

HIGHWAY DEPARTMENT.

251

ESSEX STREET.	
Patching	\$7.41
CHAPEL STREET.	
Patching	2.57
Paving gutter south side	30.98
LYNDON STREET.	
New concrete walk	56.01
CHESTNUT STREET.	
Building gravel walk east from Auburn street	104.73
CEDAR STREET.	
Paving from State street west	16.48
Grading	12.79
Top coating gravel walk	2.06
COURT STREET.	
Repairing	2.93
SUMMER STREET.	
Repairing sidewalk at Court street	2.40
Repairing sidewalk	2.55
RIDGE ROAD.	
General repairs	7.41
Building Ridge Park	160.28
Turfing, banking corner, H. Groove's lot	1.11
Cutting bushes Ridge Park . . . . .	.67
Building sidewalk east side of Center street	6.56
MONTGOMERY STREET.	
Repairing	6.08
Removing shade trees near State street	6.44
PERRY AVENUE.	
Paving gutter	53.25
Grading	35.88
MAPLE STREET.	
Repairing near Spring street . . . . .	.83
CAMBRIDGE STREET.	
Repairing	9.26
UNION STREET.	
Patching	14.48

WEST WASHINGTON STREET.

Repairing	\$3.23
Repairing sidewalk . . . . .	.40

JACKSON STREET.

Paving gutter between Highland and Church streets	71.91
Paving gutter between Tremont and Beacon streets	70.44
Patching	10.87
Building gravel sidewalk	5.23
Repairing sidewalk from Jackson to Franklin street	1.37
Grading from Franklin to Tremont street	36.67

PITMAN STREET.

Patching	2.20
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WHITE STREET.

Repairing	2.03
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WINTER STREET.

Paving gutter	7.80
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HARROD COURT.

Patching90
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 Ward Five.

MERRIMACK STREET.

Grading between School and Warren streets	63.93
Repairing	4.03
Repairs, concrete opposite W. S. Baker's	14.53

PINE STREET.

New concrete sidewalk at Benj. French's	26.68
Repairing	1.98

ORCHARD STREET.

Repairs, concrete	43.00
Repairs, cobble gutter	1.00

BLAKE STREET.

Repairs, concrete	9.75
Re-setting curbing at Green street	3.93
Patching concrete	1.00
Repairing sidewalk . . . . .	.29

HIGHWAY DEPARTMENT.

253

LIBERTY STREET.

Repairs, concrete	\$9.75
Repairing cobble gutter near Pleasant street .	.50
Repairing sidewalk	1.80

HIGH STREET.

Repairing	2.60
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HANOVER STREET.

General repairs	4.68
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SCHOOL STREET.

General repairs	27.63
Paving gutter on north side for crossing . .	82.45
Repairs, concrete crossing	5.98
Putting in drive box at Davis', near Fruit street .	.73
Building gravel walk from High west, to concrete	28.26
Repairing banking, corner of Merrimack street .	2.00

WARREN STREET.

General repairs	42.56
Cutting and filling gutter, corner Warren and High streets	10.76
Grading sidewalk for concrete, corner of High street	8.38
Concrete sidewalk and edgestone	146.14
Repairs, concrete crossing at Fremont street .	6.12
Building railing, city lot	7.64
Repairing concrete (roadway)	3.74
Repairing sidewalk . . . . .	.90
Repairs, concrete sidewalk opposite J. F. Moseley's	13.45

GREEN STREET.

General repairs	2.93
Cutting tree, corner Warren street	4.71
Circle edgestone, corner of Pleasant street . .	18.14

PARK STREET.

General repairs	1.60
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SHORT STREET.

Grading between Rumford and Huntington streets	13.03
Re-laid gutter between Rumford and Huntington streets	14.22

ODD FELLOWS' AVENUE.

Cutting gutter	\$3.17
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GILES STREET.

Concrete	6.14
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DURGIN AVENUE.

Cutting gutters back of Hill's harness shop	4.88
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 Ward Six.

ELM STREET.

Repairing iron fence at Willard's	\$1.31
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Repairing between Fayette, Wall and Thompson streets	34.51
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MONROE STREET.

Repairing between Monroe and Badger streets60
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Repairing between Rumford and School streets	1.41
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Grading between South and Grove streets	178.81
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Paving gutters both sides of street	164.78
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LINCOLN STREET.

Repairing	2.27
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THORNDIKE STREET.

Repairing with gravel	8.63
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Grading between South and Pierce streets	93.38
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OAK STREET.

Re-laying cobble gutter	16.43
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Setting edgestone on south side	128.10
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New concrete walk	23.61
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FAYETTE STREET.

Repairs, concrete north side west of State street	11.20
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THOMPSON STREET.

Repairs, concrete opposite G. K. Mellen's	9.40
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CONCORD STREET.

Paving gutter	51.11
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Re-building culvert	10.83
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Grading	66.84
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Repairs, concrete crossing Concord and Spring streets	3.09
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HIGHWAY DEPARTMENT.

255

Repairs, concrete sidewalk	\$6.37
General repairs	2.93
WALL STREET.	
Patching between State and Elm streets	23.54
GROVE STREET.	
Patching between Monroe and Downing streets	19.09
PERLEY STREET.	
General repairs	26.64
Grading east of Dunklee' street	1.13
SOUTH SPRING STREET.	
Trimming shade trees	5.56
Patching	28.76
Repairs, concrete opposite W. A. Stone's	6.21
Repairing sidewalk near Clinton street	7.93
DOWNING STREET.	
Patching near South street, Ward 6	2.03
Repairing driveway, Downing and Perley streets	1.78
Paving gutter	46.38
Grading sidewalk for concrete	27.93
New concrete sidewalk	181.49
Building and putting in drive box	3.76
New concrete crossing between Downing and Pierce streets, Ward 6	20.37
New concrete, J. M. Fletcher's	18.17

Ward Seven.

MORTON STREET.	
Grading sidewalk for concrete, east side	\$10.32
New concrete sidewalk	101.34
HOLLY STREET.	
Building gravel walk from Turnpike street west	29.56
DAKIN STREET.	
Grading sidewalk for concrete and new concrete	58.86
Setting corner stone at Dakin and Allison streets	1.78
Repairing sidewalk	1.19

BIRCH STREET.	
General repairs	\$4.51
Fencing . . . . .	.80
HALL STREET.	
General repairs	1.30
CLINTON STREET.	
General repairs near N. White's farm and Turkey Pond	23.88
Building sidewalk west from Harvard street	64.69
Putting in driveway at Eastman's . . . . .	.73
Grading between Harvard and Fruit streets	231.59
Repairing culvert near Bow line	1.50
Repairing railing at Turkey Pond	6.60
Cutting bushes at Turkey Pond	7.93
General repairs, Ward 7	122.14
KIMBALL STREET.	
Building sidewalk	7.22
SILK FARM ROAD.	
Repairing	415.25
HARRISON STREET.	
Setting corner stone . . . . .	.50
HUNTINGTON STREET.	
General repairs	10.96
GAS STREET.	
General repairs	1.70
ROCKINGHAM STREET.	
Repairing near Bow street	4.85
General repairs	4.78
MINOT STREET.	
General repairs	5.53
"MOSE BROWN" ROAD.	
Repairing	8.35
PILLSBURY STREET.	
General repairs	17.62
Grading between Turnpike and proposed Dunklee street	346.30

HIGHWAY DEPARTMENT.

