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Box 3



REPORTS

OF THE

WATER COMMISSIONERS

TO THE

COMMON COUNCIL OF THE CITY OF ALBANY,

TRANSMITTING THE

REPORTS OF THE CHIEF ENGINEER

AND THE

SUPERINTENDENT OF THE WATER WORKS.

ALBANY:
WEED, PARSONS AND COMPANY.
1852.





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WATER COMMISSIONERS' REPORT.

To the Hon. the Mayor, and
Common Council of the City of Albany.

GENTLEMEN:

The resolutions passed by the Common Council on the 22d of September last, and sent to this Board, were referred to our Chief Engineer to report thereon; and his report is herewith transmitted to you.

The Commissioners have some time been aware that the work would exceed the original estimate, but not until they received the accompanying report of the Chief Engineer, did they anticipate that the works would cost so much.

JAMES STEVENSON, ERASTUS CORNING, JOHN TOWNSEND, JOHN TAYLOR, R. E. TEMPLE,

Water Commissioners.

WATER COMMISSIONERS' OFFICE, Albany, Oct. 18, 1851.

REPORT OF CHIEF ENGINEER.

ALBANY, Oct. 3, 1851.

To the Water Commissioners of the City of Albany.

GENTLEMEN:

In pursuance of your instructions, I herewith submit a reply to the resolutions which were adopted by the Common Council, on the 22d of September last.

I have presented these replies without reference to the order in

which the resolutions are arranged.

The estimate which I submitted to you on the 3d of August, 1850, and which is now called for, is as follows:

II. From Patroon's Creek at the junction.

Junction Reservoir.

90 acres of land, at \$25,	\$2,250 00
61 acres of chopping and clearing, \$25,	1.525 00
2.500 rods of fence. \$1.50.	3,750 00
Grubbing.	150 00
2,500 rods of fence, \$1.50,	500 00
1,000 cubic yards of excavation, 20c.,	000 00
3,000 cubic yards of excavation, 12c.,	- 360 00
30,000 cubic yards of embankment, 12c.,	- 3,600 00
4,000 cubic yards of embankment, puddled, 35c.,	- 1,400 00
Extra puddling and lining near dam,	- 1,500 00
1,300 cubic yards of slope wall, \$2.25,	2925 00
Turning banks, &c.,	500 00
200 lineal feet of drain pipe, \$2.50,	500 00
Z SIOD-COCKS. X6/5	
Puddling and other work about do	- 150 00
Puddling and other work about do.,	200 00
Waste weir,	1,500 00
House for gate keeper,	500 00
	- 500 00
Total,	
a vivily message sanguage sanguage	\$23 010 00

Conduit, and Grading therefor.	
20 acres of land, \$20,	\$400 00
12 acres of land, \$50,	600 00
3 acres of land, \$200,	600 00
4,000 cubic yards of rubble concrete, &c., founda-	00.000.00
tions, \$5,	20,000 00
6,800 cubic yards of brick masonry, \$6,	40,800 00 2,850 00
Other work on ditto,	
5 waste weirs, &c., \$500,	0 1100 011
10 culverts, \$300, 10 road crossings, \$25,	
Turnpike crossing,	150 00
Temporary fences,	500 00
150,000 cubic yards of excavation, 1st section, 12c.,	18,000 00
70,000 cubic yards of embankment, 1st section, 10c.,.	7,000 00
Temporary drains and bailing,	. 1,000 00
Grubbing,	_ 150 00
Turfing banks and trimming slopes,	500 00
80,000 cubic yards excavation and embankment, 2	1
section, 10c.,	- 8,000 00
Grubbing, 2d section,	150 00
Turfing, &c., 2d section,	200 00
20,000 cubic yards excavation and embankment, section, 12c.,	2,400 00
2,000 cubic yards puddle, 25c.,	
Turfing banks, 3d section,	500 00
2 road crossings,	
~ 10tta c1055111gs,	200 00
Total,	\$110.550.00
10001,	\$110,000 to
	STREET, STREET
Receiving Reservoir.	
10 acres of land, \$500,	\$5,000 00
50,000 cubic yards of excavation, 12c.,	
16,000 cubic yards of puddling, 20c.,	3,200 00
6,000 cubic yards of gravet, 50c.,	3,000 00
600 only and of brief manner of	2 (00 00
600 cubic yards of brick masoury, \$6,	
50 cubic yards of stone masonry, \$4,	
Turfing,	500 00
Fencing and drains,	5110 00
Inlet chamber,	1,000 00
Inlet and outlet pipes and cocks,	2,400 00
and differ pipes and cooks,	2,400 00
A COMPANY OF THE PARTY OF THE P	#O* 400 00
Total.	\$25,400 00

Enlarging Pond at foot of Tivoli Falls.

Intarguing 1 on a 17		
No detailed estimate was made in the report of the engineer, of 3d August, 1850, more mond at	\$20,000	00
Extending pipes from the lower to the upper point at	5,000	00
Repairs and additions to old Company Water Works, the same as above,	5,000	00
Distribution Pipes, Stop-cocks, Hydrants,	&•c.	
Distribution 1 thes, Stop coens, 229 at anti-		
65,000 lineal feet pipe 3 in. diameter, \$0.60, \$39,000		
20.000 lineal feet pipe 4 in. diameter, 0.90, 18,000		
8,000 lineal feet pipe 8 in. diameter, 1.40, 11,200		
2,500 lineal feet pipe 10 in. diameter, 1.60, 4,000		
5,800 lineal feet pipe 12 in. diameter, 2.50, 14,500	40×4×0	00
the process of the process of the process of the party of	105,450	UU
160 stop-cocks for pipes 3 in. diam., \$20.00, \$3,200		
80 stop-cocks for pipes 4 in. diam., 25.00, 2,000		
30 stop-cocks for pipes 6 in. diam., 35.00, 1,050		
20 stop-cocks for pipes S in. diam., 50.00, 1,000		
10 stop-cocks for pipes 10 in. diam., 70.00, 700		
5 stop-cocks for pipes 12 in. diam., 75.00, 375		
5 stop-cocks for pipes 12 in. diam., 75.00, 575	0.205	00
	8,325	
200 hydrants, \$25,	5,000	
Pipe, yard and buildings and testing apparatus,	4,000	00
Expenses of proving, carting, and laying down, not		
provided for above,	17,225	00
THE RESERVE THE PARTY OF THE PA		
Total,	\$140,000	00
10(11)	\$140,000	00

The first division of the second resolution calls for the estimated quantity of each kind of work to be performed under each contract, (as included in the original estimates referred to,) the price estimated by the engineer, the price to be paid to the contractor, &c., which amounts to a comparison of the quantities, prices and aggregate cost of the above estimate, with the prices paid the the several contractors, and the aggregate cost at their prices, applied to the above quantities, distributed among the several contracts.

It is proper here to state, that after this estimate was made and before the work was contracted for, numerous and radical changes were made, as follows:

The contract for the retentive reservoir embraces a dam located nearly half a mile from the one which is in the above estimate

The contract for sections 2 and 3, embraces a distance of more than three fourths of a mile, no part of which was included in the above estimate, and which was nearly half a mile distant from the line assumed therein, and of a character of work entirely different.

On section No. 1, the line was changed both before and after the contract was made, for its entire length, except for about eight hundred feet.

The plan for the receiving reservoir was changed in dimen-

sions, omissions and additions.

Watervliet lake was totally changed both in location and plan. The distribution pipes were changed in dimensions and mode of casting, and the quantity greatly increased, by laying in streets,

not contemplated in making the estimate.

The price which is stated in the estimates for brick masonry, includes the furnishing of the materials and placing them in the work complete. The contracts were made separately for the brick, and for furnishing the cement, and laying up the masonry.

The prices which are stated in the estimates for the iron pipes, include in one item the furnishing of the pipes, proving and hauling them, digging the trenches, laying the pipes, and restoring the parth and

the earth and pavements.

Contracts were made separately for the delivery and hauling of the pipes, and for the trenches. No contracts were made for the

other items which are embraced in the estimated prices.

These changes have so materially altered the work for which the above estimate of \$361,960 was made, as to render the application of the contract prices of the amended line, and changed circumstances of the work, nearly as impracticable as would be their application to the Hungerkill route, for which I submitted an estimate at the same time.

The location, quantities, and character of the work being essentially different, the application of the contract prices to the estimates alluded to, for the purpose of comparison, cannot be

made.

The prices, however, which were estimated, are already given; and the prices to be paid to the contractors on the amended lines,

will be found in a subsequent part of this report.

The second division of the second resolution calls for the actual quantity of each kind of work already performed under each contract, the price paid and to be paid for the same, and its aggregate cost which, is as follows:

Estimate of the amount of work done on the 1st, 2d and 3d contracts for Furnishing Brick, up to October 1st, 1851.

1.024.000 brick, at \$7,		\$7,168 00)
205.486 brick, at \$6.5	5(),	1,335 66)
1.411.559 brick, at \$7.1	2,	10,050 30)

Estimate of the amount of work done on contract for Constructing the Retentive Reservoir, up to October 1st, 1851.

