PROJECT														
ADDRESS														
Date of submission	13.09.2021									info@constructem.com			CONSTRUCT'EM Estimation Services	
Date of plans	07.08.2021													
TOTAL	$ 675,993									(718) 719 2009				

SR #	DWG. NO.	DETAIL NO.	CSI NO.	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	LABOR/EQUIPCOST	MATERIAL COST	SUBCONTRACTER'S COST	UNIT COST	TOTAL COST	SUB TOTAL COST
	22 00 00 PLUMBING													
				MATERIAL: Pumped Discharge: type 316 stainless steel, schedule 10 Rainwater: polyvinyl chloride (PVC), DWV										
				SANITARY/WASTE SYSTEM										
				SANITARY/WAST LINE										
1	P1.1.1 - P2.30.1			6" Pump discharge Line	671	10%	738	LF	$ 9.60	$ 12.5	$ -	$ 22.10	$ 16,312	
2	P1.1.1 - P2.30.1			3" Vent line	5	10%	6	LF	$ 7.20	$ 9.6	$ -	$ 16.80	$ 92	
				RISERS										
3	P1.1.1 - P2.30.1			6" Pump discharge Riser	37	10%	41	LF	$ 7.20	$ 9.6	$ -	$ 16.80	$ 684	
4	P1.1.1 - P2.30.1			3" Vent Riser	14	10%	15	LF	$ 7.20	$ 9.6	$ -	$ 16.80	$ 259	
				CONNECTIONS										
5	P1.1.1 - P2.30.1			Elbow 3"-3"	6	0%	6	EA.				$ -	$ -	
6	P1.1.1 - P2.30.1			Elbow 6"-6"	42	0%	42	EA.				$ -	$ -	
7	P1.1.1 - P2.30.1			TEE 6"-6"-3"	2	0%	2	EA.				$ -	$ -	
8	P1.1.1 - P2.30.1			WYE 6"-6"-6"	1	0%	1	EA.				$ -	$ -	
				INSULATION										
9	P1.1.1 - P2.30.1			1/2" Preformed flexible elastomeric insulation w/ jacket for piping 2.5" and larger	708	10%	779	LF	$ 2.80	$ 3.6	$ -	$ 6.40	$ 4,984	
				FIXTURES										
10	P1.1.1 - P2.30.1			10"X6" Hub Drain w/ trap guards	2	0%	2	EA.	$ 60.00	$ 115.0	$ -	$ 175.00	$ 350	
11	P1.1.1 - P2.30.1			3" D4: Sidewall fresh air vent & cover - SMITH MODEL # 9020	2	0%	2	EA.	$ 45.00	$ 85.0	$ -	$ 130.00	$ 260	
12	P1.1.1 - P2.30.1			6" Butterfly valve	2	0%	2	EA.	$ 60.00	$ 85.0	$ -	$ 145.00	$ 290	
13	P1.1.1 - P2.30.1			6" Wafer check valve	2	0%	2	EA.	$ 30.00	$ 120.0	$ -	$ 150.00	$ 300	
14	P1.1.1 - P2.30.1			6" Bellow expansion joint	3	0%	3	EA.	$ 25.00	$ 55.0	$ -	$ 80.00	$ 240	
15	P1.1.1 - P2.30.1			SP1: Duplex Sump pump - Oil sensing type, 500 GPM, 20HP, 2' 6" X 12' 0" X 72" Basin	1	0%	1	EA.	$ 350.00	$ 650.0	$ -	$ 1,000.00	$ 1,000	
16	P1.1.1 - P2.30.1			SP2: Duplex Sump pump - Oil sensing type, 500 GPM, 20HP, 2' 6" X 12' 0" X 72" Basin	1	0%	1	EA.	$ 350.00	$ 650.0	$ -	$ 1,000.00	$ 1,000	
17	P1.1.1 - P2.30.1			SP3: Duplex Sump pump - 500 GPM, 15HP, 5' 0" X 5' 0" X 60" Basin	1	0%	1	EA.	$ 300.00	$ 600.0	$ -	$ 900.00	$ 900	
18	P1.1.1 - P2.30.1			SP1 & SP2 Duplex pump control panel	1	0%	1	EA.	$ 200.00	$ 650.0	$ -	$ 850.00	$ 850	

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19	P1.1.1 - P2.30.1			Sump pump 3 control panel	1	0%	1	EA.	$ 200.00	$ 450.0	$ -	$ 650.00	$ 650	
