

D.

FIRE-HYDRANTS.

H, HIGH SERVICE; L, LOW SERVICE.

STREETS.	LOCATIONS.	Service.	Number.	
North Main . . .	Southwest corner of Penacook	L		
	East side, near J. B. Walker's	L		
	Junction of Fiske	L		
	East side, near Larkin's store	H		
	Northwest corner of Franklin	H		
	East side, opposite Pearl	H		
	Northwest corner of Washington	L		
	West side, at West Garden	H		
	East side, opposite Chapel	L		
	Northwest corner of Court	L		
	Northwest corner of Pitman	H		
	Northwest corner of Montgomery	H		
	East side, opposite Montgomery	L		
	Northwest corner of Centre	H		
	Southeast corner of Bridge	L		
	Southwest corner of Park	L		
	East side, opposite Park	H		
	Northwest corner of Capitol	H		
	Northwest corner of School	L		
	West side, at Centennial Block	H		
	East side, opposite Centennial Block	L		
	East side, in rear Eagle Hotel	L		
	East side, in rear Woodward Block	L		
	Northwest corner of Warren	L		
	West side at Central Block	H		
	Northwest corner of Depot	L		
	Northwest corner of Pleasant	L		
	South Main	Southeast corner of Pleasant	H	
		Northeast corner of Freight	L	
		East side, opposite Fayette	H	
East side, opposite Thompson		L		
Southeast corner of Chandler		H		
Northwest corner of Wentworth Avenue		H		
Northwest corner of Thorndike		L		
East side, opposite St. John's Church		H		
Northwest corner of Perley		L		
West side, near Abbot & Downing Co.'s		H		
East side, opposite Abbot & Downing Co.'s		L		
East side, near West		H		
Northeast corner of Gas		L		
West side, opposite Holt Bros. Mfg. Co.		H		
Southwest corner of South State		H		
Northwest corner of Pillsbury	L			
East side, opposite Pillsbury	L			

FIRE-HYDRANTS.—Continued.

STREETS.	LOCATIONS.	Service.	Number.
South Main	West side, opposite entrance to R. R. shops	H	20
	West side, at Lamprey's	L	
	West side, below Wiggin	L	
Water Hall	West side, below Bridge	L	1
	West side, opp. Rolfe and Rumford Asylum	L	
	West side, near E. W. Robinson's	L	
	West side, near W. A. Phillips'	L	
	West side, opposite Hammond	L	
	West side, opposite Home Avenue	L	
	East side, opposite Roy's	L	
	East side, near Rumford Field	L	
Hammond	North side, near Bridge	L	7
	East side, opposite Ford & Kimball's	L	
Railroad	West side, near North State	L	1
Fiske	Northeast corner of Pitman	H	1
Summer	East side, opposite Toof's laundry	L	1
Durgin North State	Southwest corner of Penacook	L	1
	Northwest corner of Walker	H	
	Northwest corner of Church	L	
	Northeast corner of Franklin	L	
	Northwest corner of Tremont	L	
	Northeast corner of Washington	L	
	West side, opposite Court	L	
	Southwest corner of Maple	L	
	Southeast corner of Centre	L	
	Southeast corner of Park	L	
	Southwest corner of School	L	
	Southeast corner of Warren	L	
	Northwest corner of Warren	H	
	Northwest corner of Pleasant	L	
South State	Southeast corner of Pleasant	H	14
	East side, opposite Wall	L	
	Northwest corner of Thompson	L	
	Southwest corner of Monroe	L	
	East side, opposite Laurel	L	
	Northeast corner of Downing	L	
	Northeast corner of West	L	
Mills	Southwest corner of Harrison	L	8
	West side, near Levi Call's	L	
Dakin	Northwest corner of Allison	L	2
	West side, near C. E. Harriman's	L	
Dunklee Broadway	West side, 150 feet south of West	L	1
	Northwest corner of Allison	L	
	Northwest corner of Pillsbury	L	
	West side, at H. H. Metcalf's	L	
Broadway	Northwest corner of Allison	L	3
	Northwest corner of Carter	L	
	Northwest corner of Stone	L	

FIRE-HYDRANTS.—*Continued.*

STREETS.	LOCATIONS.	Service.	Number.
Broadway	West side, at Rollins Park	L	
	West side, opposite McKinley	L	
	West side, between McKinley and Rockingham	L	
Donovan	Northeast corner of Wiggin	L	7
Green	Northwest corner of Prince	H	1
	East side, opposite Prince	L	
South	Northwest corner of Warren	L	3
	West side, opposite Wall	L	
	Northwest corner of Fayette	L	
	Northwest corner of Thompson	L	
	West side, opposite Monroe	L	
	West side, opposite Laurel	L	
	West side, below N. H. Memorial Hospital	L	
	West side, opposite Downing	L	
	West side, opposite Allison	L	
	West side, opposite Pillsbury	L	
	West side, near Paige's	L	
	West side, opposite I. W. Bushey's	L	
	Northwest corner of Iron Works Road	L	
	East side, at Quint's	L	
Bradley	West side, near Bow line	L	14
	Southwest corner of Penacook	H	
	Northwest corner of Walker	L	
	East side, opposite Highland	L	
Union	Northwest corner of Franklin	L	4
	Northwest corner of Maple	L	
Jackson	Northeast corner of Church	H	1
Lyndon	Southwest corner of Tremont	H	2
	East side, opposite Abbott	H	
North Spring	Northeast corner of Maple	L	
	Southwest corner of Centre	H	
	West side, at High School	H	
	East side, opposite High School	L	
South Spring	Southwest corner of School	H	5
	Southwest corner of Oak	L	
	West side, opposite Thompson	L	
Academy	West side, opposite Concord	L	4
	West side, near Memorial Hospital	L	
Hanover	East side, at F. E. Hook's	H	1
	West side, at No. 10	L	
Rumford	West side, south of cemetery gate	H	1
	West side, opposite Perkins	L	
	Northeast corner of Albin	L	
	Northeast corner of Franklin	L	
	Northwest corner of Beacon	H	
	Northeast corner of Abbott	L	
	Northeast corner of Cambridge	L	

FIRE-HYDRANTS.—*Continued.*

STREETS.	LOCATIONS.	Service.	Number.
Rumford	Northwest corner of Centre	H	
	Northeast corner of School	L	9
Huntington	West side, at head of Short	H	1
Tahanto	Northwest corner of School	H	1
Pine	Southwest corner of Centre	H	
	Southwest corner of Warren	H	2
Holt	East side, at Nason's	H	1
High	Northwest corner of Auburn	H	
	Northwest corner of Valley	H	
	East side, opposite Forest	H	
	Southwest corner of Franklin	H	4
Valley	Northeast corner of Forest	H	1
Auburn	Northeast corner of Chestnut	H	
	Northeast corner of Forest	H	
	North side, between Centre and Forest	H	3
Ridge Road	West side, opposite Mrs. Jackman's	H	1
Westbourne Rd.	North side, north of Mrs. F. P. Hallett's	H	1
Dartmouth	Southwest corner of Clinton	L	1
Princeton	Southwest corner of Clinton	L	
	Northwest corner of Noyes	L	2
Fruit	Northeast corner of Woodman	H	
	West side, near V. A. Dearborn's	L	
	East side, opposite W. W. Critchett's	L	
	East side, opposite Kilburn's	L	4
Minot	West side, north of Odd Fellows' Home	H	
	West side, south of Odd Fellows' Home	H	
	Northwest corner of Pleasant	H	3
Kensington Rd.	Northwest corner of Pleasant	H	1
Stevens Ave.	Northeast corner of Pleasant	H	1
Penacook	South side, near Concord Lumber Co.	H	
	South side, east of P. B. Co.'s storehouse	L	
	South side, near P. B. Co.'s	H	
	South side, near P. B. Co.'s office	H	
	Southeast corner of North Main	H	
	Southwest corner of Rumford	H	
	North side, opposite T. Hannigan's	H	
	Southeast corner of Columbus Avenue	H	8
Walker	Southwest corner of Martin	L	1
Albin	North side, near D. Weathers'	L	1
Highland	North side, between Bradley and Rumford	L	
	Northeast corner of Rumford	L	2
Church	South side, east of Bradley	L	
	North side, opposite Lyndon	H	
	Northeast corner of Rumford	H	3
Franklin	Northwest corner of Jackson	H	
	Northeast corner of Lyndon	H	
	Southwest corner of Rumford	H	
	South side, opposite W. J. Ahern's	H	