257

Repairing plank walk	\$12.35
Building gravel walk, north side, east of Dunklee street	4.16
Top coating sidewalk	1.70
Grading	25.70
Top coating north side, west from Turnpike street	12.16
WEST STREET.	
General repairs	55.91
Paving gutter east from Dakin street	19.51
New concrete walk, E. B. Hutchinson's	34.24
Drawing and setting corner stone, corner of Morton street	6.70
New concrete walk	21.96
Repairing sidewalk near W. Brooks'	1.70
NOYES STREET.	
Filling	4.11
HARVARD STREET.	
General repairs	7.94
LANGDON STREET.	
Grading	210.56
AVON STREET.	
Building gravel sidewalk between Clinton and South streets	56.42
Grading	124.07
Repairing	1.20
Rolling . . . . .	.80
WATER STREET.	
Repairing	20.03
Work on lower bridge	7.57
Repairing railing, east side	2.96
Raising wall and building sidewalk at junction of Hall street	124.66
St. PAUL'S SCHOOL ROAD.	
General repairs	4.27

FRUIT STREET.	
Patching	\$17.21
Building sidewalk	5.60
Repairing South Fruit street . . . . .	.40
WOODMAN STREET.	
Repairing	1.13
SOUTH STATE STREET.	
Repairing . . . . .	.40
IRON WORKS ROAD.	
General repairs	44.14
Grading and filling	26.01
TURNPIKE STREET.	
General repairs	49.07
Setting post, Turnpike and Rockingham streets . . . . .	.40
Grading	15.21
Building crossing off Langdon street	3.05
Putting in drivebox off gas works	2.27
Building railing near Holly street	3.02
BOG ROAD.	
Repairing	4.49
MILLS STREET.	
Top coating sidewalk, west side, between Allison and West streets	18.23
BROADWAY.	
General repairs	8.41
Repairing sidewalk, east side, between Humphrey and Allison streets	3.85
Grading	298.44
Building gravel sidewalks, both sides	80.53
New concrete sidewalk	54.11
Putting in pipe drain near Rollins Park	8.26
Building crossing off Rollins Park	3.40
DUNKLEE STREET.	
Setting stone bounds	1.33
MCKINLEY STREET.	
Repairing	20.00

HIGHWAY DEPARTMENT.

259

ALLISON STREET.

General repairs	\$25.17
Setting curbstone from Badger to Mills street .	133.44
Building gravel walk	15.91
Cutting gutter and shaping bank, corner of Kimball street	7.77
New concrete sidewalk	117.58
Paving gutter between Badger and Mills streets .	6.56
Grading sidewalk	5.66

Ward Eight.

SUGAR BALL ROAD.

General repairs	\$10.83
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LOUDON ROAD.

Patching from Gully Hill to Break O'Day . . .	7.28
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PEMBROKE ROAD.

Grading with sod, top of Glover Hill to Plains .	57.97
Repairing	10.00
Cutting bushes	7.20
Grading with gravel, top of Glover Hill . . .	88.77
General repairs	11.99

DEPOT STREET.

General repairs	1.57
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CLOUGH'S AVENUE.

Grading	8.50
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CLOUGH'S MILL.

Removing trees	1.86
General repairs	11.99

BRIDGE STREET.

Lights in gully	82.00
Repairing paving	3.10
Lengthening culvert	21.14
General repairs	30.71

GLOVER HILL.

General repairs	41.07
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GULLY HILL.

General repairs	\$2.40
Cleaning gutters	4.33
Putting in drive box	3.00
Building plank culvert	15.96
Patching at bridge	25.11
Patching Loudon road	79.46

FREIGHT STREET.

Repairing crossing at foot of Freight street . . .	13.27
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RAILROAD STREET.

General repairs	2.93
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GARVIN'S FALLS ROAD.

Cutting bushes	11.40
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WYATT'S ROAD.

Putting in plank culvert near lower bridge . . .	3.60
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 Ward Nine.

PERKINS STREET.

Paving gutter from Bradley street sidewalk . . .	\$36.76
Grading	76.95
Building gravel walk, south side, between Rumford and Bradley streets	22.33

WYMAN STREET.

Top coating sidewalk	1.60
Paving gutter, south side, west from Rumford street	14.90

LITTLE POND ROAD.

Repairing near club house	9.53
General repairs	23.98
Repairing between Auburn and head of Penacook Lake	23.96
Repairing near John Jordan's	1.47

PENACOOK STREET.

Removing clay	30.34
General repairs, Ward 9	9.85
Repairing sidewalk, south side, near State street .	2.83
Removing fallen tree, Ward 9	1.27

HIGHWAY DEPARTMENT.

261

NORTH MAIN STREET.

General repairs, Ward 5	\$1.80
Repairs, concrete crossing Main and Park streets, Ward 5	3.90
Repairs, concrete crossing Main and Centre streets, Ward 5	3.92
Patching concrete, Chase, Brown and Jones' blocks, Ward 5	2.00
Repairing block paving west side of Depot street .	2.30
Repairing paving between Main and School streets	.96
General repairs, Ward 4	2.00
Repairs, concrete, Ward 5	196.16
Putting in flagging, Hall's Court, Ward 4	6.32
Repairs, concrete crossing Hall's Court	13.86
Re-laying block paving off Opera House, Ward 5	.78
Patching sidewalk, North Main street near Wm. Fiske's . . . . .	.80
Repairing sidewalk at Pleasant street . . . .	.56
Repairs, concrete sidewalk, Ward 4	47.63
New concrete sidewalk, Ward 4	41.91

RUMFORD STREET.

General repairs, Ward 9	14.74
Paving gutter between Highland and Church streets, Ward 9	54.77
Banking sidewalk between Church and Wyman streets, Ward 9	12.46
Grading from Washington to Abbott streets, Ward 4	110.63
Removing fallen tree off old crusher, Ward 9 . .	.33
Paving gutter south of Centre street, Ward 5 . .	19.26
Paving gutter south of Short street, Ward 5 . .	16.02
Repairing sidewalk between Franklin and High- land streets, Ward 9	2.83
New concrete crossing, Blossom Hill cemetery, Ward 9	38.32
New concrete crossing, Rumford and Short streets, Ward 5	13.24
Repairs, concrete sidewalk opposite No. 4	16.34

Building gravel walk east side from Perkins street, Ward 9	\$23.18
Repairing driveway between Albin and Highland streets	3.11
General repairs, Ward 4	30.45
General repairs	59.95
CHURCH STREET.	
General repairs, Ward 9 . . . . .	.99
Paving gutter from Bradley street east, Ward 9	26.15
New concrete sidewalk, C. C. Schoolcraft	37.51
Re-laying gutter at Bradley street	4.43
General repairs, Ward 4	8.85
SOUTH MAIN STREET.	
Repairing gutter, Acquilla building, Ward 6 . . . . .	.90
General repairs, Ward 6	8.64
Repairing banking, Ward 6	1.13
Patching with gravel near West street, Ward 7	11.26
Removing trees, Ward 7	10.57
Setting edgestone, G. B. Whittredge's, Ward 7	14.42
NORTH STATE STREET.	
General repairs, Ward 9	103.37
Repairs, Ward 4, Walker street . . . . .	.59
Removing shade trees, Dr. Chesley's flat, Ward 4	11.16
Repairs, concrete, Chesley's flat	16.05
Building sidewalk, No. 185 to junction of Rum- ford street and Blossom Hill, for concrete	71.49
New concrete, No. 185 to junction of Rumford street	130.50
Building sidewalk off prison	59.98
Repairs, concrete, B. E. Badger	3.19
Repairing sidewalk, North State and Walker streets	2.83
Patching, Ward 4	28.28
Patching, Ward 9	73.25
Top coating side valk, Foster street to city water works	13.27
Repairing sidewalk between Granite avenue and Oliver Racine's residence	35.57

HIGHLAND STREET.

Paving gutter opposite Jackson street, Ward 9	\$10.63
Repairing, corner of Jackson street	1.67
Repairing banking, corner of Highland street	3.88
Paving gutter, corner Jackson towards Rumford street	15.28

WALKER STREET.

Repairing sidewalk	1.23
General repairs, Ward 4	12.58
General repairs, Ward 9	5.00

CENTRE STREET.

General repairs, Wards 4 and 5	72.43
Building gravel walk, Ward 4	14.18
Removing shade trees, Centre and North Main streets	9.49
Removing shade trees between Green and State streets	3.38
Building drivebridge, Caledonia house . . . . .	.40
Repairing sidewalk west of High street	1.80

BRADLEY STREET.

General repairs, Ward 9	6.90
Paving gutter, east side, opposite Highland street, Ward 4	31.55
Repairing sidewalk off Swedish church	1.13

FERRY STREET.

Removing fallen tree, Ward 4	4.49
Building sidewalk, Ward 8	11.25
General repairs	20.31

SOUTH STREET.