20	P1.1.1 - P2.30.1			Concrete Valve box 8'Lx2'Dx2'-4"W	1	0%	1	EA.	$ 120.00	$ 185.0	$ -	$ 305.00	$ 305	
21	P1.1.1 - P2.30.1			Concrete Sump Pump box 14'L x 3'W	1	0%	1	EA.	$ 120.00	$ 185.0	$ -	$ 305.00	$ 305	
22	P1.1.1 - P2.30.1			8" Pipe sleeves	2	0%	2	EA.	$ 50.00	$ 55.0	$ -	$ 105.00	$ 210	
				STORM WATER SYSTEM										
				STORM LINE										
23	P2.5.1			3" Rain water Line	47	10%	52	LF	$ 7.50	$ 8.5	$ -	$ 16.00	$ 827	
				RISERS										
24	P2.5.1			3" Rain water Riser	66	10%	73	LF	$ 7.50	$ 8.5	$ -	$ 16.00	$ 1,162	
				CONNECTIONS										
25	P2.5.1			Elbow 3"-3"	16	0%	16	EA.				$ -	$ -	
26	P2.5.1			WYE 3"-3"-3"	1	0%	1	EA.				$ -	$ -	
				INSULATION										
27	P1.1.1 - P2.30.1			1/2" Preformed fiberglass pipe insulation w/ vapor retarder & all service jacket	113	10%	124	LF	$ 2.80	$ 3.7	$ -	$ 6.45	$ 802	
				FIXTURES										
28	P2.5.1			3" D1: Roof Drain - SMITH MODEL # 1015Y	2	0%	2	EA.	$ 40.00	$ 120.0	$ -	$ 160.00	$ 320	
29	P2.5.1			3" D2: Rainwater overflow drain - SMITH MODEL # 1080Y	2	0%	2	EA.	$ 40.00	$ 120.0	$ -	$ 160.00	$ 320	
30	P2.5.1			3" D3: Rainwater nozzle - SMITH MODEL # 1775	3	0%	3	EA.	$ 40.00	$ 120.0	$ -	$ 160.00	$ 480	
				Plumbing Sub Total										**$ 32,902**
				33 00 00 UTILITIES										
				DEMOLITION										
31	C03.11.1 - C03.14.1			Adjuts storm manhole to grade	1	0%	1	EA.	$ 120.00	$ 850.0	$ -	$ 970.00	$ 970	
32	C03.11.1 - C03.14.1			Cap 18" storm line	1	0%	1	EA.	$ 30.00	$ 65.0	$ -	$ 95.00	$ 95	
33	C03.11.1 - C03.14.1			Cut & plug 2" PVC line	1	0%	1	EA.	$ 20.00	$ 55.0	$ -	$ 75.00	$ 75	
34	C03.11.1 - C03.14.1			Plug RCP storm line	6	0%	6	EA.	$ 30.00	$ 65.0	$ -	$ 95.00	$ 570	
35	C03.11.1 - C03.14.1			Remove & replace grate w/ traffic rated manhole lids	2	0%	2	EA.	$ 120.00	$ -	$ -	$ 120.00	$ 240	
36	C03.11.1 - C03.14.1			Relocate line and manhole as necessary	1	0%	1	Loc.	$ 450.00	$ 850.0	$ -	$ 1,300.00	$ 1,300	
37	C03.11.1 - C03.14.1			Relocate UGP to overhead sign	2	0%	2	EA.	$ 300.00	$ 450.0	$ -	$ 750.00	$ 1,500	
38	C03.11.1 - C03.14.1			Remove 3" San vent pipe	1	0%	1	Loc.	$ 150.00	$ -	$ -	$ 150.00	$ 150	

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39	C03.11.1 - C03.14.1			Remove air conditioner	2	0%	2	EA.	$ 120.00	$ -	$ -	$ 120.00	$ 240	
40	C03.11.1 - C03.14.1			Remove camera	8	0%	8	EA.	$ 60.00	$ -	$ -	$ 60.00	$ 480	
41	C03.11.1 - C03.14.1			Remove drop inlet	2	0%	2	EA.	$ 120.00	$ -	$ -	$ 120.00	$ 240	
42	C03.11.1 - C03.14.1			Remove electrical equipment	27	0%	27	EA.	$ 60.00	$ -	$ -	$ 60.00	$ 1,620	
