

Montreal Water Works
Final Estimates

Thos. C. Keefer *1850-1870*

180.00

Aqueduc de Montréal

Devis estimatifs.

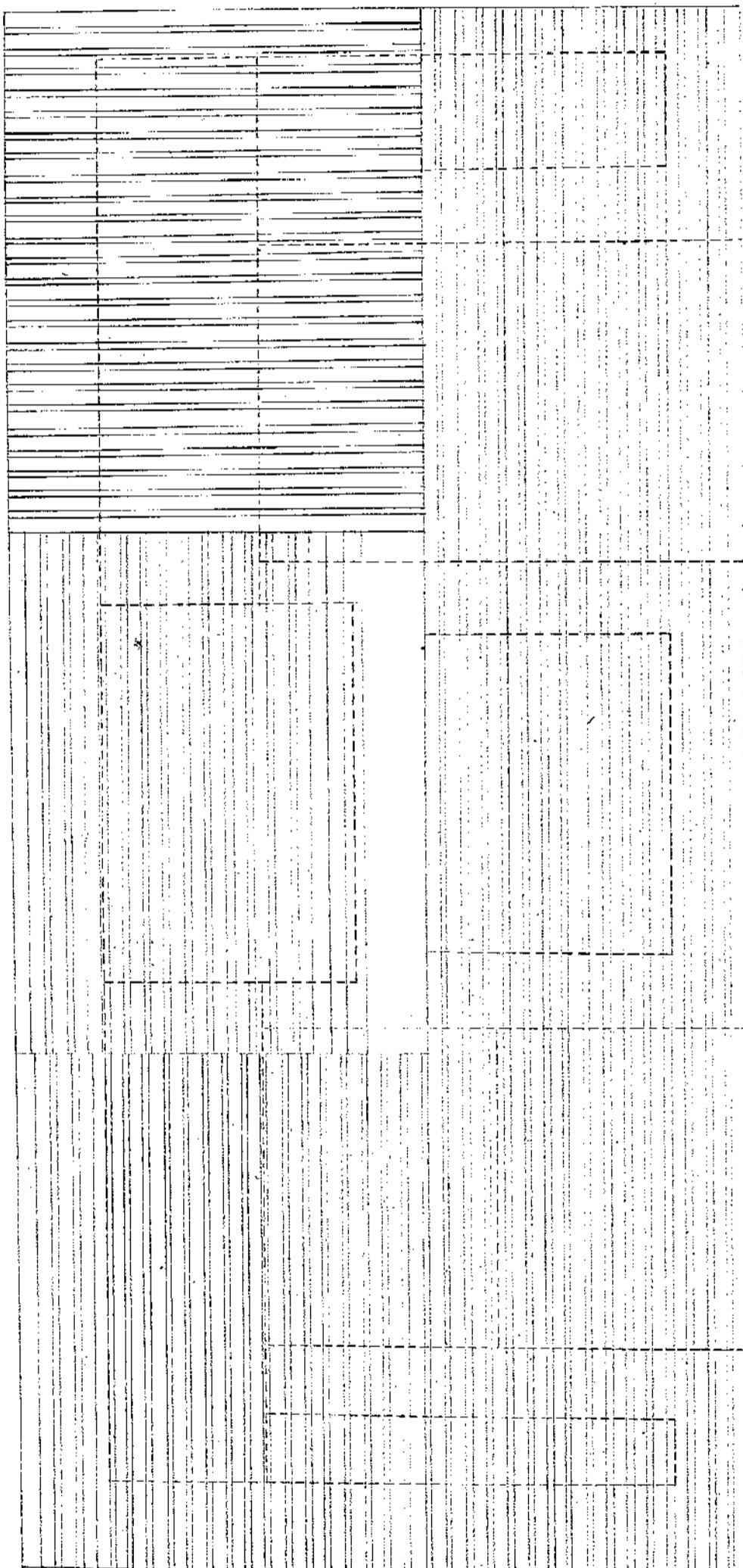
Travail préparé par Mr. Thomas C. Keefer,
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voulu confier ce précieux document
aux Archives municipales de
Montréal, le mercredi, 8 nov. 1933.

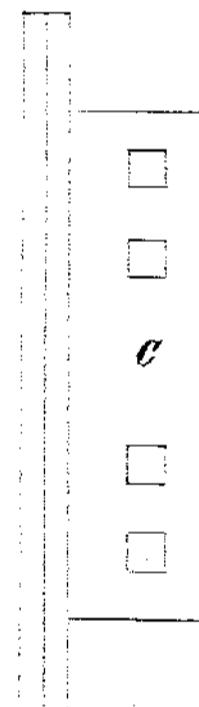
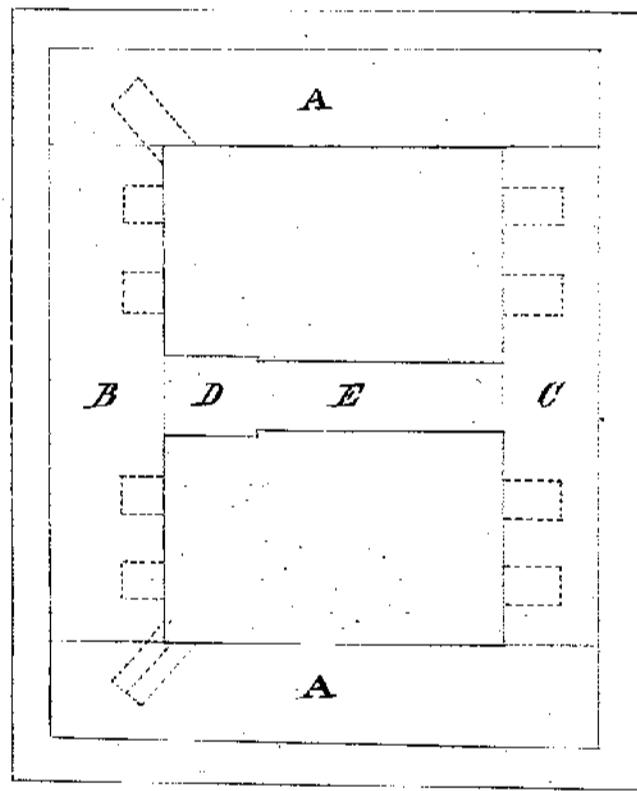
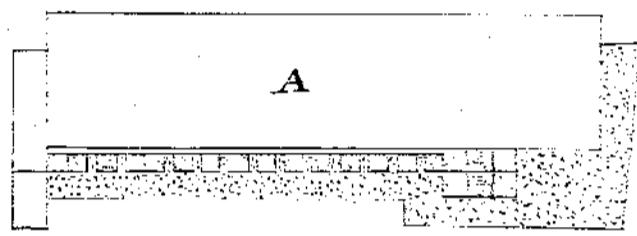
T.C. Keefer