FIRE-HYDRANTS.—*Continued.*

STREETS.	LOCATIONS.	Service.	Number.
Franklin.....	North side, between High and Auburn.....	H	6
	Northeast corner of Auburn.....	H	
Chestnut.....	Northwest corner of High.....	H	1
Tremont.....	North side, east of Harrod.....	L	2
	Southwest corner of Jackson.....	H	
Pearl.....	North side, at Kimball Flanders'.....	L	1
Beacon.....	North side, opposite Merrimack School.....	H	5
	Northwest corner of Jackson.....	H	
	Southwest corner of Lyndon.....	H	
	North side, opposite White.....	H	
	South side, opposite Charles.....	H	
Rowell.....	Northeast corner of White.....	H	1
Blanchard.....	Northwest corner of Essex.....	H	1
Ferry.....	North side, opposite Ford's foundry.....	H	4
	North side, near N. E. Granite Works.....	H	
	North side, east of C. & M. R. R.....	L	
	Northwest corner of Huntoon Avenue.....	H	
Washington....	North side, opposite Rollins.....	L	6
	Southwest corner of Union.....	L	
	Northeast corner of Lyndon.....	H	
	Northwest corner of Rumford.....	H	
	Northwest corner of North Essex.....	H	
	North side, opposite Perry Avenue.....	H	
Chapel.....	South side, near Methodist Church.....	L	1
Montgomery...	South side, opposite Minot's.....	L	1
Center.....	Northeast corner of North State.....	H	7
	Southwest corner of Green.....	L	
	Northwest corner of Union.....	H	
	Northwest corner of North Spring.....	L	
	South side, opposite Essex.....	H	
	Southwest corner of Summit Avenue.....	H	
	Northeast corner of Ridge Road.....	H	
Bridge.....	South side, near easterly barn.....	L	3
	North side, opposite Concord Coal Co.'s.....	H	
Park.....	North side, opposite Concord Shoe Factory..	H	1
Capitol.....	North side, at St. Paul's Church.....	L	2
	North side, at south gate of State House yard	H	
Garden.....	Northeast corner of North State.....	H	1
	Northeast corner of Huntington.....	H	
	South side, west of Durgin.....	H	
	Northwest corner of North State.....	H	
	Northeast corner of Green.....	H	
	Northwest corner of Green.....	L	
	Northwest corner of North Spring.....	L	
	Northwest corner of Rumford.....	L	
	Northwest corner of Merrimack.....	H	
Northwest corner of Pine.....	H		
School.....	Northeast corner of Liberty.....	H	

FIRE-HYDRANTS.—Continued.

STREETS.	LOCATIONS.	Service.	Number.
School	North side, opposite E. B. Woodworth's	H	
	Southeast corner of Giles	H	11
Warren	Southeast corner of Odd Fellows Avenue	H	
	Southeast corner of Fremont	L	
	Northwest corner of North Spring	L	
	Northwest corner of Rumford	H	
	Southwest corner of Merrimack	H	
	Northwest corner of Tahanto	H	
	Northeast corner of Liberty	H	
	Northeast corner of Giles	H	
Depot	Junction of Pleasant, near Fruit	H	9
	South side, at north end of train shed	H	
	Northwest corner of Railroad Square	L	2
Blake	South side, at H. B. Boutwell's	L	1
Orchard	South side, opposite Sherburne's	H	1
Pleasant	Southwest corner of Railroad Square	H	
	Northwest corner of Railroad Square	L	
	South side, at South Congregational Church	L	
	Southeast corner of South	L	
	Northeast corner of Fremont	L	
	Southwest corner of Spring	H	
	South side, opposite Rumford	H	
	South side, opposite Merrimack	H	
	South side, opposite Pine	H	
	South side, opposite Liberty	H	
	North side, near city stable	H	
	South side, near Gale	H	
	South side, opposite Mrs. Aiken's	H	
	South side, near Mrs. Eddy's cottage	H	
	South side, at Lavery's	H	
	South side, opposite No. 270	H	
	North side, near James Lane's	H	
	North side, opposite No. 291	H	
	North side, near J. McC. Hammond's	H	
	South side, opposite Fiske Road	H	
	Southwest corner of School Avenue	H	
	North side, at chapel	H	
	South side, opposite Lower School	H	
	South side, near new Upper School	H	24
Fiske Road	East side, at Trask's	H	1
Hopkinton Road	South side, near new infirmary	H	1
Mill Road	East side, near laboratory	H	
St. P. School	North side, at Orphans' Home	H	
	South side, at tenement No. 7	H	3
Old Hopkinton Road	Junction of Hopkinton road	H	1
Wall	Northeast corner of Elm	L	1
Marshall	North side, opposite Fuller	L	1

FIRE-HYDRANTS.—Continued.

STREETS.	LOCATIONS.	Service.	Number.
Freight	No. side at southwest corner pass. station	H	1
Hill's Avenue	Southwest corner of Railroad Square	L	
	Northeast corner of South Main	L	2
Fayette	Northwest corner of Elm	L	1
Thompson	North side, opposite Jefferson	L	1
Chandler	South side, opposite Railroad	L	1
Concord	Southwest corner of South State	L	
	Northwest corner of Jefferson	L	
	Northeast corner of South	L	3
Monroe	North side, opposite Grove	L	
	South side, at Rumford School	L	2
Thorndike	Southwest corner of South State	L	
	Northeast corner of Grove	L	
	North side, opposite Pierce	L	
	Northeast corner of South Spring	L	4
Laurel	Northwest corner of Grove	L	
	Northwest corner of Pierce	L	2
Perley	Southwest corner of South State	L	
	Northwest corner of Grove	L	
	Northeast corner of Pierce	L	
	South side, near old brook	L	4
Downing	South side, opposite Grove	L	
	Southeast corner of Mills	L	
	Southwest corner of Redwood Avenue	L	3
Clinton	North side, opposite Harvard	L	
	North side, opposite Avon	L	
	Northeast corner of Fruit	L	
	North side, near Snell's	L	
	North side, at State Fair grounds	L	5
West	North side, near South Main	L	
	North side, near Badger	L	
	Northeast corner of Mills	L	
	North side, opposite Dakin	L	
	Northwest corner of Broadway	L	5
Avon	Northwest corner of South	L	1
Harrison	Northwest corner of Morton	L	1
Humphrey	North side, near Kimball	L	1
Allison	Northeast corner of Badger	L	1
Pillsbury	North side, opposite Foster Ward	L	
	Northeast corner of Broadway	L	
	Northwest corner of Kimball	L	3
Carter	Northeast corner of Eastman	L	1
Stone	North side, 300 feet from Bow	L	1
Holly	North side, west of South Main	L	1
McKinley	North side, at Dunklee St. proposed extension	L	1
Rockingham	North east corner of Broadway	L	
	North side, at Donovan	L	2
Iron Works Rd.	South side, at Brown's	L	1

FIRE-HYDRANTS.—Continued.

STREETS.	LOCATIONS.	Service.	Number.
Prospect	Northwest corner of Granite Avenue	L	2
	East side, north of Granite Avenue	L	
Curtice Ave.	North side, near John C. Kenney's	L	1
North State	West side, at Water-Works storehouse	L	1
	Northeast corner of Foster	L	
	East side, at Tahanto School	L	
	Northeast corner of Curtice Avenue	L	
	East side, near W. H. Perry's	L	
	East side, near north entrance Blossom Hill Cemetery	H	
	West side, near Calvary Cemetery	L	
	East side, near Oliver Racine's	H	
	East side, near A. L. Colburn's	L	
	East side, near Thomas Fox's house	H	
	West side, at south line of prison wall	L	
	West side, at north line of prison wall	L	
	East side, near Asa L. Gay's	L	
	Northwest corner of Palm	H	
	West side, near Concord Woodworking Co.	L	
	East side, near C. H. Farnum's	L	
	East side, near Cyrus R. Farnum's	H	
	East side, near John True's	L	
	East side, opposite Dolan	L	
	East side, opposite John H. Flood's	H	
Palm	West side, opposite S. Abbott's	L	21
	North side, west of Fairbanks	H	1
WEST CONCORD.			
North State	Southeast corner of K	H	10
	Northeast corner of Peabody	L	
	East side, at George Partridge's	H	
	East side, near engine house	H	
	East side, opposite Braithwaite's	H	
	West side, near Crescent Mfg. Co.	H	
	East side, opposite Simeon Partridge's	H	
	East side, near Mr. Harrington's	H	
	East side, opposite A. Hollis'	H	
	East side, near Sewall's Falls Road	H	
Fisher	Southwest corner of Engel	L	1
View	Northeast corner of K	L	1
Electric	Northeast corner of North State	L	2
	North side, near power station	L	
Clarke	Northeast corner of Fisher	L	1
Lake	East side, near S. W. Kellom's	L	1
	West side, near H. C. Holden's	H	
	West side, near Wilson's	H	
	East side, near H. C. Holden's	L	

