

HIGHWAY DEPARTMENT.

85

A. Nickerson, trucking,	\$1.00
Humphrey & Dodge, hardware,	280.62
Concord Water-Works, water,	219.33
Huntley & McDonald, repairs,	235 95
P. A. Richardson, sand,	7.00
Frank G. Batchelder, stationery, etc.,	11.75
Thomas Tandy, labor,	14.49
Abbot-Downing Co., street-sweeper,	360.00
Alfred Clark, hay,	59 60
John Hadlock, edges for machine,	16.75
Welch & Hall, horses,	375.00
Concord & Montreal R. R., freight,	8.00
Expense of committee to Boston,	22.46
S. F. Patterson, examining Loudon bridge,	5 00
Frank J. Batchelder, rent,16.67
Ross W. Cate, blacksmithing,	155.20
Kimball, Danforth & Forrest, labor and lumber,	17 48
C. H. Martin & Co., paint, oil, etc.,	11.27
George Abbott, Jr., painting hames,	3.00
Frank Coffin, cement and grain,	69.91
George G. Jenness, lumber,	42.00
J. D. Johnson & Sou, harness and repairs,	204.33
Democratic Press Co., printing,	4.25
Simeon Partridge, stone drag,	7.00
Greenough & Hazeltine, rubber boots,	5 00
E. B. Hutchinson, labor and lumber,	172.93
A. L. Proctor, trucking,	1.50
H. C. Sturtevant & Son, grain,	86.87
Crawford & Stockbridge, stationery,	15.58
George Prescott, painting,	12 02
L. W. Bean, mason work,	30.12
George L. Theobald, horse,	125.00
Concord Foundry Co., traps and catch-basins,	365.40
Amos Turner, teamster,	200.00
Henry A. Jones, plank,	38.53
A. P. Thompson, cart wheels,	20.00
Thompson & Hoague, hardware,	5.54
George L. Theobald, grade on Bridge street,	189.36
Joseph Stickney, rent,	12.00
J. S. Dutton, rent,	22.50
Holt Brothers, lumber,	16.67
Crosby Knox, sand,	17.00
Charles Yeadon, trucking,50

J. S. Noyes, gravel,	\$15.20	
James E. McShane, shoeing,	23.00	
Stevens & Duncklee, dippers, etc.,	11.42	
Batchelder & Co., salt,	5.58	
E. T. Jenness, watering-trough,	3.00	
Franklin R. Thurston, gravel,	162.20	
Samuel Holt, brick,	47.51	
M. H. Bradley, gravel,	2.20	
Mrs. J. A. Low, "	3.60	
Danforth, Forrest & Morgan, labor and lumber,	7.71	
Scribner & Britton, hardware,	2.90	
Concord Light and Power Co., gas,	1.26	
L. Eastman, window,	1.80	
Joseph Vennier, teamster,	120.00	
Alfred Clark, cash paid out,	3.78	
	<u> </u>	\$10,022.86

Bridges and Culverts.

Labor pay-rolls,	\$50.75	
E. A. T. Hammond, lighting lower bridge,	48.00	
Concord Gas Light Co., lighting Loudon bridge,	19.00	
Concord Land and Water Power Co.,	22.32	
Town of Pembroke, one half of the expense of painting Soucook bridge at Clough's mills,	17.50	
Nelson & Durrell, oil,	1.20	
Downs & Whipple, lumber,	31.50	
	<u> </u>	\$190.27

Fences and Signs.

Labor pay-rolls,	\$124.06	
C. H. Martin & Co., paint, oil, etc.,	23.04	
E. B. Hutchinson, building fence at iron bridge by the gas house,	151.97	
	<u> </u>	\$299.07

Sidewalks and Crossings.

Labor pay-rolls,	\$1,799.73	
Albert Grant, curbstone,	253.40	
Thomas Tandy, curbstone and labor,	278.23	
J. R. McDonald, "	11.10	
John Swenson, "	70.00	
M. H. Johnson, "	200.96	
James H. Rowell, repairing concrete,	1,478.32	
" new concrete,	1,623.47	
	<u> </u>	\$5,715.21

Macadamizing.

Labor pay-rolls,	\$306.75	
Hartford Steam Boiler Co., insurance on boiler,	15.00	
M. H. Bradley, rent,	60.00	
Farrel Foundry and Machine Co., casting,	55.00	
Concord & Montreal Railroad, freight,	3.78	
H. O. Marsh, coal,	14.50	
	<u> </u>	\$455.03

Paving.

Labor pay-rolls,	\$293.24	
John Swenson, paving-stone,	51.30	
Labor, paving gutters,	161.50	
James H. Rowell, concreting Capitol street,	1,640.28	
	<u> </u>	\$2,146.32

Sprinkling Streets.

Labor pay-rolls,	\$1,443.13	
C. H. Martin & Co., paint, etc.,	10.60	
Abbot-Downing Co., five sprinklers,	1,525.00	
Samuel Eastman & Co., hose and couplings,	135.00	
Chapman Valve M'f'g Co., valves for stand-pipes,	67.66	
Goodhue & Milton, setting stand-pipes, etc.,	539.72	
Andrew Fagan, teamster,	22 57	
Concord Water-Works, water,	700.00	
Amos Turner, teamster,	250.00	
Joseph Vennier, "	160.00	
Fred H. Savory & Co., grain,	146.32	
	<u> </u>	\$5,000.00

Sanding Walks.

Labor pay-rolls,	\$700.71	
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Repairing Catch-Basins.

Labor pay-rolls,	\$285.98	
L. W. Bean, mason work,	166.00	
	<u> </u>	\$451.98

Cleaning Streets.

Labor pay-rolls,	\$3,749.23	
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Winter Expense.

Labor pay-rolls,	\$2,182.57	
Amos Turner, teamster,	150.00	
	<u> </u>	\$2,332.57

Furnace.

Rowell & Plummer, building furnace, . . .	\$63.65	
Stevens & Dunklee, smoke-stack, . . .	42.14	
D. L. Mandigo, iron roofing, . . .	50.40	
E. B. Hutchinson, building house, . . .	83.42	
Samuel Holt, brick, . . .	45.00	
Concord Foundry Co., casting, . . .	78.88	
Downs & Whipple, chestnut posts, . . .	5.00	
Rowell & Plummer, repairing, . . .	21.78	
		\$390.27

WEST CONCORD DISTRICT.

GEORGE PARTRIDGE in charge.

George Partridge, pay-rolls (winter expense), . .	\$301.63	
“ “	583.34	
Concord Foundry Co., traps and catch-basin, . .	48.94	
Simeon Partridge, blacksmithing, . . .	5.75	
		\$939.66

EAST CONCORD VILLAGE DISTRICT.

A. S. FARNUM in charge.

A. S. Farnum, pay-rolls (winter expense), . .	\$108.10	
A. S. Farnum, “	753.70	
N. P. Stevens, repairing watering-trough, . .	1.20	
H. H. Farnum, stone,	7.00	
Fred Carter, lighting street lamp, . . .	3.00	
C. R. Robinson, watering-trough, . . .	20.00	
J. T. Batchelder, lumber and labor, . . .	16.55	
Fred S. Farnum, labor,	2.00	
Mrs. A. B. Young, oil,	1.30	
Downs & Whipple, bridge plank, . . .	26.62	
		\$939.47

PENACOOK AND BOROUGH DISTRICT.

E. H. DAVIS in charge.

E. H. Davis, pay-rolls (winter expense), . . .	\$647.99	
“ “	2,753.37	
N. S. Gale & Co., hardware,	49.64	

HIGHWAY DEPARTMENT.

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Charles S. Wiggin, labor,	\$1.65	
W. B. Cunningham, trucking,	7.90	
Penacook Electric Light Co., lighting bridge,	93.75	
Andrew Linehan, lighting bridge,	25.00	
Stratton, Merrill & Co., sand,	2.50	
A. Linehan, shovels,60	
O. J. Fifield, sand,	13 90	
J. W. Colby, labor,	3.44	
Foote, Brown & Co., cement, etc.,	4.13	
Isaac Baty, pipe, etc.,	8.83	
C. G. Davis, painting signs,	20.00	
George Neller, mason work,	8.86	
W. H. Bell, powder, etc.,	2.12	
W. P. Chandler, gravel,	16.80	
Frank P. Colby, watering-trough 1892-1893,	6.00	
Shepard & Emmons, plank,	90.00	
Concord Foundry Co., traps and catch-basins,	84 63	
A. Hollis, stone,	3.50	
E. McShane, blacksmithing,	2.10	
E. Ordway, sand,	4.50	
James H. Rowell, concrete,	503.58	
S. G. Sanborn, blacksmithing,	17.95	
C. M. & A. W. Rolfe, watering-trough,	3.00	
A. H. Urann, paint, etc.,	3.00	
C. M. & A. W. Rolfe, lumber,	6.87	
		----- \$4,385.61

NUMBER FOUR DISTRICT.