Nov 8th 1933

Archives de la Ville de Montréal

*Plan of Timber foundation of Club House
and Pump Room—*

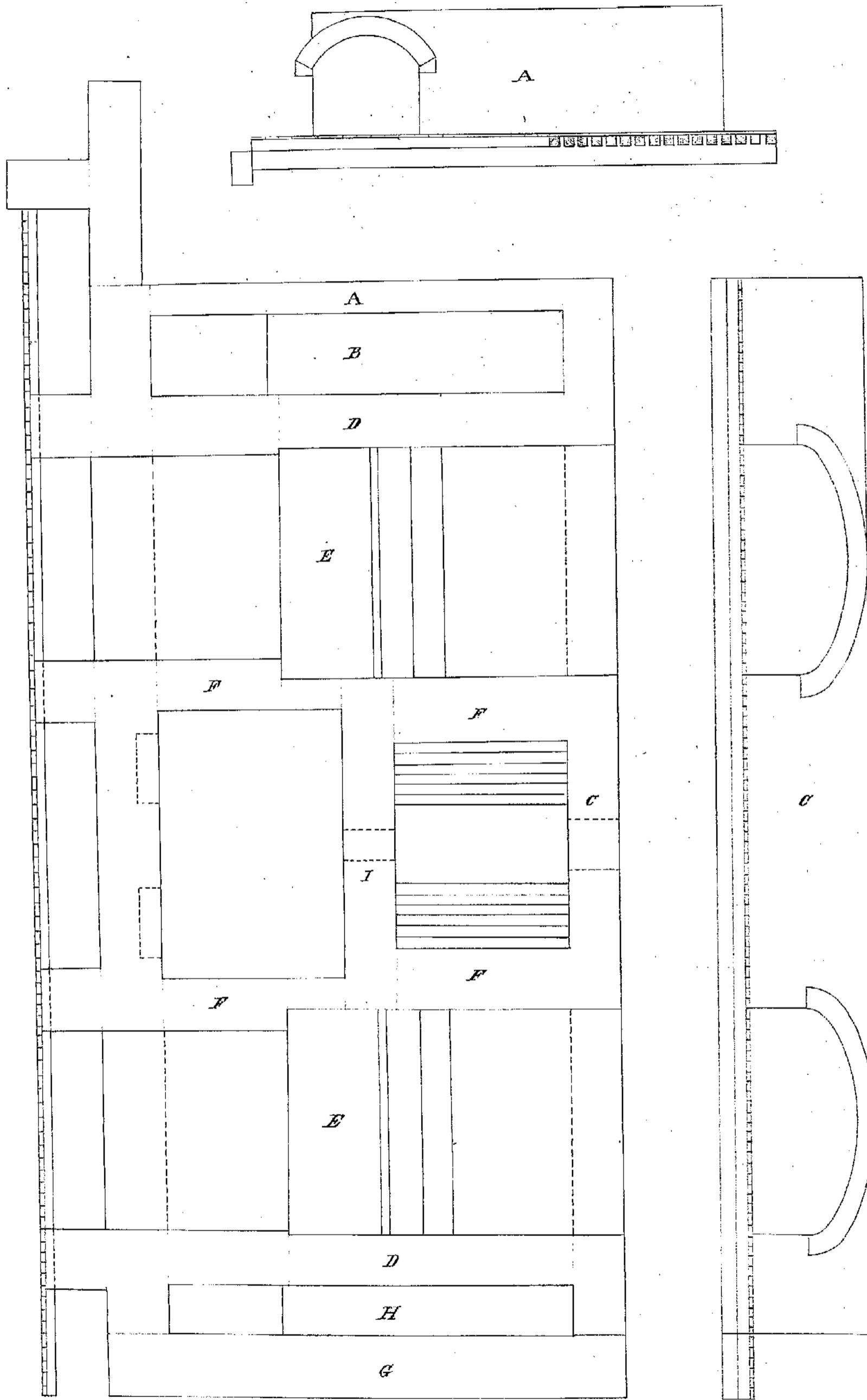




Wheel House

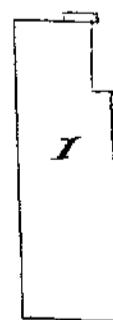
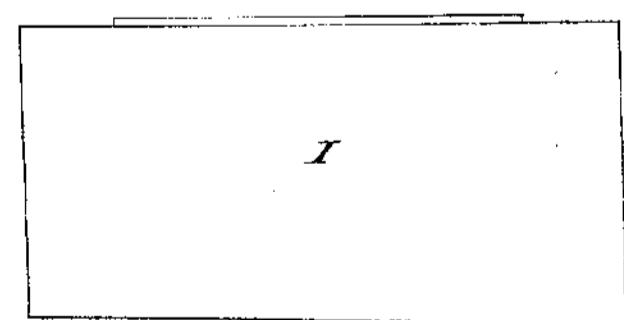
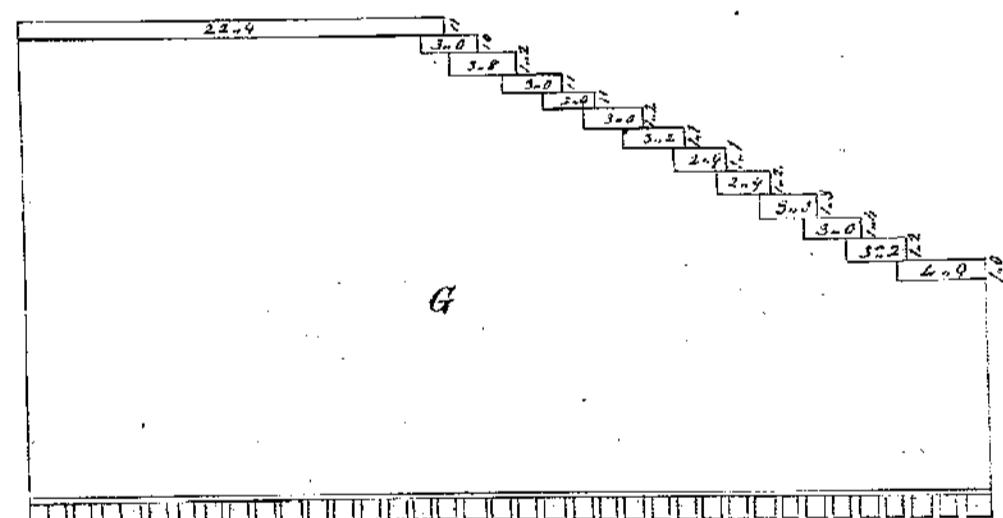
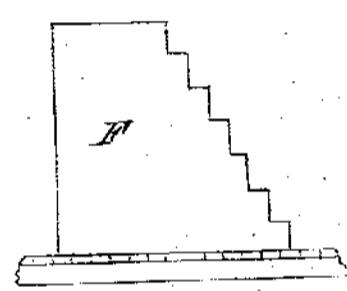
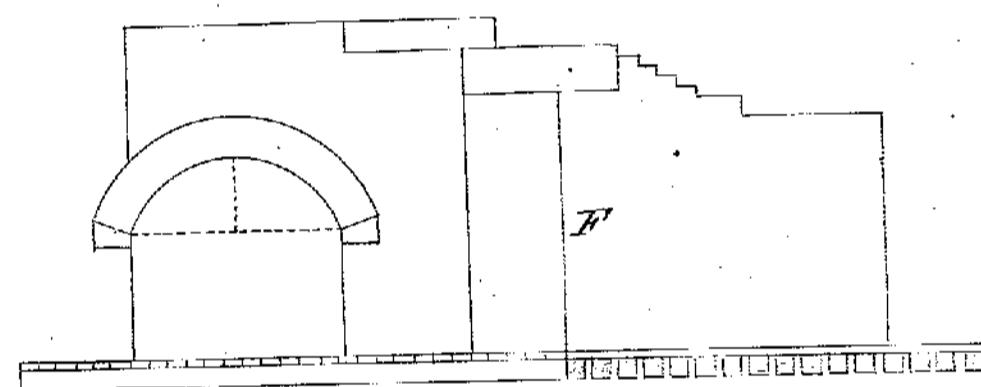
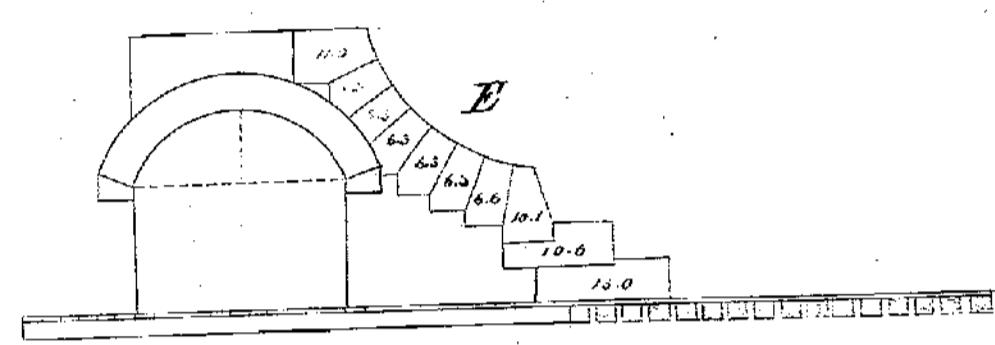
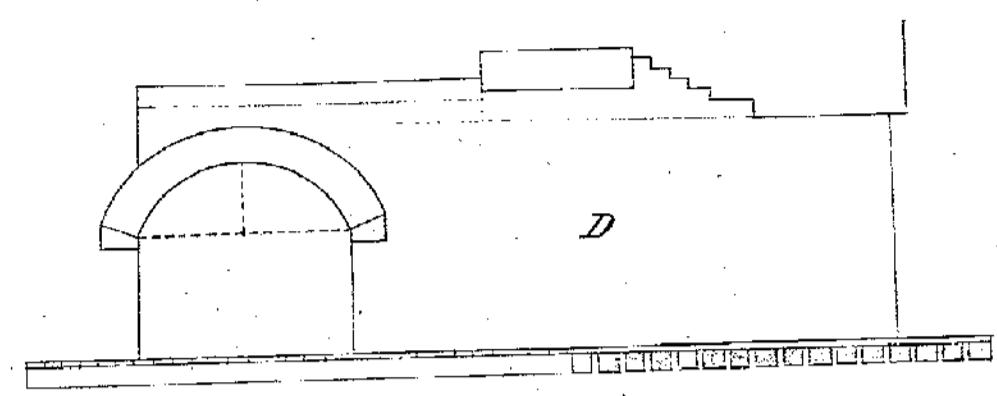
Pump Room

	No.	Length	Width	Height	Contents	
A	4	5.0	3.0	1.4	80 - 0	Dimension Stone
B	2	4.0	6.0	1.6	72 - 0	"
"	1	4.4	5.0	1.6	32 - 0	"
"	3	4.0	5.0	1.6	90 - 0	"
"	1	4.6	4.0	1.6	27 - 0	"
"	1	3.0	4.0	1.6	18 - 0	"
C	1	4.0	5.0	1.3	25 - 0	"
"	2	3.0	3.0	1.3	32 - 0	"
"	1	3.0	3.6	1.3	13 - 2	"
"	2	3.6	3.0	1.6	35 - 0	"
"	1	3.3	3.0	1.4	12 - 0	"
"	1	3.0	3.6	1.3	13 - 2	"
"	1	3.6	4.0	1.6	21 - 0	"
"	1	3.0	4.0	1.6	15 - 0	"
"	1	3.0	4.0	1.6	18 - 0	"
"	1	3.9	4.0	1.6	22 - 0	"
					509 - 10	Cubic feet Dimension Stone
A	2	29.0	5.0	7.0	3030 - 0	Ashlar faced Masonry
B	1	26.0	6.0	7.0	1092 - 0	
C	1	26.0	5.0	7.0	910 - 0	
D	1	6.0	4.0	7.0	165 - 0	
					4200 - 0	
					509 - 10	
					3690 - 2	
						Cubic feet Ashlar faced Masonry
	15	36.0	1.0	7.0	540 - 0	Pine Timber
	1	36.0	4.0	3.0	486 - 0	To bed for Pumps
					1026 - 0	Cubic feet of Square timber
	1	36.0	20.0	0.3	2214 - 0	Feet B.M. pine planking
	1	40.0	20.0	7.6	1200 - 0	Concrete
	12	36.0	0.6	1.0	216 - 0	"
	1	40.0	11.0	1.6	690 - 0	"
	1	40.0	6.0	2.6	600 - 0	"
	1	40.0	1.0	3.6	330 - 0	"
	1	40.0	2.0	6.6	520 - 0	"
	2	29.0	2.0	6.6	754 - 0	"
	1	36.0	4.0	0.3	40 - 6	"
					4350 - 6	
						Cubic feet Concrete
E	1	18.0	3.0	1.0	63 - 0	Middle Wall
"	1	18.0	3.0	4.0	229 - 6	"
"	2	12.0	2.0	4.0	112 - 0	End Walls
					404 - 6	Cubic feet Dimension Stone



Wheel House

	N. ^o	Length	Width	Height	Contents	
A	1	3.0	37.0		111.0	
"	1	11.4	3.0	6.7	223.10 334.10	Arches opening, square do.
"	1	19.0	3.0	3.0	114.0	Bush feet hammer dressed Arch
"	1	40.0	3.0	12.0	1440.0	Rubble Wall
B	1	25.8	8.0	6.7	1509.9 2949.9 448.10 2501.0	Opening and Arch Bush feet Rubble Masonry
C	2	5.0	82.0		820.0	Elliptic opening
"	2	32.0	5.0	5.6	1210.0 2030.0	Square do Bush feet openings to be deducted
"	2	36.0	5.0	2.0	520.0	But stone Arches
"		102.0	5.0	12.0	6120.0 3550.0 3570.0	Rubble wall Openings and Arches deducted Bush feet Rubble Masonry
	16	108.0	1.0	1.0	1738.0	Fine Timber
	21	41.0	1.0	1.0	861.0	"
	25	29.0	1.0	1.0	725.0	"
	1	116.0	1.0	1.0	116.0	Timber for Sheet piling
	2	108.0	1.0	1.0	316.0	To Platform Bush feet fine timber
	1	108.0	22.0	0.3	7128.0	Planking floor
	2	36.0	39.0	0.3	6264.0	"
	1	108.0	12.0	0.3	3888.0	Sheet piling
	1	36.0	12.0	0.1	432.0	Wattens for do
	1	108.0	6.0	0.3	1944.0	Platform floor
	12	32.0	0.6	0.6	792.0	Boards—four sets of beams
	1	252.0	0.6	0.4	504.0	Braces
	12	26.0	0.11	0.2	572.0	Hilts
	32	5.6	0.6	0.4	352.0	Standards
	4	26.0	5.0	0.14	650.0	Sheeting
					3490.0	Beams for pipe Arch
					26016.0	Sheet B.M.
	176	1.6	0.3	0.3	176.0	Wedges (Hard wood)



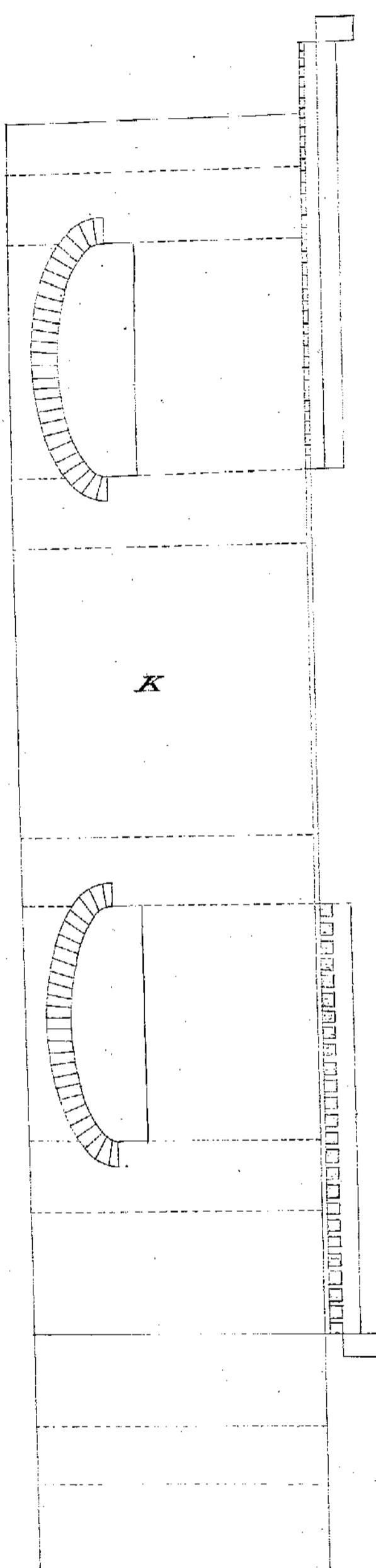
Wheel House

	N ^o	Length	Width	Height	Contents	
D	2	5.0	Area 37.0		407.0	Arch opening
"	2	11.4	5.0	6.7	820.9	Square do
					1237.9	Dumb feet openings
"	2	19.0	5.0	2.0	418.1	Cube feet Hammer dressed Arch
"	2	2.0	5.0	1.4	39.4	Bat stone under plummmer block
"	2	4.0	3.6	1.10	51.4	"
"	13	Stones measuring			204.5	Bolt hole stones
"	2	16.6	5.0	1.0	181.6	Hopping between wall & plummmer block
"	2	4.0	7.3	.7	33.10	Steps from floor to plummmer block
					500.8	Cube feet dimension stone
"	2	28.8	5.0	12.0	3440.0	Ashlar faced wall
"	2	7.0	5.0	3.0	175.0	"
"	2	8.0	5.0	1.0	120.0	"
"	2	6.6	3.2	3.3	151.2	"
"	2	11.4	5.0	14.8	1828.5	"
					5714.7	Deduction Openings, Arch & Dimension Stone
					2146.5	Cube feet Ashlar faced Masonry
					3568.2	"
E	2	19.0	19.0	3.0	1482.0	Cube feet hammer dressed Arch
"	2	22.0	Area 80.9		3633.9	Wheel quadrants 8 foot courses
"	2	11.0	9.0	1.0	198.0	Cube feet dimension stone, bed for batstones
"	2	32.0	8.3	6.0	2178.0	Bubble Masonry
"	2	32.0	9.0	3.3	1287.0	"
					3465.0	Deduction dimension stone
					198.0	Cube feet bubble Masonry
					3366.0	"
F	2	5.0	Area 37.0		370.0	Arch opening
"	2	11.4	5.0	6.7	746.0	Square do
					1116.0	Deduction openings
"	2	19.0	5.0	3.0	380.0	Cube feet Hammer dressed Arch
"	10	Stones measuring			196.0	Under plummmer Block stones
"	17	do			257.0	Bolt hole stones
"	2	4.0	7.3	.7	33.10	Steps from floor to plummmer block stones
					486.10	Cube feet dimension stone