43	C03.11.1 - C03.14.1			Remove electrical hand hole	1	0%	1	EA.	$ 60.00	$ -	$ -	$ 60.00	$ 60	
44	C03.11.1 - C03.14.1			Remove electrical light pole	2	0%	2	EA.	$ 180.00	$ -	$ -	$ 180.00	$ 360	
45	C03.11.1 - C03.14.1			Remove electrical manhole	2	0%	2	EA.	$ 60.00	$ -	$ -	$ 60.00	$ 120	
46	C03.11.1 - C03.14.1			Remove electrical emergency call box	1	0%	1	EA.	$ 80.00	$ -	$ -	$ 80.00	$ 80	
47	C03.11.1 - C03.14.1			Remove fire hydrant & valve	1	0%	1	EA.	$ 80.00	$ -	$ -	$ 80.00	$ 80	
48	C03.11.1 - C03.14.1			Remove storm inlet	12	0%	12	EA.	$ 120.00	$ -	$ -	$ 120.00	$ 1,440	
49	C03.11.1 - C03.14.1			Remove lift station	1	0%	1	EA.	$ 180.00	$ -	$ -	$ 180.00	$ 180	
50	C03.11.1 - C03.14.1			Remove light fixture on overhead sign	2	0%	2	EA.	$ 30.00	$ -	$ -	$ 30.00	$ 60	
51	C03.11.1 - C03.14.1			Remove light pole	1	0%	1	EA.	$ 180.00	$ -	$ -	$ 180.00	$ 180	
52	C03.11.1 - C03.14.1			Remove storm inlet	2	0%	2	EA.	$ 120.00	$ -	$ -	$ 120.00	$ 240	
53	C03.11.1 - C03.14.1			Remove storm cleanout	1	0%	1	EA.	$ 120.00	$ -	$ -	$ 120.00	$ 120	
54	C03.11.1 - C03.14.1			Remove storm junction box	1	0%	1	EA.	$ 120.00	$ -	$ -	$ 120.00	$ 120	
55	C03.11.1 - C03.14.1			Remove ticket booth	2	0%	2	EA.	$ 80.00	$ -	$ -	$ 80.00	$ 160	
56	C03.11.1 - C03.14.1			Remove water valve	4	0%	4	EA.	$ 30.00	$ -	$ -	$ 30.00	$ 120	
57	C03.11.1 - C03.14.1			Remove backflow preventer	1	0%	1	EA.	$ 30.00	$ -	$ -	$ 30.00	$ 30	
58	C03.11.1 - C03.14.1			Remove water meter	1	0%	1	EA.	$ 45.00	$ -	$ -	$ 45.00	$ 45	
59	C03.11.1 - C03.14.1			Remove yard drain	5	0%	5	EA.	$ 35.00	$ -	$ -	$ 35.00	$ 175	
60	C03.11.1 - C03.14.1			Replace storm structure	1	0%	1	EA.	$ 160.00	$ -	$ -	$ 160.00	$ 160	
61	C08.01.1 - C08.04.1			Remove Cast in place junction chamber	1	0%	1	EA.	$ 125.00	$ -	$ -	$ 125.00	$ 125	
62	C03.11.1 - C03.14.1			Remove 2" Force main	490	0%	490	LF	$ 4.50	$ -	$ -	$ 4.50	$ 2,205	
63	C03.11.1 - C03.14.1			Remove communication line	1335	0%	1,335	LF	$ 5.25	$ -	$ -	$ 5.25	$ 7,009	
64	C03.11.1 - C03.14.1			Relocate communication line	65	0%	65	LF	$ 10.50	$ -	$ -	$ 10.50	$ 683	
65	C03.11.1 - C03.14.1			Relocate power line	65	0%	65	LF	$ 10.50	$ -	$ -	$ 10.50	$ 683	
66	C03.11.1 - C03.14.1			Remove electrical line	2147	0%	2,147	LF	$ 8.50	$ -	$ -	$ 8.50	$ 18,250	
67	C03.11.1 - C03.14.1			Remove storm pipe	1752	0%	1,752	LF	$ 12.50	$ -	$ -	$ 12.50	$ 21,900	
68	C03.11.1 - C03.14.1			Remove Trench drain	302	0%	302	LF	$ 8.60	$ -	$ -	$ 8.60	$ 2,597	
69	C03.11.1 - C03.14.1			Remove 1" water line	53	0%	53	LF	$ 4.50	$ -	$ -	$ 4.50	$ 239	
70	C03.11.1 - C03.14.1			Remove 12" water line	665	0%	665	LF	$ 11.50	$ -	$ -	$ 11.50	$ 7,648	