F. E. DIMOND in charge.

F. E. Dimond, pay-rolls (winter expense),	\$184.70	
“ “	197.00	
		----- \$381.70

LONG POND NORTH DISTRICT.

A. W. HOBBS in charge.

A. W. Hobbs, pay-rolls (winter expense),	\$89.02	
“ “	82 25	
		----- \$171.27

CITY OF CONCORD.

VIRGIN DISTRICT.

F. P. VIRGIN in charge.

F. P. Virgin, pay-rolls (winter expense), . . .	\$83.52	
“ “	69.25	
	<u> </u>	\$152.77

NORTH CONCORD DISTRICT.

JOHN C. KILBURN in charge.

John C. Kilburn, pay-rolls (winter expense), . . .	\$176.65	
“ “	337.25	
Foote, Brown & Co., nails, etc.,	2.50	
John G. Tallant, chestnut lumber,	73 12	
Frank P. Tallant, posts and rails,	5.00	
	<u> </u>	\$594.52

HOT HOLE POND DISTRICT.

L. L. LOCKE in charge.

L. L. Locke, pay-rolls (winter expense), . . .	\$28.45	
“ “	38.55	
	<u> </u>	\$67.00

MAST YARD DISTRICT.

A. P. BENNETT in charge.

A. P. Bennett, pay-rolls (winter expense), . . .	\$24.70	
“ “	22.25	
	<u> </u>	\$46.95

EGYPT DISTRICT.

GEORGE G. JENNESS in charge.

George G. Jenness, pay-rolls (winter expense), . . .	\$97.91	
“ “	56.63	
“ plank for bridge,	43.00	
S. C. Jenness, watering-trough,	3.00	
	<u> </u>	\$200.54

HORSE HILL DISTRICT.

R. W. HOIT in charge.

R. W. Hoit, pay-rolls (winter expense), . . .	\$40.10	
“ “	70.30	
C. M. & A. W. Rolfe, bridge plank,	16.68	
	<u> </u>	\$127.08

POTTER STREET DISTRICT.

JOHN T. TENNEY in charge.

John T. Tenney, pay-rolls (winter expense), . .	\$111.20	
“ “	134.14	
John T. Batchelder, gravel,	4.24	
	<u> </u>	\$249.58

MOUNTAIN DISTRICT.

HUGH TALLANT in charge.

Hugh Tallant, pay-rolls (winter expense), . .	\$45.28	
“ “	61.29	
	<u> </u>	\$106.57

EAST CONCORD RIVER DISTRICT.

JOSIAH S. LOCKE in charge.

Josiah S. Locke, pay-rolls,	\$53.49	
Charles Graham, watering-trough,	3.00	
	<u> </u>	\$56.49

SANBORN DISTRICT.

N. S. SANBORN in charge.

N. S. Sanborn, pay-rolls (winter expense),	\$22.25	
	<u> </u>	\$22.25

PENACOOK INTERVALE DISTRICT.

JOHN T. GILMAN in charge.

John T. Gilman, pay-rolls (winter expense),	.	\$22.25	
“	“	21.50	
Ai J. Smith, watering-trough,	.	3.00	
			<u>\$46.75</u>

MILLVILLE DISTRICT.

W. W. CRITCHETT in charge.

W. W. Critchett, pay-rolls (winter expense),		\$198.62	
George O. Moulton, “	“	158.24	
John Jordan, “	“	68.50	
Charles N. Morgan, “	“	25.97	
Samuel Scales, “	“	33.05	
George B. Little, “	“	57.27	
Frank H. Currier, “	“	26.00	
St. Paul's School, “	“	9.76	
George O. Moulton, “	.	202.60	
W. W. Critchett, “	.	1,473.30	
H. A. Jones, lumber and plank,	.	49.62	
St. Paul's School, gravel,	.	18.11	
John Swenson, stone and labor,	.	81.45	
George L. Theobald, building wall at St. Paul's			
School,	.	697.95	
David A. Welch, labor,	.	77.00	
P. King, labor,	.	2.20	
Nathaniel White, Jr., gravel,	.	18.40	
J. E. Saltmarsh, bridge timber,	.	40.00	
John W. Paige, gravel,	.	19.10	
George W. Chesley, gravel,	.	63.70	
Stephen Hammond, bridge timber,	.	5.25	
Amos Blanchard, oil,	.	1.02	
Ford & Kimball, iron posts,	.	31.59	
A. C. Batchelder, labor,	.	3.00	
			<u>\$3,361.70</u>
Total expenditures,	.		\$43,303.43

POLICE AND WATCH.

Appropriation,	\$10,000.00
Received of G. S. Locke, fines, costs, and fees,	4,988.46
D. S. Flanders, fees,	16.69
G. M. Fletcher, court fees,	87.40
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	\$15,092.55
Balance carried to transfer account,	2,661.30
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	\$12,431.25

Paid as follows :

Pay-rolls, regular officers,	\$8,845.02
" special " 	647.50
B. E. Badger, salary police justice,	800.00
A. J. Shurtleff, pay associate police justice,	4.00
Geo. M. Fletcher, salary clerk of police court,	200.00
James L. Freeman, janitor,	198.25
Benj. Bilborough, painting,	10.29
H. A. Mullen, janitor,	9.00
United Gas Improvement Co.,	63.00
Concord Light & Power Co.,	62.64
Concord Land & Water Power Co.,	65.20
Norris A. Dunklee, livery,	311.75
Geo. Goodhue, plumbing,	38.05
Goodhue & Milton, plumbing,	9.51
Penacook Electric Light Co.,	50.01
Northern Electrical Supply Co., supplies,	154.36
John A. Coburn, rent,	34.50
Davis Bros., coal,	8.80
E. L. Davis, "	17.40
Hiram O. Marsh, coal,	319.65
Concord Water-Works,	28.00
Ira C. Evans, printing,	2.75
Humphrey & Dodge, hand-cuffs, etc.,	18.37
D. Evans & Co., police supplies,	15.00
F. B. Holt, supplies,	5.29
C. R. Morrison, digest,	10.00
Sleeper & Hood, pressing,	1.50
"Knox, the Hatter," police supplies,	74.50
L. W. Bean, mason work,	5.00
Geo. Abbott, Jr., painting,	154.35
J. H. Rowell & Co., concrete,	112.98
N. S. Gale & Co., locks,	1.00
C. G. Davis & Co., furniture,	7.00

Isaac Baty, office supplies,	\$30.72	
Geo. E. Dolan, electric supplies,	15.00	
Abbot-Downing Co., repairs,	1.25	
E. H. Randall, "	10.94	
Batchelder & Co., supplies,	19.11	
Stevens & Duncklee, "	4.75	
J. C. Farrand, "	1.10	
Concord Ice Co., ice,	6.34	
John Chadwick, livery,	42.50	
Will C. Sheffield, rent,	10.84	
W. W. Allen, supplies,	2.25	
Lowell Eastman, glass,	1.78	
		<u>\$12,431.25</u>

PRINTING AND STATIONERY.

Appropriation,	\$2,250.00	
Deficiency brought from transfer account,	446.49	
		<u>\$2,696.49</u>

Paid as follows :

Republican Press Asso.,	\$2,125.16	
N. H. Democratic Press Co.,	129.12	
Frank J. Batchelder,	33.75	
Crawford & Stockbridge,	34.43	
Silsby & Son,	226.53	
Ira C. Evans,	147.50	
		<u>\$2,696.49</u>

LEGAL EXPENSES.

Appropriation,	\$800.00	
Balance carried to transfer account,	495.06	
		<u>\$304.94</u>

Paid as follows :

Albin & Martin, suit C. R. Burnham,	\$300.00	
Eugene H. Davis, sheriff fees,	4.94	
		<u>\$304.94</u>

PRECINCT.

Appropriation for interest on state-house loan,	\$1,320.00	
“ “ “ on sewer bonds,	480.00	
“ “ lighting streets,	9,000.00	
“ “ hydrant service,	6,000.00	
“ “ sewers,	7,000.00	
Special appropriation for North end sewer,	9,000.00	
“ “ “ South “ “	8,632.10	
“ “ “ deficiency of 1892,	7,367.90	
Received of Samuel Holt, over-paid,	13.50	
W. B. Howe, rent of pump,	76.22	
	<hr/>	\$48,889.72

Paid as follows :

Interest.