General repairs, Ward 7	13.26
General repairs, Ward 7	48.07
Patching from Thompson to Monroe streets, Ward 6	30.05
Patching at Thorndike street, Ward 6	22.38
Putting in driveboxes, Nos. 72 and 60	4.48
Repairing plank walk	2.38

Repairing concrete, north from Thorndike street on west side	\$30.75
Grading sidewalk for concrete, corner Clinton street . . . . .	.57
Drawing and setting corner stone, corner Monroe street	3.85
Grading south of Pillsbury street, Ward 7	269.61
New concrete, corner of Clinton street	52.65
New concrete crossings, corner of Clinton street	20.58
Removing tree, south of Bushey's farm	3.31
Re-building culvert	213.21
Re-laying gutter	3.83
Repairs, concrete crossing, Thompson and South streets, Ward 6	14.40
Removing trees, south of Laurel street, Ward 6	5.71
Trimming trees south of Laurel street, Ward 6	1.47
Patching between West and Bow streets	10.20
Removing tree, Harriman's	5.76
Repairing railing near Wheeler's Corner	3.67
Patching concrete	1.50
Building driveway, corner of Thorndike street	4.19
Building gravel crossing across Noyes street	6.47
Filling off Bow street, and drawing stone for rubble, Ward 7	18.95
Building crossing across Humphrey street, Ward 7	2.30
FRANKLIN STREET.	
General repairs, Ward 9	24.44
Grading between State and Bradley streets	136.86
Paving gutter, Ward 9	39.39
Paving gutter, Ward 4	143.20
Repairing sidewalk, west from Rumford street, Ward 9	7.60
Repairs, concrete sidewalk, No. 42	1.41
Banking sidewalk	3.60
AUBURN STREET.	
General repairs, Ward 9	7.70
Re-laying cobble gutter, Ward 4	7.55
Paving gutter, west side of Heath's, Ward 4	17.99

SOUTH STATE STREET.

General repairs, Wards 5 and 6	\$7.93
Repairs, macadam, Ward 6	1.13
Repairs, concrete, Ward 6	26.20
Top coating sidewalk, junction of Turnpike street, Ward 7	1.70
Top coating sidewalk, from Harrison street, north	4.36
Filling gutter, Ward 7	3.73
General repairs, Ward 7	13.01

NORTH SPRING STREET.

General repairs, Ward 4	7.70
Re-laying cobble gutter between Washington and Cambridge streets, Ward 4	5.00
Paving gutter between Washington and Cambridge streets	30.60
Building drive-bridge No. 87	1.73
Removing trees at Centre and Pleasant streets, at Ward's	9.18

PLEASANT STREET.

General repairs, Ward 6	21.93
Re-laying cobble gutter near South street, Ward 6	4.15
Trimming shade tree between Pine and Liberty streets, Ward 6	1.13
Repairs, concrete sidewalk	55.46
Repairs, concrete crossing, Pleasant and Main streets	7.30
Grading Pleasant street hill, Ward 5	2.83
Patching concrete	3.00
General repairs, Ward 7	4.72
Re-laying cobble gutter near Main street, Ward 5	4.13
Re-laying cobble gutter, corner Pleasant and Main streets, Ward 5	10.00
General repairs, Ward 5	20.17

CONCORD, N. H., January 9, 1900.

Below is a detailed statement of the cost of Pleasant street, in the city of Concord, state of New Hampshire.

Width of stone bed	20 and 30 feet
Depth of stone bed	7 inches
Length of stone bed	2,733 feet, or .5176 miles
6,933 square yards macadam	\$4,424.93
Earth excavation	4,170.91
Drains, 2,961 linear feet	1,894.27
Cobble gutters, 782 square yards	341.01
Sidewalks, 2,733 feet long, 6 feet wide	140.27
Loaming slopes	443.49
Culverts	16.15
Bank wall	21.20
Supplies	457.18
Fences	1.50
Blacksmithing	17.84
Watchman	139.86
Total	<u>\$12,068.61</u>
Sum paid by Mrs. Mary B. G. Eddy	8,000.00

Below is a list of the money paid to the city treasurer for crushed stone, concrete, paving, etc.

CONCRETE.

J. E. Hutchinson	\$17.14
Benjamin French	13.34
E. B. Hutchinson	52.53
Peter Batchelder	17.56
Thomas Farrand	37.58
Maria Putnam	13.72
Walter Jenkins	11.70
Mrs. E. E. Chandler	53.76
Mrs. S. H. Edmunds	51.21
R. É. Kimball	6.38
Mrs. G. H. Hammond	6.70
Mrs. Thompson . . . . .	.88
S. S. Kimball	6.43
G. A. Foster	28.81
Mrs. A. C. Ferrin	20.35
T. W. Williams	5.09
S. W. Emerson	9.19
J. F. Mooney	10.15
A. Clark	73.07
A. D. Fosgate	20.72
H. W. Ranlet	9.95
C. H. Sanders	66.46
J. M. Fletcher	9.09
Mrs. D. G. Foley	6.66
J. E. Pecker	2.91
Mrs. Godfrey	20.59
J. C. Farrand and F. G. Chandler	25.18
C. C. Schoolcraft	16.88
A. J. Thurston	23.15
Crockett heirs	17.56
J. R. H. Davis	8.95
C. T. Langley	9.14

W. H. Reed	\$7.70
F. A. Abbott	11.30
J. E. Hutchinson	8.04
D. T. Twoomey	11.03
F. A. Sanborn	6.96
J. S. Dutton	11.63
Mrs. N. W. Burke	8.95
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	\$738.44

CRUSHED STONE, PAVING, ETC.

E. G. Brown, crushed stone	\$1.00
D. Morrison, leather hose	5.60
Labor	2.62
City Water Works, paving	58.70
New Hampshire Asylum, crushed stone	40.50
State camp ground, sprinkling	18.19
James Rowell, crushed stone	6.00
James Adams, crushed stone	2.00
Samuel C. Eastman, gravel	8.60
George L. Theobald, crushed stone	2.00
Fellows & Sons, crushed stone	45.00
Labor, sewer account	5.98
George Chesley, sand	3.00
J. G. Mann, street cleanings	46.50
N. E. Telephone & Telegraph Co., paving	3.00
N. E. Telephone & Telegraph Co., crushed stone	196.55
John Coburn, crushed stone	10.00
Concord Foundry Co., scrap iron	1.87
Concord Light & Power Co., crushed stone	7.00
Joseph Stickney, ashes	2.70
N. H. Spinning Co., gravel	2.80
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	\$469.61

There remains unpaid the following amount for concrete and crushed stone for the year 1899 :

Concrete	\$16.75
Crushed stone	8.00
Unpaid bills for concrete previous to 1899	302.91
Appropriation	\$36,400.00
Amount expended	34,744.61

Paid as follows :

Blacksmithing	\$214.43
Brick, sand and cement	202.73
Carpentry and lumber	631.85
Coal	35.01
Curbing, crossings and concrete	2,824.18
Gas . . . . .	.30
Grain	497.08
Stone, grout, etc.	87.62
Gravel	541.34
Hardware	31.33
Harness and repairs	136.49
Hay and straw	375.47
Labor	26,560.60
Miscellaneous claims	248.39
Plumbing	80.31
Powder, fuse and dynamite	22.20
General repairs	1,689.97
Castings	211.93
Water	265.00
Veterinary surgeon and medicine	21.75
Unpaid bills of 1898	66.63
Total	\$34,744.61

GRAVEL SIDEWALKS.

STREET.	LOCATIONS.	Dimensions in feet.	Ward.	Cost.
Franklin.....	South side, west of Rumford.....	230x5	9	\$ 7.60
Rumford.....	East side, from Perkins street south	220x6	9	23.18
Perkins.....	South side, from Rumford to Bradley	660x5	9	22.33
North, State.....	East side, from Foster street south.....	590x6	9	13.27
North State.....	Opposite Prison	592x5	9	59.98
Jackson.....	Between Highland and Church, east side.....	252x5	4	5.23
Wyman.....	South side, from Rumford.....	126x5	9	1.60
Chestnut court..	East of Auburn street.....	{ No. side, 225x5 } { So. side, 207x5 }	4	104.73
Center.....	North side, from Washington street	243x5	4	14.18
School	North side, west from High.....	288x6	5	28.26
Ridge Road.....	East side, north from Center... ..	139x4	4	6.56
Clinton.....	South side, west of Harvard street.....	311x6	7	64.69
Avon	South to Clinton.....	678x5	7	51.42
Allison.....	North side, corner Kimball.....	123x5	7	15.91
Pillsbury.....	East of Dunklee, north side	215x6	7	5.86
Dakin	East side.....	50x5	7	1.19
Broadway	{ West Side, between Allison and Warrenstone..... } { East side, from Pillsbury..... }	600x6 840x7	7	80.53
			7	Cost of both sides

HIGHWAY DEPARTMENT.

NEW CONCRETE SIDEWALKS.