71	C03.11.1 - C03.14.1			Remove 6" water line	27	0%	27	LF	$ 6.50	$ -	$ -	$ 6.50	$ 176	
				Utilities Sub Total										**$ 72,722**
				NEW WORK										
				SANITARY SEWER SYSTEM										
				SANITARY LINES										
72	C09.03.1 - C09.04.1			4" DIP sanitary line	43	10%	47	LF	$ 5.70	$ 16.5	$ -	$ 22.20	$ 1,044	
73	C09.03.1 - C09.04.1			Excavation	35	10%	39	CY	$ -	$ -	$ -	$ -	$ -	
74	C09.03.1 - C09.04.1			Layback excavation	14	10%	15	CY	$ -	$ -	$ -	$ -	$ -	

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75	C09.03.1 - C09.04.1			12" Compacted aggregate fill	2	10%	2	CY	$ -	$ -	$ -	$ -	$ -	
76	C09.03.1 - C09.04.1			Backfill	33	10%	36	CY	$ -	$ -	$ -	$ -	$ -	
77	C09.03.1 - C09.04.1			4" DIP sanitary line	28	10%	31	LF	$ 5.70	$ 16.5	$ -	$ 22.20	$ 689	
78	C09.03.1 - C09.04.1			Excavation	16	10%	17	CY	$ -	$ -	$ -	$ -	$ -	
79	C09.03.1 - C09.04.1			Backfill	15	10%	17	CY	$ -	$ -	$ -	$ -	$ -	
80	C09.03.1 - C09.04.1			6" DIP sanitary line	97	10%	106	LF	$ 6.90	$ 18.7	$ -	$ 25.55	$ 2,713	
81	C09.03.1 - C09.04.1			Excavation	98	10%	108	CY	$ -	$ -	$ -	$ -	$ -	
82	C09.03.1 - C09.04.1			Layback excavation	41	10%	45	CY	$ -	$ -	$ -	$ -	$ -	
83	C09.03.1 - C09.04.1			12" Compacted aggregate fill	9	10%	10	CY	$ -	$ -	$ -	$ -	$ -	
84	C09.03.1 - C09.04.1			Backfill	81	10%	89	CY	$ -	$ -	$ -	$ -	$ -	
85	C09.03.1 - C09.04.1			6" DIP sanitary line	166	10%	183	LF	$ 6.90	$ 18.65	$ -	$ 25.55	$ 4,674	
86	C09.03.1 - C09.04.1			Excavation	109	10%	120	CY	$ -	$ -	$ -	$ -	$ -	
87	C09.03.1 - C09.04.1			Layback excavation	44	10%	48	CY	$ -	$ -	$ -	$ -	$ -	
88	C09.03.1 - C09.04.1			12" Compacted aggregate fill	12	10%	13	CY	$ -	$ -	$ -	$ -	$ -	
89	C09.03.1 - C09.04.1			Backfill	120	10%	132	CY	$ -	$ -	$ -	$ -	$ -	
90	C09.03.1 - C09.04.1			6" DIP sanitary line	29	10%	32	LF	$ 6.90	$ 18.65	$ -	$ 25.55	$ 815	
91	C09.03.1 - C09.04.1			Excavation	21	10%	24	CY	$ -	$ -	$ -	$ -	$ -	
92	C09.03.1 - C09.04.1			Backfill	9	10%	10	CY	$ -	$ -	$ -	$ -	$ -	
93	C09.03.1 - C09.04.1			6" DIP sanitary line	12	10%	13	LF	$ 6.90	$ 18.65	$ -	$ 25.55	$ 337	
94	C09.03.1 - C09.04.1			Excavation	7	10%	7	CY	$ -	$ -	$ -	$ -	$ -	
95	C09.03.1 - C09.04.1			Backfill	7	10%	7	CY	$ -	$ -	$ -	$ -	$ -	
96	C09.03.1 - C09.04.1			8" DIP sanitary line	108	10%	118	LF	$ 7.20	$ 20.6	$ -	$ 27.75	$ 3,283	
97	C09.03.1 - C09.04.1			Excavation	155	10%	171	CY	$ -	$ -	$ -	$ -	$ -	
98	C09.03.1 - C09.04.1			Layback excavation	52	10%	57	CY	$ -	$ -	$ -	$ -	$ -	
99	C09.03.1 - C09.04.1			12" Compacted aggregate fill	12	10%	13	CY	$ -	$ -	$ -	$ -	$ -	
100	C09.03.1 - C09.04.1			Backfill	164	10%	181	CY	$ -	$ -	$ -	$ -	$ -	