Interest on state-house loan,	\$1,320.00	
“ sewer bonds,	480.00	
	<hr/>	\$1,800.00
Deficiency, 1892,		\$7,367.90

Lighting Streets.

United Gas Improvement Co., gas,	\$873.85	
Concord Light & Power Co., gas,	1,552.33	
Concord Land & Water Power Co., electric lights,	5,618.22	
Lowell Eastman, glass,	14.53	
	<hr/>	\$8,058.93

Hydrants.

Concord Water-Works,	\$6,000.00
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Sewers.

W. B. Howe, labor pay-rolls,	\$4,417.71
W. B. Howe, cash paid,	26.72
Foss & Merrill, surveying,	7.50
Thompson & Hoague, pipe,	1,134.80
Crawford & Stockbridge,	2.00
James F. Kelley, repairs,	5.10
E. A. Cushing, trucking,	95.60
L. W. Bean, mason work,	7.20
B. French, lumber and labor,	6.80
The George Woodman Co., sewer valves,	17.10
Dickerman & Co., cement,	61.32
A. L. Proctor, trucking,	4.85

Fred H. Proctor, trucking,	\$5.35
Humphrey & Dodge, hardware,	73.52
Samuel Holt, brick,	126.29
Republican Press Association, printing,	23.60
A. W. Mitchell M'fg Co., brass tags,	7.00
Geo. A. Dow, sharpening tools,	28.69
Concord & Montreal R. R., freight,	17.07
The Deane Steam Pump Co., pump,	181.45
Lidgerwood M'fg Co., engine and boiler,	850.00
Concord Foundry Co., castings,	122.00
J. H. Rowell & Co., concrete,	9.00
Geo. L. Theobald, teaming,	196.93
John J. Lee, land damage,	1.00
John F. Moseley, land damage,	1.00
J. G. Chase, coin bags,	1.20
Richard Carne, labor,50
A. P. Thompson, use of team,	4.00
A. C. Berry, trucking,	1.00
Goodhue & Milton, plumbing,	7.67
Perkins & Berry, oil,	7.81
Woodworth & Co., cement,	23.50
Scribner & Britton, supplies,	1.40
Ford & Kimball, castings,	13.08
Globe Horseshoeing Co., sharpening,	1.25
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	\$7,491.01

North End Sewer.

W. B. Howe, pay-rolls,	\$5,668.65
Thompson & Hoague, pipe,	1,641.75
Joseph Stickney, land damage,	150.00
F. H. Proctor, trucking,40
Dickerman & Co., cement,	409.64
Samuel Holt, brick,	944.75
Humphrey & Dodge, hardware,	53.00
E. B. Hutchinson, lumber,	162.00
Holt Bros. M'fg Co., mauls,	7.50
Greenough & Hazeltine,	24.75
A. L. Proctor, trucking,	3.50
Perrin, Seamans & Co., cement pails,	18.00
Stevens & Duncklee, supplies,75
Highway Dept., removing sand,	64.00
Geo. L. Theobald, teams and carting,	13.60
Ford & Kimball, castings,	145.17

Edward M. Nason, clerk of common council,	\$50.00
Board of Education, Union School District,	225.00
" District No. 12,	18.00
" " 20,	27.00
Town District School Board,	300.00
Franklin A. Abbott, assessor, Ward 1,	165.00
Chas. H. Sanborn, " " 2,	147.00
Albert W. Hobbs, " " 3,	135.00
Gilbert H. Seavey, " " 4,	213.00
Curtis White, " " 5,	222.00
Geo. S. Dennett, " " 6,	204.00
Jona. B. Weeks, " " 7,	297.00
Geo. F. Searle, " " 8,	6.00
William P. Ballard, " " 9,	19.50
Pay-roll, ward officers,	324.00
Henry E. Chamberlin, overseer of poor, Ward 1,	25.00
Frank P. Curtis, " " 2,	10.00
Napoleon B. Burleigh, superintendent of clocks,	85.00
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	\$10,438.72

BOARD OF HEALTH.

Appropriation,	\$1,000.00
Received of Chas. E. Palmer,	6.00
Deficiency brought from transfer account,	77.81
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	\$1,083.81

Paid as follows :

Charles E. Palmer, salary as sanitary officer,	\$700.00
" cash paid, sundries,	121.96
United Gas Imp. Co., gas,	3.60
Concord Light & Power Co., gas,	4.50
Frank J. Batchelder, printing,	36.57
Wright & Runnells, livery,	11.00
Kimball, Danforth & Forrest, repairs,	13.45
Geo. L. Theobald, burying animals,	23.00
D. W. Sullivan & Co., sulphur,	7.50
George Prescott, lettering,	2.44
Wilcox & Philbrick, furniture, pest-house,	7.60
Geo. A. Foster, rent of office,	30.00
J. S. Dutton, "	22.50
E. N. Pearson, member board of health,	25.00
E. A. Clark, M. D., " "	25.00

COMMITTEE SERVICE.

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Chas. R. Walker, M. D., member board of health, 1891, 1892,	\$45.83	
S. A. Dow, bedding destroyed,	5.00	
	<u>\$1,084.95</u>	
Order outstanding,	1.14	\$1,083.81

COMMITTEE SERVICE.

Appropriation,		\$1,410.00
Paid as follows :		
Alfred E. Emery, alderman,	\$60.00	
Henry E. Chamberlin, "	60.00	
Frank P. Curtis, "	60.00	
Adam P. Holden, "	60.00	
Edward P. Comins, "	60.00	
William H. Perry, "	60.00	
Austin S. Ranney, "	60.00	
Timothy P. Sullivan, "	60.00	
Henry W. Stevens, "	75.00	
Charles R. Walker, "	60.00	
Charles C. Nutter, "	75.00	
James H. Sanders, "	60.00	
John H. Spellman, "	60.00	
William A. Cobb, "	60.00	
John H. Mercer, "	60.00	
Eddie C. Durgin, councilman,	30.00	
Robert W. Hoit, "	30.00	
Samuel L. Bachelder, "	30.00	
Louis A. Engel, "	30.00	
John A. Blackwood, "	45.00	
Frank S. Moulton, "	30.00	
Lewis B. Putney, "	30.00	
Henry W. Hayden, "	30.00	
Henry O. Adams, "	30.00	
Howard A. Dodge, "	30.00	
Arthur E. Dole, "	45.00	
George S. Forrest, "	30.00	
William A. Lee, "	30.00	
William W. Critchett, "	30.00	
Frank L. Sawyer, "	30.00	
	<u>\$1,410.00</u>	

SCHOOLS.

Unexpended balance of 1892,	\$17,395.85
Appropriation, 1893,	22,225.00
Walker Fund, interest,	60.00
Additional appropriation in Union District,	15,274.00
Text-books and supplies,	3,500.00
Industrial education,	2,000.00
Heating and ventilating, Union District,	2,500.00
Instruction in cooking,	500.00
Sub-primary,	850.00
Military drill,	500.00
Town District, additional,	600.00
District No. 20, "	500.00
" 12, "	200.00
Literary fund,	4,108.63
Dog licenses,	1,773.89
	<u>\$71,987.37</u>
Balance due school districts,	18,242.27
	<u>\$53,745.10</u>
Paid as follows :	
L. J. Rundlett, financial agent, Union School District,	\$46,252.70
John Chadwick, District No. 20,	3,716.30
Wm. A. Cowley, " 12,	730.00
Isaac N. Abbott, Town District,	3,046.10
	<u>\$53,745.10</u>

SCHOOL-HOUSE TAXES.

Appropriation, District No. 20,	\$200.00
Paid John Chadwick, District No. 20,	\$200.00

SOLDIERS' AND SAILORS' MEMORIAL ARCH.

Amount brought from transfer account, 1892,	\$3,793.11
Balance carried to transfer account, 1893,	207.48
	<u>\$3,585.63</u>

PENACOOK PARK.

101

Paid as follows :

Anderson, Swenson & Co., on contract,	\$3,893.93	
Peabody & Stearns,	186.69	
Giles Wheeler, sundries,	5.01	
	<u> </u>	\$3,585.63

WHITE PARK.

Appropriation,	\$3,000 00	
Amount brought from transfer account, 1891,	700 00	
	<u> </u>	\$3,700.00

Paid as follows :

William P. Fiske, treasurer,	\$3,000.00	
Benjamin C. White, trustee,	700 00	
	<u> </u>	\$3,700.00

ROLLINS PARK.