24,020 cubic yards excavation, 8c.,	\$1,921	60
24,020 choic yards excavation, oc.,	11 7	
28,682 cubic yards embankment, 9c.,		
17,870 cubic yards puddling, 14c.,	3,301	00
11,010 04010 1	The second second	_

Carried forward, _____ \$7 004 78

Brought forward,	\$7,004 78
12 079 aubic wards [[n]no. [(C.,	F ~ () () ()
281 acros clearing and chopping, Devi	900 50
138 acres clearing and grillbling, \$10,	FOT 46
39 637 feet hemlock lumber, \$10	1 01
1.690 feet hemlock lumber, used 2d unie, \$3,	co1 (10)
207 cubic vards brick masonry, \$5,	100 00
8 cubic yards cut stone mason y, \$15,	102
62 cubic yards slope wall, \$2.13,	
183 cubic yards rubble masoury, \$5,	210
294 pounds wrought iron, Sc.,	2.5 .72
32.33 cubic yards concrete, \$4.50,	149 40
200 cubic yards slope wall, stone delivered, \$1.50,	300 00
325 pounds lead around iron gate frames, 10c.,	32 50
47 days extra work hauling brick-bats, &c., \$1,	47 30
2,000 feet hemlock lumber, delivered, \$9,	18 00
	@12 150 87
Total,	\$13,13.7 07
THE PERSON NAMED IN COLUMN TO SERVICE OF THE PERSON OF THE	
Estimate of the amount of work done on the contra	ct for Con-
structing Sections Nos. 2 and 3, up to October 1s	t, 1851.
14,450 cubic yards of excavation, 7c.,	1,011 50
25,540 cubic yards of embankment, 16c.,	4,086 40
13 470 cubic yards of embankment, 10c.,	1,347 00
1,617 cubic yards of brick masonry in conduit and	
culverts, \$2.90,	4,690 25
2,452 cubic yards of brick masonry in conduit and	Ly Lor Blok
culverts, \$2.85,	6,988 20
161.10 cubic yards of rubble masonry, \$8,	1,288 80
8.40 cubic yards of concrete masonry, \$8,	67 20
519,977 feet hemlock lumber, \$35,	18,199 20
299,000 feet hemlock lumber, used 2d time, \$17.50,	5,232 50
6,515 pounds wrought iron, 12c.,	781 80
5.96 acres chopping and clearing, \$50,	298 00
3.51 acres clearing and grubbing, \$125,	438 75
10 cubic yards puddling, 30c.,	3 00
250 cubic yards gravel in foundation for conduit, \$1.50,	
16½ cubic yards stone and brick filling for culver, 75c.,	12 37
Extra han! of brick,	441 00
Making road, Farm gate, Farm gate, Farm gate, Farm gate	5 ()()
66 artis made hydron stans in foundation for san	5 00
66 cubic yards broken stone in foundation for con-	
du:t, \$1.50,	99 00
5.50 cubic yards stone filling for foundation, \$2.25,	12 38
241½ days labor cleaning out conduit, \$1,	241 50
10 days labor, overseer, cleaning out conduit, \$2,	20 00
2½ cubic yards taking up conduit, braces breaking, \$1,	2 25
	100000000000000000000000000000000000000
Carried forward,	\$61,546 27

10	61,546 27
Brought forward,	18 00
Brought to the Building plank dam,	11 25
6 days labor of teams, the	21 45
- C- man Silling 1	
6 days labor of teams, hauting turns Building plank dam,	\$61.602 08
Tatal	1
Estimate of the amount of work done on the cont Section No. 1, 11) to September 23d, 1851.	racts for
Estimate of the amount of work done on the Section No. 1, up to Suptember 23d, 1851.	Charles III
Section No. 1, up to Suptember 2005	#0 *00 1×
	\$3.738 15
41,535 cubic yards of excavation, 9c.,	6,561 44
237 cubic yards of puddling, 20c., 20c., 237 cubic yards of brick masoury in conduit 2,661.06 cubic yards of brick masoury, \$8, 275, 275, 275, 275, 275, 275, 275, 275	7,317 92
2,001.00 cubic yards of mass	77 60
&c., \$2.75,	SS 25
Cant stone musoury, \$20,	_ 00 40
111,558 feet of hemlock lumber, \$50.	5. 76 00
Was lost of ook houself and the second	
1 088 named wrought from WOLK, 120,	
2.36 acres grubbing and clearing, \$120,	_ ~~~
4 acres clearing and chopping, \$50,	- 200 00
48,000 hauled 2,000 feet, extra haul of brick, 50c.,	
17 cubic yards dry stone work, \$4,	- 68 00
15 cubic yards gravel under conduit, \$1.50,	22 50
Stone foundation at Sta. 26 and 27,	385 00
126 rods, making roads along section, 25c.,	31 50
127½ rods removing and putting up fence, 37½c,	47 81
362 rods fence, \$1.25,	453 12
Making road along section at Sta. 31,	2 00
331 rods, making road along section, \$1,	331 00
Thoral	-
Total,	\$25,195 40
	English of the latest of the l
The state of the s	
Estimate of the amount of work done on the	contract for
Receiving Reservoir, up to October 1st,	1831
76.965 0.1: 1 0	1091.
76,265 cubic yards of excavation, 12c., 5,660 cubic yards of embankment, 15c.	\$7 151 SO
5,660 cubic yards of embankment, 15c	940 00
1,067 cubic yards of gravel lining, 20c., 24,050 cubic yards of puddling, 10c	549 (10)
24,050 cable yards of puddling the	213 40
24,050 cubic yards of puddling, 10c., 63½ cubic yards of brick masoury in court	2,405 00
culverts &c & 22 25	and
61 cubic yards of brick mass and a conduit	244 47
61 cubic yards of brick masoury in house, \$3, 3 cubic yards of concrete masoury in house, \$3,	183 00
3 cubic yards of concrete masoury, \$4.50,	100 00
Carried forward	
Carried forward,	\$13,060 17

11	
Brought forward,\$1	3,060 17
13,113 feet hemlock and pine lumber, \$.0,	327 8 3 35 00
700 feet oak lumber, \$50, 67,158 brick, \$7,	470 10
2 days extra labor, \$1,	2 ()0 11 37
13 days extra labor, \$7\frac{1}{2}c.,	
Total,\$	3,906 47
The last of the la	
Estimate of the amount of work done on the contract structing Picket Fence at Bleecker Reservoir, up t 1st, 1851.	for Con- o October
2,000 lineal feet built, 22c.,	\$440 00
Estimate of the amount of work done on the contract for ting the Watervliet Lake Reservoir, up to October 1s	Construct-
3½ acres grubbing and clearing on the lake and ditches, \$1.50, ½ acre grubbing on the gate house, waste weirs, &c., \$200,	\$525 00
&c., \$200,	100 00
25½ acres chopping and clearing on the lake and disches, \$50,	1,275 00
27,000 cubic yards excavation on the lake and ditches, 12c.,	3,240,00
8,518 cubic yards excavation on the gate house, waste weirs, &c., 20c.,	1,703 60
67,900 cubic yards embankment on the lake and ditches, 11c.,	7,469 00
5,569 cubic yards embankment on gate house, waste weirs, &c., 1Sc.,	1,002 42
1,700 cubic yards lining on the lake and ditches, 12c.,	201 00
162 cubic yards lining on the gate house, waste weirs, &c., 30c.,	4S 60
weirs, &c., 30c., 5,200 cubic yards puddling on the lake and ditches, 12c.,	1,821 00
2,435 cubic yards puddling on the gate house, waste	The second second
weirs, &c., 25c., 98 cubic yards slope wall on the lake and ditches,	609 00
\$3,	294 00
weirs, &c., \$4,	183 00
121 cubic yards stone paving on gate house, waste	
weirs, &c., \$5, 10 cubic yards concrete masonry, \$7,	70 00.
18 cubic yards rubble stone masonry on the lake and ditches, \$10,	180 00
6 cubic yards cut stone masonry on the gate house, \$30,	180 00
Carried forward,	\$18,975 12

Brought forward, \$1	8,975 12
Brought forward,	001
Transporting and laying brick, including mortal, was 133½ cubic yards do. in gate house, \$6,	801 00
Transporting and laying bloom, \$6,	188 12
1334 cubic yards do. in culverts, &c., \$5.50,	1,785 ₀₀ 380 ₀₀
1483 cubic yards to. In brick, \$12,	300 00
38 cubic yards furnishing brick, \$10,	1,892 60
	1,002 00
13 531 teet nine allu spides	405 93
13,531 feet pine and spruce lumber of ditches, \$30,	239 50
2,395 feet oak lumber in gate house, \$100,	574 50
2,395 feet oak lumber in gate flottee, \$1.50,	25 50
102 rods removing old fence, 25c.,	123 50
102 rods removing old lence, 2003, 123½ days labor, \$1,	4 50
	187 (10
ZZII tong carting nines from Hoffii vaid, 5000)	7 00
7 tons carting pipes from south yard, \$1,	5 44
E. G. Otis' bill repairing old pipe, &c.,	7 50
2½ days labor with teams moving pipe layers, \$3,	25 62
1,281 stakes for engineers, 2c.,	
Hauling gates from Townsend's furnace,	1 00
7½ days Wm. Gray's bill for setting gates, \$2.75,	19 94
Townsend's bill for helping Gray,	7 88
800 pounds spikes in gate house, waste weirs, &c., 15c., 243 bushels charcoal in box around pipe at bridge, 184c.,	120 00
Setting wood chimney in the laboratoringe, 184c.,	45 56
Setting wood chimney in the lake over waste pipe, 7 pounds bolts in abutments to anothin	3 00
7 pounds bolts in abutments to sustain coal box, 15c., To Townsend's furnice twice for	1 05
To Townsend's furnace twice for wrench,	0 25
Sharpening drills (August),————————————————————————————————————	2 50
Taking down abutments to bridge near Otis', 31 days taking down abutments	6 00
31 days taking down abutments near lower dam, \$1.50.,	46 50
Carting gate rods to and from Townsend's,	2 00
Total,	\$25.883 51
the state of the s	,505 JI
Flatimate of 17	Part of the last
Estimate of the amount of work done on the 1st control Pipes, up to October 3d, 1851	12-1-1
Pipes, up to October 3d, 1851.	act for Iron
1,445 tons six inch pipes and under, also curves,	100 1111
branches for the pipes and under, also curves	100
branches, &c., \$47,	4000
200 tons eight, ten and twelve inch pince that so	\$67,915 00
638 tons eight, ten and twelve inch pipes, \$41.50,	26,477 00
320 tons sixteen inch pipes, \$42.50,	13,600 00
The state of the s	
Total,	