101	C09.03.1 - C09.04.1			8" DIP sanitary line	190	10%	209	LF	$ 7.20	$ 20.6	$ -	$ 27.75	$ 5,800	
102	C09.03.1 - C09.04.1			Excavation	317	10%	348	CY	$ -	$ -	$ -	$ -	$ -	
103	C09.03.1 - C09.04.1			Layback excavation	106	10%	116	CY	$ -	$ -	$ -	$ -	$ -	
104	C09.03.1 - C09.04.1			12" Compacted aggregate fill	21	10%	23	CY	$ -	$ -	$ -	$ -	$ -	
105	C09.03.1 - C09.04.1			Backfill	283	10%	311	CY	$ -	$ -	$ -	$ -	$ -	
106	C09.03.1 - C09.04.1			8" DIP sanitary line	121	10%	133	LF	$ 7.20	$ 20.6	$ -	$ 27.75	$ 3,694	
107	C09.03.1 - C09.04.1			Excavation	143	10%	158	CY	$ -	$ -	$ -	$ -	$ -	
108	C09.03.1 - C09.04.1			Layback excavation	45	10%	49	CY	$ -	$ -	$ -	$ -	$ -	

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109	C09.03.1 - C09.04.1			12" Compacted aggregate fill	10	10%	11	CY	$ -	$ -	$ -	$ -	$ -	
110	C09.03.1 - C09.04.1			Backfill	149	10%	164	CY	$ -	$ -	$ -	$ -	$ -	
111	C09.03.1 - C09.04.1			8" DIP sanitary line - 119LF of 225LF will be installed via jack & bore. Earthwork for remaining section is covered in boring & receiving pit below	225	10%	247	LF	$ 35.00	$ 45.5	$ -	$ 80.50	$ 19,908	
112	C09.03.1 - C09.04.1			28'x15' Boring pit	1	0%	1	EA.	$ -	$ -	$ -	$ -	$ -	
113	C09.03.1 - C09.04.1			Receiving pit 40'x15'	1	0%	1	EA.	$ -	$ -	$ -	$ -	$ -	
114	C09.03.1 - C09.04.1			Excavation	530	10%	583	CY	$ -	$ -	$ -	$ -	$ -	
115	C09.03.1 - C09.04.1			Backfill	545	10%	600	CY	$ -	$ -	$ -	$ -	$ -	
				FIXTURES										
116	C09.03.1 - C09.04.1			Jack & bore 8" steel casing	12	10%	13	LF	$ 40.00	$ 70.0	$ -	$ 110.00	$ 1,452	
117	C09.03.1 - C09.04.1			Jack & bore 12" steel casing	28	10%	31	LF	$ 50.00	$ 85.0	$ -	$ 135.00	$ 4,158	
118	C09.03.1 - C09.04.1			Jack & bore 18" steel casing	192	10%	211	LF	$ 60.00	$ 135.0	$ -	$ 195.00	$ 41,184	
119	C09.03.1 - C09.04.1			Utility protection cap, concrete	35	10%	39	LF	$ 35.00	$ 65.0	$ -	$ 100.00	$ 3,850	
120	C09.03.1 - C09.04.1			4" Cleanout	2	0%	2	EA.	$ 120.00	$ 195.0	$ -	$ 315.00	$ 630	
121	C09.03.1 - C09.04.1			4" Stub out	2	0%	2	EA.	$ 60.00	$ 115.0	$ -	$ 175.00	$ 350	
122	C09.03.1 - C09.04.1			8" pipe cap	1	0%	1	EA.	$ 30.00	$ 65.0	$ -	$ 95.00	$ 95	
123	C09.03.1 - C09.04.1			8" Cleanout	1	0%	1	EA.	$ 120.00	$ 195.0	$ -	$ 315.00	$ 315	
124	C09.03.1 - C09.04.1			Utility marker	1	0%	1	EA.	$ 30.00	$ 65.0	$ -	$ 95.00	$ 95	
125	C09.03.1 - C09.04.1			SSMH-01: Precast Manhole, 5.7'H, 5' Dia.	1	0%	1	EA.	$ 350.00	$ 850.0	$ -	$ 1,200.00	$ 1,200	
126	C09.03.1 - C09.04.1			SSMH-02: Precast Manhole, 7.7'H, 5' Dia.	1	0%	1	EA.	$ 350.00	$ 950.0	$ -	$ 1,300.00	$ 1,300	
127	C09.03.1 - C09.04.1			SSMH-03: Precast Manhole, 7.9'H, 5' Dia.	1	0%	1	EA.	$ 350.00	$ 1,050.0	$ -	$ 1,400.00	$ 1,400	