STREET.	LOCATIONS.	Ward.	Pdgestone.	Cost edge-stone.	NO. OF YARDS CONCRETE.				Cost concrete, including grading for same.
					70 cts.	50 cts.	45 cts.	25 cts.	
Warren.....	Corner High.....	5	208 5	\$93.82					\$60.70
South.....	Corner Clinton.....	4						116.28	53.22
Tremont.....	A. D. Foggate.....	4	53.3	20.86				117.	17.45
West.....	Hutchinson and Thurston.....	7						88.77	56.20
Church.....	C. C. Schoolcraft.....	4						124.85	37.51
Penacook.....	J. E. Pecker.....	2					11.62	75.	5.81
Broadway.....	West side, Bachelor's to Pillsbury.....	7						96.6	54.11
North State.....	No. 185 to junction Rumford.....	9						290.	201.99
Downing.....	Between South and Pierce.....	6						403.27	209.42
Oak.....	J. M. Fletcher.....	6	186.5	128.10				40.38	18.17
Pine.....	Mrs. E. Chandler.....	5						44.28	23.61
Lyndon.....	Benjamin French.....	1						59.29	26.68
Washington.....	Thomas Farrand.....	4					150.32		75.16
Morton.....	Nos. 2, 3 and 5.....	4						114.81	56.01
Dakin.....	South of Exchange block.....	7						19.80	8.91
Giles.....	East side.....	7						189.76	95.70
Summer.....	Allison to Maxam's.....	5						112.81	58.86
Elm.....	Summer and Main.....	1					8.77		6.14
Allison.....	Elm and Webster place.....	1	.64	20.47				145.90	93.24
Allison.....	Hutchinson and Edmunds.....	7	234.5	113.44				208.24	104.12
North Main.....	G. B. Foster.....	7						186.28	92.11
	Mrs. Godfrey.....	4						56.6	25.47
								91.53	41.91

REPAIRS ON CONCRETE SIDEWALKS.

STREET.	LOCATIONS.	Ward.	NUMBER OF YARDS CONCRETE.					Cost.
			50 cts.	45 cts.	40 cts.	35 cts.	25 cts.	
Orchard	Opposite F. Jones	5		10			127 80	\$36.45
Blake	W. J. Drew and J. A. Cochran	5					26 19	6 55
Fayette	North side, west of State street	6					38 99	9 75
Thompson	Opposite G. K. Mellen's	6					44 8	11 20
Liberty	D. G. Lowell	5					37 6	9 40
East Canal	Opposite Postoffice	5		5 75			39	9 75
Concord	Opposite H. Pearson's and J. Caswell's	6			316 06		25 48	2 58
Washington	In front of engine house	1	1				126 42	6 37
Charles	North walk	1	1				54 4	13 60
Charles	Opposite No. 1	1	3					1 50
Elm	Opposite No. 27	1						1 50
Pleasant	Opposite Nos. 8 to 14, Nos. 80 and 50	5				146 90		36 72
Pleasant	Corner Pleasant and Green	5			21 28			7 44
Pleasant	Opposite J. Lane's and B. E. Badger's	4				45 20		11 30
North Main	Nos. 6 to 204	4 & 5		13 2		951 43		243 79
North State	Chesley block	7				51 6		16 05
Merrinack	Opposite W. S. Baker's					58 12		14 53
South Spring	W. A. Stone					24 87		6 21
High	Near Summit	1				2 91		72
Warren	Roadway	5			9 35			3 74
Warren	J. F. Moseley	5		29 9				13 45
Franklin	North from Thorndike, west side	5		20		87		30 75
Franklin	No. 42	4						1 41
Rumford	Opposite No. 4	4		7				5 65
Beacon	J. S. Dutton	4		14 8		52 78		16 34
South State	Nos. 59, 73 and 75, South State and Monroe	6		9 6		25 92		6 66
Main	North side	1					51 3	26 20
Main	Opp. Foote, Brown's, Taylor blk., Washington house	1					118 56	29 04
North State	Opposite B. C. B. Badger's	4			111 3		84 31	65 59
North State	Holden's mill	3					12 78	3 19
North State		3				17 46		6 11

REPAIRS ON CONCRETE CROSSINGS.

STREET.	LOCATIONS.	YARDS OF CON- CRETE.			Ward.	Cost.
		40 cts.	50 cts.	70 cts.		
School	School and Warren	14.94	.....	.....	5	\$5.98
Warren	At Fremont	15.29	.....	.....	5	6.12
South	Thompson and South... ..	36.	.....	.....	6	14.40
Main	Main and Charles.....	30.6	.....	.....	1	12.24
Main .....	.....	63.36	.....	.....	1	25.34
Main	West Canal.....	27.5	.....	.....	1	11.00
Main	Merrimack avenue	17.94	.....	.....	1	7.17
Concord.....	Concord and Spring.. ..	.....	.....	4.42	6	3.09
Elm .....	.....	.....	1.2	.....	1	.60
Pleasant.....	Pleasant and Main	18.26	.....	.....	.....	7.30
Main	Main and Park	9.75	.....	.....	5	3.90
Main	Between Main and Center.	9.80	.....	.....	5	3.92
North Main...	Hall's	34.65	.....	.....	4	13.86

STREETS GRADED.

STREET.	LOCATIONS.	Material.	Depth in inches.	Length in feet.	Ward.	Cost.
Perry avenue.	Betw'n Washington and Center	Gravel	4	442x10	4	\$ 35. 88
Thorndike ...	Between South and Pierce.....	"	6	300x17	6	93. 38
Clinton.....	Near Fruit.....	"	7	550x26	6&7	231 59
Avon.....	From Clinton to South.....	"	10	650x18	7	147 07
South.....	From Bow street south.....	"	8	579x22	7	269. 61
Langdon .....	.....	"	6	300x26	7	210. 56
Pillsbury	From Turnpike west.....	"	6	750x32	7	372. 00
Concord.....	From South to Spring.....	"	4	215x24	6	66 84
Short.....	From Rumford to Huntington..	"	3	182x11	5	13. 03
Jackson.....	From Franklin to Tremont.....	"	6	177x14	4	36 67
Perkins	Between Rumford and Bradley.	"	4	500x15	9	76 95
Broadway	So. from Pillsbury, E. side track	"	8	400x23	7	298. 44
E. Penacook..	.....	"	8	895x18	2	196 02
Monroe.....	From South to Grove	"	6	607x22	6	178 81
Rumford.....	From Abbott to Washington....	"	6	472x17	4	110 63
Franklin.....	Between Bradley and State.....	"	7	465x28	4	136. 86
Pembroke rd.	Top of Glover Hill to Plains....	Sod.	8	400x20	8	57. 97
Turnpike.....	Opp. brick yd., near Bow line...	Gravel	6	100x12	7	15 21
Pembroke	Top of Glover Hill.....	"	4	225x18	8	88. 77

COBBLE GUTTERS.

STREET.	LOCATIONS.	Ward.	Length in feet.	Area in square yards.	Cost.
Wyman	South side.....	9	126	56	\$ 14.90
Concord.....	South to Spring.....	6	450	200	51.11
Bradley.....	East side, opp. Highland, to Church	4	304	135 $\frac{1}{2}$	31.55
Church	From Bradley east.....	4	252	112	26.15
Highland.....	Opposite Jackson.....	9	150	66 $\frac{3}{4}$	10.63
Jackson.....	Between Highland and Church.....	9	520	231 $\frac{1}{2}$	71.91
Jackson.....	Between Tremont and Beacon.....	4	564	250 $\frac{3}{4}$	70.44
Tremont.....	From Jackson street east.....	4	121	53 $\frac{1}{2}$	9.53
Auburn.....	Opposite No. 5.....	4	124	55 $\frac{1}{2}$	17.99
Allison.....	Badger to Mills.....	7	215	95 $\frac{3}{4}$	24.86
Perkins.....	From Bradley street sidewalk.....	9	353	156 $\frac{3}{4}$	36.76
Chapel.....	.....	4	203	90 $\frac{3}{4}$	30.98
Rumford.....	From Center street south.....	5	190	84 $\frac{1}{2}$	19.26
Highland.....	Corner Jackson, towards Rumford.	9	66	29 $\frac{1}{2}$	15.28
Franklin.....	Between Rumford and Charles.....	9	270	120	39.39
Rumford.....	From Short street south.....	5	163	81 $\frac{3}{4}$	16.02
Beacon.....	Corner State street.....	4	121	53 $\frac{1}{2}$	17.26
Rumford.....	Between Highland and Church.....	9	228	101 $\frac{3}{4}$	54.77
Tremont.....	Between Rumford and Lyndon.....	4	226	100 $\frac{3}{4}$	30.42
School.....	North side for crossing.....	5	541	240 $\frac{3}{4}$	82.45
Downing.....	East from South.....	6	267	118 $\frac{3}{4}$	46.38
West.....	East from Dakin.....	7	124	55 $\frac{1}{2}$	19.51
Franklin.....	.....	4	1075	477 $\frac{1}{2}$	143.20
Perry.....	.....	4	664	221 $\frac{3}{4}$	53.25
North Spring.	Betw'n Washington and Cambridge	4	100	44 $\frac{1}{4}$	30.60
Monroe.....	North and south sides.....	6	1250	555 $\frac{3}{4}$	164.78
Winter.....	.....	4	56	18 $\frac{3}{4}$	7.80

COBBLE GUTTERS RELAID.