\$107,992 0

Estimate of the amount of work done on the 2d cond	tract for I	ron
450 tons of nines \$20	by On S. in.	00
The state of the s	576	80
Total,	\$18,126	80
Estimate of the amount of work done on the	2 (45)	
		for
WINDOW HUMBER OF ADOLES	\$630	00
4,200 pounds of wrought iron, 12c., 1,300 pounds of composition, 30c.	504	
1,300 pounds of composition, 30c.,————————————————————————————————————	390	
1,800 pounds of lead, 6c.,	108	
The state of the s	3/4	
Total,	\$2,004	50
Estimate of the amount of work done on the control		
cocks, up to October, 1st, 1851.	act for St	op-
EC. UUU DUURUS CAST Iron 21c	APPO	00
ZIIIII POMINGO WIONENIN IN IN INC.	1 676 3	00
	1811	
oo pourios comper. Julic.	15	00
1,200 pounds read, 05C	66	00
50 fitting up, \$5,	250	00
Patterns and extra work on fitting up,	5 00	00
co rough the conjunction of the property blog-	\$1,743	00
Deduct for charges for stop-cocks purchased, &c.,	863	27
Total,	\$879	73
THE PURPOSE OF PERSONS ASSESSED.		HEER
Estimate of the amount of work done on the contract for Water Pipes, up to October, 1st, 185	for Trenc 1.	he s
20 miles, \$1,500,	\$30,000	00
5,000 cubic yards of sand, 25c.,	1,250	00
Total,	\$31,250	00
Total,		
Estimate of the amount of work done on the 1st control	act for He	aul-
ing Pipes, up to August 11th, 1851.	Contraction of the	
on the Common control SOC	\$167	20
09 tons of pipes carted, 80c.,	." 00	50
15 tons of pipes carted, 50c.,	3	85
7 tons of pipes carted, 55c.,	42	40
tong of minor correct but	00	50
80 tons of pipes carted, 75c.,		
Total.	\$258	45
Total,		

On the 2d contract, up to September 16th,	1851.
On the 2d contract, up to	
	\$175 00
On the 2d contract, up 1 175 tons of pipes carted, \$1, 152 tons of pipes carted, Suc.,	121 60
152 tons of pipes carted, 500,	
Total,	\$2.660
CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	
On the 3d contract, up to September 23d, 1	1851.
90.	\$23 20
IIII tame of minor ourton (i)Consequence	
2/81 tong of pings curtoff (IlCure ====================================	110 95
283± tons of nines carted, 550	100 921
168½ tons of pipes carted, 50c.,	126 40
35 tons of pipes carted, \$1,	35 00
13 tons of pipes carted, 90c.,	11 70
123 tons of pipes carted, 50c.,	61 50
130 tons of pipes carted, 55c.,	71 50
4 tons of pipes carted, 75c.,	41 30 3 00
tons of pipes carted, 85c	- 51 00
56 tous of pipes carted, \$1,	56 00
The first of the second	
Total,	\$984 35
Oleman Street Contract Contrac	
The third division of the second resolution calls for quantity of each kind of work yet to be performed on the price to be paid therefor, and its aggregate cost a named, which is as follows:	each contract, t the price so
Littution	
170,000 brick one bale	
85,000, \$7, 85,000, \$7, 85,000, \$7.12,	\$595 00 605 20
85,000, \$7, 85,000, \$7, 85,000, \$7.12,	\$595 00 605 20
	\$595 00 605 20
85,000, \$7, 85,000, \$7.12, Total,	\$595 00 605 20 \$1,200 20
85,000, \$7, 85,000, \$7, Total, Retentive Reservair	\$595 00 605 20 \$1,200 20
85,000, \$7, 85,000, \$7.12, Total, Retentive Reservoir. 10,000 cubic yards of embankment, 90, 4200 cubic yards of embankment, 90, 170, 170, 170, 170, 170, 170, 170, 17	\$595 00 605 20 \$1,200 20
85,000, \$7, 85,000, \$7.12, Total, Retentive Reservoir. 10,000 cubic yards of embankment, 90, 4200 cubic yards of embankment, 90, 170, 170, 170, 170, 170, 170, 170, 17	\$595 00 605 20 \$1,200 20
85,000, \$7, 85,000, \$7, Total, Retentive Reservoir. 10,000 cubic yards of embankment, 9c., 200 cubic yards of puddling, 14c.	\$595 00 605 20 \$1,200 20 \$80 00 900 00
85,000, \$7, 85,000, \$7, Total, Retentive Reservoir. 10,000 cubic yards of embankment, 9c., 200 cubic yards of puddling, 14c.	\$595 00 605 20 \$1,200 20 \$80 00 900 00
Retentive Reservoir. 10,000 cubic yards of embankment, 9c., 200 cubic yards of slope wall, 63c., House for gate chamber,	\$595 00 \$595 00 \$1,200 20 \$80 00 \$900 00 588 00 126 00 100 00
Retentive Reservoir. 10,000 cubic yards of embankment, 9c., 200 cubic yards of slope wall, 63c., House for gate chamber,	\$595 00 \$595 00 \$1,200 20 \$80 00 \$900 00 588 00 126 00 100 00
Retentive Reservoir. 10,000 cubic yards of embankment, 9c., 200 cubic yards of slope wall, 63c., House for gate chamber,	\$595 00 \$595 00 \$1,200 20 \$80 00 \$900 00 588 00 126 00 100 00
85,000, \$7,.12, Total, Retentive Reservoir. 4 acres chopping and clearing, \$20, 10,000 cubic yards of embankment, 9c., 4,200 cubic yards of puddling, 14c., 200 cubic yards of slope wall, 63c., House for gate chamber,	\$595 00 \$605 20 \$1,200 20 \$80 00 \$900 00 588 00 126 00 100 00 \$1,794 00 125 00
85,000, \$7,.12, Total, Retentive Reservoir. 4 acres chopping and clearing, \$20, 10,000 cubic yards of embankment, 9c., 4,200 cubic yards of puddling, 14c., 200 cubic yards of slope wall, 63c., House for gate chamber,	\$595 00 \$605 20 \$1,200 20 \$80 00 \$900 00 588 00 126 00 100 00 \$1,794 00 125 00
Retentive Reservoir. 10,000 cubic yards of embankment, 9c., 200 cubic yards of slope wall, 63c., House for gate chamber,	\$595 00 \$605 20 \$1,200 20 \$80 00 \$900 00 588 00 126 00 100 00 \$1,794 00 125 00

	19		
5	Sections Nos. 2 and 3 of Conduit.		
100/00/00	1,800 cubic yards of excavation, 13c., 1,500 cubic yards of embankment, 16c., 14,500 cubic yards of embankment, 10c., 3,500 cubic yards of brick masonry, \$2.85, 45 cubic yards of brick masonry, \$2.90, 45 cubic yards of brick masonry, \$2.90, 10,000 feet, (board measure,) lumber, \$35, 10,000 feet, (board measure,) lumber, used second time, \$17.50, 1,700 pounds of wrought iron, 12c., 8 cubic yards of cut stone masonry, \$25,	\$234 00 2,320 00 350 00 855 00 130 50 350 00 1,312 50 204 00 200 0	0
	Deduct charges for cement furnished, &c.,	\$5,956 0 1,000 0	0
	Total,	\$4.956 Q	0
		#/ 1 /1/30	=
	Receiving Reservoir.		£ .
	6 000 cubic yards of excavation, 12c.	\$720 0	00
	g sufficient varus of embankment, 15c	U03 (00
	foll copic varus of pinturing, 10c.,	60 (
	1,300 cubic yards of gravel lining, 20c.,	26) (00
	Total,	\$1,865 (00
		CHARLE D. CO.	
	Watervliet Lake Reservoir.		
7	7,700 cubic yards of embankment, 11c.,	\$847	00
1	,600 cubic yards of excavation, 12c.,	193	
3	,000 cubic yards of excavation, 20c.,	600	
	100 cubic yards of lining, 12c.,		
1	700 cubic yards of puddling, 12c.,		
	13 cubic yards of slope wall, \$4,		
10	rods of fence, \$1.50,	15	
5,0	000 feet (board measure.) lumber, \$40,	_ 200	
Ha	use on gate chamber, \$75.	_ 75	
Wi	ndows doors Ara CAN	4()	00
38,I	UUU brick to be laid, \$2,	- 76	00
Mo	ving wooden trunk, \$30,	_ 30	00
	the last of the la	\$2,476	00
Jed	nct for work embraced above, which is not required to be done at present,	850	00
	Total,	\$1,626	00

First contract for Cast Iron Pipes.	
200 tons of pipes, \$47,	\$9,400 00 - 2,490 00 - 3,485 00
Deduct for charges for unloading, &c.,	\$15,375 00 - 1,000 0 0
Total,	\$14,375 00
Second contract for Cast Iron Pipes.	OF THE PARTY OF TH
50 tons of pipes, \$39, Deduct for charges for repairs and unloading, &c.,	\$1,950 00 500 00
Total,	- \$1.450.00
2 hydrants, \$12,	
2 hydrants, \$12,	\$24 00
	\$24 00
Hydrants. 2 hydrants, \$12, Trenches for Water Pipes.	\$24 00
Hydrants. 2 hydrants, \$12, Trenches for Water Pipes. 7½ miles of trench, \$1,500, 1,000 cubic yards of sand, 25c.,	\$11,250 00 250 00 \$11,500 00

The fourth division of the second resolution calls for a statement of the items composing the \$33,000, styled "contingencies, &c.," in the estimate of August, 1850.

The word "contingencies" was used in that estimate to provide for such occurrences as could not be anticipated, classified, and estimated upon by items, and as an indefinite series of events, each differing from the other, were liable to occur, and thereby render the expenditure of that sum necessary, it would be absurd now to name either specific series, as that on which the estimate

The resolution, however, calls for the estimated cost of engineering, superintending, &c. which is erroneously supposed in the resolution to have been embraced in the item of contingencies.

The estimated cost of these items was merged in the general estimate, and cannot now be furnished separately.