128	C09.03.1 - C09.04.1			SSMH-04: Precast Manhole, 20'H, 5' Dia.	1	0%	1	EA.	$ 850.00	$ 1,200.0	$ -	$ 2,050.00	$ 2,050	
129	C09.03.1 - C09.04.1			SSMH-05: Precast Manhole, 9.5'H, 5' Dia.	1	0%	1	EA.	$ 400.00	$ 1,100.0	$ -	$ 1,500.00	$ 1,500	
130	C09.03.1 - C09.04.1			SSMH-06: Precast Manhole, 8'H, 5' Dia.	1	0%	1	EA.	$ 350.00	$ 1,050.0	$ -	$ 1,400.00	$ 1,400	
131	C09.03.1 - C09.04.1			SSMH-07: Precast Manhole, 8.5'H, 5' Dia.	1	0%	1	EA.	$ 350.00	$ 1,050.0	$ -	$ 1,400.00	$ 1,400	
132	C09.03.1 - C09.04.1			SSMH-08: Precast Manhole, 4.7'H, 5' Dia.	1	0%	1	EA.	$ 350.00	$ 850.0	$ -	$ 1,200.00	$ 1,200	
133	C09.03.1 - C09.04.1			Excavation	270	10%	296	CY	$ -	$ -	$ -	$ -	$ -	
134	C09.03.1 - C09.04.1			Backfill	56	10%	62	CY	$ -	$ -	$ -	$ -	$ -	
				STORM DRAINAGE SYSTEM										
				DRAINAGE LINES										
				STROM DRAINAGE LINES										
135	C08.01.1 - C08.04.1			12" HDPE storm line	60	10%	66	LF	$ 7.80	$ 16.5	$ -	$ 24.30	$ 1,604	
136	C08.01.1 - C08.04.1			15" HDPE storm line	41	10%	45	LF	$ 7.80	$ 19.0	$ -	$ 26.75	$ 1,206	
137	C09.03.1 - C09.04.1			Excavation	122	10%	134	CY	$ -	$ -	$ -	$ -	$ -	
138	C09.03.1 - C09.04.1			Layback excavation	37	10%	41	CY	$ -	$ -	$ -	$ -	$ -	
139	C09.03.1 - C09.04.1			12" Compacted aggregate fill	12	10%	13	CY	$ -	$ -	$ -	$ -	$ -	
140	C09.03.1 - C09.04.1			Backfill	73	10%	81	CY	$ -	$ -	$ -	$ -	$ -	
141	C08.01.1 - C08.04.1			15" RCP storm line	434	10%	477	LF	$ 8.20	$ 18.2	$ -	$ 26.40	$ 12,603	

PROJECT

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SR #	DWG. NO.	DETAIL NO.	CSI NO.	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	LABOR/EQUIPCOST	MATERIAL COST	SUBCONTRACTER'S COST	UNIT COST	TOTAL COST	SUB TOTAL COST
142	C08.01.1 - C08.04.1			18" RCP storm line	308	10%	339	LF	$ 9.25	$ 23.2	$ -	$ 32.45	$ 10,994	
143	C08.01.1 - C08.04.1			24" RCP storm line	438	10%	482	LF	$ 14.80	$ 25.5	$ -	$ 40.30	$ 19,417	
144	C08.01.1 - C08.04.1			30" RCP storm line	300	10%	330	LF	$ 16.90	$ 32.2	$ -	$ 49.10	$ 16,203	
145	C08.01.1 - C08.04.1			36" RCP storm line	211	10%	232	LF	$ 20.00	$ 35.6	$ -	$ 55.60	$ 12,905	
146	C09.03.1 - C09.04.1			Excavation	3580	10%	3,938	CY	$ -	$ -	$ -	$ -	$ -	
147	C09.03.1 - C09.04.1			Layback excavation	877	10%	964	CY	$ -	$ -	$ -	$ -	$ -	
148	C09.03.1 - C09.04.1			12" Compacted aggregate fill	256	10%	281	CY	$ -	$ -	$ -	$ -	$ -	
149	C09.03.1 - C09.04.1			Backfill	2667	10%	2,934	CY	$ -	$ -	$ -	$ -	$ -	
150	C08.01.1 - C08.04.1			4" PVC Line	43	10%	48	LF	$ 4.60	$ 5.5	$ -	$ 10.10	$ 482	
151	C08.01.1 - C08.04.1			6" Under drain line	2288	10%	2,517	LF	$ 5.25	$ 8.3	$ -	$ 13.50	$ 33,977	