Auburn.....	West side.....	4	50	22 $\frac{3}{4}$	\$ 7.55
Short.....	North side.....	5	182	80 $\frac{3}{4}$	14.22
North Spring.	Betw'n Washington and Cambridge	4	100	44 $\frac{1}{4}$	5.00
Oak.....	South side.....	6	187	62 $\frac{3}{4}$	16.43

RIVER BRIDGES.

Name of bridge.	Kind of bridge.	No. of spans.	Total length in feet.	Year erected.	Built and erected by	Repairs, 1899.	Repaint-Ing.	Total re-pairs to date.	First cost of bridge.	Cost of masonry.	Present condition.	Remarks.
Pembroke....	Wooden lattice.....	1 82 ft., 2 147 ft., 1 86 ft. 6 in.	472.6	1891	Hazelton & Abbott				\$8,034.20	\$11,388.61	Good	
London.....	Steel Pratt truss, pin connected	1 162 ft. 10½ in., 1 156 ft. 3 in., 1 171 ft. 10½ in.	500.	1894	Berlin Iron Bridge Co.		\$347.65	\$ 299.88	18,478.98	768.86	"	Should be repaint
Federal.....	Iron bowstring.....	1 154 ft. 9 in., 1 156 ft., 1 131 ft. 2 in., 1 162 ft.	448.2	1873	Wrought Iron Bridge Co.		579.12	2,261.16	18,462.50	8,561.85	"	
Sewall's Falls	Wooden lattice.....	1 163 ft. 1 in., 1 162 ft. 3 in.	341.6	1874	Dutton Woods			799.50	7,750.00	6,348.69	"	New floor.
Twin.....	Iron whipple truss.	1 146 ft. 8 in.	149.3	1899	Wrought Iron Bridge Co.	Coal tar concrete floor, \$174.97				1,634.08	"	Old Main-St. Bri shortened new floor and top lateral beam put in.
Main Street..	Steel petil truss....	1 187 ft.	190.5	1899	Wrought Iron Bridge Co.	Coal tar concrete floor, \$185.45				172.99	"	
Horse Hill....	Steel riveted.....	98 ft. 3½ in., 98 ft. 3½ in.	201.6	1895	Wrought Iron Bridge Co.		189.06		3,992.08	5,435.98	"	
Borough.....	Hard pine stringers	1 31 ft.	85.	1892	City				574.10	946.44	"	
Borough Cov-ered	Wooden lattice.....	1 87 ft. 8½ in.	104.6			Floor, \$1.50.		993.25		2,759.00	Fair.	
Thompson Lower Bridge	Wooden stringers..			1876	City			33.49	387.76	255.07	Fair.	
On Pembroke road	Wooden pony truss	1 45 ft.	48.	1879	City	\$1.50.			236.51	382.50	"	Amt. paid by Conc Should be rebuilt
Clough's Mills	Wooden pony truss	1 50 ft.	56.	1891	Hazelton & Abbott	0.59.			267.50	556.50	Good	Amt. paid by Conc Floor and one stringer poor.
Sheep Davis..	Wooden stringers..	1 41 ft.	45.		City			13.00			Fair.	
Richardson's Mill	Wooden stringers..	1 22 ft. 5 in., 1 28 ft. 6 in., 1 26 ft. 2 in.	77.1		City						Poor.	Should be rebuilt.
Turnpike.....	Wooden pony truss	1 50 ft.	56.	1896	G. G. Jenness.				258.37	581.40	Good	Amt. paid by Conc

key	Mooreland Farm	Wooden stringers..	.....	1899 City .....	.....	.....	\$107.28	\$167.61	Good	.....
"	White Farm..	1 18 in	24.5	City	\$1.86	.....	.....	.....	Poor.	.....
"	St Paul's School	Steel solid floor	28.	1898 Wrought Iron Bridge Co. ....	.....	.....	806.73	589.67	Good	.....
"	Frye's Mill...	Wooden stringers..	.....	City	21.79	.....	.....	.....	"	.....

NOTE DATA: Previous to 1899, taken from City Reports.

CITY ENGINEER.

REPORT OF CITY ENGINEER.

OFFICE OF THE CITY ENGINEER,
CONCORD, N. H., December 31, 1899.

To the City Council :

The undersigned herewith submits the annual report of the Engineering and Sewer Departments for the year ending December 31, 1899.

BRIDGES.

The Main street bridge and the Twin bridge, in Penacook, were completed, and a certificate issued February 3, 1899, over four months later than the time specified for completion in the contract. The amount paid for the entire work was \$8,100. The cost of each structure cannot be given, as the price paid covered the cost of all labor and materials for both bridges. The expenditures attending this work, outside the contract with the bridge company, will be found in the report of the Commissioner of Highways. Your engineer would recommend that any future bridge construction be taken from plans furnished by the city, and not from plans furnished by the contractors.

An examination of the bridges built upon city plans and those built upon plans furnished by the contractors, will, in my opinion, sustain the recommendation. The Main street

bridge was not, as has been stated by some parties, built to accommodate the street railway. The bridge was not designed to carry the load that street railway service would bring upon it. No extras were allowed on this work, although the contractors claimed some \$300 for a set of new pins furnished for the Twin bridge. Upon taking down the old bridge on the Main street site, examination revealed the fact that the old pins were not suitable to be used again, and new pins were ordered, which was in strict accordance with the terms of the agreement made with the contractors. By shortening the old bridge about 40 feet, the introduction of a new floor system, and a new overhead lateral system, a bridge suitable for the Twin site was made, which, barring accident, should do good service for many years. The work was done under contract with the Wrought Iron Bridge Co., of Canton, O., who were the original builders of the Main street bridge.

ENGINEER'S OFFICE AND WORK.

The general survey of the city has been advanced, so far as we were able to devote time to it, the past season. The territory from Bow line on the south to the Horse Hill bridge on the north, and the Hopkinton line on the west, has been covered, and with the exception of that portion lying northwesterly from the Horse Hill bridge, the entire westerly side of the city has been surveyed.

The reduction of the appropriation for this department made it necessary for us to drop this work in the fall, at a season when we could have advanced more rapidly. We hope that the appropriation for this department, for the coming season, may be somewhat increased over the last one.

It would be of advantage to the different departments to have a complete map of the city, but without a special appropriation for this work to enable us to put a party in the field for this work alone, we cannot complete the remaining portions, on the easterly and westerly sides of the city, for some time.

The work for all departments has been attended to as rapidly as possible, and so far as known no work requiring immediate attention has been left unfinished.

The removal of the office of this department to the city building has been of benefit to us in increased space, and the saving of nine months' rent to the city.

The assistants employed the past season were: Frank W. Brown, principal assistant; Fred W. Lang, transitman; Charles H. Chandler, rodman; who have cheerfully and thoroughly executed the work assigned to them.

The expenses of this department have been as follows:

Paid for salaries	. . . . .	\$2,367.50
supplies	. . . . .	98.55
repairs	. . . . .	18.20
livery bill	. . . . .	103.00
car fares and incidentals	. . . . .	78.95
rent	. . . . .	51.00
		<hr/>
Total	. . . . .	\$2,717.20
Appropriation	. . . . .	2,701.00
		<hr/>
Overdrawn	. . . . .	\$16.20

I wish to express to the mayor and the city council my appreciation for their support and advice during the past season.

SEWERS.

With the exception of a break in the twenty-inch outlet near Larkin's store no unusual expenses have attended the repairs and maintenance of the sewer system. A statement of the cost of new work and the amount expended for repairs and general maintenance will be found upon the following pages.