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Wheel House

	N.	Length	Width	Height	Contents	
						Continued
"	2	17.0	5.0	12.0	2040.0	Ashlar faced
"	2	9.6	5.0	1.6	142.6	"
"	2	2.0	5.0	2.3	45.0	"
"	2	5.6	3.0	16.0	528.0	"
"	2	12.6	5.0	18.0	2250.0	
					5005.6	
					1982.10	Deduction, Openings Arch & dimension stone
					3022.8	cubic feet Ashlar masonry
"	2	17.0	3.0	12.0	1224.0	cubic feet rubble masonry
G	1	4.0	Area		248.0	cubic feet dimension stones, steps & landings
"	1	22.9	6.0	18.0	2457.0	Ashlar faced
"	1	28.3	6.0	11.6	1949.3	"
					4406.3	
					248.0	steps & landings
					4158.3	cubic feet Ashlar faced masonry
"	1	51.0	6.0	7.0	2142.0	Rubble
H	1	40.0	5.0	6.7	1316.8	
					3658.8	
						cubic feet Rubble masonry
I	1	24.0	4.0	1.6	144.0	Opening
"	1	38.0	1.3	1.0	37.4	To Under
					181.6	Dimension stone
"	1	32.0	5.0	13.0	1920.0	Ashlar faced
"	1	32.0	3.0	3.6	448.0	
					3368.0	
					181.6	
					2187.6	Dimension stone deducted
						cubic feet Ashlar faced masonry
4	8.0	4.0	2.8		288.0	Plummer block stones
3	8.0	3.0	1.6		72.0	Brick shaft to
					360.0	cubic feet



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Wheel House West Wall

	No.	Length	Width	Height	Contents	
"	2	Area 60.0	4.8		560.0	
"	2	19.0	4.8	2.6	453.0	Elliptic opening
"					1015.0	Square " "
"						Openings to be deducted from Rubble Masonry
"	2	23.0	4.8	2.0	429.0	Cubic feet Cut stone Elliptical Arches
"	2	21.0	6.0	1.6	378.0	Cube in submerged passage
"	4	3.0	2.6	9.0	285.0	Jambs " do " do
"					663.0	Cubic feet dimension stone
"	5	stones measuring			105.0	Stone for Iron Beams
"	12	do	do		325.0	" " bolts
"					325.0	Cubic feet dimension stone
"	1	36.0	6.0	25.0	5400.0	Ashlar faced
"	4	6.0	6.0	3.6	504.0	Top of Counterforts
"					5904.0	
"					328.0	Deduction dimension stone
"					5575.6	Cubic feet Ashlar faced
"	1	36.0	6.0	25.0	5400.0	Rubble Masonry
"	1	30.0	6.0	25.0	4500.0	"
"	4	6.0	6.0	20.0	2952.0	Counterforts
"	1	20.0	5.0	24.0	3450.0	Wall with end in Embankment
"	1	8.0	5.0	24.0	960.0	Counterfort do
"					16212.0	
"					2107.0	Openings, Arches, & dimension stone deducted
"					14105.0	Cubic feet rubble Masonry
"	1	328.0	2.0	3.0	3726.0	Concrete
"	3	36.0	29.0	1.6	3132.0	"
"	1	108.0	7.0	1.0	810.0	"
"	1	36.0	9.0	1.0	342.0	"
"	1	29.0	12.0	1.0	348.0	"
"	2	10.0	10.0	1.0	200.0	Cast & Pump Pits
"	1	18.0	14.0	1.0	252.0	" "
"	1	108.0	35.0	.2	630.0	Benton under bed of Timbers as concrete
"					9440.0	Cubic feet Concrete

Wheel House
Abstract of Measurement

Page	Ashlar faced Masonry	Rubble Masonry	Dimension stone	Septic Ashlar cut stone	Asb Ashlar Gneissic Layed	Marble Gneiss cut stone	Marrow Ashlar & Broad Slab stone	Brick	Dime Stones slabs	Planing in Foundations etc.	Hinges for doors	
1	3040.0		509.10					4350.0	1026.0	2214.0		
2		2501.0		520.0	114.0				3646.0	26016.0	176	
		3570.0										
3	3508.2	3366.0	500.8		418.0	3633.9						
"			198.0		1483.0							
"			486.10		380.0							
4	3022.8	1224.0	248.0				360.0					
5	4158.5	3488.8	181.6									
		3187.6										
5	5575.6	14105.0	663.0	429.0				9440.0				
"		1968.0	328.6									
6	22202.8	30192.8	9520.10	949.0	2394.0	3633.9	360.0	13790.0	4672.0	28230.0	176	
6.44	822.5	1118.5	130.57	35.57	88.57	134.57	13.57	510.57	672.0	28230.0	176	

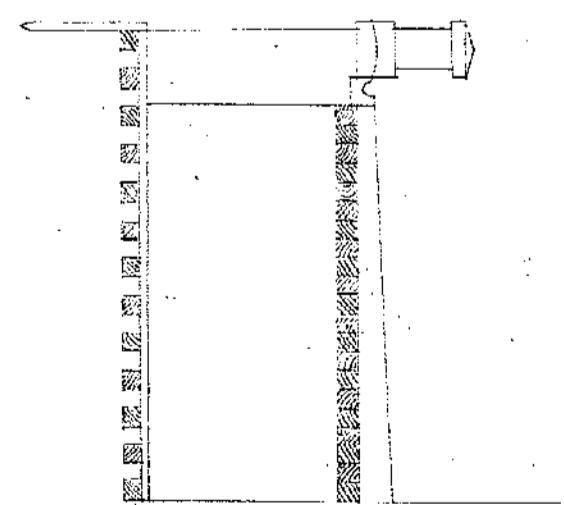
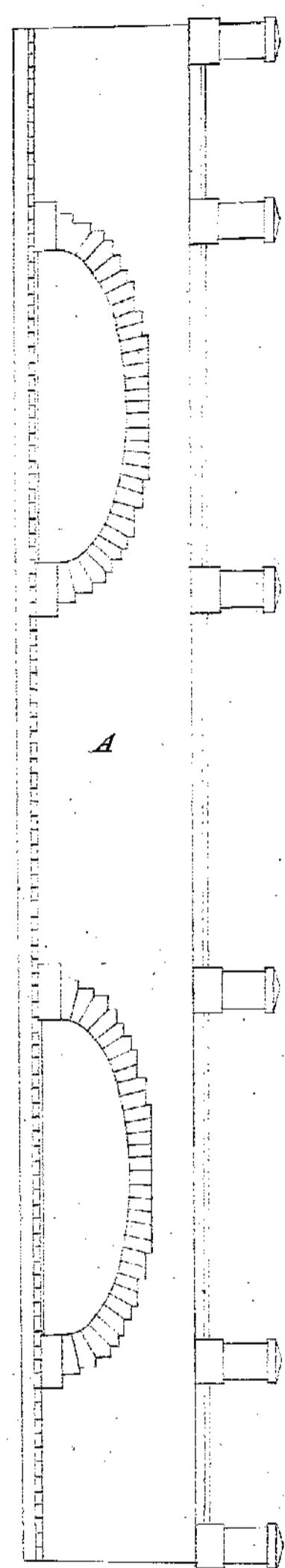
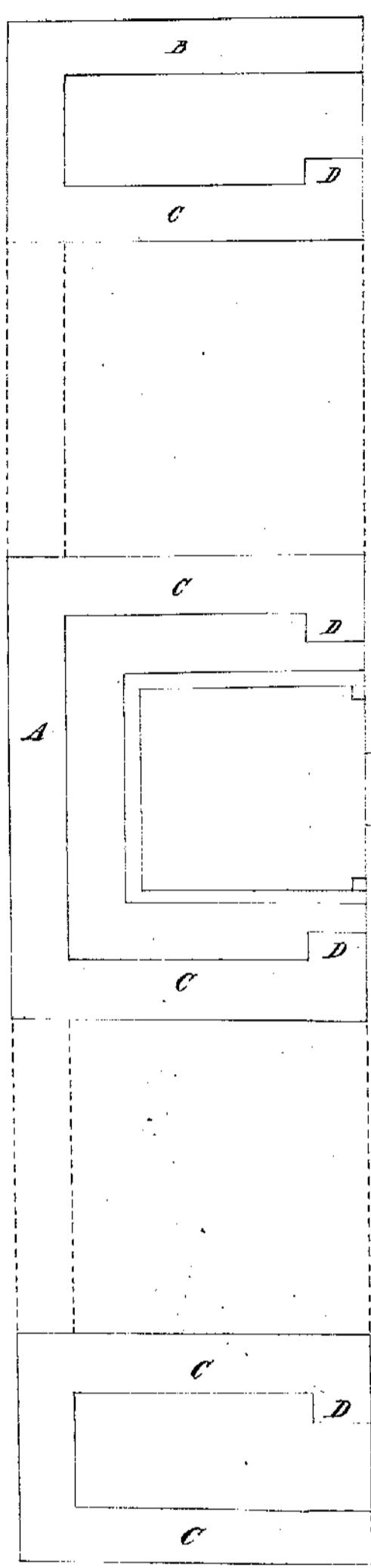
Measurement of stone (cut) supplied by the Contractors, but not built included in the above Abstract

Page	No.	Length	Width	Thickness	Locality	
A	1	12.0	2.0	4.0	192.0	Dimension Stone
B	1	18.0	3.0	4.0	229.0	"
"	1	18.0	3.0	1.0	63.0	"
D	1	17.6	5.6	1.0	96.3	"
"	1	18.0	5.6	1.0	99.0	"
P	2	16.0	3.0	2.0	216.0	"
"	4	4.0	7.0	0.7	67.8	Steps
P	3	11.0	9.0	1.0	198.0	" Under bisters
I	1	24.0	1.9	0.6	21.0	" Gap pump room Wall
					1182.5	Bubic feet
					43.57	Bubic Yards dimension Stone
P	3	8.0	6.0	1.3	120.0	Ashlar
D	2	8.0	5.0	1.3	100.0	"
F	3	16.0	3.0	1.3	120.0	"
					340.0	Bubic feet
					12.57	Bubic Yards Ashlar faced Masonry