FIRE-HYDRANTS.—*Continued.*

STREETS.	LOCATIONS.	Service.	Number.
Lake	South side, near Quaker	H	5
Knight	South side, opposite railroad station	H	1
Hutchins	North side, near B. T. Putney's	H	
	North side, near C. & C. Railroad	H	
	North side, at Turcotte's	H	3
Second	North side, near A. H. Knight's	H	1
Penacook Rd.	West side, opposite Frost's	H	
	West side, opposite Blanchard's	H	
	West side, near Warner Road	H	3
	PENACOOK.		
South Main	West side, at Harriman's	H	
	West side, at Annis'	H	
	West side, at Garvin's	H	
	West side, south of Willow Hollow	H	
	West side, north of Willow Hollow	H	
	West side, at south end of Woodlawn Cem'y	H	
	West side, at north end of Woodlawn Cem'y	H	
	West side, opposite Stark	H	
	West side, near Hoyt's garage	H	
	West side, near Prescott's	H	
	Southwest corner of Union	H	
	Washington Square, opposite Exchange Block	H	
	Northwest corner of Charles	H	
	North side, opposite East Canal	H	
	North side, near iron bridge	H	16
West Main	West side, opposite cemetery	H	
	West side, at Pine	H	2
High	Northwest corner of Stark	H	
	East side, opposite Summit	H	
	Northwest corner of Maple	H	
	Northwest corner of Spring	H	4
Washington	South side near South Main	H	
	Southeast corner of Union	H	
	South side, opposite John Whitaker's	H	
	South side, opposite Charles	H	
	South side, near Contoocook bridge	H	
	North side, at Rolfe's sawmill	H	6
Fowler	West side, at Charles Holmes'	H	
	East side, near Elliott's	H	2
Electric Ave.	South side, junction of Washington	H	1
Elliott	Northeast corner of Electric Avenue	H	1
Charles	Southwest corner of Warren	H	
	North side, near George W. Corey's	H	2
West Canal	Southeast corner of Warren	H	1
East Canal	North side, near Contoocook Mfg. Co.	H	
	North side, near Crescent	H	2
Crescent	West side, north of Canal	H	1

FIRE-HYDRANTS.—*Concluded.*

STREETS.	LOCATIONS.	Service.	Number.	
Merrimack	South side, opposite Merrimack Avenue.	H	8	
	North side, opposite D. W. Fox's.	H		
	North side, opposite Cross.	H		
	South side, opposite Bye.	H		
	South side, opposite Rolfe's shop.	H		
	South side, opposite Symonds' factory.	H		
	North side, near road to Island.	H		
	Northwest corner of Penacook.	H		
	Summer	North side, opposite High.		H
		Northeast corner of Centre.		H
North side, opposite Church.		H		
Spring	Northeast corner of Church.	H	3	
Maple	Northeast corner of Pleasant.	H	1	
Winter	North side, near Pleasant.	H	1	
Centre	Northwest corner of Spring.	H	2	
	West side, at Corbett's.	H		
Cross	Southwest corner of Summer.	H	1	
Rolfe	North side, near James Corbett's.	H	2	
	Northwest corner of Penacook.	H		
Penacook	West side, opposite A. W. Rolfe's.	H	3	
	West side, at E. L. Davis'.	H		
	East side, at McGirr's.	H		
	Whole number public hydrants.		442	
PRIVATE HYDRANTS.				
	Abbot & Downing Co.	H	6	
	Boston & Maine Railroad, upper yard	L	4	
	Boston & Maine Railroad, shops.	H	15	
	Boston & Maine Railroad, power house, West Concord.	H	1	
	Brampton Woolen Co.	H	3	
	Concord Gas Light Co.	L	1	
	Concord Shoe Factory.	H	1	
	Concord Worsted Mills.	H	2	
	Wm. B. Durgin Co.	H	1	
	Ford Foundry Co.	L	1	
	N. E. Box Co.	H	3	
	N. H. Spinning Mill.	H	6	
	N. H. State Hospital.	H	12	
	N. H. State Prison.	H	4	
	N. H. State Prison.	L	2	
	Page Belting Co.	H	9	
	Page Belting Co.	L	1	
	St. Paul's School.	H	13	
	Water Works Pumping Station.	H	1	
	Whole number private hydrants.		98	

E.

SUMMARY OF STATISTICS.

FOR THE YEAR ENDING DECEMBER 31, 1914.

In form recommended by the New England Water-Works Association.

CONCORD WATER-WORKS.

CITY OF CONCORD, COUNTY OF MERRIMACK, STATE OF NEW HAMPSHIRE.

GENERAL STATISTICS.

Population by census of 1910—21,497.

Date of construction—1872.

By whom owned—City of Concord.

Source of supply—Penacook Lake.

Mode of supply—Gravity, also pumping to reservoir for high service and fire protection.

PUMPING STATISTICS.

1. Builders of pumping machinery—Henry R. Worthington, Harrison, N. J.
2. Description of fuel used—*a.* Kind—bituminous.
b. Brand of coal—Pocahontas and New River.
c. Average price of coal per gross ton delivered, \$5.067.
d. Percentage ash, 9.4 %.
3. Coal consumed for year—252.75 tons.
4. (Pounds of wood consumed) ÷ 3 = equivalent amount of coal—3,773 lbs.
5. Total equivalent coal consumed for the year for pumping purposes—254.44 tons.

6. Total pumpage for the year without allowance for slip—291,832,680 gallons.

7. Average static head against which pump works—103.84 feet.

8. Average dynamic head against which pump works—105 feet.

9. Number of gallons pumped per pound of equivalent coal—504.

10. Duty =
$$\frac{291,832,680 \text{ gallons pumped} \times 8.34 \text{ (lbs.)} \times 100 \times \text{dynamic head, 105}}{\text{Total fuel consumed, 578,157 pounds}} = 44,203,585.$$

Cost of pumping figured on pumping station expenses—\$3,828.29.

11. Per million gallons pumped—\$13.12.

12. Per million gallons raised one foot (dynamic)—\$0.125.

STATISTICS RELATING TO DISTRIBUTION SYSTEM.

MAINS.

1. Kind of pipe—cast iron and cement-lined.
2. Sizes—from two-inch to twenty-four-inch.
3. Extended—2,339 feet during year.
4. Renewed—11,195 feet during year.
5. Discontinued—11,294 feet during year.
6. Total now in use—70.51 miles.
7. Number of leaks per mile for year—
8. Length of pipes two inches and less diameter—3.51 miles.
9. Number of hydrants added during year—public, 6; private, 12.
10. Number of hydrants now in use—public, 442; private, 80.
11. Number of stop gates added during year—7.
12. Number of stop gates now in use—1,028.
13. Number of stop gates smaller than 4-inch—
14. Number of blow-off gates—81.

15. Range of pressure on mains at center of city—88 pounds high service and 48 pounds low service.

SERVICES.

16. Kind of pipe—cement-lined.
17. Sizes—three-fourths-inch to ten-inch.
18. Extended—1,252 feet.
19. Discontinued—94 feet.
20. Total now in use—89,691 feet.
21. Number of service taps added during year—51.
22. Number now in use—3,841.
23. Average length of service—23.35 feet.
24. Average cost of service for the year—
25. Number of meters added during year—75.
26. Number now in use—2,393.
27. Percentage of services metered—62.3.
28. Percentage of receipts from metered water—82.39.
29. Number of elevators added—none.
30. Number now in use—10.
31. Number of standpipes for street watering—41.

INVENTORY.

OF THE PROPERTY OF THE WATER DEPARTMENT, INCLUDING
THE PLANT AND WATER RIGHTS, AND ALL THE REAL
ESTATE AND PERSONAL PROPERTY IN THEIR POSSESSION,
JANUARY 1, 1915.

Water rights—land, etc.,	\$1,052,380.13
Water office—furniture, etc.,	975.00
Pumping station—furniture, supplies, etc.,	850.00
Shop at pumping station:	
Machinery, tools, meters, etc.,	3,000.00
Service truck, horse, wagons and supplies,	1,200.00
Storehouse—hydrants, water gates, special castings, etc.,	2,013.22
Pipe yard—cast-iron pipe,	2,615.88
Shop at Penacook—pipe, etc.,	15.00
Shop at West Concord—pipe, etc.,	40.00
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	\$1,063,089.23

REPORT OF THE BOARD OF PUBLIC WORKS.

To the Board of Aldermen:

The Board of Public Works has held forty-nine meetings during the year, nine of which were hearings held on the premises covered by the petitions considered. One hundred and four petitions were received and eighty-three petitions were granted.

A three-ton motor garbage truck was purchased for the highway department during the year.

The City of Concord and the Town of Pembroke, jointly, rebuilt the single span bridge over the Soucook River at Richardson's Mill. The contract was let to the Berlin Construction Company of Berlin, Conn., and a steel bridge was constructed.

The board ordered an examination of all the bridges and after a report, signed by W. B. Howe, city engineer, and John W. Storrs, was presented to the board December 17, bids were received for replacing the Pembroke Bridge with a steel structure: the contract has been awarded and the bridge will probably be completed about June 15, 1915.

For a detailed account of the work in the various departments under this board see attached reports of the superintendent of streets and the city engineer.