152	C09.03.1 - C09.04.1			Excavation	310	10%	341	CY	$ -	$ -	$ -	$ -	$ -	
153	C09.03.1 - C09.04.1			12" Compacted aggregate fill	103	10%	114	CY	$ -	$ -	$ -	$ -	$ -	
				CANOPY/ROOF DRAIN LINES										
154	C08.01.1 - C08.04.1			6" DIP roof drain line	12	10%	13	LF	$ 6.90	$ 12.7	$ -	$ 19.55	$ 258	
155	C08.01.1 - C08.04.1			6" DIP canopy drain line	283	10%	311	LF	$ 8.40	$ 13.7	$ -	$ 22.05	$ 6,864	
156	C08.01.1 - C08.04.1			8" DIP canopy drain line	1130	10%	1,243	LF	$ 9.90	$ 16.0	$ -	$ 25.85	$ 32,132	
157	C08.01.1 - C08.04.1			12" DIP canopy drain line	499	10%	549	LF	$ 9.90	$ 16.5	$ -	$ 26.40	$ 14,491	
158	C08.01.1 - C08.04.1			12" DIP roof drain line	50	10%	55	LF	$ 9.90	$ 15.3	$ -	$ 25.20	$ 1,386	
159	C08.01.1 - C08.04.1			14" DIP canopy drain line	209	10%	230	LF	$ 10.60	$ 16.2	$ -	$ 26.80	$ 6,161	
160	C09.03.1 - C09.04.1			Excavation	1940	10%	2,134	CY	$ -	$ -	$ -	$ -	$ -	
161	C09.03.1 - C09.04.1			Layback excavation	178	10%	196	CY	$ -	$ -	$ -	$ -	$ -	
162	C09.03.1 - C09.04.1			12" Compacted aggregate fill	243	10%	267	CY	$ -	$ -	$ -	$ -	$ -	
163	C09.03.1 - C09.04.1			Backfill	906	10%	996	CY	$ -	$ -	$ -	$ -	$ -	
				SLOT DRAINS										
164	C08.01.1 - C08.04.1			1/4" wide Stainless steel slot drain with 4" pipe	90	10%	99	LF	$ 8.50	$ 10.2	$ -	$ 18.65	$ 1,846	
165	C08.01.1 - C08.04.1			12" galvanized steel slot drain w/ HDPE pipe	1005	10%	1,106	LF	$ 14.00	$ 18.2	$ -	$ 32.15	$ 35,542	
166	C08.01.1 - C08.04.1			15" galvanized steel slot drain w/ HDPE Slot drain	191	10%	210	LF	$ 16.50	$ 19.0	$ -	$ 35.45	$ 7,448	
167	C09.03.1 - C09.04.1			Excavation	1071	10%	1,178	CY	$ -	$ -	$ -	$ -	$ -	
168	C09.03.1 - C09.04.1			Layback excavation	306	10%	337	CY	$ -	$ -	$ -	$ -	$ -	
169	C09.03.1 - C09.04.1			12" Compacted aggregate fill	167	10%	183	CY	$ -	$ -	$ -	$ -	$ -	
170	C09.03.1 - C09.04.1			Backfill	420	10%	462	CY	$ -	$ -	$ -	$ -	$ -	
				STORM STRUCTURES										
				STORM DRAINS										
171	C8.1.1			4" NDS Speed-D Channel drain w/ glass B grate - 4" nom. Monolithic concrete pour to encase channel w/ #3 rebars	22	10%	24	LF	$ 20.00	$ 25.3	$ -	$ 45.25	$ 1,095	
				CATCH BASINS										
172	C08.01.1 - C08.04.1			A0: COA type "B" Catch basin triple grate, 12'x4' Depth: 6.86'	1	0%	1	EA.	$ 260.00	$ 350.0	$ -	$ 610.00	$ 610	
173	C09.03.1 - C09.04.1			Excavation	17	10%	18	CY	$ -	$ -	$ -	$ -	$ -	
174	C09.03.1 - C09.04.1			Backfill	12	10%	13	CY	$ -	$ -	$ -	$ -	$ -	

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				MANHOLES										
175	C08.01.1 - C08.04.1			A0.2: GDOT 1011A Manhole, 5' Dia Depth: 12.72'	1	0%	1	EA.	$ 480.00	$ 850.0	$ -	$ 1,330.00	$ 1,330	