There is no doubt, in my mind, that the adoption of the state law in regard to plumbing and regulations for the same, will result in direct benefits to the public as well as to the plumbers. With an inspector capable of making a thorough

inspection of old and new work, we shall be relieved, in many cases, of complaints as to improper construction, open joints and generally bad systems of house plumbing, and the serious results arising therefrom.

While your engineer recognizes the fact that there are differences in opinions among sanitary engineers and plumbers regarding the proper ventilation of sewers and their connections, we can only follow closely the best results of years of experience in cities where they are in search of, and adopt, the best methods and secure the best results.

Your engineer would recommend the abolishment of the running-trap, generally found outside the building, in our house sewers. In my opinion an open pipe from the street sewer to a point above the roof, of undiminished size, with all connections trapped outside the line of this pipe, will give relief from back pressure of sewer gases, as when the sewers are suddenly filled from showers, and afford an unobstructed avenue of escape for any and all gases generated in the sewer system. It would also remove one of the common causes of stoppages in house drains. There are sometimes cases where a running-trap might be required, but they are largely in the minority. If the method of open connections was adopted in this city, it would ventilate the sewer system to a great extent.

At present we have some complaints of foul odors and escaping gases from a few catch-basins. This must be expected, as very few open connections are found to exist, and these basins, if traps are not tight, are the only openings through which the accumulated gases can escape.

STREETS LAID OUT.

Dolan street, West Concord.
Dunklee street.
Robinson street, on the Plains.

CHANGES IN STREET LINES.

Pleasant street, near the home of Mrs. M. B. G. Eddy.

GRADES ESTABLISHED.

- North sidewalk, Warren street from High street, easterly, 90.5 feet.
- East sidewalk, High street from Warren street, northerly, 100 feet.
- East sidewalk, Pine street, opposite the premises of B. French.
- High street, from School street to Centre street.
- East sidewalk, High street from School street to Centre street.
- Centre street, from High street to Pine street.
- South sidewalk, Centre street from High street to Pine street.
- North sidewalk, School street from High street, easterly, 337 feet.
- School street, from High street, easterly, 337 feet.
- Pleasant street, from Fruit street, westerly, 2,775 feet.
- West and southerly sidewalk, Avon street from Clinton street to South street.
- South sidewalk, West street from Badger street, easterly, 130.7 feet.
- South sidewalk, Tremont street, opposite the premises of A. D. Fosgate, 72 feet.
- West sidewalk, South street, southerly from G. W. Brown's south line, 123 feet.
- East sidewalk, North Main street, opposite the residence of Mrs. Godfrey.
- West sidewalk, North State street from a point 108 feet, northerly, from Waverly street to Rumford street.
- North sidewalk, Allison street from Dakin street to Mills street.
- West sidewalk, Lyndon street from Charles Lynam's northerly line, north, 100.6 feet.
- South sidewalk, Church street from North State street, easterly, 107 feet.
- North sidewalk, Centre street from Washington street, easterly.

Both sidewalks, Chestnut court.
 South sidewalk, Perkins street.
 North sidewalk, School street from High street, westerly,
 391 feet.
 North sidewalk, Downing street from Pierce street to South
 street.
 South sidewalk, Chapel street, opposite the double tenement
 house of John H. Pearson.
 South sidewalk, Summer street (Penacook) from High street,
 westerly, 150 feet.
 North sidewalk, Elm street (Penacook) west from Webster
 place, 151.25 feet.
 West sidewalk, Webster place from Elm street, northerly,
 206.4 feet.
 Clarke street (West Concord).

COST OF SEWER WORK, 1899.

BROADWAY, SOUTH FROM CARTER STREET.

245 feet of 12-inch Akron pipe, 183 feet of 10-inch Akron
 pipe; total, 428 feet.

Paid for labor	\$205.20
pipe	109.22
brick	10.13
cement	5.90
castings	8.84
wrought iron . . . . .	.68
trucking	11.35
hardware . . . . .	.40
oil . . . . .	.50
tools	14.56

\$366.78

Average cost per foot, \$0.856.
 Material excavated, sand.

RUMFORD STREET, SOUTH FROM WALKER STREET.

200 feet of 10-inch Akron pipe.

Paid for labor	\$49.25
pipe	46.49
brick	6.75
cement	7.51
trucking	14.00
oil . . . . .	.45
tools	5.14
	<hr/>
	\$129.59

Average cost per foot, \$0.589.

Material excavated, gravel.

NORTH STATE STREET, BLOW-OFF AT PICKLE FACTORY.

54 feet of 6-inch Akron pipe.

Paid for labor	\$15.57
pipe	4.86
	<hr/>
	\$20.43

Average cost per foot, \$0.378.

CLINTON STREET, WEST FROM HARVARD STREET.

470 feet of 18-inch Akron pipe.

Paid for labor	\$1,168.43
pipe	215.47
brick	27.00
cement	17.70
castings	15.57
wrought iron	1.13
trucking	47.92
oil	3.20
tools	62.05
jute packing	7.28
	<hr/>
	\$1,565.75

Average cost per foot, \$3.331.

Material excavated, running sand with water.

TURNPIKE STREET, SOUTH FROM 38-INCH OUTLET.

Paid for labor	\$6.45
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WARRENSTONE STREET, WEST FROM BROADWAY.

306 feet of 10-inch Akron pipe.

Paid for labor	\$72.90
pipe	56.22
cement	1.18
tools	5.34
	<hr/>
	\$135.64

Average cost per foot, \$0.443.

Material excavated, sand.

PLEASANT STREET, WEST FROM MINOT STREET.

1,714 feet of 8-inch Akron pipe, 540 feet of 6-inch Akron pipe; total, 2,254 feet.

Paid for labor	\$1,335.49
pipe	268.20
brick	74.25
cement	33.04
castings	71.07
wrought iron	3.01
trucking	36.95
sand	6.25
hardware	6.86
blacksmithing	53.38
oil	2.70
tools	78.54
	<hr/>
	\$1,969.74

Average cost per foot, \$0.873.

Material excavated, hard pan and sand.

The cost of this work was materially increased by the laying of branches, for future house connections, to clear the macadam roadway, and the careful back-filling and ramming.

REPAIRS.

Beacon street	\$3.50
Bowery avenue . . . . .	.50
Bradley street	3.84
Waverly street	4.80
Warren street	10.82
North State street	37.05
Tremont street	7.00
Outlet, third division	1.38
Downing street . . . . .	.75
20-inch outlet	411.89
North Spring street	1.40
Granite avenue	5.12
Rollins court . . . . .	.70
Academy street	1.00
East of Main street	23.68
Flushing	284.77
	<hr/>
Total repairs	\$798.20

NEW WORK.

Broadway	\$366.78
Rumford street	129.59
North State street	20.43
Clinton street	1,565.75
Turnpike street	6.45
Warrenstone street	135.64
Pleasant street	1,969.74
	<hr/>
	\$4,194.38
Repairs	798.20
	<hr/>
Total expenditure	\$4,992.58
Less, pipe from city shed	10.76
	<hr/>
Total expenditure	\$4,981.82
Appropriation	\$5,000.00
Amount expended	4,981.82
	<hr/>
Unexpended balance, December 31, 1899	\$118.28

SEWERS BUILT, 1899.

6-inch pipe, house branches and blow-off	. . . . .	594 feet.
8- " . . . . .	. . . . .	1,714 "
10- " . . . . .	. . . . .	709 "
12- " . . . . .	. . . . .	245 "
18- " . . . . .	. . . . .	470 "
Total	. . . . .	<u>3,732 feet.</u>

SEWERS BUILT IN CITY PRECINCT TO DECEMBER 31, 1899.

8-inch pipe . . . . .	. . . . .	22,949 feet.
10- " . . . . .	. . . . .	45,023 "
12- " . . . . .	. . . . .	38,124 "
15- " . . . . .	. . . . .	10,627 "
18- " . . . . .	. . . . .	6,204 "
20- " . . . . .	. . . . .	3,434 "
24- " . . . . .	. . . . .	1,749 "
30- " . . . . .	. . . . .	969 "
Brick, 12-inch x 14-inch . . . . .	. . . . .	2,758 "
" 16- " x 24- " . . . . .	. . . . .	1,848 "
" 14- " x 22- " . . . . .	. . . . .	350 "
" 20- " x 32- " . . . . .	. . . . .	2,527 "
" 24- " x 36- " . . . . .	. . . . .	17,937 "
" 28- " x 48- " . . . . .	. . . . .	883 "
" 24- " circular . . . . .	. . . . .	1,515.5 "
" 30- " " . . . . .	. . . . .	402 "
" 38- " " . . . . .	. . . . .	4,080 "
24-inch cast-iron pipe . . . . .	. . . . .	1,576 "
30-inch cast-iron pipe . . . . .	. . . . .	<u>1,054.5 "</u>
Total	. . . . .	164,010 feet.