Respectfully submitted,

CHAS. J. FRENCH, *Mayor*,
FREDERICK I. BLACKWOOD,
EVERETT L. DAVIS,
NATHANIEL W. HOBBS,
RICHARD A. BROWN,
ARTHUR F. STURTEVANT,
MICHAEL J. LEE,

Board of Public Works.

REPORT OF THE HIGHWAY DEPARTMENT.

To the Board of Public Works:

GENTLEMEN: The superintendent of streets herewith submits the annual report of the work of the highway department for the year ending December 31, 1914.

As usual, the year was a busy one for the department. A large amount of general repairing was necessary on the roads throughout the city which, taken with the permanent work to be done, required considerable planning to accomplish. The appropriation for general maintenance is insufficient to meet the demands made upon it. The amount of traffic is steadily increasing and, with the number of miles of street which we have, the ordinary repairs require a considerable amount of the appropriation. Some years the expense of caring for the ice and snow is quite heavy. The snow-storm of last February 14 and 15 cost the department \$1,586.77, which was simply the breaking out of the roads and sidewalks and leveling off the snow. The following week a severe rainstorm made further expense, all of which was for work which did not show on the roads after the snow was gone.

The usual amount of concrete walks were repaired and, with one exception where the petitioner asked for further time, all new concrete walks granted by the board were laid. A number of gravel walks were also built. More work than usual was done on catch basins last season, a number of new ones being built and some rebuilt.

For permanent improvements in 1914, macadam was laid on South Street from Concord to Thorndike, South Main from Perley to Thorndike, North Main from Chapel to Pitman, a section of North State Street above the railroad crossing, Penacook Street from the railroad crossing east and Merrimack Street in Penacook. Washington Square in Penacook was macadamized and a portion of it concreted. Sections of the Pittsfield and Hopkinton road were

gravelled and a portion of the Eddy road re-surfaced. In every place there was decided need of the improvement. A section of the South Pembroke road was re-constructed and the whole of it treated with tarvia, the state paying one-half of the expense. A section of the Penacook road past Maple Grove cemetery in West Concord was also re-constructed and the department received one half of the amount expended from the state.

There are any number of places in the city proper where permanent improvements are needed but I hope that next year the work may at least be continued on those streets where permanent improvements have already been begun. The section of North Main Street from Pitman to Centre on the east side should be macadamized which would complete the street to the pavement. The section from Park to Centre on the east side which is granite block paving should be concreted, as the paving is very rough. Another section of South Main Street and South Street should be macadamized and North State Street from Dolan Street to the railroad crossing completed. The Hopkinton road should be gravelled to the town line and the remainder of the Eddy road re-surfaced. South State Street from Pleasant south is in bad condition and ought to be permanently improved. Washington and North Spring Streets both receive a large amount of traffic and should be repaired.

Tarvia was used last season on the macadam streets with very satisfactory results and all of the macadam should have a tar surface treatment as early in the season as possible. The increase in the use of the automobile and especially of the heavy auto truck make it imperative that the surface of macadam roads be kept in as good condition as possible. Recently I attended an experience meeting of superintendents of streets and road builders from the cities around Boston and they gave some very interesting and helpful talks on their experience with bituminous macadam. It was especially gratifying to learn that the majority of those present had used tar products to considerable extent and were well satisfied with the results. Many of them

recommend heavier binders in road construction as they find that the automobile chains are doing great damage to the roads. At the same meeting there was considerable discussion in regard to the digging up of streets that had just been repaired. Some advocated that wherever a street was to be permanently improved the owners of all sewer, gas and water pipes be required to lay them to the property line before work on the street was begun, even though the property were not developed. It certainly is becoming such a common occurrence to have a new street dug up within a short time after the work is completed that some regulations should be made to prevent it.

Again I would recommend that the city do something toward a systematic planting of trees. The number of dead trees removed each year is increasing and in some places new ones should be set out. Much of the beauty of the city is due to the large elms and other shade trees, most of them planted years ago by the residents. Last season a very large elm was taken down on North Main Street near the Walker place and another on North Main was blown down by a hurricane. It seemed best to remove several other large trees in the same vicinity. Apparently there are not as many brown-tail moths as in other years but a considerable increase is noticed in the number of gypsy moth nests. Late in the spring the office received many complaints that the trees were being badly eaten by brown-tail moths. On investigation we found that the trouble was due to the tent caterpillar and not the brown-tail moth. No doubt we shall find the same trouble the coming season.

The garbage precinct was extended during the past year and the amount of garbage to be collected is increasing. The auto truck purchased for collecting garbage has given much satisfaction and has proved to be a great convenience. A garage for the truck has been built on the city lot and we are able to house the steam roller in the same building. There is not sufficient room, however, to properly house the sprinklers and other equipment of the department and I

hope the board will consider the matter of new sheds on the city lot.

The use of light oils for dust laying has proved satisfactory. On the dirt streets it does not give as good results as on the macadam but I would recommend its use another season.

The privilege of attending the American Road Builders convention at Chicago and various meetings of the Massachusetts Highway Association have been much appreciated. As the problems of practical road building and maintenance grow more perplexing, such meetings tend to keep one in touch with the work of other cities and it is encouraging to find that our difficulties are exactly the same as those found in other places. I greatly appreciate the interest of the board in the working out of the many problems which come to a department like this as it is their coöperation that is most needed by a superintendent.

Respectfully submitted,

ALFRED CLARK,
Superintendent of Streets.

WARD ONE.

STREET.	Work.	Expense.
Borough Road	General repairs	\$117.12
Center	" "	33.48
Charles	" "	8.28
Crescent	" "	12.30
Cross	" "	25.30
East Canal	" "	4.45
Elliott	" "	8.87
Elm	" "	19.63
Fowler	" "	41.79
High	" "	45.77
Horse Hill Road	" "	155.65
Linden	" "	7.91
Main	" "	18.65
Maple	" "	1.45
Mast Yard Road	" "	124.14
Merrimack Avenue	" "	1.75
Merrimack	" "	93.43
Penacook	Macadamizing	1,210.51
Penacook Road	General repairs	22.38
		19.63
	Re-surfacing (Part Ward 3)	505.04
Pine	General repairs	4.08
Pleasant	" "	22.84
River Hill Road	" "	1.49
River Road	" "	117.99
Rolfe	" "	26.86
Runnells Road	" "	23.07
Spring	" "	10.17
Stark	" "	17.57
Summer	" "	19.01
Summit	" "	4.03
Sweatt Hill Road	" "	28.50
Union	" "	12.69
Walnut	" "	86.72
Warren	" "	3.56
Washington	" "	235.82
Washington Square	New concrete walks	29.28
Webster	Macadamizing, etc.	1,544.79
West Canal	General repairs	1.56
West Main	" "	6.44
Winter	" "	29.85
		2.53

WARD TWO.

STREET.	Work.	Expense.
Appleton	General repairs	\$46.80
Canterbury Road	" "	34.03
Cemetery Road	" "	4.00
Curtis Road	" "	10.89
Cushing Road	" "	26.00
Flaghole Road	" "	9.34
Graham Road	" "	19.40
Hayward Road	" "	5.06
Hot Hole Pond Road	" "	9.23
Intervale Road	" "	73.12
Kearsarge	" "	2.72
Kilburn Road	" "	4.25
Larkin Road	" "	6.00
Loudon Road	" "	21.31

WARD TWO.—*Concluded.*

STREET.	Work.	Expense.
Mills	General repairs	\$48.57
Mountain Road	" "	16.09
Pecker	" "	5.45
Pembroke	" "	63.50
Penacook	" "	77.71
Penacook Road	" "	292.07
" " (Hoit)	" "	89.43
" " (Penacook Int.)	" "	20.89
" " (Sanborn)	" "	58.10
Portsmouth	" "	17.14
Potter	" "	179.83
Sanborn Road	" "	63.43
Schoolhouse Road	" "	10.12
Sewall's Falls Road	" "	46.68
Shaker Road	" "	280.42
" " (Virgin)	" "	28.06
Shawmut	" "	6.78
Snows Pond Road	" "	10.89
Tyargo Road	" "	19.16
Virgin Road	" "	21.20

WARD THREE.

STREET.	Work.	Expense.
Beech Hill Road	General repairs	\$28.30
Bog Road	" "	157.95
Broad Cove Road	" "	30.80
Carter Hill Road	" "	51.89
Clark	" "	2.83
Engel	" "	6.25
Ferrin Road	" "	48.75
Hutchins	" "	38.22
Knight	" "97
Lake	" "	13.93
Little Road	" "	39.17
Long Pond Road	" "	141.41
North State	" "	130.23
Parsonage Hill Road	Macadamizing	2,499.28
Penacook Road	General repairs	24.25
Pine Hill Road	Re-constructing	655.32
River Road	General repairs	21.92
Saltmarsh Road	" "	99.80
Second	" "	73.63
Sewall's Falls Road	" "	12.18
Taylor Hill Road	" "	29.20
West Parish Road	" "	14.50
	" "	9.73

WARD FOUR.