Appropriation,	\$1,000.00	
Amount brought from transfer account, 1891,	300 00	
	<u> </u>	\$1,300.00

Paid Matthew H. Johnson, land,	\$1,300.00	
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PENACOOK PARK.

Appropriation,	\$350.00	
“ (special),	215 00	
	<u> </u>	\$565.00
Balance carried to transfer account,	19.03	
	<u> </u>	\$545 97

Paid as follows :

Pay-rolls,	\$312.54	
O. F. Richardson, superintendent,	50.00	
Charles A. Hall, shingles,	31.87	
Stevens & Duncklee, gutter-irons,	37.12	
Fairfield & Co., lumber,	78.99	
A. W. Holden, labor and supplies,	3.22	
C. H. Martin & Co., paints and oils,	22.15	
Thompson & Hoague, hardware,	10 08	
	<u> </u>	\$545.97

PUBLIC LIBRARY.

Appropriation,	\$6,000.00	
" storage room,	500 00	
	<u> </u>	\$6,500.00
Paid William P. Fiske, treasurer,		\$6,500.00

LOUDON BRIDGE.

Appropriation,	\$20,000.00	
Amount carried to transfer account,	19,485.57	
	<u> </u>	\$514.43
Paid as follows :		
Pay-rolls,	\$277.40	
E. G. Soltmann, paper,	17.00	
A. S. Ranney, committee's expenses,	12.30	
George L. Theobald, teaming,	30.00	
Humphrey & Dodge, hardware,	1.85	
Dickerman & Co., cement,	62.51	
J. R. McDonald, stone,	76.50	
Nutting & Hayden, sharpening tools,	28.30	
W. B. Howe, expenses,	8.57	
	<u> </u>	\$514.43

MEMORIAL DAY.

Appropriation,		\$300.00
Paid as follows :		
Dr. A. E. Emery, for W. I. Brown Post,	\$75.00	
J. M. Crossman, for Davis Post,	30.00	
Philip C. Bean, for E. E. Sturtevant Post,	195 00	
	<u> </u>	\$300.00

MARGARET PILLSBURY GENERAL HOSPITAL.

Appropriation,	\$2,000.00	
Paid William F. Thayer, treasurer,		\$2,000.00

BLOSSOM HILL CEMETERY.

Appropriation,	\$3,000.00	
" for building,	500.00	
	<u>3,500.00</u>	
Balance carried to transfer account,	500.00	
	<u> </u>	\$3,000.00
<hr/>		
Paid Charles G. Remick, treasurer,		\$3,000.00

OLD NORTH CEMETERY.

Appropriation,	\$350.00
Paid Charles G. Remick, treasurer,	\$350.00

CALVARY CEMETERY.

Appropriation,	\$800.00
Paid Charles G. Remick, treasurer,	\$800.00

WEST CONCORD CEMETERY.

Appropriation,	\$100.00
Paid George R. Parmenter, agent,	\$100.00

PUBLIC PARK, CENTRE STREET.

Amount brought from transfer account, 1892,	\$11,022.38
Amount carried to transfer account, 1893,	45.02
	<u> </u>
	\$10,977.36
<hr/>	
Paid Gustavus Walker, land,	\$10,977.36

OPEN-AIR CONCERTS.

Appropriation,	\$300.00
Paid A. F. Nevers, for Third Regiment Band,	\$300.00

STOREHOUSE, SCHOOL STREET.

Appropriation,	\$500.00
Balance carried to transfer account,	20.97
	<u> </u>
	\$479.03
Paid as follows :	
E. B. Hutchinson, contract,	\$306.00
" lumber,	71.77
Alfred Clark, highway department,	84.85
C. H. Martin & Co., paints and oil,	9.00
Humphrey & Dodge, hardware,	7.41
	<u> </u>
	\$479.03

PENACOOK SEWERAGE PRECINCT.

Unexpended balance, 1892,	\$77.05
Appropriation for sinking fund,	500.00
" interest on bonds,	960.00
" repairs of sewers,	200.00
" sewer extension,	700.00
Received of A. E. Emery, pipe sold,	2.04
	<u> </u>
	\$2,439.09
Paid as follows :	
Pay-roll, flushing sewers,	\$62.37
Henry Morrill,	423.60
Thompson & Hoague, pipe,	145.32
E. L. Davis, trucking,	7.73
W. B. Cunningham, trucking,	1.00
N. S. Gale & Co., cement,	10.00
A. B. Emery,	38.00
Concord Foundry Co., manholes,	16.95
John E. Rines, brick,	9.00
S. G. Sanborn, repairs,	8.25

LIGHTING STREETS, PENACOOK.

105

Sinking fund,	\$500.00	
Interest on precinct bonds,	960.00	
		<u>\$2,182.22</u>
Unexpended balance,		\$256.87

WEST CONCORD SEWERAGE PRE-CINCT.

Unexpended balance, 1892,	\$7,956.34	
Appropriation for sinking fund,	500.00	
" interest on bonds,	500.00	
Received of W. B. Howe,	49.53	
		<u>\$9,005.87</u>

Paid as follows:

Pay-rolls,	\$5,156.24	
Thompson & Hoague, pipe and supplies,	45.49	
Humphrey & Dodge, supplies,	31.89	
Dickerman & Co., cement,	65.17	
E. B. Hutchinson, lumber,	176.54	
Simeon Partridge, sharpening tools,	154.73	
Foss & Merrill, surveying,	15.00	
B. T. Putney, fuses, etc.,	44.76	
Samuel Holt, brick,	54.00	
Eastman & Co., oil,	7.92	
George Partridge, labor, etc.,	9.35	
Boston & Maine Railroad, labor on track,	68.83	
Concord Foundry Co., castings,	54.61	
Sinking fund,	500.00	
Interest on bonds,	500.00	
		<u>\$6,884.53</u>
Unexpended balance,		\$2,121.34

LIGHTING STREETS, PENACOOK.

Unexpended balance, 1892,	\$350.00	
Appropriation,	1,000.00	
		<u>\$1,350.00</u>
Paid Andrew Linehan, treasurer,		\$1,350.00

RECAPITULATION.

State tax,	\$31,650.00
County tax,	31,912.68
Interest,	6,350.78
City poor,	921.83
Aid to dependent soldiers and families,	682.88
Fire department,	18,073.27
Incidentals and land damages,	6,892.09
Highway department,	43,303.43
Police and watch,	12,431.25
Printing and stationery,	2,696.49
Legal expenses,	304.94
Precinct,	44,246.06
Salaries,	10,438.72
Board of health,	1,083.81
Committee service,	1,410.00
Schools,	53,745.10
School-house taxes,	200.00
Soldiers' and sailors' memorial arch,	3,585.63
White park,	3,700.00
Rollins park,	1,300.00
Penacook park,	545.97
Public library,	6,500.00
Loudon bridge,	514.43
Memorial Day,	300.00
Margaret Pillsbury general hospital,	2,000.00
Blossom Hill cemetery,	3,000.00
Old North cemetery,	350.00
Calvary cemetery,	800.00
West Concord cemetery,	100.00
Public park, Centre street,	10,977.36
Open-air concerts,	300.00
Store-house, School street,	479.03
Penacook sewerage precinct,	2,182.22
West Concord sewerage precinct,	6,884.53
Lighting streets, Penacook,	1,350.00
	<hr/>
	\$311,212.50

ACCOUNTS KEPT BY THE CLERK FOR CONVENIENCE OF REFERENCE,
BUT NOT INVOLVING EXPENSE TO THE CITY.

TRANSFER ACCOUNT.

Made up from unexpended balances of appropriations, and drawn upon, as allowed by city ordinance, to meet deficiencies by transfer to other appropriations.

Dr.

Balance brought from transfer account of 1892,	\$33,119.63
To amount brought from city poor account,	435.17
" " dependent soldier's ac-	
" " count,	117.12
" " police and watch, . .	2,661.30
" " legal expenses, . . .	495.06
" " soldiers' and sailors'	
" " memorial arch, . . .	207.48
" " Penacook park, . . .	19.03
" " Loudon bridge, . . .	19,485.57
" " Blossom Hill cemetery,	500.00
" " public park, Centre St.,	45.02
" " store-house, School St.,	20.97
	<hr/>
	\$57,106.35

Cr.

By amount carried to fire department, . . .	\$3,964.92
" " incidentals, etc., . . .	695.14
" " highway department, . . .	760.49
" " printing and stationery, . . .	446.49
" " salaries,	438.72
" " board of health,	77.81
" " soldiers' and sailors' mem-	
" " orial arch,	3,793.11
" " White park, addition, . . .	700.00
" " Rollins park,	300.00
" " public park, Centre street,	11,022.38
" " West Concord sewerage pre-	
" " cinct,	7,956.34
" " lighting streets, Penacook,	350.00
	<hr/>
	\$30,505.40
Balance to transfer account, 1894,	\$26,600.95

DOG LICENSES.