Total miles in city precinct to date, 31.063.

Above amount does not include house branches or blow-off.

WEST CONCORD SEWER PRECINCT.

The work in this precinct, during the past season, consisted in flushing the entire system at a cost of \$9.88.

EAST CONCORD SEWER PRECINCT.

No extensions were built in this precinct. The system was thoroughly flushed with the assistance of the hand engine at a cost of \$14.50.

There has been deposited, to the credit of the city, the sum of \$29.50, for which amount I hold the receipts of the city treasurer.

Respectfully submitted,
W. B. HOWE,
City Engineer.

PUBLIC LIBRARY.

REPORT OF THE TRUSTEES.

To the City Council :

The trustees of the Public Library submit herewith the report of the librarian, which describes at some length, and with interesting detail, the work of the past year and renders any extended statement by the board unnecessary.

In the years 1891-94 the annual appropriation for the library was \$6,000; in 1895 it was \$6,500; and in 1896, \$6,000. The trustees in their annual reports, prepared by Judge Foster, the president of the board, who knew thoroughly the needs of the library and had the deserved confidence of the city council, alluded to these appropriations as liberal and earnestly recommended their continuance for "the maintenance and prosperity of an institution which has become indispensable to the welfare of our people," and characterized them as "investments which are sure to return large profits in the way of higher education of the people and their mental and moral development." Reports, 1894-1896. In 1897 the trustees of the library, in view of the increased burdens of public taxation, recommended through Mr. Charles H. Sanders, one of their number, then also a member of your honorable body, that the appropriation be reduced to \$5,500, as an economical, not liberal, expenditure for the support of the library during the year, and that amount was granted. In 1898, the trustees recommended the same appropriation, but the city council, unwisely, as we thought, reduced still further the amount to \$5,000, and in 1899 the appropriation shrank to \$4,700. Of this last sum

only \$676.83 has been available for the purchase of books. During the past year the circulation of our library was 90,161 books. The circulation of the Dover Public Library during the same period was 71,269. Yet the Dover library, in 1898 (its statement for 1899 is not at hand), expended for books the sum of \$881.75, or nearly twice the sum we have used for the same purpose when proportioned to the relative circulation. It is evident that a continuance of this extreme economy will result in the serious deterioration of our library, and this deterioration will soonest affect its most useful departments, for scientific books, books of research, works of reference, and similar publications are expensive and if not well abreast the times are almost worthless. In view of this situation a committee of the trustees, consisting of Messrs. Sanders, Hill and Mitchell, has been appointed to confer with your finance committee touching the matter.

In this connection we would say that the affairs of the library have been economically administered, and in other respects the management of the institution has our entire approval. The only merit we can claim in that regard is our uniform support of the librarian in her efforts to shape its policy as best to meet the varied wants of all the patrons. We also commend the faithfulness of the assistants, and we are confident that the public have found their helpfulness and tact unflinching.

CHARLES H. SANDERS,
JOHN E. FRYE,
PAUL R. HOLDEN,
JOHN M. MITCHELL,
AMOS J. SHURTLEFF,
JAMES S. NORRIS,
WILLIAM W. FLINT,
EDSON J. HILL,
MOSES H. BRADLEY,

Trustees.

CONCORD, February 3, 1900.

REPORT OF THE CITY LIBRARIAN FOR 1899.

To the Board of Trustees of the Concord Public Library:

GENTLEMEN:—It is a pleasure to report a gain in both the quantity and the quality of our circulation the past year. We have given out more books and better books. Our percentage of fiction reading now compares favorably with that of the majority of libraries: for instance, our percentage is 78; in Salem, a cultivated old town, with an admirably equipped library, it is 82½ per cent.

At the delivery desk alone, we gave out in 1899 over 90,000 books, more than are given out in cities the size of Manchester and Portland. Large as this figure is, it represents but a small part of the library's usefulness, for as the Minneapolis city librarian says:

“It is only the lighter and cheaper part of our books loaned at the desk. Great injustice is done when account is not taken of the books consulted within the library. One consultation by a teacher, a preacher, or an author, of a weighty work in science, history or philosophy—a consultation the fruits of which are to be presently communicated to hundreds in the school-room, in the pulpit, or in the book, one such consultation is worth more than a score of novel readings.”

It is impossible to take statistics of every book consulted within the building, but it has been estimated by a Chicago librarian that the recorded use is such a small fraction of the whole use of a library that the ratio is as 1:3. Thus the good work recorded by our statistics is in reality tripled.

We can report that out of our great number of books loaned, only two have been lost during 1899.

Our reference room is freely used, mainly, at present, by High School pupils who can run in, even at recess, from their building which is so conveniently near, to consult books which have been laid aside for them at the request of their teachers; and by the members of the art and science departments of the Woman's club. Many ladies, by having papers to prepare, are just realizing the resources of the library.

The purchase of books has been chiefly of those which would best meet the popular demand for pleasure and instruction. One important purchase was the two volume "History of the Catholic Church in New England," and another the ten volume set of John L. Stoddard's lectures. The latter were bought with the income from Mr. P. B. Cogswell's bequest. Each book bought with this money will be marked with a special book-plate, and at any time it can thus be seen where this portion of our income has gone.

A larger yearly appropriation would help our library in several ways. Obviously, we could buy more good new books. Furthermore, we could buy more copies of a book all are wanting at the same time. Thirdly, we could get duplicates of standard works for school use, so that when a teacher in East Concord is using Fiske's "History of the United States," a teacher in West Concord could use it too; or so that when the literature teacher in the High School requires fourteen pupils to read a dozen classics during the term, there might be more than one copy to go the rounds. Fourthly, we could replace worn-out books. Says the Providence librarian, "After a library has passed its twentieth year," and our Concord one has passed its fortieth, "this wear and tear makes itself manifest in an ever increasing ratio, and the money needed for replacing these books is a most unwelcome diminution of the book fund." Some books circulate longer than they should. Occasionally a borrower tucks in a note when she returns a book, saying, "This book is too dirty to go out again." We know it, but so long as it holds together, it has to do duty. As it is, we discard over two hundred utterly worthless books each

year. Fifthly, although by no means lastly, we could, with more funds, bind more back years of magazines for reference.

We do not see how some libraries report the number of books mended. We could not count the number of times we use the paste brush. All books are examined when returned and mended before being put on the shelves, and thousands need attention every month. To instance one item of the repairing done, 6000 old labels have been scraped off, and as many clean ones put on the backs of books, in six months.

Only 500 new borrowers have been registered during the past year; yet the building seems fuller of patrons than it did, and the rooms are growing small. On a recent Sunday afternoon I carried six chairs from our stack-room to the reading-room to accommodate the adults. Then, accompanied by two small brothers, came a little girl, "a simple child that lightly draws its breath," who said, "'We are seven,' and mother wanted to get rid of some of us;" the trio were shown to the boys' room in the basement. Later four lads arrived, who wanted to go down there, and they took the remaining space in that small room. Meanwhile the vestibule was occupied by people looking at the Scribner exhibit of pictures. I assure you, to hang out the sign, "Standing room only," would bring more joy to the librarian than it would to the public.

Junior work is reaching the dignity of a department in modern libraries, and all librarians are asking for funds to equip rooms specially for children; a reading room, where, as they whirl over the pages of "St. Nicholas," they may not disturb a quiet adult, trying to get a cosmopolitan point of view from a foreign quarterly. And another room where the best juvenile literature can be arranged on open shelves, for, as the Pittsburgh librarian says, "Children's books ought to be out for them to select from. If not, they get a grown-up book, are disgusted, return it, leave their card, and the parents criticise the books their children take from the library. It is not possible for the loan desk attendants, at busy times,

to examine the books and question the children"; though when we see a small boy walking off with Gail Hamilton's "Battle of the Books" (about her quarrel with her publishers), we hurry after him and save him from disappointment by giving him instead, "Twenty Decisive Battles of the War," or some book about a *real* fight.

How much it would help children to have access to *many* open shelves is proved by their constant use of the meager supply of books suitable for them which we can place on the two little ledges called the Boys' Corner and the Girls' Corner.