STREET.	Work.	Expense.
Abbott.....	General repairs.....	\$2.22
Academy.....	" ".....	1.11
Albin.....	" ".....	21.43
Auburn.....	" ".....	84.51
Beacon.....	" ".....	53.13
	Repairing concrete walks.....	46.16
	New " ".....	34.87
Bradley.....	General repairs.....	5.38
Center.....	" ".....	39.51
	Repairing concrete walks.....	81.73
	New " ".....	32.93
Chapel.....	General repairs.....	6.33
Charles.....	" ".....	37.31
Church.....	" ".....	20.91
Court.....	" ".....	19.50
	Repairing concrete walks.....	134.60
East Penacook.....	General repairs.....	2.00
Ferry.....	" ".....	6.43
Fiske.....	" ".....	50.59
Franklin.....	" ".....	28.23
	Building sidewalks.....	18.78
Giles.....	General repairs.....	16.99
High.....	" ".....	58.55
Iron Works Road.....	" ".....	30.63
Jackson.....	" ".....	14.04
	Repairing concrete walks.....	60.12
Lyndon.....	General repairs.....	6.40
Maple.....	Repairing concrete walks.....	34.21
Montgomery.....	" ".....	11.48
	General repairs.....	2.37
North Main.....	" ".....	223.96
	Repairing concrete walks.....	231.55
	" " roadway.....	97.97
	New concrete walks.....	37.63
	Macadamizing.....	2,413.25
North Spring.....	General repairs.....	20.55
	Repairing concrete walks.....	24.57
North State.....	" " roadway.....	13.70
	" ".....	94.26
	General repairs.....	20.50
Pearl.....	" ".....	6.54
Penacook.....	" ".....	7.72
Perry Avenue.....	" ".....	7.08
Pitman.....	" ".....	16.60
Ridge Road.....	" ".....	504.69
Rumford.....	" ".....	59.72
	Repairing concrete walks.....	16.74
Tremont.....	General repairs.....	16.35
Union.....	" ".....	19.31
	Repairing concrete walks.....	10.40
Washington.....	" ".....	91.64
	General repairs.....	98.64
White.....	" ".....	5.20

WARD FIVE.

STREET.	Work.	Expense.
Blake	General repairs	\$1.44
Capitol	Repairing concrete walks	108.40
	" " roadway	2.63
Center	" " walks	160.86
	General repairs	49.05
Durgin	" " "	13.24
	New concrete walks	15.37
Garden	Repairing concrete walks	10.14
Giles	General repairs	1.50
Green	" " "	39.14
	Repairing concrete walks	173.55
Hanover	General repairs	25.29
Liberty	" " "	22.27
Merrimack	" " "	15.42
North Fruit	" " "	4.72
North Main	" " "	6.88
	Repairing concrete walks	7.53
	" " roadway	171.20
North Spring	" " walks	15.57
	General repairs	14.90
North State	Repairing concrete roadway	100.33
	" " walks	5.34
Odd Fellows' Avenue	" " roadway	18.20
Orchard	" " walks	11.57
	General repairs	18.97
Park	" " "	16.00
	Repairing concrete walks66
	" " roadway	12.12
Pleasant	" " "	50.09
	" " walks	78.50
	General repairs	134.43
Rumford	" " "	1.22
School	" " "	40.63
	Repairing concrete walks	58.25
Tahanto	General repairs	6.15
Warren	" " "	150.72
	New concrete walks	38.72
	Repairing concrete walks	12.60
	" " roadway	108.08
West Washington	General repairs	10.98
Woodman	" " "	7.39

WARD SIX.

STREET.	Work.	Expense.
Clinton	General repairs	\$7.45
Concord	" " "	30.70
	Repairing concrete walks	37.81
Downing	" " "	59.72
	General repairs	59.32
Elm	" " "	1.49
Grove	Repairing concrete walks	83.30
Jefferson	General repairs	6.06
Laurel	" " "	21.86
Monroe	" " "	9.28
Perley	" " "	100.00
	Repairing concrete walks	46.03
Pierce	" " "	73.23
	General repairs	11.21
Pleasant	" " "	14.75
	Repairing concrete roadway	54.41
South	" " walks	139.06

WARD SIX.—*Concluded.*

STREET.	Work.	Expense.
South	General repairs	\$194.84
South Main	Macadamizing	2,074.42
	Repairing concrete walks	1,457.53
	New concrete walks	219.24
	General repairs	51.87
South Spring	General repairs	230.45
South State	“ “	154.92
	“ “	113.71
	Repairing concrete walks	113.84
	New concrete walks	25.20
Thompson	Repairing concrete walks	31.49
	General repairs	7.54
Thorndike	“ “	60.88
	Repairing concrete walks	35.30
	New concrete walks	6.74
Wall	General repairs	5.17

WARD SEVEN.

STREET.	Work.	Expense.
Albin Road	General repairs	\$33.58
Allison	“ “	71.39
	New concrete walks	117.83
Birch	General repairs	1.05
Bog Road	“ “	141.31
Broadway	“ “	67.16
Carter	“ “	103.61
Clinton	“ “	102.34
Dakin	“ “	19.23
Downing	“ “	22.42
Dunklee	“ “	20.80
Fiske	“ “	30.55
Fruit	“ “	28.62
Gale	“ “	2.22
Glen	“ “	9.75
Hall	“ “	83.50
Hammond	“ “	59.18
	Building sidewalks	27.90
Harrison	New concrete walks	63.08
Hopkinton Road	General repairs	351.28
	Grading	1,734.51
Hopkinton New Road	General repairs	27.75
Hopkinton Old Road	“ “	153.82
Humphrey	“ “	21.95
Kensington Road	“ “	12.91
Kimball	“ “	5.17
Long Pond Road	“ “	43.10
Mills	“ “	14.50
Minot	“ “	9.11
Morton	“ “	11.00
	Repairing concrete walks	7.41
Noyes	Building sidewalks	75.91
	General repairs	4.89
Pillsbury	“ “	68.08
Pleasant	“ “	302.47
	Re-surfacing	1,609.46
Silk Farm Road	General repairs	57.25
South	“ “	143.14
	New concrete walks	21.84
South Main	Repairing concrete walks	78.19
	General repairs	248.47
South State	“ “91
Stickney Hill Road	“ “	95.14
Stone	“ “	116.60
Tuttle	“ “	2.61
West	“ “	74.78
Yale	“ “	2.27

WARD EIGHT.

STREET.	Work.	Expense.
Branch Turnpike	General repairs	\$2.22
Break O'Day Road	" "	10.00
Bridge	" "	429.94
Chandler	" "	17.84
Depot	" "	3.00
Freight	" "	36.58
Garvin's Falls Road	" "	4.73
Hill's Avenue	" "	2.00
Loudon Road	" "	281.10
North Main	Repairing concrete walks	17.31
	" " roadway	101.66
North Pembroke Road	General repairs	1.49
Pleasant	Repairing concrete walks	1.60
Pittsfield Road	Grading	496.83
	General repairs	17.18
South Main	" "	12.51
	Repairing concrete walks	97.13
	" " roadway	74.77
South Pembroke Road	General repairs	85.46
	Re-surfacing	490.26
	Re-constructing	790.04
Stickney Avenue	General repairs	76.49
Sugar Bowl Road	" "	17.00

WARD NINE.

STREET.	Work.	Expense.
Auburn	General repairs	\$62.12
Bradley	" "	52.51
Church	" "	12.88
Curtice Avenue	" "	3.20
Forest	" "	4.05
Franklin	" "	189.14
	Building sidewalks	160.22
Gladstone	General repairs	63.22
Granite	" "	2.20
High	" "60
Highland	" "	14.81
Little Pond Road	" "	181.61
Long Pond Road	" "	9.28
Martin	" "	17.69
North State	" "	131.08
	Repairing concrete walks	11.20
	Re-surfacing	419.06
Penacook	Macadamizing (Part Ward 4)	1,109.61
	General repairs	88.63
Perkins	" "	20.19
Rumford	" "	105.18
	Building sidewalks	139.03
Walker	Repairing concrete walks	31.70
	General repairs	39.62
Waverly	Repairing concrete walks	12.01

**FINANCIAL REPORT OF THE HIGHWAY
DEPARTMENT.**

GENERAL MAINTENANCE.

Appropriation,	\$35,000.00	
By Resolution No. 172,	2,495.68	
	\$37,495.68	

EXPENDITURES.

CENTRAL DISTRICT.

GENERAL REPAIRS.

