for the Apportionment of the Appropriation for Militia Armories.

Ordered, If the Board of Mayor and Aldermen concur: That the one thousand dollars (\$1,000) appropriated for militia armories be apportioned as follows:

- \$100 to band, First Regiment N. H. N. G.
- \$100 to Co. C, First Regiment N. H. N. G.
- \$100 to Co. F, First Regiment N. H. N. G.
- \$100 to Co. H, First Regiment N. H. N. G.
- \$100 to Co. L, First Regiment N. H. N. G.
- \$100 to Manchester War Veterans.
- \$100 to Amoskeag Veterans.
- \$100 to Manchester Cadets.
- \$100 to Louis Bell Post, G. A. R.
- \$100 to Joseph Freschl Post, G. A. R.

Passed August 3, 1897.

CITY OF MANCHESTER.

AN ORDER to erect New Lanterns with Gasoline Attachments in the District of Lake Massabesic.

Ordered, If the Board of Mayor and Aldermen concur: That the mayor and the joint standing committee on lighting streets are hereby authorized to purchase and erect thirty or more new copper top lanterns, with plate burners and fixtures attached for gasoline, with all the apparatus necessary, at the district at Lake Massabesic, and the expenses thereof not to exceed three hundred dollars (\$300), and to be charged to the appropriation for lighting streets.

Passed August 3, 1897.

CITY OF MANCHESTER.

AN ORDER to establish the Grade of Glenwood Avenue.

Ordered, If the Board of Mayor and Aldermen concur: That the grade of the northeast corner of Page and Glenwood avenue shall be elevation 237.10; then the grade drops in running east .90 feet per 100 feet for 730 feet, or to the Colby land. The southeast corner of Page and Glenwood avenue shall be elevation 237.60, and then the grade to drop .90 feet per 100 feet for 730 feet in going easterly or to the Colby land.

And the same is hereby made the established grade of said street, reference being made to plan on file in the city engineer's department.

Passed August 25, 1897.

CITY OF MANCHESTER.

AN ORDER to build Lake Avenue to Width and Grade between Cass Street and Beacon Street.

Ordered, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby

instructed to build Lake avenue to width and grade between Cass street and Beacon street, the same to be charged to the appropriation for grading for concrete.

Passed September 7, 1897.

CITY OF MANCHESTER.

AN ORDER to build Certain Sewers.

Ordered, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to build certain sewers as follows:

In Union street from Silver to Hayward; in Prescott street from Wilson street east about 208 feet; in Hayward street from Belmont street to Cypress street; in Taylor street from Valley northerly about 400 feet; in Amory street from Alsace easterly about 200 feet.

And the expense thereof be charged to the appropriation for new sewers.

Passed September 7, 1897.

CITY OF MANCHESTER.

AN ORDER to build Certain Sewers.

Ordered, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to build certain sewers, as follows:

In Grove south back from east of Union to Beech street; in Rimmon east back street from Kelley to Mason; in Everett from Clarke street southerly about 300 feet, and the expense thereof be charged to the appropriation for new sewers.

Passed September 7, 1897.

CITY OF MANCHESTER.

AN ORDER for the construction of a Bicycle Side-Path.

Ordered, If the Board of Mayor and Aldermen concur: That the sum of six hundred dollars (\$600) be and is hereby transferred from the reserve fund to the street and park commission, and that the same be used for the construction of a bicycle path on Hall road, commencing at the corner of Masabesic street and Candia road; said path to be four feet wide, constructed of clay and cinders, built to the grade of the present road, and the street and park commissioners are requested to commence work immediately on the passing of this order.

Passed October 5, 1897.

CITY OF MANCHESTER.

AN ORDER to build a Sewer in Whittemore Land.

Ordered, If the Board of Common Council concur: That the board of street and park commissioners be and are hereby authorized to build a sewer in the Whittemore land according to deed from Mrs. Whittemore, dated December 12, 1896, and the Boston & Maine railroad, dated June 24, 1897, and rights granted by Gustave F. and Edmond C. Swift, by deed dated April, 1897, and as shown by plans of the same on file in the city engineer's department, and the expense thereof be charged to the appropriation for new sewers.

Passed October 5, 1897.

CITY OF MANCHESTER.

AN ORDER to build Certain Sewers.

Ordered, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to build certain sewers as follows:

In Maple street from Prescott to Hayward street; in Beech street from Silver to Harvard street; in Harvard street from Beech to Maple street; in Somerville street from Wilson to Hall street; in Russell street from Harrison street northerly 350 feet; in Grove south back street from Wilson easterly about 200 feet; in River road north from Clarke street to Park avenue proposed; in Central street from Belmont to Milton street.

And the expense thereof be charged to the appropriation for new sewers.

Passed November 2, 1897.

CITY OF MANCHESTER.

AN ORDER to purchase Horses for City Farm.

Ordered, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on city farm be authorized to purchase one pair of horses for use at the city farm, the price thereof not to exceed two hundred and fifty dollars (\$250) for the pair, the expense thereof to be charged to the appropriation for city farm.

Passed November 2, 1897.

CITY OF MANCHESTER.

AN ORDER relating to covering into the Treasury Unclaimed Bills prior to December, 1892.

Ordered, If the Board of Mayor and Aldermen concur, That the city treasurer be and hereby is authorized to cover into the city treasury, by charging to the reserved fund, the sum of twenty-nine dollars and sixty-four cents (\$29.64).

The amount being the sum due sundry persons at various times prior to December, 1892, and unclaimed, as shown on the list in the treasurer's office.

Passed December 7, 1897.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-SEVEN.

AN ORDINANCE changing the Names of Certain Streets.

Be it ordained by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

SECTION 1. That the names of certain streets in said city be changed, as follows: Dickey street in West Manchester, which was laid out by the board of mayor and aldermen, August 28, 1891, running from South Main to West Hancock street, to Goffe street.

SECT. 2. This ordinance shall take effect upon its passage.

Passed to be ordained August 3, 1897.

CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-SEVEN.

AN ORDINANCE in Amendment to Chapter 14, Section 1.

Be it ordained by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That there be inserted after the words "brick or stone," in the sixth line, the words "or sheathed with metal or other incombustible material," so that said section when amended shall read as follows:

SECTION 1. No person shall erect or build any steam mill, furnace, foundry, blacksmith shop, house for storing powder, nor shall any person use or occupy, or suffer any other person to use or occupy, any building already erected for such purpose, within the city of Manchester, unless the

same is built of brick or stone or sheathed with metal or other incombustible material, and the roof thereof covered with slate or tin, or other incombustible material, and unless the board of mayor and aldermen shall give a license therefor.

Passed to be ordained December 7, 1897.

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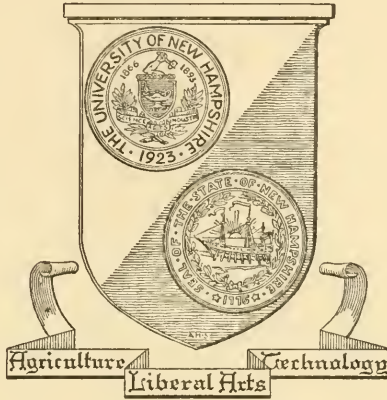
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