The prevalence of contagious diseases in Concord the past year leads us to acknowledge the good work done by our city health officer. At the outbreak of any infectious disease in a house, he takes into his keeping all the library books found there, and brings them back fumigated and guaranteed harmless. In extreme cases, he reports them burned. Concord's way is better than that taken in some towns, where the rule is that borrowers may return their books themselves after getting a permit from the board of health, but where the practice frequently is that they slip in their books without getting a permit.

In September a New England library meeting was held here, which was fortunate in attendance and speakers, though not in weather. Whatever inspiration this large conference may have given, the library workers in the city do not mean to lose, as they have formed a library club to discuss problems and methods.

The joining of an art club has given this library the privilege of exhibiting, from time to time, collections of pictures which will be attractive at first sight and interesting and instructive upon examination. This Library Art Club, started in Massachusetts, in 1897, has now at least thirty fine collections to send around to its members. The Concord public has been kind to give expression to its enjoyment of the exhibits already shown.

As the Baltimore librarian says, "People are coming to think that a public library is as legitimate a branch of public education as a public school, and of public recreation as a city park."

The hearty and conscientious coöperation of the assistants in the work of the library is gratefully acknowledged.

It is interesting to note that in the Portland Public Library, where the circulation is no larger than here, there are seven regular assistants where we have three, and the trustees report that to carry on their library properly they should have annually on hand at least \$12,000. Last year we had \$4,700.

Respectfully submitted,

GRACE BLANCHARD,

Librarian.

SANITARY DEPARTMENT.

REPORT OF THE BOARD OF HEALTH.

To His Honor the Mayor and the City Council :

The board of health have had a year of unusual activity, and offer the following as a summary of the work of the sanitary department during the past twelve months :

THE PLUMBING QUESTION.

The board have felt for some time that an important step toward better sanitary conditions would be made when plumbing was done under such regulations as would guard the public against inferior work and the labor of incompetent men. Reference has been made to this subject many times in the annual reports of the board, and its members have taken advantage of such opportunities as have been afforded them to work for state legislation to this end. By the state law of 1899, the cities were given the protection which had been asked for by health boards and others interested in sanitary matters. By the provisions of this law the business of plumbing is made subject to such restrictions as will prevent incompetent men from engaging in it, and will secure for both materials and workmanship careful inspection by a competent official. Similar provisions had already been made by local ordinances in several cities of the state, and the benefits of the system had been amply demonstrated before a

state law had made such a course compulsory on the part of all cities. The board regret that thus far Concord, which was one of the first cities in the state to employ a health officer and has always kept abreast with other cities in efforts to protect the public health, has not enjoyed the benefits which we are confident will attend an honest enforcement of the act of 1899, "authorizing the examination of plumbers, and regulating the practice of plumbing and house drainage."

ASSISTANCE IN QUARANTINE.

An act providing for assistance to persons while in quarantine became a law early in the year, and is:

"SECTION 1. Whenever any person or family is placed in quarantine by a board of health to protect the public against small-pox, scarlet fever, diphtheria, or other dangerous infectious or contagious disease, it shall be the duty of said board to assist such person or family while in quarantine, in such manner as in the judgment of the board may be deemed wise or necessary.

"SECTION 2. All expenses thus incurred, or such part thereof as the board may determine, shall be deemed a legitimate expenditure for the protection of the public health, shall be charged to the account of incidental expenses, but not to any indigent or pauper account; nor shall such expenditure be construed to mean public aid to the person or persons so quarantined and assisted unless such person or persons are already paupers as defined by the Public Statutes.

"SECTION 3. All acts and parts of acts inconsistent with this act are hereby repealed, and this act shall take effect upon its passage."

The above act received the signature of the governor March 11, and in the brief time this law has been in operation, its necessity has been made manifest through the good we were enabled to do in relieving the pressing wants of those who, under ordinary circumstances, were competent to

provide for themselves, but, when embarrassed by quarantined illness, found it impossible to keep even with the world without receiving aid from the city or county. When the main and, usually, the only wage-earner of the family was stricken down, or compelled to remain at home to assist the others, or, when feasible, permitted after proper precautions to leave home and board outside, the income of that family was altogether cut off or appreciably decreased while the expenses were at the same time largely increased. It is in this class of cases the wisdom of the law stands out in all its brightness and guarantees kindly assistance to those who are isolated, in order that the greatest good to the greatest number may be attained.

SCARLET FEVER.

It is well-nigh impossible to estimate in dollars and cents the cost of the epidemic of scarlet fever from which we suffered during the year, but we can have some adequate idea of it when we recall that from August 3 to December 31 there were reported to this office ninety-nine cases; seventy-five of these represented as many different families. The loss in wages and the increased cost of maintenance would foot up to a very high figure, while the anguish of mind, pain of body, the isolation depriving them of converse with others, and, in the case of children, the prolonged absence from school can not have their sad features figured out on any financial basis. Neither can the loss of a life be computed by any such system, though attempts are made to do so, and we may well feel thankful that out of so many cases only one death occurred. One thing we deeply regret,—the absence of a hospital for these cases. Had we in our city an institution for the proper care of contagious diseases, we fully believe many of these cases would never have happened. Notwithstanding the strenuous efforts put forth by frequent visitations of the health officer, re-enforced for some time by a police officer patrolling the infected district, it was not possible at home to keep them isolated or effectually quarantined.

In many instances the disease was so light in its course and the symptoms so poorly defined that undoubtedly there were not a few unrecognized until other cases in the family or playmates made a diagnosis certain. This fact aided greatly in its spread and for a while all of our best efforts seemed in vain. Everything deemed necessary to stay its progress was resorted to, and recognizing the dangers to the children attending the Walker and Franklin schools, we adopted at our regular meeting, September 2, and immediately forwarded to the board of education the following resolution :

“ It is the sense of the board of health, that on account of the prevalence of scarlet fever in the vicinity of the Walker and Franklin schools, those buildings should not be opened until the spread of the disease is passed.”

So the opening of the school year for those two schools was postponed for four weeks. The epidemic was confined to the territory north of Washington street until October 14, when a case was reported from the previously uninfected part of the city, and then followed cases from all directions. Much unnecessary alarm was caused by exaggerated reports and demands made on us to close all of the schools, but the exigency did not seem to us to exist. The situation was closely canvassed, and, at a special meeting, Sunday, November 5, it was voted to close one room at the Chandler school, and ask a conference with the board of education at their regular meeting the next evening. As a result of the conference the board of education adopted the following resolution :

“ That the board of education express to the board of health its hearty approval of the suggestion for daily inspection of the schools in the central part of the districts, and grant permission to the board of health and its agents to institute such inspection as it deems wise.”

Immediately following the conference, we assigned the following physicians to make the inspections :

Tahanto school	.	.	Dr. Ralph E. Gallinger.
Walker	“	.	Dr. A. P. Chesley.
Franklin	“	.	Dr. Russell Wilkins.
Merrimack	“	.	Dr. F. W. Grafton.
Kimball	“	.	Dr. N. W. McMurphy.
Bow Brook	“	.	Dr. Geo. H. Parker.
Chandler and Parochial schools			Dr. D. E. Sullivan.
Rumford school	.	.	Dr. A. K. Day.
Penacook	“	.	Dr. E. A. Clark.
Cogswell	“	.	Dr. S. G. Morrill.

Subsequently, Dr. Chancey Adams assisted in the work; and to these physicians who so faithfully aided us in limiting the progress of this and other contagious diseases, are we deeply indebted.

On Tuesday, November 7, the inspections were commenced; the visits were made early in the morning session; the teachers rendered hearty co-operation; the pupils were examined separately; the routine of the school work was not appreciably disturbed, and we know much good was accomplished. We believe it was the first time in the history of the schools of the state that a daily systematic inspection of the scholars was made, and from the results we are assured the innovation was most beneficial, and, regardless of outbreaks of disease, might, with much profit, be regularly repeated.

On December 11, the thorough fumigation of all the schools was commenced, the health officer being assisted by the janitors of the different schools; and from basement to attic was the cleansing process carried out. All floors, windows, furniture, and surfaces that could be scrubbed were submitted to plentiful applications of soap and water with sufficient formalin added to destroy all germs. Formalin, sprinkled on suspended sheets, was the agent used in fumigation.

The success which attended all these efforts was due in a large measure to the hearty co-operation extended and valuable assistance rendered by the board of education, and by Mr. L. J. Rundlett, superintendent of the schools of Union School District.