Labor pay-rolls,	\$11,104.89	
E. C. Eastman, supplies,	.75	
Library Bureau, supplies,	4.67	
C. W. Dadmun, repairs,	1.65	
H. T. Corser, hay,	45.25	
R. J. Macquire, services,	162.15	
Central Cash Market, hay,	25.80	
Treworgy Pen & Ink Mfg. Co., ink,	1.50	
A. R. Andrews, supplies,	.75	
Brown & Saltmarsh, supplies,	5.42	
Ira C. Evans Co., supplies,	85.36	
Alfred Clark, Supt., cash paid out,	46.54	
W. W. Critchett, hay,	21.50	
Norman Nicholson, shoeing,	22.30	
C. H. Dudley, solvet,	7.50	
Holt Bros. Mfg. Co., repairs,	9.04	
Henry P. Lamprey, hay,	254.15	
J. T. Walker, hay,	123.79	
C. W. Drake, glass, etc.,	3.00	
Orr & Rolfe Co., repairs,	22.05	
C. H. Dudley, hay,	25.70	
Hutchinson Bldg. Co., lumber,	26.40	
Alfred Clark, Supt., expense to con- vention,	73.50	

C. H. Farnum, hay,	\$154.24
Globe Horseshoeing Shop, shoeing,	14.60
Acme Road Machinery Co., repairs,	7.21
Geo. S. Prince, filing saws,	10.45
G. S. Milton & Co., repairs,	4.30
J. N. Abbott, hay,	66.40
W. S. Dole, grain, etc.,	1,718.53
B. Bilsborough & Son, paint,	22.05
N. E. Road Machinery Co., repairs,	136.86
West End Garage, livery, etc.,	3.60
Dudley Bros., livery, etc.,	65.38
Page Belting Co., repairs and supplies,	109.16
Boston & Maine R. R., freight,	86.79
Good Roads Machinery Co., repairs,	24.30
Thompson & Hoague Co., supplies,	35.41
A. H. Britton & Co., supplies,	337.81
N. E. T. & T. Co., service,	43.07
Robert Crowley, coal,	69.40
Concord Wiring & Supply Co., supplies,	1.25
Concord Electric Co., lights,	67.07
W. H. Dunlap & Co., supplies,	13.30
Capital Hardware Co., supplies,	32.50
Geo. L. Theobald, horses,	550.00
Concord Foundry & Machine Co., repairs,	41.44
Eyeless Tool Co., picks,	34.60
Ames Plow Co., repairs,	9.00
Geo. D. Huntley, dump cart,	178.00
Brown & Batchelder, supplies,	4.60
Frank R. Clark, sharpening tools,	2.25
Joseph Laflamme, cement, etc.,	4.75
F. E. Burroughs, gravel,	1.80
Monitor & Statesman Co., advertising,	2.40

BOARD OF PUBLIC WORKS.

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N. H. Patriot Co., advertising,	\$1.80	
Winchester Rock & Brick Co., crushed stone,	21.62	
Mass. Broken Stone Co., crushed stone,	97.00	
Essex Trap Rock & Construction Co., crushed stone,	27.09	
Thomas Robinson, oil,	1.00	
C. H. Martin Co., supplies,	.75	
Geo. D. Huntley, repairs,	94.50	
Joseph Grant, repairs,	56.10	
A. P. Fitch Co., supplies,	2.50	
Donaldson Iron Co., pipe,	296.79	
Woodworth & Co., cement,	2.10	
Kinney Mfg. Co., repairs,	37.75	
Geo. F. Tandy, repairs concrete road way,	903.99	
Ford & Kimball, sled shoes,	1.88	
F. W. Paige, gravel,	2.60	
H. C. Sturtevant & Son, supplies,	15.12	
Headley Good Roads Co., road oil,	19.08	
C. A. Fowler, hay,	67.45	
Ross W. Cate, shoeing,	248.25	
C. Pelissier & Co., repairs and sup- plies,	123.03	
	<hr/>	\$17,946.58

CULVERTS.

Labor pay-rolls,	\$85.22	
A. H. Britton & Co., pipe,	152.00	
	<hr/>	237.22

SIDEWALKS AND CROSSINGS.

Labor pay-rolls, repairing,	\$167.99	
building,	310.13	
	<hr/>	478.12

SIGNS.

Labor pay-rolls,	\$10.21	
Fletcher-Prescott Co., lettering signs,	24.05	
Baltimore Enamel & Novelty Co., signs,	41.00	
Boston & Maine R. R., freight,	1.32	
Horne & Hall, labor,	3.08	
Concord Foundry & Machine Co., sign holders,	9.00	
	<hr/>	\$88.66

WATERING TROUGHS AND DRINKING FOUNTAINS.

Labor pay-rolls,	\$29.64	
Capital Hardware Co., supplies,	2.10	
G. S. Milton & Co., repairs,	2.55	
Orr & Rolfe Co., repairs,	6.83	
Concord Foundry & Machine Co., repairs,	.60	
Geo. B. Quimby, use of trough,	3.00	
Mrs. Frank Bourdeau, use of trough,	3.00	
	<hr/>	47.72

GUTTERS.

Labor pay-rolls, cleaning,	\$2,654.58	
repairing,	20.44	
paving,	57.77	
	<hr/>	2,732.79

BRIDGES.

Labor pay-rolls, repairing,	\$243.08	
repairing federal bridge,	178.59	
West End Garage, livery,	1.50	
Boutwell & Baker, lumber,	111.45	
Hugh Tallant, lumber,	19.60	

Geo. F. Tandy, repairing concrete floor,	\$30.47	
B. Bilsborough & Sons, paint,	7.50	
Capital Hardware Co., supplies,	11.48	
Hutchinson Bldg. Co., lumber,	90.06	
A. H. Britton & Co., supplies,	45.25	
	<hr/>	\$738.98

FENCES.

Labor pay-rolls,	\$11.45	
Horne & Hall, labor,	3.44	
	<hr/>	14.89

MACADAM.

Labor pay-rolls, repairing,	\$59.56	
re-surfacing,	287.95	
Barrett Mfg. Co., tarvia,	1,244.85	
Boston & Maine R. R., freight,	284.85	
Page Belting Co., repairs,	1.97	
Mass. Broken Stone Co., crushed stone,	49.99	
Essex Trap Rock & Construction Co., crushed stone,	47.38	
Winchester Rock & Brick Co., crushed stone,	14.00	
	<hr/>	1,990.55

RE-SURFACING SOUTH PEMBROKE ROAD.

Labor pay-rolls,	\$511.80	
Jeremiah Colby, gravel,	4.40	
A. C. Manning, gravel,	4.40	
Barrett Mfg. Co., tarvia,	513.53	
Boston & Maine R. R., freight,	142.39	
Mass. Broken Stone Co., crushed stone,	81.53	
Essex Trap Rock & Construction Co., crushed stone,	22.25	
	<hr/>	1,280.30

RE-SURFACING PENACOOK ROAD.

Labor pay-rolls,	\$606.15	
Joseph Eastman, gravel,	9.60	
Robert Crowley, coal,	26.00	
Barrett Mrg. Co., tarvia,	328.44	
Boston & Maine R. R., freight,	34.78	
Winchester Rock & Brick Co., crushed stone,	18.44	
	<hr/>	\$1,023.41*

WINTER EXPENSE.

Labor pay-rolls, breaking roads,	\$258.18	
plowing walks	239.05	
sanding walks,	562.06	
leveling snow,	964.40	
rolling snow,	101.22	
draining gutters,	557.57	
snowing bridges,	28.07	
Geo. H. Cilley, labor,	10.00	
Alice C. Hutchinson, rent of land,	12.00	
	<hr/>	2,732.55

PENACOOK DISTRICT.

GENERAL REPAIRS.

Labor pay-rolls,	\$1,450.38	
J. E. Brown, repairing tools,	21.00	
W. B. Cunningham, trucking,	1.65	
Issac Baty, repairs,	4.50	
F. M. Morse & Co., supplies,	7.09	
E. L. Davis, coal,	23.10	
William Sawyer, gravel,	15.50	
D. F. Dudley, gravel,	27.00	
C. M. & A. W. Rolfe, lumber,	35.15	
Sanborn Bros., supplies,	2.66	
D. Warren Fox, supplies,	22.60	
	<hr/>	1,610.63

*One-half paid by state.

BOARD OF PUBLIC WORKS. 335

CULVERTS.

Labor pay-rolls,	\$29.25	\$29.25
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SIDEWALKS AND CROSSINGS.

Labor pay-rolls, repairing,	\$137.34	
building,	20.40	
	<hr/>	157.74

FENCES.

Labor pay-rolls,	\$7.44	
C. M. & A. W. Rolfe, lumber,	1.80	
	<hr/>	9.24

WATERING TROUGHS AND DRINKING FOUNTAINS.

Labor pay-rolls,	\$9.44	
E. E. Babb, repairs,	.90	
D. Warren Fox, supplies,	.04	
C. M. & W. W. Rolfe, lumber,	8.96	
T. S. Holland, use watering trough,	3.00	
	<hr/>	22.34

GUTTERS.

Labor pay-rolls, cleaning,	\$460.85	
repairing,	2.69	
	<hr/>	463.54

BRIDGES.