The resolution further calls for the actual sum paid on account of these items of engineering, superintending, &c.; and although it does not explicitly call for any other expenditures than those which are embraced in the several contracts, yet I have deemed it which are embraced in the following statement of all the expenditures proper to furnish the following statement of all the expenditures which have been made for the work, which have not been already which have preceding statements; and also in a subsequent place given in the preceding statements; and also in a subsequent place in this report, to furnish an estimate of the cost of completing the works in the same manner as the resolutions call for on that part which is under contract.

Statement of the expenditures which have been made for Engineering, Superintending, and all other items which have not been already given in the preceeding part of this report.

been arready 8			-	
Engineer's pay,			\$8,048 75	
	reams, exca	ava-	070 71	
Miscellaneous sard building sluices,	or's office		879 71	
Clerk hire in engineer and commission	er s timee,		429 62	
Stationery, maps, &c.,			266 87 132 67	
Office furniture,			440 57	
Office expenses, creaming, rues, and gas	,	10.	2,288 06	
Inspector's pay,			1,585 19	
Purchase of bricks, and hauling same,			7,071 22	
Proving and laying down pipes,			19,629 09	
Proving and laying down pipes,			905 14	
Stop-cocks and hydrants,	35101		774 38	
Making fences, Damages,			50 00	
			30 00	,
Land and water:				
Payment to S. Van Rensselaer for	*****	00		
creek and land,				
J. Van Rensselaer for land,	1,500			
James Edwards for land,	2,500			
Benjamin Van Arnam for land,	3,377			
Richard H. Ogden for land,	1,500			
Stephen Van Rensselaer for land,	2,200	81		
P. Grattan for land,	300	00		
J. Lewis and others for land,	500	00		
Money on deposit in Commercial Bank				
by order of Supreme Court, in				
favor of James Taylor, cashier, -	1,379	25		
Payment to Albany & Schenectady	1,013	~0		
Railroad Company & Schenectary	200	00		
Railroad Company for land,	300	00		
Isaac Edwards for services to procure	200	~ =		
lands,	609	95		
G. L. Wilson for services in referee				
Case.	25	00		
Grattan for extra land				
required by changing line of con-				
duit,	400	00		
	400	00		
Total for land and	molecu mark	17-00	104 000	ud
Total for land and water damages,.			164,692	69
		36. 3	No. of Lot	-
Carried forward,			\$207,193	96
2			C. Carlo	142

	- Ut
Brought forward, Payment to old Water Works Company,	\$207,193 96 114,600 00
instrance.	9 09 4 37 7 30
Superintendence of old water works, Horse, collection, tools, taxes for old wa-	5 00 17 85
Service-cocks for houses,	7,078 61
Total,	
Estimate of the expenditure necessary for E intending, Proving, Inspecting, and Laying and Hydrants, &c., for the completion of the	Ingineering, Supers g Pipes, Stop-cocks, he work.
Engineering, office rent and stationery, Superintending, Proving and laying pipes, cocks and hydrants Turfing banks,	\$1,000 00 \$00 00 \$, 6,000 00 1,000 00
Total,	\$8,200 00
The recapitulation called for by the fifth d resolution, showing the estimated cost of the pipes, &c., is as follows:	reservoirs, conduits
Junction reservoir, Conduit and grading,	110.550 00
Enlarging pond at foot of Tivoli falls,	25,400 00
Extending pipes from the lower to the uppe Tivoli,	5,000 00
Distribution pipes, stop-cocks, hydrants, &c. Contingencies, &c., 10 per cent. on \$330,00	140,000,00
the second secon	\$261.060.00

The resolution also calls for a recapitulation of payments made on account of each of the several divisions named.

The preceding division of the resolution calls for the actual quantity of each kind of work already performed under each

contract, and the aggregate cost of the same.

A recapitulation of the latter is not called for by the resolution, but will be given in a subsequent part of this report.

anal navments which have been	made on
each of the or brick, Sept. 20th, 1664, 1664, 17 First contract for brick, in full, 1851,	made on \$5,506 40 1,335 66 8,680 95 9,507 46 49,558 76 22,862 81 10,096 13 18,412 10 76,342 45 12,689 99 771 83 17,763 48 206 76
Stop-cocks, Trenches for water pipes, Sept. 2d, 1851, Trenches for hauling water pipes, Sept. 2d., 1851, First contract for hauling water pipes, Sept. 26th, '51, Second contract for hauling water pipes, Sept. 16th, 1851,	237 28 787 19
Second contract for hauling water pipes, Sept. 1011, 1995,	\$234,759 25
A recapitulation of the aggregate cost, at the contract the work already performed under each contract, is as First contract for brick,	\$7,168 00 1,335 66 10,050 30 13,159 87 61,602 08 25,495 40 13,906 47 440 00 25,883 51 107,992 00 18,126 80 2,004 50 879 73 31,250 00 258 45 296 60 984 35
Total,	\$320,833 72
The aggregate expenditure which has been made	e on account of

The aggregate expenditure which has been made on account of engineering, superintending, laying pipes, land, and water, and all other items, which have not been given in the above statement, is:

The resolution also calls for a recapitulation of the e amount which will be required to complete each brane amount which will be required to complete each brane work as enumerated, being that portion under contract,	stim _{ated} h of the which is
C-11	\$595 00
Second, completed,	#333 00
Second, completed, Third contract for brick, Retentive reservoir, Retentive reservoir,	1665 20
Retentive reservoir,	1,669 00
Sections 2 and 5	4) 00h 00
Section 140. 1, or	100.
Receiving reservon,	1,865 00
Watervliet Lake reservoir,	240 80
First contract for cast from pipes,	$1,626 \ 00$
	1,450 00
Hydrants,	24 00
Stop-cocks completed, Trenches for water pipes, First, second, and third contract for hauling water	~4 00
Trenches for water pipes, for banks	11.500 00
	,-00 00
pipes,	750 00
Total,\$	
Lotal,	39,656 00
A second design and are presented and the restaurant	, 3,, 00

The aggregate expenditure which will be required to be made to complete the work, for engineering, superintending, laying pipes, and including all the items which have not been given in the above statement, is ----

The first resolution requires a report in detail of the expenses incurred, and which were not contemplated or authorized, prior to

It is impracticable now to state, with any degree of accuracy, all of the items which were not contemplated at any particular.

date, during the progress of the work.

The changes which have been made in the location and plans of the work since the estimates were made, which I had the honor to submit to you in August, 1850, and the extra expenses which have been caused by such changes, are as follows:

Sections Nos. 2 and 3.

Tion and J.	
Extending Conduit to upper dam, altering line for Rai pany, Foundations and Protections, increased Dim Excavation, and extra Ditches.	lensions of
2.50 acres chopping and clearing, \$50, 1.25 acres grabbing and clearing, \$125, 7,000 cubic yards excavation, 7c., 39,200 cubic yards excavation, 13c., 4,700 cubic yards embankment, 10c.,	\$125 00
Carried forward,	\$6,337 25

\$6,337 25

Brought forward, 610 cubic yards brick masonry, \$2.90, 610 cubic yards brick masonry, \$2.85, 603 cubic yards 57.06, 668,000 bricks, \$7.06, 617,000 feet lumber, used second time, \$17.50, 320,000 feet lumber, used second time, \$17.50, 250 cubic yards gravel in foundation, \$1.50, 250 cubic yards spike and nails, 12c., 6,400 pounds spike and nails, 12c., Total, Total,	1,769 00 1,433 55 4,716 08 18,095 00 5,600 00 375 00 768 00 129 00 \$39,222 88
Increased dimensions of Excavation and extra Ditches and Protections, and extra cost of new lines. 13,300 cubic yards excavation, 9c., 5,000 cubic yards embankment, 16c., 170 cubic yards brick masonry, \$2.75, 170 cubic yards brick masonry, \$2.75, 92,700 feet lumber, \$50, 92,700 feet lumber, \$50, 900 pounds spike and nails, 12c., 3 culverts, \$103, Extra damages paid P. Gratton, Expense of moving fence, Total,	\$1,197 00 800 00 467 50 621 28 4,635 00 108 00 309 00 400 00 27 00 \$8,564 78
The extra cost of the Watervliet Lake reservoir, is_ The extra cost of the distribution pipes, stop-cocks, is as follows: Of the pipes delivered, and to be delivered,	and hydrants,
The extra cost of land, is as follows: For Rensselaer lake, For conduit, For Bleecker reservoir, Total,	\$3,328 49 1,379 25 1,000 00
Extra payment to old Water Works Company, Extra expenses, being the cost of brass cocks, repairs of old works, and superintendence, a water rates, &c., The above statement includes some items of expenses on the statement and authorized prior to the 17 1851, which are as follows:	repairs of mills, and collection of \$5,846 24

5,800 cubic yards of emissionry, \$2.90,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
370,000 bricks, \$7.00,	462 20 48 00
2.50 acres chapting and clearing, \$125,	125 00 156 25 \$6,048 45

In addition to the items last above enumerated, the prosecution In addition to the fichies developed difficulties which could not the works has daily developed difficulties which could not of the works has daily not reasonably have been anticipated, whereby the cost has been large reasonably have been difficulties were partially developed partially developed by These difficulties were partially developed prior to ly increased. These different particular extent it is not now practicable to say with accuracy.

The remainder of the items were either not contemplated on the 17th of April last, or they are so connected with other work not contemplated at that date, that it is impracticable to separate them

at this time.

In conclusion, it may be proper to add, that previous to the receipt of this call for so much detailed information, I was engaged in preparing a statement, which will embrace a very full account of the whole work, with the plan originally submitted, and such changes as have been deemed expedient and have been directed, together with such details as are necessary to explain the reasons, which were assigned to, and suggested by your Board, and which influenced your decisions; and also the benefits which will accrue

It will also give a narrative of the obstacles which have been interposed and the difficulties which have been encountered in the progress of the work, the manner in which it has been executed, its capacity, utility, and cost, as compared with similar works.