Amount of dog licenses,		\$1,516.15
Paid as follows:		
John H. Sullivan, sheep killed,	\$23.00	
James Dodge, "	50.00	
P. B. Cogswell, expenses, appraisal, etc.,	21.00	
N. A. Dunklee, livery,	7.25	
Balance carried to school fund,	1,414.90	
	<u> </u>	\$1,516.15

STONE QUARRIES.

Received of Crowley & Quinn,	\$100.00	
Frank R. Clark, stone shed, 1891-'92,	50.00	
C. A. Giles, 1892-'93,	200.00	
L. O. Peabody, stone shed,	40.00	
Geo. W. Waters,	25.00	
	<u> </u>	\$415.00

LIQUOR AGENCY.

Receipts,	\$2,850.00
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EXPENDITURES.

Paid as follows:	
M. S. Brown, liquors,	\$2,304.38
Moses Ladd, agent,	600.00
Moses Ladd, cash paid for sundries,	32.17
United Gas Supply Co., gas,	6.84
Concord Light & Power Co., gas,	10.26
Joseph Stickney, rent,	276.00
Pilsbury & Day, coal,	15.00
Concord Water-Works,	10.00
Byron Moore, vacation,	24.00
Jackman & Lang, insurance,	6.25
S. H. Connor, internal revenue tax,	25.00
	<u> </u>
	\$3,309.90

DEPARTMENT REPORTS.

CITY OF CONCORD, N. H.

WATER DEPARTMENT.

1893.

BOARD OF WATER COMMISSIONERS.

PARSONS B. COGSWELL, MAYOR, *ex officio*.

SOLON A. CARTER, to March 31, 1897.
FRANK D. ABBOT, to March 31, 1897.
JOHN WHITAKER, to March 31, 1896.
HENRY E. CONANT, to March 31, 1896.
WILLIS D. THOMPSON, to March 31, 1895.
WILLIAM M. MASON, to March 31, 1895.
GEORGE A. YOUNG, to March 31, 1894.
WILLIAM P. FISKE, to March 31, 1894.

ARTHUR H. CHASE, CLERK.

OFFICERS.

WILLIAM P. FISKE, PRESIDENT.

V. C. HASTINGS, SUPERINTENDENT.

CONCORD WATER BOARD.

Date of election and length of service of members :

Abraham G. Jones, <i>ex officio</i> ,	1872—three months.
John M. Hill,	1872-1878.
Benjamin A. Kimball,	1872-1878.
Josiah Minot,*	1872 Resigned Jan. 10, 1874.
David A. Warde,*	1872-1874.
Edward L. Knowlton,*	1872 Resigned Sept. 25, 1875.
Benjamin S. Warren,*	1872-1873.
John Kimball, <i>ex officio</i> ,	1872-1876.
John Abbott,*	1873-1876.
John S. Russ,*	1874-1877.
Abel B. Holt,*	1874-1877.
Samuel S. Kimball,	1875 Resigned July 1, 1891.
George A. Pillsbury, <i>ex officio</i> ,	1876-1878.
Luther P. Durgin,	1876-1885.
John Kimball,	1877 Resigned July 1, 1891.
William M. Chase,	1877 Resigned July 1, 1891.
Horace A. Brown, <i>ex officio</i> ,	1878-1880.
James L. Mason,	1878-1893.
James R. Hill,*	1878 Died 1884.
George A. Cummings, <i>ex officio</i> ,	1880-1883.
Edgar H. Woodman, <i>ex officio</i> ,*	1883-1887.
Joseph H. Abbot,	1884-1893.
George A. Young,	1885 Now in office.
John E. Robertson, <i>ex officio</i> ,	1887-1889.
Stillman Humphrey, <i>ex officio</i> ,	1889-1891.
Henry W. Clapp, <i>ex officio</i> ,	1891-1893.
Willis D. Thompson,	1891 Now in office.
William P. Fiske,	1891 Now in office.
James H. Chase,*	1891 Died 1893.
John Whitaker,	1892 Now in office.
Henry E. Conant,	1892 Now in office.

* Deceased.

Parsons B. Cogswell, *ex officio*, 1893 Now in office.
 Solon A. Carter, 1893 Now in office.
 Frank D. Abbot, 1893 Now in office.
 William M. Mason, 1893 Now in office.

PRESIDENTS OF THE BOARD.

Josiah Minot,* 1872 Resigned Jan. 10, 1874.
 Benjamin A. Kimball, 1874-1875.
 Edward L. Knowlton,* 1875 Resigned Sept. 25, 1875.
 John Kimball, 1875-1876.
 Benjamin A. Kimball, 1876-1878.
 John Kimball, 1878 Resigned July 1, 1891.
 William P. Fiske, 1891 Now in office.

* Deceased.

SUMMARY OF STATISTICS.

CONCORD, NEW HAMPSHIRE, WATER-WORKS.

Population of the city by census of 1890, . . .	17,004
Population of that portion of the city included within the water-precinct, estimated,	15,000
Date of construction, 1872; additions since.	
Works are owned by the city.	
Source of supply, Penacook lake, a natural body of water containing 265 acres, situated about three miles and a half from the state-house, and about 125 feet higher than Main street in front of the state-house.	
Mode of supply, gravity and pumping to reservoir.	

FINANCIAL.

MAINTENANCE.

Receipts.	Expenditures.
From consumers (mostly for domestic uses and at fixed rates), . . \$51,884.54	For management and repairs, \$3,715.37
From rents, etc., . . 377.16	For new distribution- pipes, 9,977.75
From pipe, etc., sold, . 149.09	For new service-pipes, 2,506.60
	For maintenance of pumping station, 3,378.24
	For damages and ex- penses of freezing, 1,380.22
	For work on shores of Penacook lake, 870.68
	For inspection, 320.25
	For meter account, 1,042.86
	For incidentals, 432.42
	Abatements, 111.13
	<u>\$23,735.52</u>
	Amount required to pay interest on bonded indebtedness, 28,400.00
	Balance, 275.27
<u>\$52,410.79</u>	<u>\$52,410.79</u>

CONSTRUCTION.

Cost of land damages, flowage, and water rights:	
Paid B. F. & D. Holden, for water-rights,	\$60,000.00
Concord Manufacturing Co., for water- rights,	83,000.00
W. P. Cooledge, for mill-privilege and land,	5,500.00
Humphrey & Farnum, for kit-shop privilege,	5,000.00
Flowage-rights around Penacook lake,	4,300.61
C. H. Amsden, water and flowage rights,	5,000.00
Moses H. Bradley, for land,	5,000.00
Joseph B. Walker, for land,	2,214.00
John G. Hook, for land,	370.00
	<u>\$170,384.61</u>

Cost of property and rights of Torrent Aqueduct Association,	\$20,000.00
dam, gate-house, and appurtenances,	30,756.17
conduit and upper gate-house,	29,484.05
main (one from the dam to Rumford St., one from the dam to Penacook St., one from the pump to the reservoir, fire-main through North and South Main and Turnpike Sts., and one from near the dam to Stark St.,	154,960.92
distribution-pipe,	265,996.83
service-pipe,	36,942.40
reservoir,	42,460.09
pumping station, shop, stable, and storehouse,	22,000.00
pumping machinery,	10,215.00
engineering and superintendence,	14,440.56
incidentals,	6,531.19
Cost of the works, Jan. 1, 1894,	<u>\$804,171.82</u>

Bonds of the city have been issued to pay a part of said cost as follows:

When due.	Rate.	Amount.
April 1, 1894,	6	\$130,000.00
“ 1895,	6	20,000.00
Nov. 1, 1896,	4	10,000.00
“ 1897,	4	10,000.00
“ 1898,	4	10,000.00
“ 1899,	4	10,000.00
Oct. 1, 1912,	4	45,000.00
Jan. 1, 1923,	4	400,000.00
		<u>\$635,000.00</u>

REPORT OF WATER COMMISSIONERS.

To the City Council:

The Board of Water Commissioners respectfully submit their report for the year ending December 31, 1893.

The report of the superintendent, which is made a part of this report and to which your attention is respectfully invited, shows a large amount of work accomplished during the year 1893; it also gives the cost and maintenance of the work.