Labor pay-rolls,	\$288.14	
C. M. & A. W. Rolfe, lumber,	762.08	
C. H. Barnett, labor,	68.80	
W. H. Bonney, signs,	3.50	
Henry Hardy, stringers, etc.,	35.10	
W. H. Meserve, cement,	1.00	
D. Warren Fox, supplies,	42.96	
Penacock Electric Light Co., lights,	9.36	
	<hr/>	1,210.94

CITY OF CONCORD.

MACADAM.

Labor pay-rolls, repairing,	\$1.18	
re-surfacing Penacook Road,	79.95*	
		\$81.13

WINTER EXPENSE.

Labor pay-rolls, sanding walks,	\$148.02	
plowing walks,	96.18	
draining gutters,	104.33	
snowing bridges,	16.26	
rolling snow,	27.23	
shoveling walks,	28.54	
leveling snow,	87.39	
breaking roads,	90.47	
		598.42

WEST CONCORD DISTRICT.

Labor pay-rolls, general repairs,	\$450.26	
sanding walks,	51.91	
plowing walks,	58.85	
snowing bridges,	21.95	
draining gutters,	27.24	
shoveling walks,	27.87	
breaking roads,	92.98	
repairing bridges,	8.56	
watering troughs,	39.58	
repairing sidewalks,	44.83	
culverts,	6.17	
cleaning gutters,	195.99	
oiling North State St.,	53.58	
re-surfacing Penacook Road,	57.00*	
J. M. Crossman, repairs,	5.85	

*One-half paid by state

BOARD OF PUBLIC WORKS.

337

Thompson & Hoague Co., pipe,	\$2.00	
Orr & Rolfe Co., repairs,	2.60	
Standard Oil Co., oil,	126.00	
	<hr/>	\$1,273.22

EAST CONCORD DISTRICT.

Labor pay-rolls, general repairs,	\$1,249.41	
sanding walks,	25.23	
plowing walks,	18.00	
leveling snow,	14.13	
draining gutters,	5.31	
shoveling walks,	5.50	
breaking roads,	116.77	
cleaning gutters,	15.57	
culverts,	35.94	
bridges,	68.51	
fences,	1.04	
repairing sidewalks,	5.34	
M. J. Lacroix, repairing tools,	19.10	
H. A. Stuart, supplies,	.56	
Ross W. Cate, lumber,	2.00	
Mary F. Robinson, water for trough,	20.00	
Chas. H. Sanborn, gravel,	15.80	
J. L. Muzzey, stringers,	18.00	
F. P. Virgin, stringers,	18.00	
	<hr/>	1,654.21

PENACOOK INTERVALE DISTRICT.

Labor pay-rolls general repairs,	\$16.93	
bridges,	10.00	
A. J. Smith, use watering trough,	3.00	
	<hr/>	29.93

EGYPT DISTRICT.

Labor pay-rolls, general repairs,	\$75.89	
breaking roads,	21.69	
N. P. Richardson, repairing bridge,	13.50	
use watering trough,	3.00	
	<hr/>	114.08

HOIT DISTRICT.

Labor pay-rolls, general repairs,	\$92.28	
breaking roads,	30.94	
Fred Mayo, use watering trough,	3.00	
	<u> </u>	\$126.22

VIRGIN DISTRICT.

Labor pay-rolls, general repairs,	\$89.04	
breaking roads,	19.00	
F. P. Virgin, use watering trough,	3.00	
	<u> </u>	111.04

SANBORN DISTRICT.

Labor pay-rolls, general repairs,	\$188.87	
breaking roads,	4.44	
	<u> </u>	193.31

POTTER STREET DISTRICT.

John T. Tenny, use watering trough,	\$3.00	
	<u> </u>	3.00

HOT HOLE POND DISTRICT.

Labor pay-rolls, breaking roads,	\$6.53	
	<u> </u>	6.53

NUMBER FOUR DISTRICT.

Labor pay-rolls, general repairs,	\$401.69	
breaking roads,	87.45	
	<u> </u>	489.14

\$37,495.68

CATCH BASINS.

Appropriation,	\$1,200.00	
By Resolution No. 172,	246.96	
	<hr/>	\$1,446.96

Expenditures—

CENTRAL DISTRICT.

Labor pay-rolls, cleaning,	\$546.81	
thawing,	48.58	
repairing,	30.33	
building,	195.76	
re-building,	4.08	
Robert Crowley, slabs,	15.00	
Page Belting Co., repairs,	1.12	
C. F. Thompson, rubber boots,	7.00	
Concord Foundry & Machine Co.,		
outfits,	97.80	
Woodworth & Co., cement,	37.80	
Thompson & Hoague Co., pipe,	47.64	
Samuel Holt Est., brick,	35.74	
Rowell & Plummer, mason work,	19.20	
A. H. Britton & Co., pipe,	60.56	
	<hr/>	1,147.42

PENACOOK DISTRICT.

Labor pay-rolls, cleaning,	\$119.72	
repairing,	7.18	
building,	80.36	
F. E. Williams, mason work,	25.92	
John McGirr, brick,	5.00	
W. H. Meserve, cement,	10.83	
Town of Boscawen, pipe,	10.20	
Concord Foundry & Machine Co.,		
outfits,	3.60	
	<hr/>	262.81

WEST CONCORD DISTRICT.

Labor pay-rolls, cleaning,	\$26.53	
	<hr/>	26.53

EAST CONCORD DISTRICT.

Labor pay-rolls, building,	\$4.85	
cleaning,	2.15	
Thompson & Hoague Co., pipe,	3.20	
		\$10.20
		\$1,446.96

TREES.

Appropriation,	\$4,000.00	
By Resolution No. 172,	407.86	
		\$4,407.86

Expenditures—

CENTRAL DISTRICT.

Labor pay-rolls, trimming and re-		
moving trees,	\$406.04	
removing moth		
nests,	2,084.43	
spraying trees,	115.13	
C. E. Staniels, insurance premium,	78.28	
Ira C. Evans Co., supplies,	18.25	
Hutchinson Bldg. Co., supplies,	12.00	
Alfred Clark, Supt., cash paid out,	11.00	
A. H. Britton & Co., supplies,	251.15	
C. Pellissier & Co., supplies,	7.20	
C. F. Nichols & Son, supplies,	2.75	
Woodworth & Co., cement,	2.10	
Concord Foundry & Machine Co.,		
repairs,	.75	
West End Garage, gasoline,	13.65	
		\$3,002.73

PENACOOK DISTRICT.

Labor pay-rolls, trimming and re-		
moving trees,	\$18.67	
collecting moth		
nests,	678.06	

Transferred to Washington Square,		\$44.79
Eddy Road,		18.58
		<hr/>
		\$1,000.00

SIDEWALKS AND CROSSINGS, REPAIR.

Appropriation,	\$2,250.00	
Transferred from Sidewalks and Crossings, New,	206.29	
	<hr/>	\$2,456.29

Expenditures—

CENTRAL DISTRICT.

Labor pay-rolls, re-setting edgestone,	\$32.64	
Geo. F. Tandy, repairing concrete walks,	2,018.16	
repairing concrete crossings,	373.90	
	<hr/>	2,424.70

PENACOOK DISTRICT.

Geo. F. Tandy, repairing concrete walks,	\$31.59	31.59
		<hr/>
		\$2,456.29

PERMANENT WORK.

SOUTH STREET, CONCORD TO THORNDIKE.

Appropriation,	\$2,200.00
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Expenditures—

Labor pay-rolls, excavating,	\$437.34
macadamizing,	594.27
paving gutter,	105.78
Tenney Coal Co., coal,	28.82
Thompson & Hoague Co., pipe,	22.50
Barrett Mfg. Co., tarvia,	472.05
Boston & Maine R. R., freight,	173.09

Essex Trap Rock & Construction Co., crushed stone,	\$141.10	
Winchester Rock & Brick Co., crushed stone,	20.83	
Geo. F. Tandy, concrete crossings,	78.64	
	<hr/>	\$2,074.42
Transferred to Permanent Work, Merrimack St., Penacook,		125.58
		<hr/>
		\$2,200.00

SOUTH MAIN STREET, THORNDIKE TO PERLEY.

Appropriation,		\$1,600.00
Expenditures—		
Labor pay-rolls, excavating,	\$254.44	
macadamizing,	369.89	
paving gutter,	92.42	
Page Belting Co., repairs,	16.82	
Essex Trap Rock & Construction Co., crushed stone,	119.73	
Winchester Rock & Brick Co., crushed stone,	4.20	
Barrett Mfg. Co., tarvia,	356.94	
Boston & Maine R. R., freight,	133.67	
Tenney Coal Co., coal,	39.32	
Geo. F. Tandy, concrete crossings,	70.10	
	<hr/>	\$1,457.53
Transferred to Permanent Work, Eddy Road,		90.88
Merrimack St., Penacook,		51.59
		<hr/>
		\$1,600.00

HOPKINTON ROAD.