In a few weeks the work will be entirely completed, and this statement can then be made so as to furnish, in a convenient form, all the information which may be desired, to show how the important trusts which have been confided to your care, and executed by your agents, have been discharged, and which cannot be communicated in categorical answers to calls for information on partial and detached branches of inquiry.

All of which is respectfully submitted,

WM. J. McALPINE,

Engineer.

WATER COMMISSIONERS' REPORT.

To the Hon. the Common Council.

The undersigned, Water Commissioners of the city of Albany, in compliance with the request contained in the resolution passed

by your Board on the first instant, as follows:

"Resolved, That the Water Commissioners be requested to re"port to this Board the amount of indebtedness incurred for the
"purpose of supplying the city with water; the amount paid and
"to be paid under each contract, and to whom paid; the estimate
"of each contract, when executed; the amount paid for extra work;
"how much work remains to be done; and how much, in their
"opinion, it will cost to finish the whole work,"

RESPECTFULLY REPORT:

That the above recited resolution requires answers to several distinct matters which may be classified as follows:

1st. The amount of indebtedness incurred in supplying the city with water;

- 2d. The amount paid under each contract, and to whom paid;
- 3d. The amount remaining unpaid under each contract;
- 4th. The estimate of each contract, when executed;
- 5th. The amount paid for extra work;
- 6th. The work remaining to be performed;
- 7th. An estimate of the expenditures required to complete the whole work.

These several interrogatories will be answered in the order above recited.

First. The amount of indebtedness incurred in supplying the city with water.

A statement has been prepared and is hereto annexed marked A, which contains a list, under general heads, of the entire amount of debt incurred by the Commissioners for supplying the city with From an examination of this statement it will be perceived that

the aggregate is, _____ From this there should, however, be deducted, the same being chargeable to repairs, the sum of ___ 8,398 96 Leaving a total of _____ \$751,583 16 If from this amount is deducted the sum of_____ 650,000 00 borrowed by the city for the work in question, and it will leave, as the sum now required to discharge existing obligations, _____ \$101,583 16

Second. The amount paid under each contract, and to whom paid.

Statement B contains all the information desired under this head, the names of the contractors, the nature of the work, and the amount paid to each, being contained therein. The only contractor who has not received his pay direct from the Commissioners is Daniel Wormer; the estimates for work performed under his contract have been paid to his sureties, Messrs. Adams and Livingston.

Third. The amount remaining unpaid under each contract. Statement C contains the names of the several contractors to whom the city are at this time indebted, and the amount due to each, amounting in the aggregate to the sum of \$71,579.66. A part of the work performed by two of the contractors has not been definitely decided upon, and when so decided may increase the above amount one thousand or fifteen hundred dollars.

Fourth. The estimate of each contract when executed.

Statement D contains the estimates made at the letting of the contracts for the Retentive reservoir, Receiving reservoir, Conduit, Watervliet Lake, Gate house, Trenches, Stop-cocks, and Hydrants. No estimates were made of the pipe contracts, the price per ton being the only question necessary to determine the value of the No extra allowance has been made to any of the contractors; in some cases work has been performed by them which was not provided for in their contract, and for performing the same the engineer has allowed them what he considered a just and fair equivalent.

Sixth. The amount of work remaining to be done.

Seventh. An estimate of the expenditures required to complete the whole work.

the whole the Superintendent, Mr. McCammon, has prepared a report which is herewith submitted, marked E, which contains a complete list of all the water pipes laid down during the past season; the water pipes heretofore laid by the old Water Works Company; the quantity of pipe required during the present year to furnish the paved streets with water, together with much other information.

i budrants will also be required, and that bot	ii wiii cost,
ditional hydrants will also be required, and that bot when put into the work, the sum of when put into the work, the sum of	\$31,985 80
10 TOTAL TOT	
	5,000 00
a Danggolger Lake Uilliannennennen	1,000 00
Facing for Watervliet Lake dam,	425 00
Facing for Waterville Edite State, Keeper's house at Rensselaer lake, Keeper's house at Rensselaer lake,	350 00
Keeper's house at Kensselaer lans,	2,000 00
Keeper's nouse at Honoson. New dam for supplying mills,	1,160 00
New dam for supplying interest lake,	1,100 00
Waste-weir at Watervice Rans, Covering conduit and Rensselaer lake with sod,	3,438 05
Fencing line of conduit,	3,979 20
Fencing line of conduit, Contingencies,	
Making a total of already	\$50,438 05
Making a total of already	
· 11 d the indediculous	
	751,583 16
ment A,	
laing the city	
it will make the total cost for supplying the city	\$802,021 21
with water,	
WILLI Water,	

The Commissioners having thus furnished the Board with the information required by the resolution hereinbefore recited, would, in conclusion, urge upon the Common Council the importance of

taking such early action in the premises as will enable the Comtaking such early action in the premises as will enable the Commissioners to discharge promptly all claims now existing for mate. rials furnished or for labor performed.

ERASTUS CORNING, JOHN TOWNSEND, JOHN TAYLOR, R. E. TEMPLE, v. TEN EYCK, Water Commissioners. STATEMENT, showing the total amount and nature of the sincurred by the Water Commissioners, in supply-indebtedness incurred with water.

Sindebleanes of Albany weeks		
indeblednes of Albany with a detail ing the city of Albany with a detail in the city of Albany with a detail ing the city		Amount.
and of work.		
Receiving reservoir,		\$15,493 18
Retentive reservoir,	doe cor cr	19,302 69
Releiving reservion No. 1,	\$25,027 05	
Retentive reservoir,	71,617 91	
Collus 10015		97,245 56
Watervliet lake,		29,540 20
tarvliet lake,	\$158.548 42	70 40 20
Watervliet lake, Iron pipes, Stop-cocks,	2 296 00	
Iron pipes	5,020 99	
a n Ciluadi	3.1195 24	
rivitallis, - of nine	5.341 111	
Proof alla more pines.	23,369 27	
Laving down water pros,	2,367 40	
Laying down water pros,Hauling pipes,	16 222 06	
Hauling pipes, Digging trenches,	46,223 06	044 040 00
		244,319 39
Printing and advertising,		1,585 19
Repairs of factories,		2,342 12
Insurance and taxes,		740 31
Insurance and taxes,		
Superintendent and Deputy's salary,		$1,625\ 00$
Repairs of works,		1,307 78
Cement,		2,701 53
Incidentals,		
Construction,		
Engineering,		10,254 96
Office expenses,		. 1,879 43
Bricks,		. 24,187 11
Sundry accounts		6 257 70
Sundry accounts,	0.1.1.1	6,357 79
- and water, inclining the wy si	III to he haid to	
S. Van Rensselaer,		281,940 64
		, , , , ,

\$759,982 12

STATEMENT, showing the names of the several contractors, nature of the work performed, and the amount paid on each contract.

Nema		CONTRACTOR OF THE PARTY OF THE
Name.	Nature of work.	Amount,
Andrew Bigham,	detentive reservoir,	15,129 67 61,807 86 23,862 81 10,233 59 7,151 40 112,147 30 15,884 09 23,291 60 206 76 1,136 30 475 06 30,498 54 771 83
P. McCall,		

(C.)

STATEMENT, showing the names of the several contractors, nature of the work performed, and the amount due on each contract.

Name. Nature of work. Amount. Aspinwall & Jackson,	contract.		
Andrew Bigham,	Name.	Nature of work.	Amount.
A. G. Sage, Conduit, Secs. 2 and 3, W. J. Marlett, Bricks, 1,764 84 999 31	Aspinwall & Jackson,	Receiving reservoir,	\$2,817 52
W. J. Marlett, Conduit, Sec. 1, 1,764 84 D. Wormer, Bricks, 27,063 22 R. & S. H. Jones, Iron pipe, 3,453 81 E. H. St. John, Watervliet lake, 6,248 60 E. H. Tracy, Digging trenches, 15,136 46 A. T. Dunham, Stop-cocks, 1,387 35 Chollar, Sage & Dunham, Hydrants, 1,364 63 Simon Cunliff, Hauling pipe, 241 17	Andrew Bigham,	Retentive reservoir,	984 59
W. J. Marlett, Conduit, Sec. 1, 1,764 84 D. Wormer, Bricks, 27,063 22 R. & S. H. Jones, Iron pipe, 3,453 81 E. H. St. John, Watervliet lake, 6,248 60 E. H. Tracy, Digging trenches, 1,387 35 Chollar, Sage & Dunham, Stop-cocks, 1,387 35 Chollar, Sage & Dunham, Hauling pipe, 241 17 Richard Middleton, Hauling pipe, 241 17	A. G. Sage,	Conduit, Secs. 2 and 3,	9,810 05
D. Wormer, Bricks, 27,063 22 R. & S. H. Jones, Iron pipe, 3,453 81 E. H. St. John, Watervliet lake, 6,248 60 E. H. Tracy, Digging trenches, 15,136 46 A. T. Dunham, Stop-cocks, 1,387 35 Chollar, Sage & Dunham, Hydrants, Hauling pipe, 241 17 Richard Middleton, Hauling pipe, 241 17			1,764 84
Chollar, Sage & Dunham, Iron pipe,			999 31
R. & S. H. Jones, Iron pipe, 3,453 81 6,248 60 E. H. Tracy, Digging trenches, 15,136 46 A. T. Dunham, Stop-cocks, 1,387 35 1,364 63 Simon Cunliff, Hauling pipe, 241 17			27,063 22
E. H. St. John,			3,453 81
E. H. Tracy, Digging trenches, 15,136 46 A. T. Dunham, Stop-cocks, 1,387 35 Chollar, Sage & Dunham, Hydrants, 1,364 63 Simon Cunliff, Hauling pipe, 241 17	E. H. St. John.	Watervliet lake	
A. T. Dunham, Stop-cocks, 1,387 35 Chollar, Sage & Dunham, Hydrants, 1,364 63 52 08 Richard Middleton, Hauling pipe, 241 17			100 16
Chollar, Sage & Dunham, Hydrants, 1,364 63 Simon Cunliff, Hauling pipe, 241 17			· DOW OF
Simon Cunliff, Hauling pipe, Simon Cunliff, Hauling pipe, Hauling pipe, Hauling pipe, Hauling pipe, Simon Cunliff, Hauling pipe, Hauling pipe, Hauling pipe, Hauling pipe, Simon Cunliff, Hauling pipe, Hauling pipe, Hauling pipe, Simon Cunliff, Hauling pipe, Hauling pip	Chollar Sage & Dunham	Hydrante	4 004 (11)
Richard Middleton, Hauling pipe, 241 17	Simon Cunliff	Hauling wing	1 20 00
teletiala inidatetori, [liadillig [npc,	Richard Middleton	Hauling pipe,	041 119
James W. Jackson, Hauling pipe,	Towns W. Trolling	. Hauting pipe,	0 0 00
	James W. Jackson,	Hauling pipe,	- 250 00

(D.)