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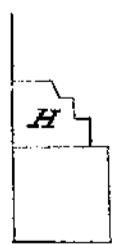
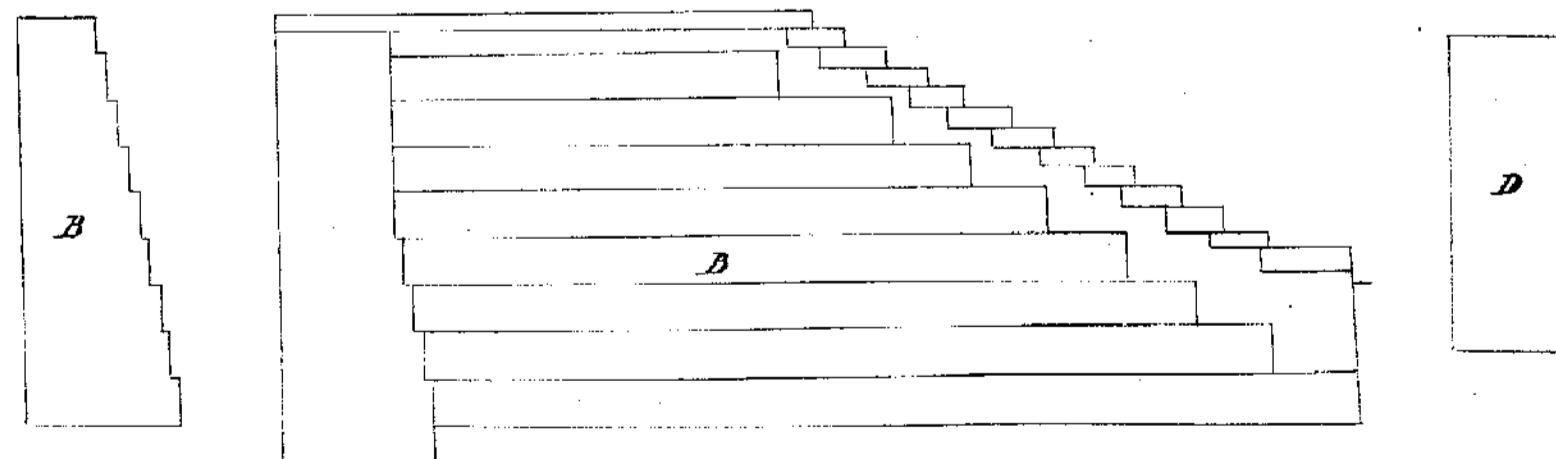
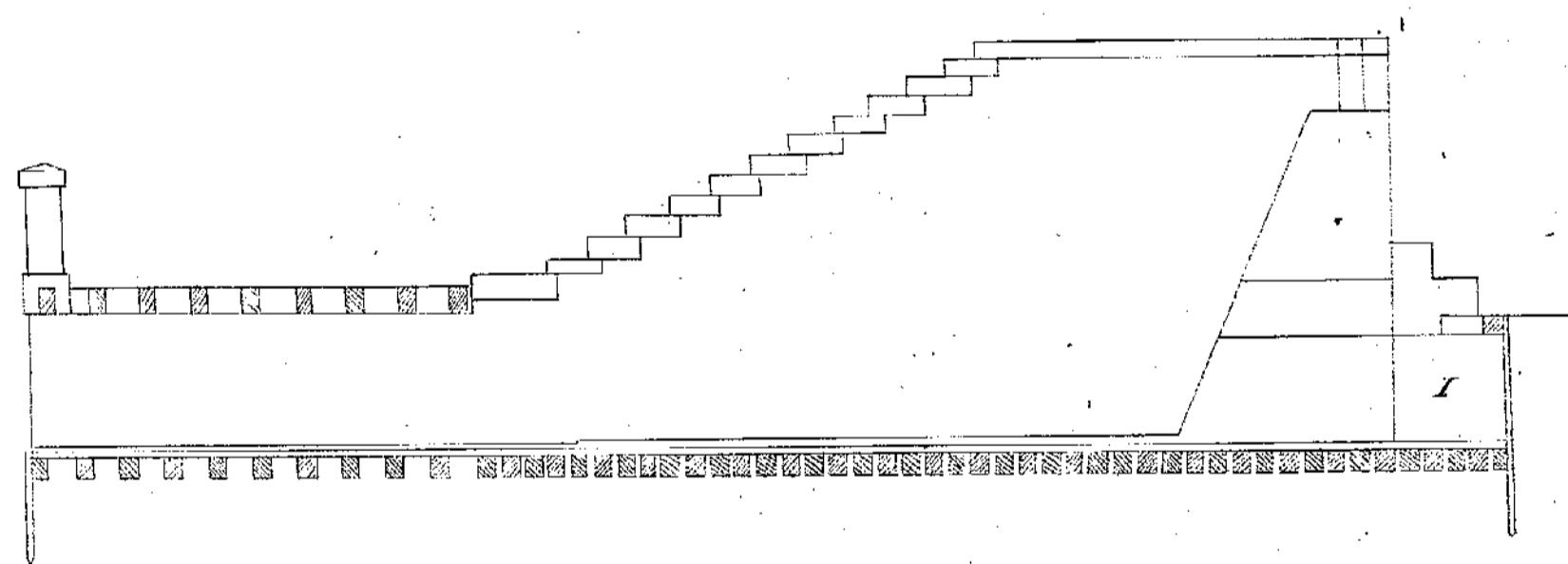
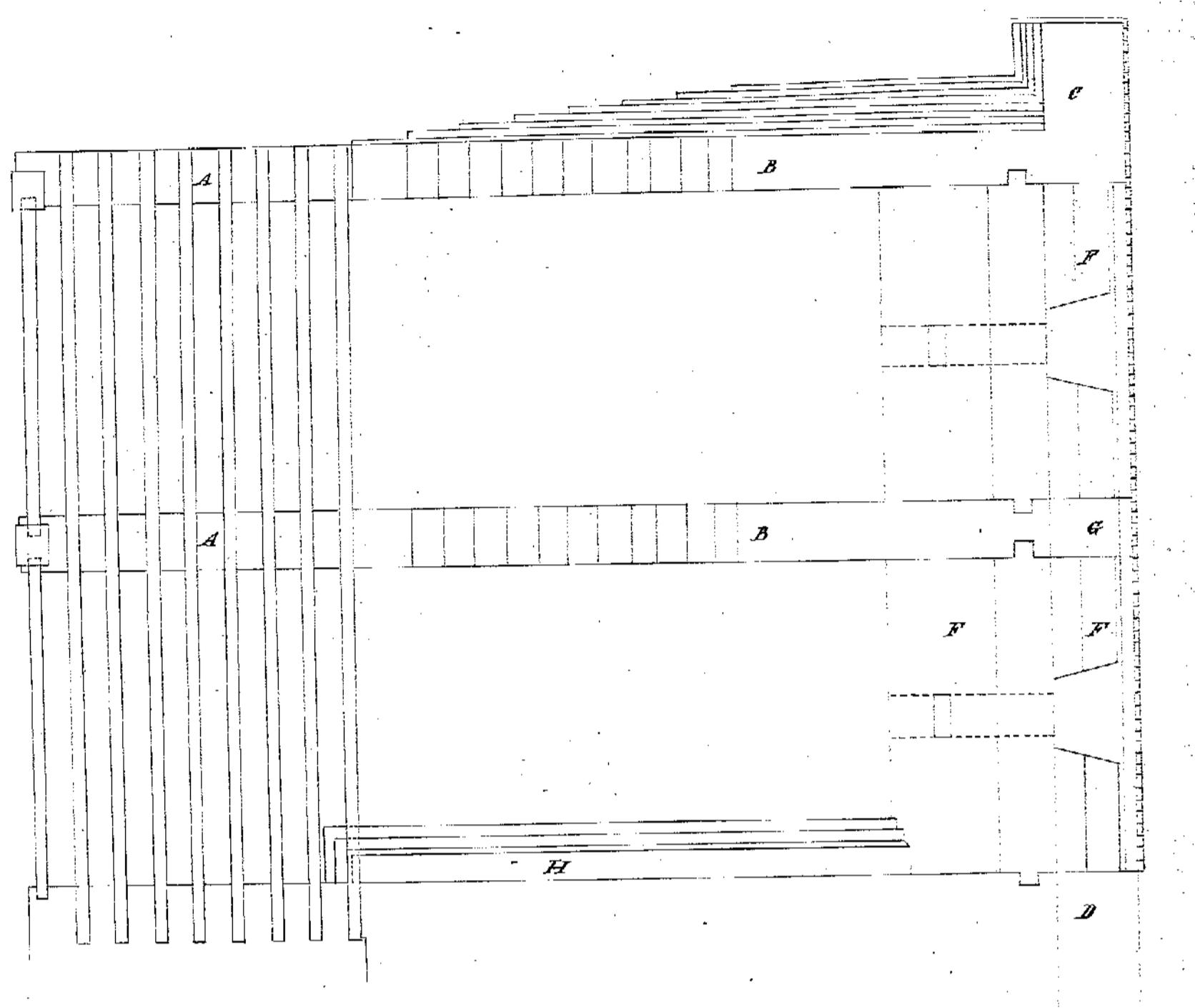
Iron Work at Wheel House

5 Bolts 5' .0" long 1 round	= 105.00
16 Nuts	16.00
10 Bolts 3.0 " 1 "	87.67
30 Nuts	30.00
5 Bolts 4.0 " 2 1/2 "	329.60
10 Nuts	50.00
5 Plates 3.0 " 3 1/2 " X 1 "	176.55
6 Bolts 7.0 " 2 1/2 round	692.16
6 Nuts	30.50
6 Heads 8" X 4" X 2 1/2 "	134.60
	<u>1641.78</u>



Tall Races

	N ^o	Length	Width	Height	Materials	
	2	4.0	Area 83.0		656.0	Arch openings
	2	33.0		7.0	393.4	Square part do
					949.4	Cube feet deducted
	4	2.8	4.0	1.0	42.8	Bat stone Arches
	4	2.4	4.0	3.2	158.3	" " "
	4	2.0	4.0	3.0	96.0	" " "
	4	1.8	4.0	2.10	75.7	" " "
	4	10.0	4.0	2.10	293.4	
					625.10	
					33.57	
						Bubic feet
						Bubic Yards Bat Arches
A	1	108.0	4.0	10.11	4716.0	Ashlar faced Masonry
B		21.0	4.0	10.9	903.0	" " "
					5619.0	
					1575.3	Arches & Arch openings deducted
					4043.10	Bubic feet
					149.37	Bubic Yards Ashlar faced Masonry
C	5	21.0	4.0	9.3	3885.0	Rubble Masonry
D	4	4.0	3.0	9.3	644.0	" " "
					4329.0	
					160.97	Bubic feet
						" yards Rubble Masonry
	1	90.6	2.6	1.0	226.3	Opening on front wall
	6	3.0	2.6	2.0	40.0	Bases
	6	2.6	2.0	3.0	90.0	Pillars
	6	3.0	2.6	1.0	45.0	Baps
					451.3	Bubic feet
					16 $\frac{16}{27}$	" yard dimension stone
	1	108.0	1.0	1.0	162.0	Bubic feet
					6	" yards Channel course
	3	108.0	1.0	1.0	324.0	Pine timber in foundation
	20	42.0	1.0	1.0	848.0	" " "
					1164.0	Bubic feet pine Timber
	1	84.0	21.0	1.1	32932.0	Cedar platform front of Wheel House
	7	16.0	1.0	1.0	1944.0	" sleepers in Coal bunker
	1	50.0	7.0	1.0	4200.0	Sides Roads " "
	3	9.0	1.0	1.0	316.0	Posts " "
					28692.0	3 feet G.M. Cedar
	1	108.0	4.0	0.3	1296.0	Pine Plank
	2	42.0	21.0	0.3	5292.0	" " "
	2	22.0	38.0	0.2	3344.0	" " 2nd floor
	1	16.0	14.0	0.3	672.0	" " Coal bunker
	1	108	6.0	0.3	1944.0	Sheet piling
					1435.0	Gentals for Arches
					13983.0	