The years of 1892 and 1893 have been marked years in the history of this department, and a large sum has been expended in perfecting the water-works system of the city and securing rights which will become valuable in years to come. No department has more demands upon it, and none seems more important in supervision and care. The work of the year has been of a necessary character, and the good results already derived therefrom have justified the expenditure.

PUMPING STATION.

The pumping station has been completed and presents a most attractive appearance, second to none in its arrangements and in the facility with which the work is performed. The pumping-engine was delivered to the city early in the year, and the final test was made by an engineer sent by the maker, Henry R. Worthington of New York city, and by our engineer, Henry A. Rowell. The result of the test was most satisfactory, the engine performing a higher duty than was guaranteed, and in every respect stood the strain upon it and did its work in the best possible manner. The results since obtained have been satisfactory. The whole plant has attracted many visitors from outside our city, and the estimate placed upon it by experienced engineers and contractors is very gratifying. The care of the station is in charge of Henry A. Rowell, whose ability is demonstrated by his management and careful supervision, and we feel that he is the right man in the right place.

GATE-HOUSE.

The gate-house has been completed during the year and is fully described in the report of the superintendent. Its advantages are apparent; the old gate-house was inferior and ill-fitted to do the work demanded of it, but we consider that this one, substantially built and fully equipped, will meet all requirements for years to come.

PENACOOK LAKE.

The commissioners have continued their policy of securing the land bordering on the lake, and have obtained by purchase about ninety-three acres during the year, which gives the city the control of the greater part of the land lying on the westerly side of the lake, and it is their hope to continue the same policy as opportunity is afforded. The last two years have been exceptional ones on account of the low water in the lake, and we have taken advantage of this by doing a large amount of work along the shores, thus obliterating many objectionable features which have hitherto existed. We call your attention to the protection of our water supply by every possible means, and it is hoped that your board will pass such ordinances as may seem necessary to this end.

RESERVOIR.

Quite a little work has been done around the reservoir, but we hope in the coming year to be able still further to improve the grounds surrounding it and complete the plans already suggested in previous reports.

WATER-RIGHTS.

During the year the opportunity was presented to the commissioners to secure the water-rights in Long pond in Webster, owned by Charles H. Amsden. The matter was investigated very thoroughly by the board, and at their request, the city engineer made careful surveys to determine the practicability of bringing the water to our city and to ascertain a feasible route for the same. This pond is finely located at a height of about

thirty-five feet above our present supply, with sandy bottom and excellent surroundings, and by analysis the water is shown to be equal in character to that of Penacook lake. The commissioners unanimously decided to buy this water-right, for which they paid the sum of \$5,000. This will give the city an additional supply of water, adequate to meet all the needs and protection against any failure or insufficiency of the present supply.

FINANCIAL.

A temporary loan has been granted by your board of \$15,000 to carry on the needed improvements during the year. An ordinance has also been passed providing for the refunding of \$130,000 of 6 per cent. bonds becoming due April 1, 1894, and a note of \$40,000 due in March, 1894, thus leaving only \$20,000 of 6 per cent. bonds still outstanding. We feel that under the present earning capacity of this department, we shall very soon be able to retire a certain amount of bonds each year, and the new issue is so arranged that such an end will be accomplished, as it is the policy and desire of the commissioners to retire as fast as possible the outstanding indebtedness upon the works.

It will be seen by the report of the superintendent that a large quantity of water is wasted during the year, and we have instructed him to place meters where large quantities of water are being used or where it is being wasted.

During the year the membership of the board has changed; the term of office of James L. Mason and Joseph H. Abbot having expired, Solon A. Carter and Frank D. Abbot were chosen to succeed them. Mr. Mason was elected to the board in 1878, and has ever been an active and efficient member, taking great interest in the work of the department and devoting much time to it. Mr. Abbot has been a useful member of the board since 1884. In the death of James H. Chase, the board lost an esteemed member, whose good judgment and experience were of much value. During the existence of the board of water commissioners, this is the second death to be recorded of a member during his term of office. We desire to place upon record our appreciation of the service of these faithful and efficient members. William M. Mason was chosen to succeed Mr. Chase.

We also desire to express to the city council our appreciation of the coöperation and aid received from them, and for the confidence placed in us ; for in the expenditure of so large an amount of money there has been no little responsibility, and the commissioners have cheerfully given their time and experience for the best interests of the city.

The duties of the superintendent have been peculiarly arduous during the past few years, and much credit is due him for the quality of the work and the satisfactory manner in which it was performed.

All of which is respectfully submitted.

SOLON A. CARTER,
FRANK D. ABBOT,
JOHN WHITAKER,
HENRY E. CONANT,
WILLIS D. THOMPSON,
WILLIAM M. MASON,
GEORGE A. YOUNG,
WILLIAM P. FISKE,
PARSONS B. COGSWELL, *ex officio*,
Water Commissioners.

REPORT OF THE SUPERINTENDENT.

To the Board of Water Commissioners:

I herewith present to you the twenty-second annual report of the operations of this department, showing the receipts, expenditures, and abatements, together with a statement of extensions and improvements made during the year ending December 31, 1893.

RECEIPTS.

For water from consumers by fixed rates,	\$42,535.53
water from consumers by meter rates,	9,214.81
From delinquents,	61.34
For water used for building purposes,	72.86
use of meters,	113.15
rent of Cooledge house,	104.01
rent of kit-shop house,	60.00
rent of shop,	100.00
pipe and stock sold,	149.09
	\$52,410.79
Deduct abatements,	111.13
Total receipts for 1893,	\$52,299.66

EXPENDITURES.

Paid V. C. Hastings, superintendent,	\$1,800.00
Elmer L. Gove, foreman,	830.00
Henry A. Rowell, engineer,	800.00
Alice G. Cochran, clerk,	500.00
Harry E. Stevens, inspector,	388.50
John St. Lawrence, labor,	550.00
Nathaniel White, Jr., rent of office,	300.00
S. G. Sanborn, rent of shop in Penacook,	24.00
Ira C. Evans, printing,	75.00

Paid N. H. Dem. Press Co., printing, .	\$30.00
Republican Press Asso., printing, .	12.00
Silsby & Son, stationery, etc., .	25.96
Crawford & Stockbridge, stationery, etc.,	6.62
George A. Place, office supplies, .	6.50
Arthur H. Chase, clerk of water board and auditor,	25.00
Concord Light & Power Co., gas and coke,	87.45
N. E. Telephone & Telegraph Co., telephones,	146.70
Oliver Ballou, frames,	13.85
J. M. Stewart Sons Co., furniture for pumping station,	101.08
W. C. & I. T. Chesley, wall paper,	4.46
Humphrey & Dodge, hardware, . .	191.07
Thompson & Hoague, hardware, . .	211.85
Batchelder & Co., grain, etc., . .	108.83
A. C. Sanborn, grain, etc.,	50.75
Blanchard & Co., hay,	44.26
J. M. Jones, straw,	8.20
Hiram O. Marsh, wood and coal, . .	1,000.96
Pilsbury & Day, wood and coal, . .	223.95
The Portsmouth Coal Pockets, coal,	447.27
M. E. Prescott, chestnut plank, . .	79.85
Geo. W. Chesley, chestnut plank, . .	16.20
G. H. Heath, slabs,	21.00
G. H. Folsom, trees,	27.00
H. M. Clough, sleigh,	40.00
Perkins & Berry, grass seed, . . .	10.08
C. H. Martin & Co., lead and oil, . .	37.76
A. P. Fitch, soda ash,	5.00
Greenough & Hazeltine, rubber boots,	23.25
John C. Thorne, rubber boots, . . .	12.75
B. T. Putney, dynamite,	34.20
Perrin, Seamans & Co., wire rope, .	36.46
Rice & Company, screens,	300.00
Morss & Whyte, copper screening,	56.30

WATER DEPARTMENT.