STATEMENT, showing the original estimates made stimates of the contracts for the several works therein specific plants of the contract for constructing Retentive research specific plants and clearing, \$75.00, 2 acres grubbing and clearing, 20.00, 20 cubic yards excavation, 0.08, 20 embankment, 0.09, 20,000 cubic yards excavation, 0.14, 21,000 slope wall, 2.13,	ervoir. \$150 00 400 00 1,600 00 1,350 00 1,540 00
1,400	\$8,022 00
santract for constructing Receiving r	eservoir.
Estimate of contract for constructing Receiving r. 70,000 cubic yards excavation, \$0.12,	150 00 2,000 00 2,800 00
Estimate of contract for digging Trench 27 1540 miles of trenches, \$1,500,	- "4,825 00 \$45,762 37
Dotantin	reservoir.
Estimate of contract for gate-house at Retention 500 cubic yards excavation, \$0.12, 500 "embankment, 0.15, 300 "puddling, 0.18, 40 "concrete mas'y, 5.00, 30 "cut stone, 15.00, 12 "brick masonry, 3.00, 150 "brick masonry in conduit, &c., 10,000 feet pine lumber, \$18, 7,000 "oak lumber, 30,	54 00 80 00 200 00 450 00 450 00 450 00 180 00
Auto Burney	\$1,790 0

Estimate of contract for constructing Watervliet lake.

	1911 o	Viret 1.1
2 acres grubbing and clearing,	\$150.00,	vliet lake.
5 " chopping and clearing,	50.00	\$200
15,000 yards excavation,	00.00	من النادية
70,000 " embankment,	U.LA.	~500 Oc
25 000 " 1: :	Usi Lamana	1,000
35,000 " lining,	0.12	7,700 00
15,000 " puddling,	0.12,	4.200 00
25 " concrete masonry,	0.12	= > ~ () () ()
7 " cut stone, ",		1,000 00
out Biolic,		1/5 00
	3.50,	140_{00}
1,000 feet timber,	30.00	350
house,	30.00,	300 (11)
doors de		-00 ()
doors, &c.,		100 00
100 yards brick masonry,	\$12.00	75 00
	\$12.00,	1.200
		$1,200 \ 00$
		\$18,270 00
		00

Estimate of contract for constructing Stop-cocks.

30,000 pounds cast iron	\$0.021	
1,300 " wrought brass,	iron, 0.12, \$1,	$\begin{array}{cccc} 050 & 00 \\ 360 & 00 \end{array}$
3,000 " lead,' Fitting 70 stop-cocks,	5.00.	390 00 180 00 350 00
	\$2,	330 00

Estimate of contract for furnishing Hydrants.

100 pounds	cast iron	ΦΩ ΩΩ	6 garanes.		
20 " 5 " Fitting,	wrought iron, brass,	0.30,		1	00 40 50 00
			-		-

Estimate of contract for constructing Sec. No. 1 of Conduit.

1 acre	grubb	IIIII on a l	ucting Nec. No. 1 of	
700.5	CHUIC	yards excavation,	\$125.00,	\$125 00
,000		embanlera	0.09,	2,700 00
1,000	66	puddling,	0.16,	800 00
30	66	stone pavemen	0.20,	200 00
2,500	"	brick masonry,		150 00
		,	2.75,	$6,875\ 00$

\$10,850 00

Estimate of contract for constructing Sec. No. 2 of Estimate of contract for constructing Sec. No. 2 of Estimate of contract for constructing Sec. No. 2 of Estimate of contract for constructing Sec. No. 2 of Estimate of contract for constructing Sec. No. 2 of Estimate of contract for constructing Sec. No. 2 of Estimate of contract for constructing Sec. No. 2 of Estimate of contract for constructing Sec. No. 2 of Estimate of contract for constructing Sec. No. 2 of Estimate of contract for constructing Sec. No. 2 of Estimate of contract for constructing Sec. No. 2 of Estimate of Contract for constructing Sec. No. 2 of Estimate of Contract for constructing Sec. No. 2 of Estimate of Contract for constructing Sec. No. 2 of Estimate of Contract for Constructing Sec. No. 2 of Estimate of Contract for Contra	
	\$13,695 00
Estimate of contract for constructing Sec. No. 3 of acre grubbing and clearing \$125.00,	\$125 00 1.120 00
	\$7,265 00

(E.)

STATEMENT showing the quantity of water pipe stand to be laid; pipe laid by the old water works laid, and; hydrants, and estimates to complete the standard laid, and to be laid, pipe laid by the old water works laid, any; hydrants, and estimates to complete the whole work.

SUPERINTENDENT'S REPORT.

To the Water Commissioners.

GENTLEMEN,

The Superintendent would offer the following report, in answer The Superior of the Common Council asking for information:

1st. Account of pipes laid during the year 1851, including old 12 in. iron pipe leading from Watervliet lake and making part of the new works.

Streets.	From.	To.	Size.	Feet.
Arch,	Broadway	South Pearl,	6 in.	1,400
"		DOCK	4	225
	South Pearl		4	625
Alexander,	Clinton	End of pipe,	3	332
Bassett,	South Pearl	Broadway,	4	1,403
Bleecker,	Church	Franklin,	3	917
Beaver,	Eagle	William,	4	868
	Hodge		4	3,176
	Lydius		4	2,601
	North Pearl			1,400
	Hawk	Swan,	4	626
Catherine,	Clinton	End of pipe,	. 3	485
Centre,	Lumber	North Lansing.	_ 3	506
ouerry,	H'ranklin	Church	3	900
onulcii,	Prilitrn	IRaccott	. 4	2,738
	NOTIFI POSTI	1 W 2 tor	/	1,555
Columbia,	Montgomery	Eagle.	8	1,319
66	"	Duay		375
Clinton,	Arch	Nucolla	- 4	1,277
	THOIL	, jivucena,	-1 -	1 -,~!!

	Streets.	From.	To.	Size.	Feet.	
		Brought	forward,		-	
	Cross,	Canal	Orange,	4	22,7	28
	Dallius,	Lydius	Bassett,	4	2,2	67
	Dewitt,	Hudson Broad way	Montgomery	4	1,0)44
	Division,	Green	Quay,	4	I Liph	797
	Dove,	State	Washington.	1 1		850
	"	Lydius	Jefferson,	1		435 193
	Eagle,	Columbia	connection with)	1	120
	"	State	12 inch pipe Elm,			556
	Elm,	Grand	Eagle,	- 4	2	,040
	Elk,	Eagle	Hawk,	- 4		930
	North Ferry,	Montgomery	to hydrant,	- 4	_	712 243
	First,	Ten Broeck	Swan,	- 4	1	,163
		Lydius	John,	- 4		832
	((Arch	Dlair.		17	1,293
		Lydius			3	615
		State			8	1,473
	"	LydiusArch	Bassett,		6 4	1,325
	Grand,				4	910
		Lydius			4	2,479
	Hawk,	- 'm			4	1,130 2,547
		1~ 1			4	522
	Hamilton,			_	4	435
	"	Grand			4	1,511
	Herkimer,				4	1,206
	Howard,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			4	300
	Hodge,				4	124
	Hudson,		Green,		4	810
		Eagle			4	710
	High,				3	1,519
	Jackson,				3	388
	Jay,	Eagle	Hawk.		3 4	710
	John,	Church	Franklin		3	931
	Jofferson	Eagle	Dove		3	2,171
	Jefferson,	State	Schen's Tu	rn'k	4	570
	Knox,	State	Tumber	111 11,	4	333
		Third	Lumber,		8	1,970
	lark	IWashington	Lyulus,		4	1,113
	Lafayette,	Park Place	Swan,			900
	Lawrence.	Broadway	Montgomer	y,	3	923
	Lansing South.	!Franklin	Church,		0	5,574
	Lumber	Water	Snipe,		1 - 6 - 7	1,910
	Lydius,	Broadway	Grand,		8	
	Lyurus,	Grand	Lark		6	3,569
		Manu			1 35 .	000
		Coming Comm	ard			75,000
		Carried forward	ard,	44		