Waste Weir

No.	Length	Width	Height	Contents	
	2	4.0	62.0		496.0
	2	3.0	2.0	2.0	30.0
	2	2.6	2.0	3.0	30.0
	2	3.0	2.6	1.0	15.0
-3	6.0	4.0	3.0		316.0
					787.0
A	2	35.0	5.0	7.9	1550.0
B	1	23.0	2.0	20.0	920.0
"	1	23.6	2.0	2.6	117.6
"	1	19.6	1.9	2.6	85.3
"	1	16.0	1.6	2.6	60.0
"	1	11.6	1.3	2.6	35.11
"	1	7.6	1.0	2.6	18.9
"	1	5.6	0.9	2.6	10.3
"	3	41.0	4.0	8.0	2624.0
"	2	31.0	4.0	10.0	2480.0
"	2	23.0	4.0	3.0	552.0
C	1	6.0	1.0	10.0	60.0
"	1	12.0	6.0	21.0	1512.0
D	1	10.6	6.0	3.0	189.6
E	1	50.0	8.0	18.0	7200.0
F	4	8.6	4.3	3.0	433.6
"	4	9.0	2.0	2.0	144.0
G	1	4.0	4.0	14.6	348.0
H	41.6	3.3	3.7		483.3
					18823.5
					216.0
					18607.5
					Stop Log stones deducted Cubic feet Ashlar Masonry
I	1	30.0	6.0	7.0	2100.0
D	1	10.6	6.0	13.6	850.6
C	1	6.0	6.0	2.0	72.0
					3022.6
					Cubic feet Rubble Masonry
	1	40.0	4.0	5.0	800.0
	1	18.0	5.0	5.0	450.0
	2	41.6	2.0	0.6	83.0
	4	65.0	1.0	0.6	130.0
	4	42.0	1.0	0.6	84.0
	1	20.0	18.0	3.0	720.0
					3267.0

10

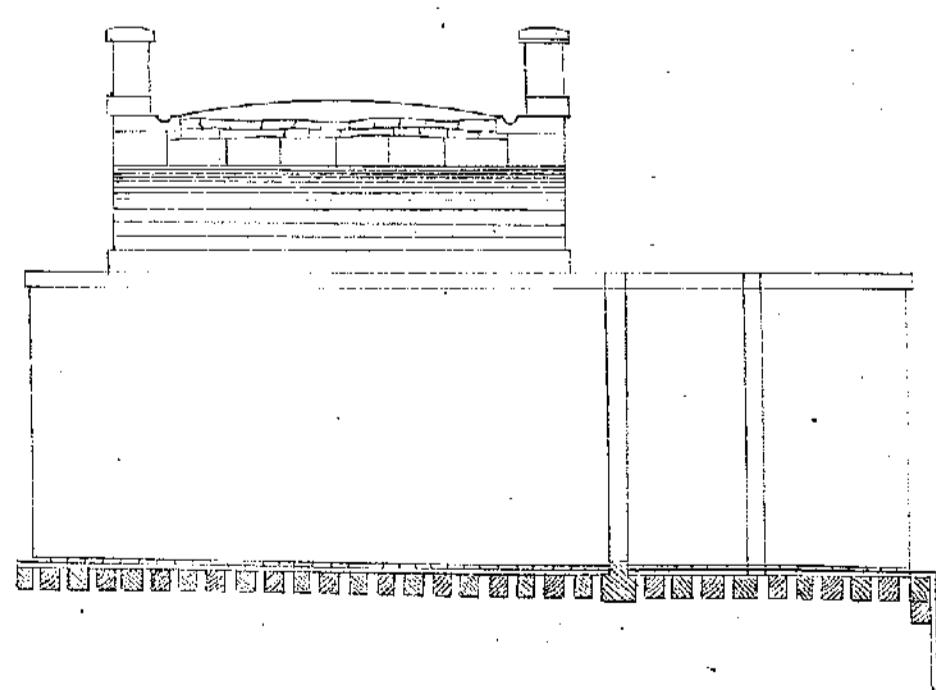
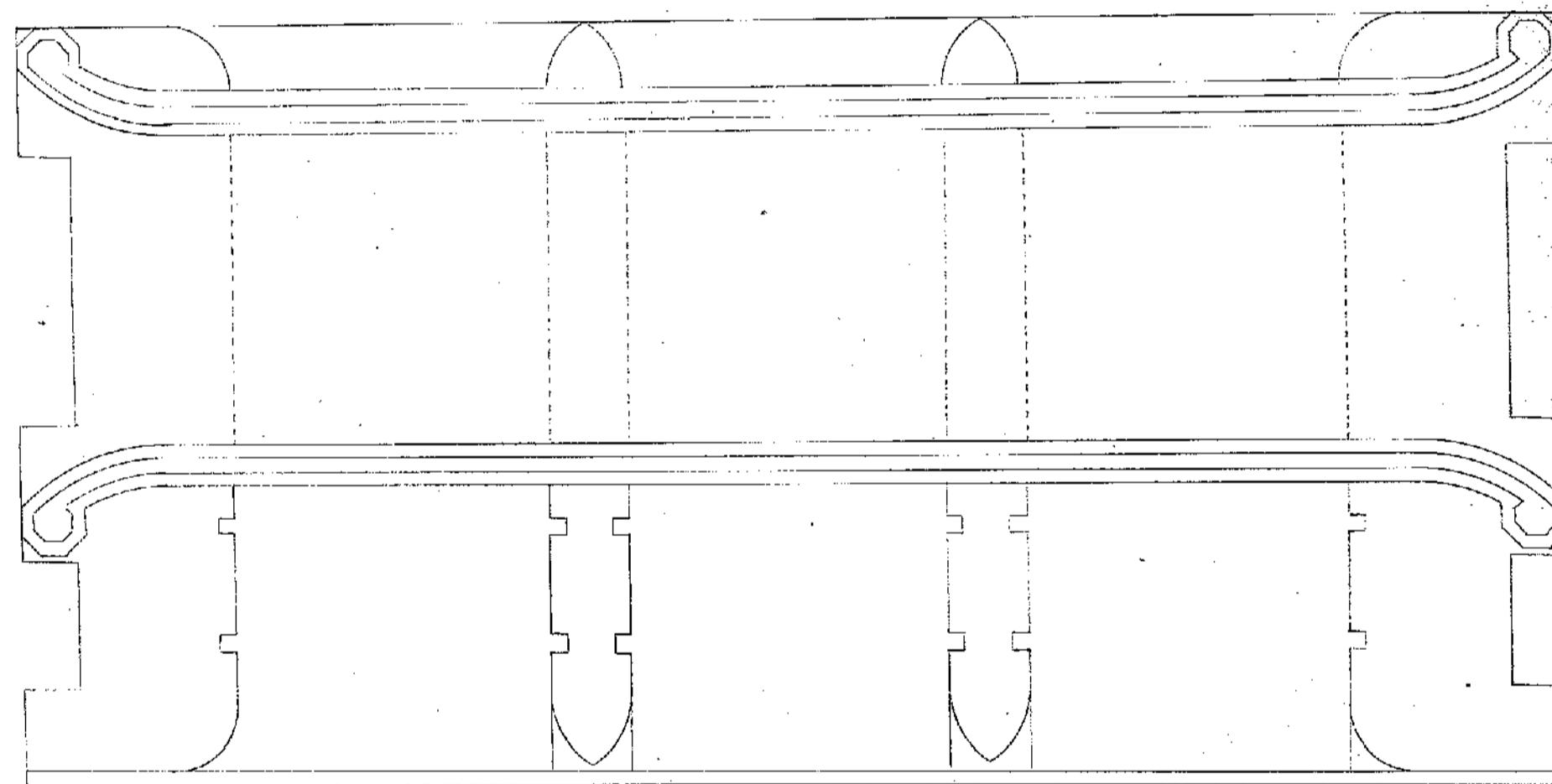
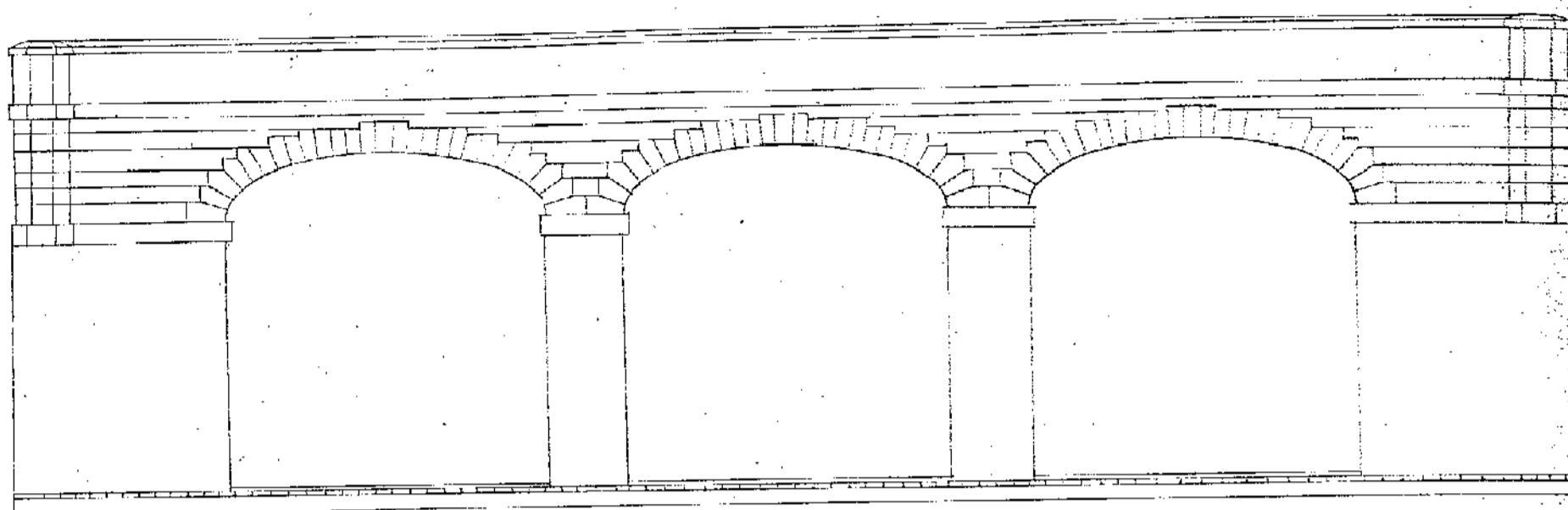
Waste Weir (Continued)

Wt	Length	Width	Height	Contents	
65	58.0	1.0	1.0	2610.0	Pine timber
10	54.0	1.0	1.0	540.0	" "
1	50	1.0	1.0	50.0	" "
				<u>3200.0</u>	<i>Cubic feet pine timber in foundations</i>
1	58.0	57.0	0.3	9918.0	Planking in foundation
1	53.0	25.0	0.5	4125.0	" "
1	53.0	33.0	0.5	8745.0	" 3rd floor
3	23.0	31.1	0.2	2852.0	" "
1	58.0	12.0	0.3	2088.0	Sheet piling
1	19.0	12.0	0.1	228.0	Battens for do
1	55.0	6.0	0.3	990.0	Sheet piling
1	53.0	5.0	0.3	984.0	" "
1	60.0	6.0	0.5	1080.0	" "
				<u>31010.0</u>	<i>Cubic feet B.M. in foundations</i>
4	24.0	0.8	0.6	384.0	Pine timber in Rails
4	24.0	0.6	0.4	192.0	" " "
4	5.0	0.9	0.6	90.0	" " Posts
144	3.0	0.2	0.2	144.0	" " Banisters
9	54.0	1.0	0.10	6480.0	" " Beams
1	54.0	35.0	0.3	4050.0	" " Floor
				<u>11340.0</u>	<i>Cubic feet B.M. Pine in Bridge</i>
1	93.6	0.8	0.6	374.0	Rails
1	93.6	0.6	0.4	187.0	" "
170	3.0	0.2	0.2	170.0	Banisters
				<u>731.0</u>	<i>Cubic feet B.M. Pine railing front of Wheel House</i>
2	58.0	1.0	1.0	516.0	Pine timber in platform
1	55.0	6.0	0.3	1044.0	" " floor of do

Tail race and Waste Weir

Abstract of Measurement

Page	Solid faced Masonry	Rubble Masonry	Dimension Stone	Bolt stone in Sightless walls	Brickwork	Concrete	Pine timber Cubic feet	Planking in foundations B.M.	Pine in Bridges & P.M.	Posts in Bridges & P.M.
8	2643.0	4329.0	451.3	625.0	162.0		1564.0	13983.0		28693
9	18607.5	3022.0	787.0			2267.0				
10							3200.0	31010.0	11340.0	
							116.0	1044.0	731.0	
	22651.3	7351.6	1338.3	625.0	162.0	2267.0				
	839	27277	4975	23	6	84	4580.0	46037	12171.0	28692