Appropriation,	\$1,500.00	
Transferred from Sidewalks and Crossings, New,	234.51	
	<hr/>	\$1,734.51

Expenditures—

Labor pay-rolls, grading,	\$1,351.12	
culvert,	56.25	
tarring,	64.05	
Robert Crowley, coal,	16.25	
Barrett Mfg. Co., tarvia,	123.75	
Boston & Maine R. R., freight,	26.89	
F. W. Paige, gravel,	96.20	
	<hr/>	\$1,734.51

PITTSFIELD ROAD.

Appropriation,		\$500.00
Expenditures—		
Labor pay-rolls, grading,	\$471.93	
Dickerman & Co., cement,	2.10	
W. H. Kitterel, gravel,	22.80	
	<hr/>	\$496.83
Transferred to Permanent Work,		
Penacook St.,		3.17
		<hr/>
		\$500.00

PENACOOK STREET, RAILROAD CROSSING, EAST.

Appropriation,	\$1,000.00	
Transferred from Permanent Work,		
North Main St.,	53.41	
Pittsfield Road,	3.17	
North State St.,	.72	
By Resolution No. 172,	52.31	
	<hr/>	\$1,109.61
Expenditures—		
Labor pay-rolls, excavating,	\$152.53	
macadamizing,	507.38	
paving gutter,	41.51	
Page Belting Co., supplies,	20.39	
Mass. Broken Stone Co., crushed		
stone,	167.52	

Essex Trap Rock & Construction		
Co., crushed stone,	\$61.95	
Boston & Maine R. R., freight,	158.33	
	<hr/>	\$1,109.61

NORTH MAIN STREET, CHAPEL TO PITMAN.

Appropriation,		\$2,500.00
Expenditures—		
Labor pay-rolls, excavating,	\$522.57	
macadamizing,	908.53	
paving gutter,	198.56	
Barrett Mfg. Co., tarvia,	415.89	
Winchester Rock & Brick Co.,		
crushed stone,	37.42	
Essex Trap Rock & Construction		
Co., crushed stone,	50.95	
Mass. Broken Stone Co., crushed		
stone,	58.65	
Page Belting Co., supplies,	1.96	
Tenney Coal Co., coal,	17.78	
Robert Crowley, coal,	39.46	
Boston & Maine R. R., freight,	161.48	
	<hr/>	\$2,413.25
Transferred to Permanent Work,		
Merrimack St., Penacook,		33.34
Penacook St.,		53.41
		<hr/>
		\$2,500.00

NORTH STATE STREET, NORTH OF RAILROAD CROSSING.

Appropriation,		\$2,500.00
Expenditures—		
Labor pay-rolls, excavating,	\$168.72	
macadamizing,	1,255.23	
Page Belting Co., supplies,	11.74	

Robert Crowley, coal,	\$97.50	
Tenney Coal Co., coal,	17.59	
Shepard Bros. Co., oil,	1.65	
Winchester Rock & Brick Co., crushed stone,	154.32	
Boston & Maine R. R., freight,	202.94	
Barrett Mfg. Co., tarvia,	589.59	
		<hr/>
		\$2,499.28
Transferred to Permanent Work, Penacook St.,		.72
		<hr/>
		\$2,500.00

EDDY ROAD.

Appropriation,	\$1,500.00	
Transferred from Sidewalks and Crossings, New, Permanent Work, So. Main St.,	18.58	
	90.88	
		<hr/>
		\$1,609.46

Expenditures—

Labor pay-rolls, re-surfacing,	\$779.22	
paving gutter,	27.50	
drain,	45.63	
Mark Blanchard, oil,	1.20	
Thompson & Hoague Co., pipe,	20.00	
Barrett Mfg. Co., tarvia,	357.48	
Boston & Maine R. R., freight,	161.20	
Mass. Broken Stone Co., crushed stone,	91.67	
Essex Trap Rock & Construction Co., crushed stone,	79.19	
Tenney Coal Co., coal,	46.37	
		<hr/>
		\$1,609.46

MERRIMACK STREET, PENACOOK.

Appropriation,	\$1,000.00	
Transferred from Permanent Work,		
No. Main St.,	33.34	
So. Main St.,	51.59	
South St.,	125.58	
	<hr/>	\$1,210.51
Expenditures—		
Labor pay-rolls, excavating,	\$313.08	
macadamizing,	569.85	
gutter,	23.80	
Essex Trap Rock & Construction		
Co., crushed stone,	156.14	
Boston & Maine R. R., freight,	108.64	
Robert Crowley, coal,	39.00	
	<hr/>	\$1,210.51

WASHINGTON SQUARE, PENACOOK.

Appropriation,	\$1,500.00	
Transferred from Sidewalks and		
Crossings, New,	44.79	
	<hr/>	\$1,544.79
Expenditures—		
Labor pay-rolls, excavating,	\$321.25	
macadamizing,	779.44	
setting edgestone,	10.74	
changing trough,	14.53	
Robert Crowley, coal,	13.00	
Geo. F. Tandy, concrete roadway,	242.57	
repairing concrete,	163.26	
	<hr/>	\$1,544.79

GARAGE—CITY LOT.

Appropriation,	\$1,500.00	
By Resolution No. 172,	411.67	
	<hr/>	\$1,911.67
Expenditures—		
Labor pay-rolls, foundation, etc.,	\$180.95	
Woodworth & Co., cement,	63.00	
Page Belting Co., supplies,	18.92	
Concord Foundry & Machine Co., supplies,	1.80	
Hutchinson Bldg. Co., contract,	1,647.00	
	<hr/>	\$1,911.67

SALARY SUPERINTENDENT.

Appropriation,	\$1,800.00	\$1,800.00
Expenditures—		
Alfred Clark, salary,	\$1,800.00	\$1,800.00

GARBAGE.

Appropriation,	\$8,500.00	
By Resolution No. 172,	132.39	
Deficiency to 1915,	708.40	
	<hr/>	\$9,340.79
Expenditures—		
Deficiency from 1913,	\$506.81	
Labor pay-rolls, collecting garbage,	3,807.90	
collecting paper,	697.72	
burning paper,	118.61	
leveling ashes,	862.96	
cleaning streets with patrol carts,	2,182.49	
cleaning crossings,	697.34	
Peerless Motor Car Co., repairs,	46.55	
Ira C. Evans Co., supplies,	1.25	
State of New Hampshire, license,	15.00	
H. Thompson, brooms,	47.50	

West End Garage, gasoline, etc.,	\$34.29	
Globe Horseshoeing Shop, shoeing,	1.90	
Norman Nicholson, shoeing,	9.00	
Globe Horseshoeing Shop, rent of land,	35.00	
A. H. Britton & Co., supplies,	13.32	
Eastern Oil Tank Co., oil tank,	101.70	
Beacon Motor Car Co., repairs,	.56	
Page Belting Co., repairs,	11.63	
Dudley Brothers, gasoline,	149.26	
	<hr/>	\$9,340.79

SPRINKLING.

Appropriation,	\$9,300.00	
Deficiency to 1915,	645.58	
	<hr/>	\$9,945.58

Expenditures—

Deficiency from 1913,	\$1,131.53	
Labor pay-rolls, painting and re- pairing carts,	182.32	
standpipes,	71.49	
sprinkling streets,	5,724.37	
oiling streets,	285.34	
Dustoline for Roads Co., dustoline,	1,559.58	
Standard Oil Co., oil,	734.66	
Abbott & Downing Co., repairs,	134.74	
B. Bilsborough & Sons, paint,	53.32	
Holt Bros. Mfg. Co., repairs,	.25	
J. C. McLoughlin, repairs,	.75	
Concord Foundry & Machine Co., repairs,	.25	
Geo. D. Huntley, repairs,	13.90	
Geo. L. Theobald, repairs,	3.00	
G. S. Milton & Co., repairs,	2.87	
Woodworth & Co., cement,	2.10	
Orr & Rolfe Co., repairs,	15.11	
Boston & Maine R. R., freight,	30.00	
	<hr/>	\$9,945.58

PENACOOK SPRINKLING PRECINCT.

Balance from 1913,	\$6.98	
Appropriation,	450.00	
Deficiency to 1915,	10.45	
	<hr/>	\$467.43
Expenditures—		
Labor pay-rolls, repairing carts,	\$20.83	
standpipes,	13.35	
sprinkling streets,	385.75	
oiling streets,	2.00	
C. M. & A. W. Rolfe, repairs,	1.35	
Concord Axle Co., repairs,	.65	
Penacook & Boscawen Water Pre-		
cinct, water,	12.00	
Standard Oil Co., oil,	31.50	
	<hr/>	\$467.43

Deposited with the City Treasurer as follows:

State Aid Highways,	\$1,220.33	
Sale of horses,	200.00	
Concrete,	152.32	
Labor, etc.,	206.93	
Trees,	788.60	
	<hr/>	\$2,568.18
Garbage,		132.39
		<hr/>
		\$2,700.57