Streets.	From.			
	Rear	To.		
Lancaster, Lodge, Liberty, Linsing, Sout Lansing, Lane, Maiden Lane, May Loutgomery,	Eagle Columbia Pruyn	forward,	Size.	Feet.
Lancaston,	Columbia Pruyn th. Water	Hawk,		
Loggery,	Pruyn	Beaver,	3	75,000
Lipotony, South	Pruyn th, Water Dean Steuben	Broad	4	715 1,464
Maiden Lane,	Stoubor	Quay ay,	4 4	690
סייוטוער	Clinton	North To	4	1,196
11-0PPV			4	200
Mulderry, Nucella,	66	Broadway.	3	3,440
Nuceria,	Water	Clinton,	4	1,135
Darks	WaterStateNorth Pearl	Lanes pipe,	4 4	648
patroon,	- Portin Pearl	III Justell	3	2,490
"		11/4	4	490
6	Snipe State	Broadway,	6	1,150 355
Pearl, North,	131210		6	850
Pearl, South,	Lydius	Nucella.	10	1,830
	Nucella Liberty	Gansevoort	6	2,600
Pruyn,	Liberty	Church,	4 4	275
Park Place,	Spring Broadway	Lafayette,	3	313
Quackenbush,	Broadway	Water,	6	428 590
				2,279
Relissulation		II illingh		1,157
Roull,	Sch'y Turnpike,	Patroon,	6	1,000
Rose,	Hamilton	Lydius,	3	370
Schuyler,	Clinton Ten Broeck	Green,	4	1,010
Second,	Woter	Lark,	3	2,369
Spencer,	Water	Know	4	538
Spring, Upper, -	Dove	Darl Dlace	3	1,443
	Swan			1,121
State;	Eagle	Drandway	12	
"	Lodge	Broadway,	10	1,155
	Quay	17	6 4	3,611
"	Eagle	Knox,	of the Party of	428
" North side,	65	Loage,	4	695
23 23	Lodge	James,		338
Steuben.	iMontgomery	Quay,		1,300
				370
				642
Sman	State	Lafayette,	- 4	537
owall,	Canal	Patroon,	- 4	
m	Patroon	Lumber,		$\{ 2,836 \}$
Ten Broeck,	Patrooll	66	- 4	2,987
" 2d line,	"	Kuox	- 3	320
Third.	Ten Broeck	Broadway	3 3 3	960
Van Tromp	Pearl	Oroge	1	342
Van Sahanak	Pearl	Dearl	4	042
Van Schaack,	Broadway			104 761
Van Woert,	Diouana	d		124,761
	the state of the s	d		

Street.	From.	To.	Size.	Feet.
Van Zandt, Vine, Washington, Water, Wendell, Westerlo,	Pearl, North " South Broadway Eagle Park Place Steuben Howard Howard	Philip,	3 4 12 4 4 3	124,761 690 847 207 3,000 4,253 2,559 283 1,923 500 600
	Miscell	aneous.		
Lydius, South side T'ur'e From stop-cock, Fromgate-house	Bleecker reserv'r Knox Watervliet lake	Lark, Robin, Patroon,	- 16 - 4 - 12	424 5,654 1,758 8,437 1,369
	'Total,			157,265

Making 29.78 miles.

RECAPITULATION.

			Feet.
16	inches		5,654
12	44		13,234
10	"		2,985
8	66	*	7,228
6	"		20,763
4	"		82,926
3	66		24,475
		100	157,265

2d. Account of pipes, branches, &c., on hand at the Water-works yard.

=	No. Pipes, &c.	Size.	No.	Pipes, &c.	Size.
	Pipes, &c.,		5	Plugs,	3 inch.
	20 ("	12	2 32		
	6 (10	12	Curves,	3 "
	8 "	6*		Total Course	4.75
26 26		6†	4	Bevel hubs,	1000
13		4*	00	Q- 1	2 "
179		4†	20	Curved pipes,	0
47		3* 3†	3	The state of the s	6 "
4(2†	6	Reducers,	12 to 10
14		21	1	"	10 to 6
65	Hydrant bends,	10000	7	((8 to 6
	I I I I I I I I I I I I I I I I I I I	361	1	"	6 to 4
2	Two way branches	12×12	i		4 to 3
1	66	6×4	2	((4 to 2
5	66	4×4	1	"	3 to 2
6	44	4×3	-100	SENTEN TEACHER	1 1 1 1 1
1	"	3×3	8	Hydrants,	1700
8	One way branch,	4×3	400	Talking of lost on	11110 D
3	Two way branches	The state of the s	42	Double headers,	
14	"	4×4	7		$\lfloor \lfloor \frac{1}{2} \rfloor$ "
1		6×3	THE RESERVE	The rate of the last of the la	
1	and the state of the state of	8×6	44	Branch pipes,	
3	Caps,	10 inch,	8	Penstocks,	10 7 10
6	"	6 "	-	IC.	
3	**	2 "	1	Stop-cocks, (new)	
	The state of the state of	The same of	1	(old)	
	A Park Hill	44.000	2	"	13 "

Those marked * are heavy. Those marked † are light.

3d. Paved streets which have no new pipe.

Streets.	From.	To.	Size.	Fort
Lark	Second	Lumbor		Feet.
Swan	IF ITSI	66	4*	625
Orange,	End of pipe	Swan	4†	1,025
Patroon,	Hawk		4*	225
Hudson,	46	Lark,	4*	750
Hamilton,			4*	2,150
Jefferson	Dove	44	4*	2,150
Green,	Bassett	Nucella	3†	700
CHILICIL.		1 1	4*	350
Cherry,	Church	Propdure	4*	350
michalluel	DOULD Pearl	I linton	3*	225
Schuvler.	Green	- Chilton,	3*	375
Rensselaer	Church	- Broadway,	4*	725
Ferry	South Doord	- "	4*	200
John	South Pearl	-	4*	1,350
South Lanci	Church		3*	
South Lansin	8,- "	- " " " " " " " " " " " " " " " " " " "	3*	200
Herkimer,	"	"	4*	200
Bleecker,	"	1 66	0.0	200
	South Pearl	Franklin	2*	200
				300
			4*	225
			4*	450
Daniel.	Beavon	EIII,	4*	950
Plain.	Beaver	Eagle,	4*	500
Howard	South Fear	Philip,	4*	750
South Poorl	State	Wendell	4*	
Roamon Fearl,	State	Lydius.	8*	600
Jedver,	Broadway	South Poorl		1,500
illuson,	Green	William	4*	850
IVISON,	- Liberty	South D	4*	800
lamilton,	Liberty	South Pearl.	4*	500
nion,	- Hudson Pruyn	"	4*	1,000
			4*	
PARA TITATE	0		12	950
handle band	State	Hodge	4*	400
rapel,	- 66	Patroon	8*	1,200
oadway,		Latroon,	4*	1,650
euben,	State " " Montgomery Chapel	Lumber,	8*	3,200
ne.	Chanel	magie,	4*	
mee	Onapel	"		1,250
1105,	StateDean	Columbia	4*	550
liden Lane,	Dean Quay	Facle	4*	1,000
change,	Quay James	Dagle,	4*	1,600
to	1-	DIOAGWav	4*	
nge	James	"	4*	400
11150	LVV aton		4.	425
ncer,	Jackson	Brond.		225
tre,	Jackson Spencer	Dioadway,	4*	300
KSOn	openeel	Lumber,	4*	
	"	"		500
			4*	650

Carried forward, ---

Broadway, City line, 6* North Ferry, End of pipe Broadway, 4*	Feet.	Size.	To.	From.	Streets.
Lark, Lydius Jefferson, 4*	34,725 1,600 650 250 200	4* 4*	city line, Broadway, city line,	Lumber End of pipe Nucella	North Ferry, Broad,

37,425

Making 7.09 miles.

* Heavy pipe. † Light pipe.

4th. Streets having old iron pipe, and no new pipe.

Streets.	From.	To.	Length.
Chapel,	Patroon Pearl William State Lumber State Franklin Eagle	Lydius, Van Schaack, Grand, Green, Lumber, Lumber, Hodge, Broadway, Chapel, State, Lodge,	350 350 425 600 3,200 1,600 1,200 1,100 450
Paved streets wh		ipe,	11,600

Making 4.88 miles.

RECAPITULATION.

Size of pipe.		No. of feet of pipe required if all the paved streets in the city are laid.	No. of feet in streets in which old iron pipe is laid, and no new pipe.	No. of feet of pipe, exclusive of those on hand required in 1852	No. of pipe required.
8	Heavy,	5,900 1,600	5,900 1,600		
6 4 4 3	"	26,075	4,100	21,975	2,588
4	Light,	1,650	o paging referal	1,650	194
	Heavy,	700 1,500	The Total Control of the Control of	700	82
		37,425	11,600	25,825	3,040

Branches, &c.

Size.	CHIEF STORY	No.	No.	No.	Requir'd
4×3 8×6 "	One way, Two way, Two way, Two way, One way, One way, Two way,	4 25 25 5 10 8 8	5 1 8 6	4 20 25 4 2 2	
The state of the s	ELLIN II. Serveringer	80	20	60	60
4 to 3	Reducers,	26 10 36		16	16

Stop-cocks, 10.

5th. Pipes to complete, in addition to those on hand.

Size.	Pipes required to complete.	Pipes of sizes on hand.	Pipes to be ordered.
4*	2,588	268	2,320
4†	194	134	60
3†	292	47	245
3*	176	179	3

Branches, &c, to be ordered.

	Description.	Size.
The same of the sa	One way,	4×4
1	Two way,	4×4
No. 4,	One way,	4×3
127	One way,	8×6
17,	Two way,	8×6
2,	One way,	6×4
1,	The state of the s	

Reducers to be ordered.

No. 5,	Reducers,		6 to 4 4 to 3
19, 35. Hydrants, 35.	Contingen	cies.	

6th. The amount of work remaining to be done in the following ats. 1852.