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Paid Fitz, Dana & Co., sheet iron, . . .	\$15.69
Sewall & Day Cordage Co., manilla rope,	18.70
American Supply Co., packing, . . .	12.87
Thompson & Bushnell Co., packing, . . .	8.80
H. B. Winship, packing,	6.94
Tauntón Locomotive M'f'g Co., fur- nace,	20.00
Thomas Watkins, pipe joiner,	14.50
Locke Regulator Co., damper rég- ulator,	125.00
A. W. Sanborn, oil cups,	6.00
R. D. Wood & Co., cast-iron pipe,	8,573.16
Builders Iron Foundry, castings,	119.92
Davis & Farnum M'f'g Co., castings,	59.04
Ford & Kimball, castings,	22.01
City of Concord, sewer dept., Akron pipe,	3.00
Ludlow Valve M'f'g Co., valves,	1,639.35
Walworth M'f'g Co., brass goods and tools,	510.86
Gilchrist & Taylor, wrought-iron pipe and tools,	309.17
Union Brass Co., brass goods.,	20.50
Boston Lead M'f'g Co., pig lead,	382.25
Chadwick Lead Works, pig lead,	305.50
Samuel Holt, brick,	1,142.25
Woodworth & Co., cement,	930.30
Mrs. J. N. Spead, sand,	7.20
Henry R. Worthington, balance on pump and meters,	2,753.40
National Meter Co., meters,	561.80
Thomson Meter Co., meters,	77.75
Hersey M'f'g Co., meters,	77.00
W. S. Davis & Son, sleigh and repairs,	122.49
Huntley & MacDonald, repairs,	19.00
J. D. Johnson & Son, repairs,	14.33
W. E. Darrah, repairs,	6.12

Paid E. B. Hanchay, smith-work, . . .	\$245.55
J. M. Crossman, smith-work, . . .	39.33
E. Isabelle, smith-work, . . .	10.40
R. W. Cate, smith-work, . . .	1.30
The Carnegie Steel Co., iron-work,	23.65
Stevens & Dunklee, iron-work, . . .	18.70
Granite State Electrical Co., machine- work,	232.67
Concord Machine & Foundry Co., machine-work,	27.96
Goodhue & Milton, pipe and labor,	108.67
E. H. Randall, pipe and labor, . . .	20.01
P. A. Clifford, pipe and labor, . . .	18.51
Rowell & Plummer, mason work, . . .	1,199.86
Ferrin & Woodman, mason work, . . .	21.10
John R. McDonald, stone work, . . .	1,538.96
M. H. Johnson, stone work, . . .	286.20
McAlpine & Co., stone work, . . .	37.89
Granite Railway Co., stone work, . . .	33.29
James H. Rowell, concrete and sand,	233.29
E. B. Hutchinson, lumber and labor,	2,311.15
Kimball, Danforth & Forrest, lumber and labor,	3.04
George Abbott, Jr., painting, . . .	204.39
Benj. Bilsborough, painting, . . .	131.51
Geo. L. Theobald, team-work, . . .	822.91
O. F. Richardson, " . . .	78.00
Proctor Bros., " . . .	49.55
Cavis G. Brown, agt., " . . .	43.25
N. A. Dunklee, " . . .	34.50
McShane & Gienty, " . . .	18.25
Geo. F. Sewall, " . . .	8.75
John Jordan, " . . .	5.00
Concord & Montreal Railroad, freight,	175.84
Boston & Maine Railroad, freight,	43.98
Concord Street Railway, . . .	120.00
E. R. Angell, water analyses, . . .	30.00
Foss & Merrill, engineering, . . .	53.10
Town of Webster, taxes, . . .	10.00

Paid legal expenses,	\$450.00
Charles H. Amsden, water-rights,	5,000.00
H. H. Chase, water-rights,	206.00
Charles E. Ballard, land,	2,500.00
Mary G. Carter, land,	1,250.00
Elizabeth Widmer, land,	1,000.00
Damages,	410.05
Incidentals,	482.57
V. C. Hastings, cash paid out,	108.46
Pay-roll, labor,	8,901.01
	<hr/> \$55,147.66

The expenses are divided as follows :

For management and repairs,	\$3,715.37
new service-pipes,	2,506.60
new distribution-pipes,	13,491.37
maintenance of pumping station,	3,378.24
construction of pumping station,	3,121.41
pumping machinery,	2,412.65
inspection,	320.25
damages and expenses of freezing,	1,380.22
reservoir grounds,	699.94
new gate house,	9,869.65
work on shores of Penacook lake,	1,870.68
land around Penacook lake,	4,750.00
water rights and legal expenses,	5,656.00
meter account,	1,042.86
incidentals,	932.42
	<hr/> \$55,147.66

The annual income has increased \$4,016.33 over that of 1892, and it is pleasant to record that we have not been compelled to shut off a supply to enforce collection since 1887.

EXTENSIONS AND IMPROVEMENTS.

Main- and distribution-pipes have been laid and hydrants set, during the year, as follows :

In School street,

east from Tahanto street, 12 feet 10-inch pipe.

- In Centre street,*
west from High street, 366 feet 8-inch pipe.
- In Minot street,*
north from Odd Fellows' Home, 355 feet 6-inch pipe.
- In Woodman street,*
east from Minot street, 59 feet 6-inch pipe.
- In Chestnut street,*
north from Auburn street, 265 feet 6-inch pipe.
- In Pillsbury street,*
east from Broadway, 508 feet 6-inch pipe.
- In Pillsbury street,*
west from Eastman street, 50 feet 6-inch pipe.
- In Warrenston street,*
extended east, 105 feet 6-inch pipe.
- In Glen street,*
extended south, 240 feet 6-inch pipe.
- In Peabody street, West Concord,*
east from Main street, 340 feet 6-inch pipe.
- In River street, West Concord,*
south from Peabody street, 156 feet 6-inch pipe.
- In Bradley street,*
south from Church street, 243 feet 4-inch pipe.
- In Albin street,*
west from Bradley street, 462 feet 4-inch pipe.
- In Ford's avenue,*
west from Green street, 320 feet 4-inch pipe.
- In Elm street,*
north from Fayette street, 158 feet 4-inch pipe.
- In Badger street,*
south from Harrison street, 46 feet 4-inch pipe.
- In Hall street,*
extended south to near Hammond street, 408 feet 4-inch pipe.
- In Pleasant street,*
from Pine to Liberty street, 444 feet 10-inch cast-iron pipe,
relaid in place of 6-inch cement-lined.
- In Warren street,*
from Tahanto to Pine street, 345 feet of 8-inch cast-iron
pipe, relaid in place of 6-inch cement-lined.

- In Warren street,*
west from Liberty street, 695 feet 8-inch cast-iron pipe,
relaid in place of 4-inch cement-lined.
- In Kimball street,*
north from Allison street, 168 feet 4-inch pipe.
- In Eastman street,*
south from Allison street, 400 feet 4-inch pipe.
- In Pine street,*
from Warren to Pleasant street, 681 feet 8-inch cast-iron
pipe, relaid in place of 4-inch cement lined.
- In Pine street,*
from Centre to Warren street, 985 feet 6-inch cast-iron
pipe, relaid in place of 4-inch cement-lined.
- In Tahanto street,*
from School to Warren street, 615 feet 6-inch cast-iron
pipe, relaid in place of 4-inch cement-lined.
- In Orchard street,*
from Merrimack to Pine street, 620 feet 6-inch cast-iron
pipe, relaid in place of 4-inch cement-lined.
- In Washington street,*
from Perry avenue to Centre street, 855 feet 6-inch cast-
iron pipe, relaid in place of 6-inch cement-lined.

IN PENACOOK.

- In West Main street,*
south from Main street, 1,284 feet 6-inch pipe, and 1
hydrant.
- In Union street,*
extended west, 36 feet 4-inch pipe.
On hydrant branch, 7 feet 6-inch pipe.
- There has also been laid on the main line, near the new gate-
house, the following amount of pipe :
- 120 feet of 12-inch pipe.
 - 107 feet of 14-inch pipe.
 - 195 feet of 16-inch pipe.
 - 15 feet of 18-inch pipe.
 - 862 feet of 20-inch pipe.
 - 282 feet of 24-inch pipe.

Summary of the Foregoing.

<i>Pipes.</i>	<i>Hydrants.</i>	<i>Stop-Gates.</i>
1-in., 563 feet.	West Main street,	4-in., 17
4-in., 2,241 "	Penacock, 1	6-in., 13
6-in., 6,444 "		8-in., 4
8-in., 2,087 "		10-in., 2
10-in., 456 "		12-in., 2
12-in., 120 "		14-in., 13
14-in., 107 "		18-in., 1
16-in., 195 "		20-in., 4
18-in., 15 "		24-in., 1
20-in., 862 "		
24-in., 282 "		
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13,372 feet, —equal to 2.53 miles	1	57
Total length of main- and distribution- pipes now in use, 272,232 feet, —equal to 51.56 miles.	Total number of hy- drants now in use, 228.	Total number of gates now in use, 629.

SERVICE-PIPES.

There have been laid during the year, and connected with the main-pipe, 114 service-pipes, consisting of,—

111 1-inch,	2,804 feet.
2 2-inch,	47 "
1 6-inch,	36 "
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114	2,887 feet.

Whole number service-pipes, 2,836 ; number discontinued, 8 ; number in use at the present time, 2,828.

Whole number feet, 66,401, equal to 12.58 miles.