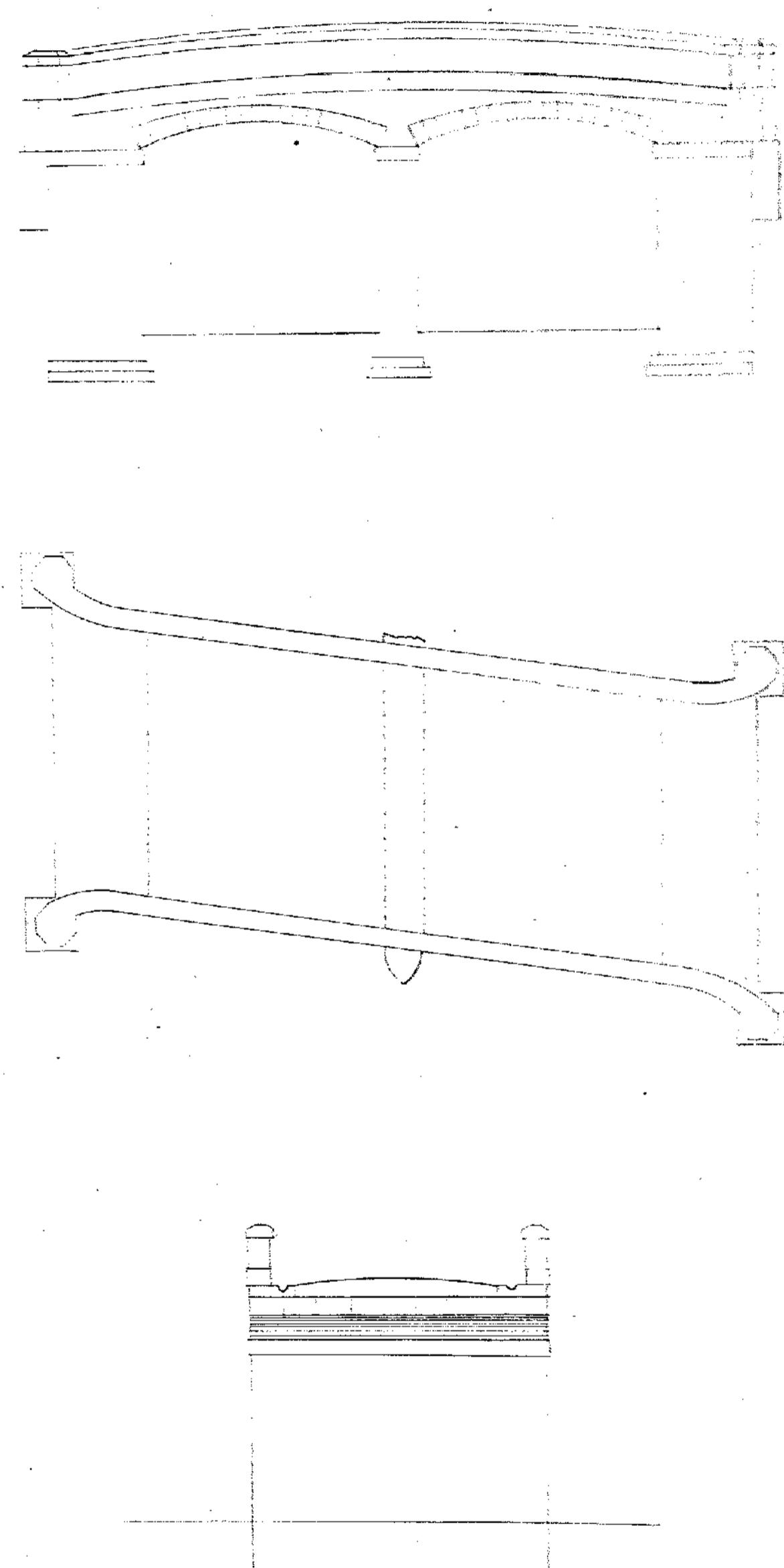


Entrance Bridge

PC	Length	Width	Height	Contents	
3	24.4	Area 02.10		4587.0	Arches openings to be deducted
12	2.6	2.0	1.1	65.0	Face stones of Arches
12	2.5	2.0	1.2	70.0	"
12	2.6	2.0	1.1	65.0	"
24	2.5	2.0	1.0	130.0	"
12	2.6	2.0	1.0	40.0	"
12	2.6	2.0	1.1	44.0	"
12	1.10	2.0	1.1	40.0	"
12	1.10	2.0	3.8	161.4	"
12	2.6	2.0	3.0	180.0	"
3	20.4	24.8	1.10	2758.6	Sheeting of Arches
				3544.2	Cubic feet
				191.7	" Yards of Arches
2	46.6	10.0	15.6	14415.0	Abutments
4	8.0	3.6	15.6	1708.0	Counterforts
3	5.0	3.6	15.6	5424.6	"
2	46.0	5.0	15.6	7130.0	Piers
2	24.6	10.0	1.3	612.0	Abutments impost
2	24.6	5.0	1.3	336.10	Piers do
4	8.0	4.0	1.3	160.0	Pillars & Counterforts do
4	4.5	1.0	1.3	21.3	Buried Angels do
1	90.0	26.4	6.8	14600.0	Spring of Arches to underside of Belt Course
4	4.5	1.0	6.8	113.4	Buried Angels
4	8.0	3.6	6.8	746.8	Pillars & Counterforts
				40386.1	
				8131.1	Arch & Arch Opening deducted
				32255.0	Cubic feet
				1194.7	Cubic Yards Ashlar faced Masonry
4	4.0	4.0	1.3	80.0	Base of Pillars
4	3.6	3.6	3.0	147.0	Shaft do
4	4.0	4.0	0.9	48.0	Cap do
2	93.0	2.5	1.3	523.1	Belt Course
2	93.0	2.0	3.0	1116.0	Parapet
2	93.0	3.6	0.9	348.9	Coping
				2262.10	Cubic feet
				83.7	" Yards Parapet &c
1	90.0	16.0	0.9	1080.0	
				40.0	
					Cubic Yards Macadamizing

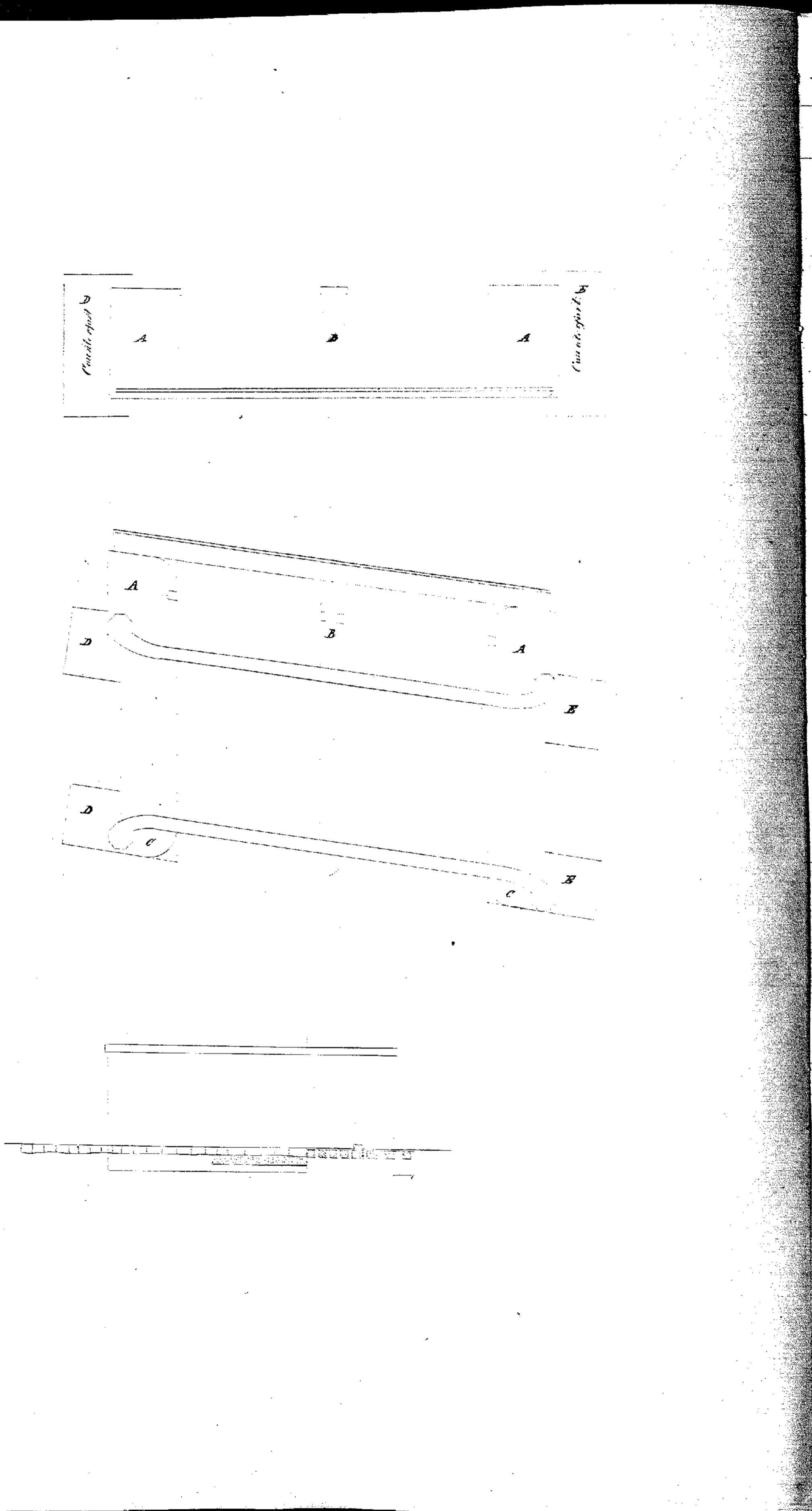
Entrance Bridge (Continued)

	Length	Breadth	Thickness	Contents	
1	95-0	1-6	1-9	<u>249.6</u>	bubic feet Oak Lumber
31	97-0	1-6	1-6	<u>3007.0</u>	Pine
1	97-0	1-3	1-4	<u>161.7</u>	do
				<u>3168.7</u>	bubic feet square pine in foundations
1	97-0	48-4	.3	<u>14113.6</u>	Pine floor
3	20-0	48-6	.3	<u>5820.0</u>	do do
1	97-0	6-0	.3	<u>1746.0</u>	Sheet piling
				<u>21679.6</u>	Feet 15-16 pine in foundations
6	20-0	-6	.5	<u>300.0</u>	Chords
21	20-0	-6	.4	<u>840.0</u>	do
15	24-0	-6	.4	<u>864.0</u>	Striking Plates
135	16-0	-6	.6	<u>6480.0</u>	supports
1	270-0	-6	.3	<u>405.0</u>	Braces
1	190-0	-5	.3	<u>237.0</u>	do
27	24-0	1-0	.2	<u>139.6</u>	Kids
3	24-0	24-0	.15	<u>216.0</u>	Covering Boards
				<u>12582.0</u>	Feet B.M. Bunting
81	1-0	.3	.3	<u>81</u>	Hair Oak Wedges
90	1-0			<u>237</u>	lb. Iron bolts for stop logs