6th. 1852.	The Control of the Co				
Eliopis, 1	From.	To.	Size.	Feet.	
Bireets.	Second	Lumber,	4*	62	_
			. 4†	1,02	3
Lark,	First End of pipe	Swan,	4*		50 50
Swan,	Hawk		- 4*	2,1	
2 11000Hg	Hawn	_ Lark,	-\ 4* 4*	2,1	
a deolla	(6	- ((3		(1)0
-1	Dove	- (6	AN		350
10ffe1'S0119	Bassett	Nucella,	4*		350
C-0011	(6			-	225
Church,	Church	Broadway,	0*		375
-1 1177	la 1 Door	Clinton,	A		725
Magandel,	Green	Broadway,	4	-	200
Cabuuler	Church	(6			250
Dansselaer,	la de Doorl	Flamking		*	200
Ferry;	Church	Dioad way,		3*	200
John	1	((4*	200
South Lansing,	"			3*	200
Herkimer,	- 66	66		3*	300
Bleecker,	South Pearl	Franklin, -		4*	225
"	South Featt-	D .1.		_	450
Lydius,	Broadway -	Arch,		4*	950
Franklin,	- John	Elm		4*	500
Philip,	- Hudson	Dealo		4*	
Daniel,		Eagle,		4*	400
	1 2	121111111111111111111111111111111111111	rl	4*	600
Plain,	1277 1-11		111,	4*	300
Howard,	-	Injuau " "	,	4*	150
Beaver,	Green	William.		4*	500
Hudson,	Pearl	South Pe	arl,	4*	1,000
Division,	Green	50000	I NEL-	.\ 4"	1 2,00
Hamilton,					16 975
111011					16,275

Carried forward, -----

Streets.	From.	То.	Size.	Feet.
Union, Liberty, Chapel,	Brought Hudson	forward, Lydius, " Van Schaack, Chapel, Columbia, Eagle, Broadway, " Quay, Broadway, Lumber, "	4* 4* 4* 4* 4* 4* 4* 4* 4* 4* 4*	Feet. 16,275 950 400 650 800 1,000 1,600 400 425 225 300 500 650 650
Broad,Lark, Pine,	Nucella Lydius	city line, Jefferson,	4*	250 200
		1 - 0 - 5,	20-	

25,825

Estimate cost for completing the work, 1852.

For laying pipes in streets, hydrants, &c.,	\$31,985 80
For facing Bleecker reservoir with brick,	5,000 00
For facing Van Rensselaer Lake dam,	1,000 00
For facing Watervliet Lake dam	425 00
Keeper's house at Van Rensselaer lake,	350 00
New dam for supplying mills at Tivoli Hol-	
low,	2,000 00
Waste-weir at Watervliet lake,	800 00
Waste-weir under pipe at Watervliet lake,	360 00
Contingencies,	3,979 20
Covering conduit at Van Rensselaer lake	self and sense
with sod,	1,100 00 -
LOS . T. Janes . D. C. Lands	
	\$47,000 00
Fencing line of conduit,	3,438 05
	\$50,438 05

	43		
7th. Estimated cost	of supplying the Penit	entiary and Alms-	
7th. Estimater. house with water. 86 pipes, 4 inch light, in Lydius, from Lark to Knox, 160 pipes, 3 inch light, in Knox, from Lydius to War- ren,			
990 pipes, 3 inch ire	om corner of Warren and and Hospital.	d Knox to	
1 Two-way branc 5 Two-way branc 2 Two-way branc	$\{h, 4 \times 3 \\ ch, 3 \times 3 \}$ Penitentiary $\{ch, 3 \times 3\}$ Alms-house an	d Hospital.	
	corner of Lark and Lvd		
Cost of supplying	ng penitentiary, g alms-house and hos-	\$1,600 49	
pital,		1,563 59	
		\$3,164 08	
8th. Recapitulation of lms-house, and Hospit	of pipes required for stal, 1852.	reets, Penitentiary,	
Size, 4 inch, hear	vy,	No. 2,588	
4 inch, ligh	ıt,	280	
3 inch, ligh	it,	742 176	
J men, nea	vy,	The state of the s	
		3,786	
though the state of	Branches, &c.		
Size, 4×4,	One way,	No. 4	
4×4,			
4×3,			
4×3,			
8×6,			
8×6, 6×4,	The state of the s		
3×3,			
The same of the same of		68	
	And American Land Robert		
	Reducers.	II i color the death	
Size, 6 to 4,		No. 6	
4 to 3,		10	
	when the same back	16	
The Park of the Park of the		South a col ordered	

Al

9th. Number of hydrants, and their location in the city of Albany, 1851.

South west corner Lumber and Montgomery streets.

South east corner Lumber and Water streets.

North east corner Pearl and Colonie streets.

North east corner Broadway and Lumber street.

North west corner North Lansing and Centre streets.

North east corner Colonie and Water streets.

North east corner North Ferry, opposite White's malt-house.

North east corner Broadway and North Lansing street.

North east corner Broadway and Dewitt streets. North east corner Van Woert and Pearl streets.

Centre of canal bridge, foot of Lawrence and Montgomery streets.

North west corner Spencer and Montgomery streets.

North east corner Patroon street and Broadway.

East side of Montgomery, 57 feet north of North Lansing street.

South west corner Broadway and Wilson street. North east corner Quackenbush and Water streets.

North west corner Lumber and Pearl streets.

North west corner Water and Orange streets.

North west corner Steuben and Montgomery streets.

North west corner Columbia street and Broadway.

North east corner Columbia and Pearl streets.

Foot of Maiden Lane, on Quay street.

North west corner Hawk and Canal streets.

North east corner Swan and Canal streets.

South west corner Swan and Second streets.

North east corner Lark and Second streets.

North side Second, one-third way east of Lark street.

South west corner Third and Lark streets.

South west corner Third and Swan streets.

South side Third, half way between Swan and Lark streets.

South west corner Franklin and Bleecker streets.

North west corner Clinton Park.

South west corner State and Knox streets.

North east corner Spencer and Water streets.

North west corner Maiden Lane and Dean street.

At Columbia-street bridge.

South side of State-street bridge.

North east corner State street and Broadway.

North west corner Beaver and Green streets.

South west corner State and Green streets.

North west corner Broadway and Hudson street.

South east corner Union and Hudson streets.

North east corner Hudson and William streets.

South east corner Howard and William streets.

North east corner Beaver and Lodge streets.

North west corner Grand and Plain streets.

North west corner Hamilton and Philip streets.

South west corner Hamilton and Pearl streets.

South west corner Fulton and Plain streets.

North west corner Van Zandt and Fulton streets. South west corner Hamilton and Rose streets. North west corner Arch and Green streets. North east corner Arch street and Broadway. North west corner Arch and Franklin streets. North west corner Quay street and Trotter's Alley. South west corner Quay and Hodge streets. Foot of Hamilton, at Draw-bridge.
North east corner Broadway and Pruyn street. South west corner Liberty and Pruyn streets. North west corner Broadway and Lydius street. South west corner Hamilton and Liberty streets. North east corner Lydius and Green streets. North west corner Broadway and Division street. South west corner Grand and Westerlo streets. In Broad, 265 feet from Lydius street. North east corner Union and Lydius streets. South west corner Pearl and Lydius streets. South east corner Franklin and John streets. In Pearl, opposite north corner of Herkimer. South east corner Jefferson and Hawk streets. South east corner Lydius and Hawk, streets. North west corner Lydius and Swan streets. North west corner Lydius and Dove streets. North west corner Lydius and Lark streets. North west corner Hudson and Lark streets. South west corner Hudson and Hawk streets. South west corner of Chestnut and Hawk streets. South east corner Grand and Lydius streets. West side of Ten Broeck street, opposite Park gate. South west corner Ten Broeck and First streets. North east corner Hawk and Patroon streets. South west corner Cross and Orange streets. In Van Woert street, end of pavement. North west corner Lumber and Swan streets. North side Lumber, opposite Dove street. North side Lumber street, near No. 236. South west corner Lumber and Lark streets. South west corner Van Tromp street and Broadway. South east corner Swan and First streets. In Canal, opposite Cross street. South east corner State and Dove streets. South east corner State and Swan streets. North east corner Swan and Lafayette streets. South west corner Hawk and Elk streets. North west corner State and Pearl streets. North east corner Third and Knox streets. North side of Orange, 372 feet east of Swan street. South west corner Dallius and Rensselaer streets. North east corner Green and Schuyler streets. South east corner Cherry and Franklin streets. In Franklin, opposite Mulberry street.

North west corner Pearl and Schuyler streets. In Catharine, 476 feet from Clinton street. North west corner Clinton and Nucella streets. In Alexander, — feet from Clinton street. South west cor rer Arch and Clinton streets. South west corner Green and Bassett streets. South west corner Church and Bassett streets. South east corner Mulberry street and Broadway. South east corner Vine street and Broadway. South east corner Eagle and Lydius streets. North west corner Eagle and Elm streets. North east corner Washington and Knox streets. In Pearl, opposite north line of Gansevoort street. North west corner Pearl and Alexander streets. North east corner Liberty and Lydius streets. South east corner Dove and Jefferson streets. North east corner Washington and Snipe streets. North east corner Schenectady Turnpike and Snipe street. South east corner Schenectady Turnpike and Robin street. North west corner Arch and Pearl streets. North east corner Dallius and Ferry streets. North east corner Church and John streets. South west corner Herkimer and Dallius streets. South west corner Westerlo and Dallius streets. South west corner Lansing and Green streets. North east corner Lansing and Church streets. South west corner Green and Division streets. Opposite Dr. Bay's, North Pearl street. South east corner Columbia and Lodge streets. North west corner Pine and Lodge streets. South east corner Eagle and Howard streets. Opposite Wendell, in Howard street. South east corner Eagle and Hudson streets. North east corner Eagle and Beaver streets. North east corner Jay and High streets. North east corner Hamilton and High streets. North east corner Lydius and High streets. Foot of Spring street, at park. South east corner State and High streets. North east corner Pine and Eagle streets. North east corner Columbia and Eagle streets. North east corner State and Eagle streets. North west corner State and James streets. South west corner Washington and Hawk streets. North east corner Canal and Chapel streets. North east corner Orange and Chapel streets. Foot of Lafayette street, at park. In Washington, 159 feet east of Dove street. South west corner Washington and Lark streets. South east corner Bowery and Knox street, at park. North west corner State and Lark streets. North west corner State and Lodge streets.

In Lafayette, 278 feet west of Hawk street.
In Spring, 200 feet west of Hawk street.
In Spring and Patroon streets.
North west corner Ten Broeck and Patroon streets.
Whole number set______ 156

Respectfully submitted.

WM. McCAMMON, Supt.