The following table shows the height of water in Penacock lake on the first day of each month :

January,	171.20	July,	175.80
February,	169.95	August,	175.45
March,	170.40	September,	174.70
April,	172.70	October,	173.50
May,	174.70	November,	173.00
June,	176.40	December,	172.85

The lowest point reached was February 1, being 169.95; the highest was May 25, 176.45;—mean height, 173.38, which was .94 foot lower than during the year 1892.

We have taken advantage of the continued low water to clear the shores of Penacook lake, especially that part known as Forge pond, from which muck, stumps, and decaying matter have been removed in large quantities.

The expense of maintenance of the works was greatly increased by the severe winter of 1892-'93; a large force of men was kept busy throughout the winter thawing pipes and repairing leaks on the high service.

Our first work in the spring was on the pipe lines which had occasioned so much trouble by numerous breaks. About one mile of cement-lined pipe was relaid with cast-iron pipe of a larger size. This work added greatly to the distribution-pipe account. We were also obliged to make new connections for the services on these lines, thus increasing the service-pipe account.

The barn known as the Bradley barn, which stood on the pumping station lot, has been somewhat remodeled and makes an excellent storehouse.

The house to house inspection inaugurated this year has proved a great help in locating and preventing waste of water.

I have caused analyses of the water of Penacook lake to be made, which are presented herewith, and demonstrate the continued excellence of our water-supply.

NEW GATE-HOUSE.

The new gate-house below the dam, which has long been needed, has been constructed according to plans approved by you. The building cost \$9,869.65, and was built in the most substantial manner.

Excavation was made to hard pan, a stone bed-course was laid and the sub-structure was built upon this. The outside walls were of rubble masonry, laid in cement mortar, twenty-two feet in height, four feet thick at the bottom, plumb on the inside face, with a uniform slope on the back to two feet thick at the top. This wall was lined with one foot of hard-burned brick, laid in equal parts of cement and sand. The partition walls were also of brick, those running lengthwise of the building being two feet thick, and the cross-walls, three feet thick.

The inside dimensions of the gate-house are 19 by 23 feet, and the interior is divided by the partition walls into three series of wells, 22 feet deep, with cement floors. The water enters the gate-house through two 16-inch mains, emptying into a receiving well, 18 by 3 feet; the supply for the pump-main flows from this general well, through a 14-inch pipe, into a small one three feet square; from these two wells, the water flows through five 14-inch gates into five screening wells, six feet nine inches by three feet six inches, divided in the centre by two sets of screens, each of one eighth inch mesh. After being screened, the water flows through five 14-inch gates into three distributing wells, one three feet square supplying the Penacook main; the centre one, thirteen by three feet, supplying the present low service system in the city, and also connected with a plugged main, intended for future use; the third well, three by three and one half feet, supplying the pump main. All these mains are 20-inch cast-iron pipe through the wall and for some distance below, there connecting with the old mains. The three distributing wells are so connected that any or all mains may be supplied through any of the screening wells or from either of the receiving wells.

A 24-inch pipe connects the gate-house with the 24-inch main formerly used by the Concord Manufacturing Company, through the pump receiving well, in case the 16-inch mains should be disabled in any way; this 24-inch main was also continued to below the gate-house, and connected with the three supply mains, so if any difficulty should arise in the gate-house, the city can be furnished with water through this main, entirely independent of the gate-house. A 20-inch main was laid through the wall of the gate-house to the dam in provision for coming years.

A system of drain-pipes is laid throughout the gate-house, with an opening for each compartment; each well can be closed from all others, the water drained out and the pit cleaned, without stopping the flow of water through any main, for one moment. An arrangement has been devised whereby the screens are lifted out, run out of the building and washed by water pumped on them.

The superstructure is of brick with trimmings of Concord granite. The total amount of stone masonry was 309.6 cubic yards, and about 150,000 brick were used in the building. The stone masonry was laid by John R. McDonald; the brick-work was done by Rowell & Plummer by the day, and the brick was furnished by Samuel Holt; the wood-work was done by E. B. Hutchinson, and the painting by George Abbott, Jr.

The building has already proved itself a valuable acquisition to the works both by increased screenage and by a better arrangement of distribution.

HIGH SERVICE.

The new high service system has worked very successfully during the year, and for details of the operation of the pump, I would refer you to the accompanying report of the engineer.

The pumping expenses of the year are as follows:

Cost of fuel used,	\$1,212.47
Salaries, engineer and fireman,	1,269.00
Cost of oil, waste, packing and other supplies,	174.44
Gas consumed,	60.39
	<hr/>
Total pumping expenses,	\$2,716.30

The account of maintenance of pumping station is larger than the actual pumping expenses of the year, as it covers cost of coal used in December, 1892, as well as of supplies now on hand, including ninety tons of coal, about five months' supply.

We have expended \$699.94 in grading the slopes of the reservoir, and this work should be continued from year to year until the whole reservoir grounds are graded.

METERS.

You will see by the engineer's report that nearly 180,000,000 gallons of water were pumped during the year; this is an excessively large quantity for the population of the high service district and shows a very extravagant waste of water, while there is doubtless an equal waste by the consumers of the low service.

The problem of waste of water is one that comes to nearly every water department, and by the examination of reports of other cities, I find that the use of meters is to a great extent becoming universal as the only effective method of solution. Col. William Ludlow, late chief engineer of the Philadelphia water-works, says on this subject,—

There are but two practicable methods of checking this waste, viz., by a system of inspection and enforcement of penalties, and by measuring and charging for the quantity taken. The former plan involves domiciliary visiting, always cumbersome and objectionable, and . . . is in the nature of things, an approximation only to an effective method. Actual measurement is preferable as being more exact, automatic, effective, and equitable.

The water meter is merely a sleepless and tireless machine, not susceptible to bribery or violence without discovery, requiring little attention and recording actual consumption, regardless of the disposition made of the water which passes through it.

With the meter registering waste, defective appliances will be repaired, carelessness of servants and employees corrected, the water-closet will have a proper flushing tank instead of a constant flow, and the water will not be used in the winter to protect a badly laid pipe from freezing, or the owner from a plumbing bill. The waste from these sources, though of no great apparent amount in a single instance, when multiplied by the immense number in use, represents a formidable quantity, which, having been brought from the source of supply, flows to tide water without having served any useful purpose whatsoever.

I am convinced that in our own city, three fourths of the consumption of water is wasted. Statistics show that in cities where the meter system is used, the daily consumption for all purposes including fire and manufacturing uses, is from thirty to not over sixty gallons per capita, and according to this estimate, with such a system, we would have pumped about 50,000,000 gallons, instead of 180,000,000 gallons.

The testimony of all cities and towns that have adopted the meter system, is wholly in praise of it, both as a waste detector and preventor, and as an agent for perfect equalization of rates. In connection with the last named use of the meter, I would say that recommendation of its adoption, is in no way connected with desire for increase of income. The first effect of its introduction will be to increase the rates in many cases, but it has been the experience of other cities, that after the first payment has shown the owners of buildings the necessity of proper care, they are able to obtain an abundant supply of water at the same or lower rates than were paid under the old method.

One city reports: "The large consumers have reduced their consumption of water from twenty to seventy per cent. without affecting their industries to any extent and without causing them much inconvenience. The quantity of water saved by the use of meters is so large that we have been saved from a water-famine by their use."

Another city records of the system: "It has now been well tested and is considered by the citizens as a much more satisfactory and equitable manner of charging for water than was the former method by rates."

In our own experience with meters, the consumers, as a whole, are pleased with the results. In some cases where the consumption is unusually large, it is difficult to convince the consumer that there is nothing wrong with the meter; he seems to think that only water actually used is registered, leaks and waste having no effect on the meter, but the system is generally satisfactory.

I would therefore recommend the general adoption of meters, both in public blocks and private dwellings. A large part of the waste is in tenement houses, caused both by defective plumbing and carelessness of tenants; but I wish to state that in nearly all cases where notices of waste have been sent, the owners have been prompt to repair the plumbing. That some of the waste in the city has actually been stopped by inspection, is clearly shown by the increase of water pressure, and I am confident that under a meter system it would be raised considerably higher.

When a man knows he is paying by actual measurement, he

is a detective to himself and to his household, and all unnecessary waste is reduced to the minimum ; plumbing is kept in the best possible condition, and neglected faucets and closets used to continuous flow, suddenly find a thoughtful and attentive owner. Should the meter system be adopted in general or in part, I am sure that it would give satisfaction both to the water department and the entire community.

Respectfully submitted :

V. C. HASTINGS,
Superintendent.