Saint Pierre Bridge

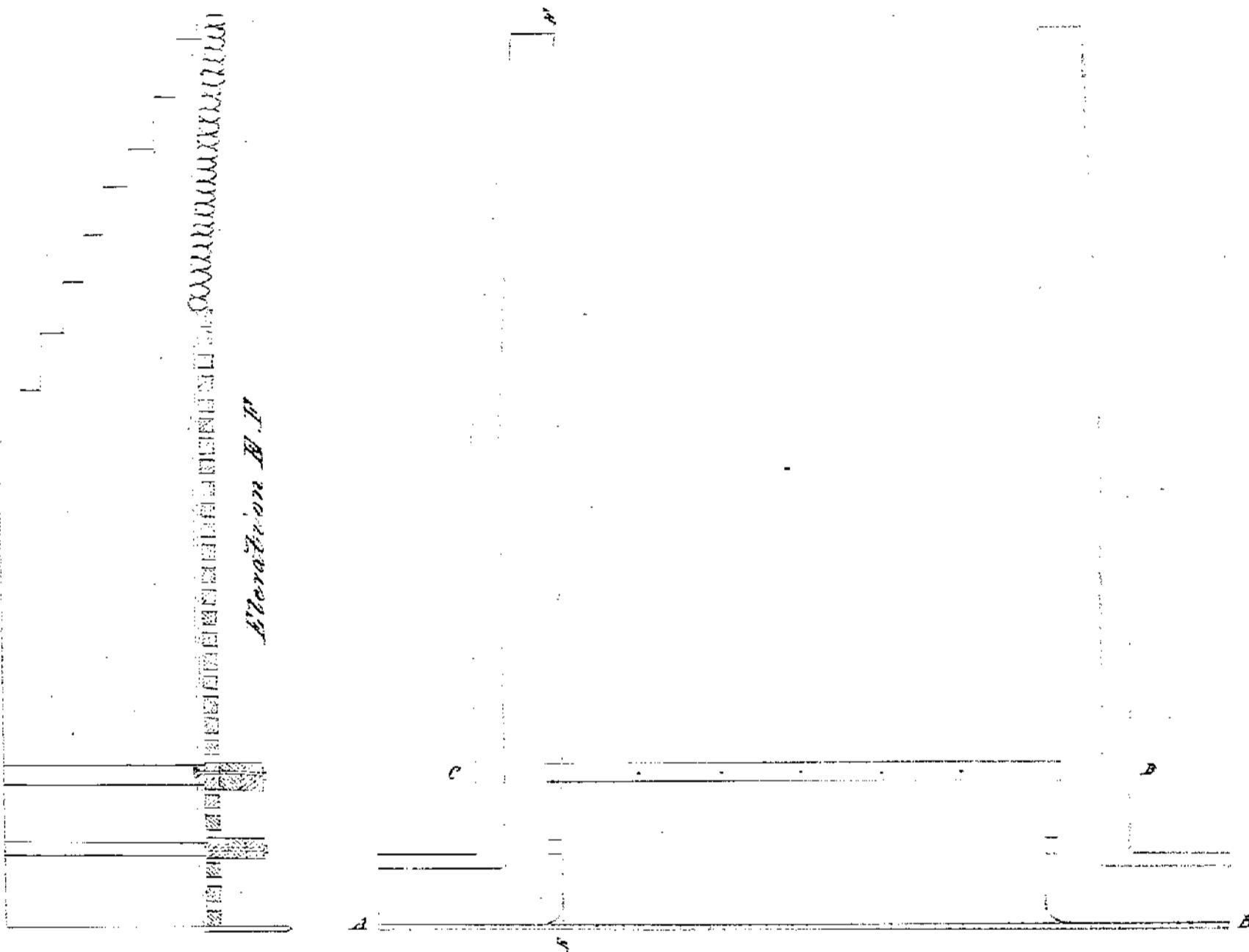
#	Length	Width	Height	Contents
2	33.0	24.10	Area	<u>1145.4</u> Arch openings
2	26.0	23.0	1.8	<u>1533.4</u> cubic feet <u>56 27</u> - Yards in Cubes
3	26.2	8.3	0.9	323.16 Footings of Abutments
2	25.5	7.4	0.4	293.6 Do "
3	25.5	7.03	15.0	5256.3 Abutments up to impost
3	20.8	7.6	1.0	370.0 Do impost
1	28.0	5.0	0.9	105.1 Footings Pier
1	37.6	4.0	0.9	82.6 Do "
1	27.0	3.0	15.0	1215.0 Pier up to impost
1	37.5	3.6	1.0	95.4 Do impost
4	3.0	4.0	6.0	280.0 Counterforts for Pillars
1	5.4.6	23.2	2.3	3840.10 Foot Spring of Arch to extrados at Abutments
1	55.0	23.2	-	1274.2 Segment to Extrados
3	60.0	3.6	0.9	315.0 Channel course
1	3.0	1.0	3.0	9.0 Curved Angles
-	4.0	1.6	3.0	18.0 Do do
4	3.6	3.0	<u>147.1</u>	Pillars up to belt
				12632.5
				<u>3075.5</u> Deduction Arch & Arch opening
				<u>9956.9</u> cubic feet
				<u>368 27</u> - Yds, Ashlar faced Masonry
4	3.6	3.0	1.0	39.0 Pillar bases
4	3.0	3.0	2.6	90.0 Do shafts
4	3.6	3.0	1.1	44.11 Do caps
2	53.0	1.9	2.6	463.9 Belt
2	53.0	1.6	2.6	397.0 Parapet
3	53.0	2.0	1.1	194.4 Capping
				<u>1239.6</u> cubic feet
				<u>15 27</u> - Yards, Pillar, Parapet &
1	53.0	16.0	.9	636.0 Concrete on course of Arch
				<u>23 27</u> cubic yards
1	63.0	18.0	.6	<u>301.6</u> cubic feet
				<u>18 27</u> cubic yards Macadamizing
				<u>3000.6</u> Feet B.M. Bunting
10	1.0			40.0 Feet linear inch square iron bands
				<u>76</u> lbs.
				<u>120</u> Yards for stop log
				<u>200</u> Total



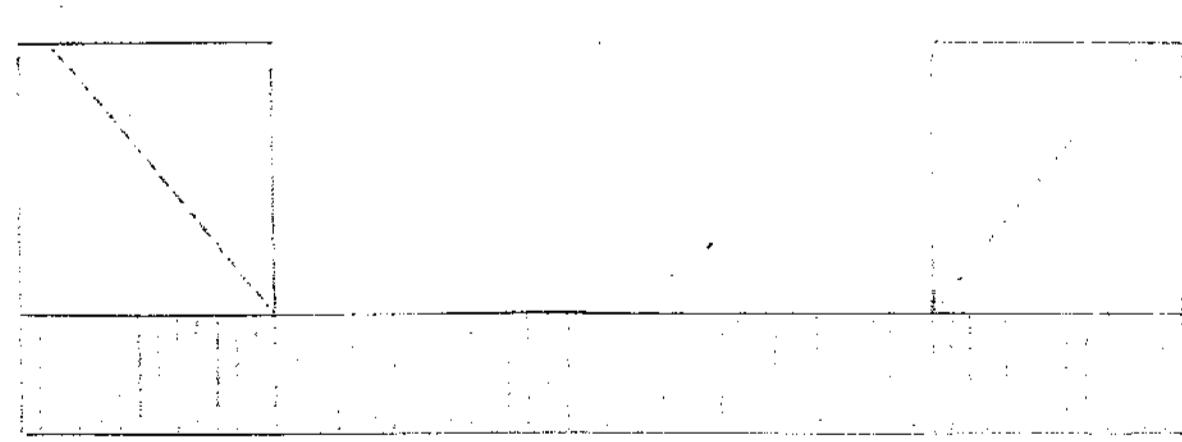
15

Saint Pierre Bridge, St. John's Y.

#	Length	Width	Height	Contents
A 2	11.0	8.0	12.0	3112.0 Abutments West side
- 2	11.3	6.3	1.0	185.8 Go Boring
C 2	6.0	6.0	10.0	8624.0 21 East side
" 2	6.3	6.5	1.0	78.1 21 Boring
D 2	8.6	7.0	18.0	2142.0 Counterforts South end
E 2	7.6	7.0	18.0	1878.0 21 North "
D 1	5.0	1.0	13.0	65.0 Additional thickening West Abutment
B 1	11.0	5.0	12.0	390.0 Pier
1	11.3	3.6	1.0	39.4 21 Boring
2	5.0	2.0	9	30.0 Extended channel course 7802.0 cubic feet <u>289</u> yards Cellular faced masonry
1	5.0	2.0	3.9	525.0 Breast wall at sheet piling cubic yards <u>14.47</u>
4	36.0	5.0	13.0	2808.0 Slope wall in basement <u>104</u> cubic yards Rubble wall
4	26.0	1.3	10.0	1500.0 Dry masonry in slope walls
2	3.0	2.0	2.3	47.3 "
2	3.0	8.0	2.3	114.9 "
2	30.0	25.0	1.0	1500.0 " in bottom
2	37.0	18.0	1.0	<u>1369.0</u> " " " <u>4331.0</u> cubic feet <u>160.47</u> yards dry wall in slopes
2	17.0	12.0	1.5	555.0 Boulders
1	37.0	1.0	1.0	<u>80.0</u> <u>640.6</u> cubic feet <u>33.87</u> yards concrete
7	56.0	1.0	1.0	342.0 Pine
7	56.0	1.0	1.0	<u>126.0</u> 21 <u>518.0</u> cubic feet square pine in foundation
1	56.0	12.0	.5	2016.0 Floor
1	56.0	6.0	.3	<u>672.0</u> Sheet piling <u>2635.0</u> Feet B.M. pine in foundations



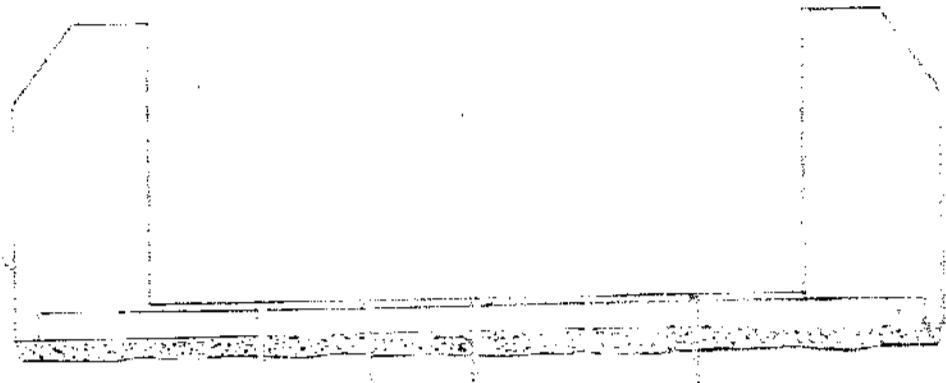
Elevation A.B



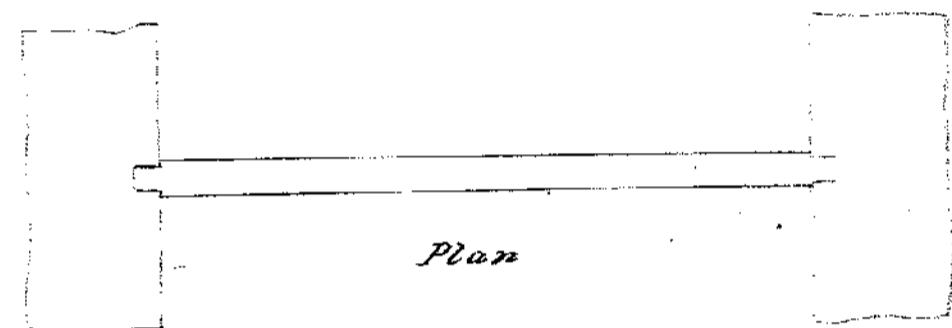
Elevation C.D

Stop Lock at Saulting Pond

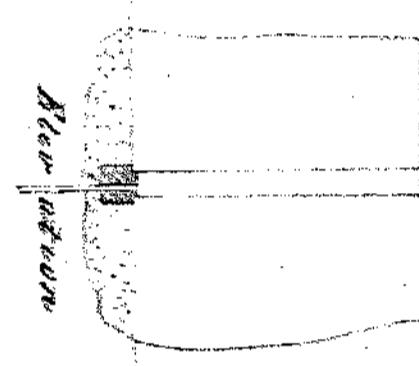
N.	Length	Width	Height	Contents	
2	34.0	6.0	9.0	3672.0	Side Walls
2	34.0	5.0	5.0	1700.0	" "
2	10.0	5.6	9.0	990.0	" "
2	10.0	4.6	2.6	325.0	" "
2	7.0	5.0	9.0	650.0	End "
2	5.0	4.6	5.0	360.0	" "
				<u>7577.0</u>	cu. ft.
				<u>388.3</u>	- Grds Ashlar faced Masonry
2	18.0	4x3	3.0	306.0	Dry Stone Wall
2	14.0	4x3	1.6	178.6	"
2	10.0	4x3	1.9	156.2	"
2	8.0	4x3	1.9	119.0	"
2	6.0	4x3	1.3	69.1	"
				<u>828.9</u>	cu. ft.
				<u>304.3</u>	- Grds rubble Masonry laid dry
1	56.0	1.9	1.10	<u>147.7</u>	cu. ft. Oak timber
3	60.0	1.0	1.0	180.0	Pine
23	56.0	1.0	1.0	1058.0	"
1	46.0	1.4	5.0	366.8	"
1	46.0	1.6	3.4	<u>230.0</u>	"
				<u>1774.8</u>	cu. ft. pine in foundations
1	42.0	56.0	.3	5796.0	Pine floor
3	6.0	7.0	.5	252.0	"
1	60.0	6.0	.3	1080.0	Sheet filling
1	43.0	34.0	.2	<u>2856.0</u>	Second floor
				<u>9084.0</u>	Pine B.M. pine in foundations
10	5.6			<u>55.0</u>	Futsalmed 1 1/2 inch round Iron bolts
				<u>350</u>	lbs
10				<u>30</u>	Heads & Nuts
				<u>350</u>	lbs



Section



Plan



Elevation

Stop Lock at Station 22

No. Length Width Height Contents

1 15.6 7.0 13.7 1365.3 Wall north side

1 14.0 5.0 3.5 339.2 Ft "

1 15.6 7.0 11.3 1220.7 Ft south "

1 14.0 5.0 4.9 332.6 Ft "

3157.6 cubic feet

117 " Yards Ashlar faced masonry

1 48.0 13.0 2.0 1248.0 Concrete

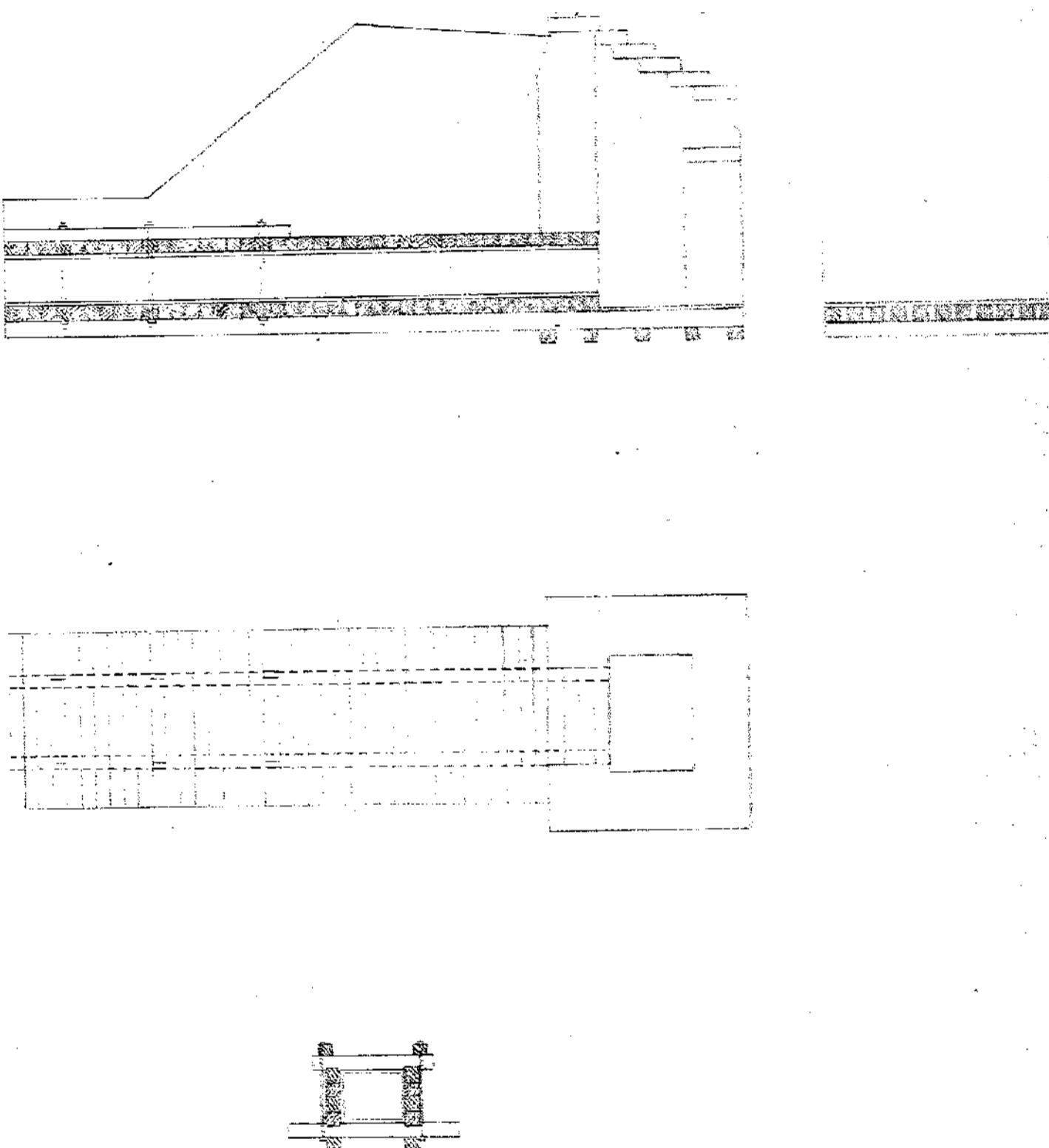
46 cubic yards concrete

1 16.0 1.9 1.10 147.7 cubic feet Oak Timber

5 6.0 36.0 Feet lineal 1 1/2 inch round Iron bolts

180.0 lbs

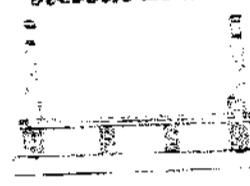
Plan and Sections of half-Cudvort



Bulvert at Station 26+300

No.	Length	Width	Height	Quantity	Description
4	14.6	4.0	15.5	3416.0	Sides Masonry
4	10.9	4.0	1.0	172.0	"
4	8.10	4.0	1.0	141.4	"
4	6.10	4.0	1.0	109.4	"
4	4.6	4.0	1.0	72.0	"
4	3.2	4.0	1.0	54.8	"
2	8.0	4.0	12.0	768.0	Ends
2	8.0	3.6	2.10	158.8	"
2	8.0	3.6	1.6	672.0	"
				<u>5560.0</u>	Bobic feet
				<u>206.0</u>	" Yards Rubble Masonry
16	3.0	3.6	1.0	168.0	Coping
2	14.6	3.6	1.0	101.6	"
4	2.3	3.6	1.0	31.6	"
4	3.0	4.0	1.0	48.0	"
				<u>349.0</u>	Bobic feet
				<u>13</u>	" Yards Coping
2	40.0	1.0	.9	60.0	Top strings
84	8.6	1.0	1.0	714.0	Top Tie
8	84.8	1.0	1.0	672.0	Sides
874	12.1	1.0	1.0	1008.0	Tiles
2	80.0	1.0	1.0	168.0	Mud tiles
16	16.0	1.0	1.0	160.0	Br
32	14.0	1.0	1.0	<u>308.0</u>	Floor of Wells
				<u>3090.0</u>	Bobic feet square pine in foundation
2	40.0	.5	4.0	2268.0	Pine Planking
2	80.0	.5	3.0	1512.0	" "
2	4.0	.5	4.0	96.0	" "
2	16.0	.5	10.0	<u>960.0</u>	" "
				<u>5836.0</u>	Ties B.M. in foundation
12	8.0	1/4		375	
34				24	Note
100	2.0	13/16		<u>672</u>	Ragged Posts
				<u>1091</u>	As Iron Work
1	40.0	6.0	.9	<u>180.0</u>	
				<u>647</u>	Bobic yards Bonneterre

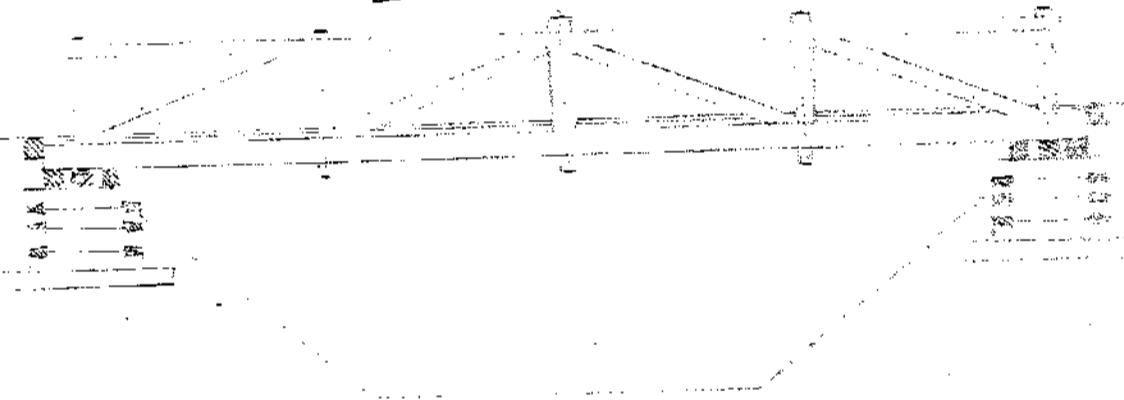
Section du Centre



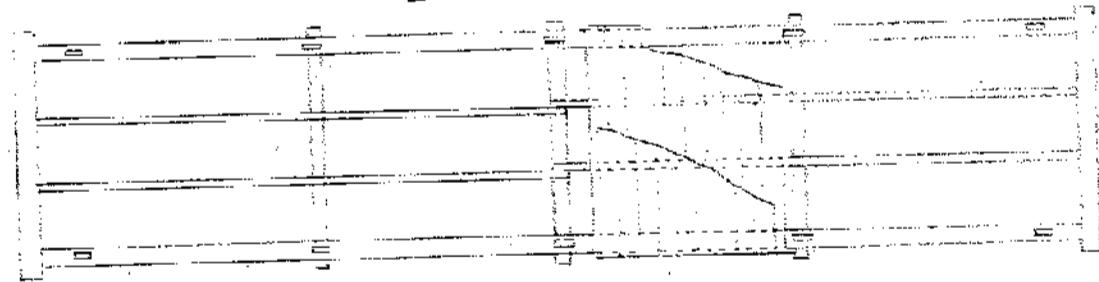
Section de l'End.



Bloc à trois



P. 2 au m.



Farm Bridges 16 in Number

No.	Length	Breadth	Thickness	Contents	
2	12-6	1-0	1-0	25-0	Cedar end pieces
				<u>250-0</u>	Foot Cedar Elbow in ten Bridges
1	12-6	1-0	.8	100-0	Pine brace piece
2	12-6	.9	.6	112-6	2a "
3	55-0	1-3	.10	1375-0	Chords
4	37-4	1-4	.4	585-0	St. intermediate
8	12-6	.9	.6	450-0	Braces
2	4-9	1-0	.6	57-0	King posts
8	4-9	.10	.6	190-0	Posts
2	47-6	1-0	.3	397-0	Water Boards
1	54-0	12-0	.3	1944-0	Floor
1	54-0	12-0	.3	1396-0	St. second
3	50-6	.8	.6	404-0	Top rails
4	4-6	.4	.3	<u>15-0</u>	Braces
				<u>6826-0</u>	Foot B.M. pine in one Bridge
				<u>68275-0</u>	" B.M. pine in ten Bridges
16	10-6	1-0	1-0	3016-0	Cedars in Bails
16	6-0	1-0	1-0	1152-0	" "
4	9-6	1-0	1-0	432-0	" "
2	8-6	9-0	.6	918-0	" "
2	18-0	1-0	1-0	432-0	" "
4	12-6	1-0	1-0	606-0	" "
				<u>5550-0</u>	Foot B.M. in one Bridge
				<u>55500-0</u>	Ditto " ten Bridges
				<u>100</u>	Bak Washers
2	8-0			16-0	
4	7-9			51-0	
4	6-9			<u>29-0</u>	
				<u>74-0</u>	Foot lined 1/4 round Iron Bolt
				<u>325</u>	Ibs
10				<u>15</u>	- Heads & nut
				<u>343</u>	For Bridge
				<u>3630</u>	Ibs in ten Bridges

Appendix - General Abstract of Measurement of Mechanical Works

G. A. Macdonald & Co. Contractors

• Postscript