176	C08.01.1 - C08.04.1			A0.3: GDOT 1011A Manhole, 5' Dia. Depth: 11.1'	1	0%	1	EA.	$ 480.00	$ 850.0	$ -	$ 1,330.00	$ 1,330	
177	C08.01.1 - C08.04.1			A1.0: GDOT 1011A Manhole Depth: 10.79'	1	0%	1	EA.	$ 480.00	$ 850.0	$ -	$ 1,330.00	$ 1,330	
178	C08.01.1 - C08.04.1			A3: GDOT 1011A Manhole 5' Dia Depth: 12.42'	1	0%	1	EA.	$ 480.00	$ 850.0	$ -	$ 1,330.00	$ 1,330	
179	C08.01.1 - C08.04.1			A3.2: GDOT 1011A Manhole Depth: 12.86'	1	0%	1	EA.	$ 480.00	$ 850.0	$ -	$ 1,330.00	$ 1,330	
180	C08.01.1 - C08.04.1			A4: GDOT 1011A Manhole 5' Dia Depth: 11.88'	1	0%	1	EA.	$ 480.00	$ 850.0	$ -	$ 1,330.00	$ 1,330	
181	C08.01.1 - C08.04.1			A4.1: GDOT 1011A Manhole Depth: 15.75'	1	0%	1	EA.	$ 500.00	$ 950.0	$ -	$ 1,450.00	$ 1,450	
182	C08.01.1 - C08.04.1			A5: GDOT 1011A Manhole Depth: 11.18'	1	0%	1	EA.	$ 480.00	$ 850.0	$ -	$ 1,330.00	$ 1,330	
183	C08.01.1 - C08.04.1			A6.2: GDOT 1011A Manhole Depth: 10.13'	1	0%	1	EA.	$ 450.00	$ 850.0	$ -	$ 1,300.00	$ 1,300	
184	C08.01.1 - C08.04.1			A5.1: GDOT 1011A Manhole Depth: 16.48'	1	0%	1	EA.	$ 500.00	$ 950.0	$ -	$ 1,450.00	$ 1,450	
185	C08.01.1 - C08.04.1			A6: GDOT 1011A Manhole 5' Dia Depth: 9.82'	1	0%	1	EA.	$ 480.00	$ 850.0	$ -	$ 1,330.00	$ 1,330	
186	C08.01.1 - C08.04.1			A9: GDOT 1011A Manhole Depth: 8.69'	1	0%	1	EA.	$ 480.00	$ 850.0	$ -	$ 1,330.00	$ 1,330	
187	C09.03.1 - C09.04.1			Excavation	63	10%	69	CY	$ -	$ -	$ -	$ -	$ -	
188	C09.03.1 - C09.04.1			Backfill	44	10%	48	CY	$ -	$ -	$ -	$ -	$ -	
				DROP INLETS										
189	C08.01.1 - C08.04.1			A0.1: GDOT 1019B Drop InletI type V1, 5' Dia Depth: 6.77'	1	0%	1	EA.	$ 250.00	$ 315.0	$ -	$ 565.00	$ 565	
190	C08.01.1 - C08.04.1			A1: GDOT 1019B Drop Inlet V1, 5' Dia Depth: 6.45'	1	0%	1	EA.	$ 250.00	$ 315.0	$ -	$ 565.00	$ 565	
191	C08.01.1 - C08.04.1			A1.1.1: GDOT 1019B Drop Inlet V1 Depth: 6.45'	1	0%	1	EA.	$ 250.00	$ 315.0	$ -	$ 565.00	$ 565	
192	C08.01.1 - C08.04.1			A2: GDOT 1019B Drop Inlet TYPE V1 Depth: 12.41'	1	0%	1	EA.	$ 280.00	$ 365.0	$ -	$ 645.00	$ 645	
193	C08.01.1 - C08.04.1			A7.2.1: GDOT 1019B Drop Inlet TYPE V1 Depth: 6'	1	0%	1	EA.	$ 250.00	$ 315.0	$ -	$ 565.00	$ 565	
194	C08.01.1 - C08.04.1			A7.2.2: GDOT 1019A Drop Inlet TYPE Depth: 9.24'	1	0%	1	EA.	$ 250.00	$ 365.0	$ -	$ 615.00	$ 615	
195	C08.01.1 - C08.04.1			A8: GDOT 1019B Drop Inlet TYPE V1 Depth: 10'	1	0%	1	EA.	$ 270.00	$ 385.0	$ -	$ 655.00	$ 655	

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196	C08.01.1 - C08.04.1			A10: GDOT 1019B Drop Inlet TYPE V1 Depth: 4.58'	1	0%	1	EA.	$ 250.00	$ 365.0	$ -	$ 615.00	$ 615	
197	C08.01.1 - C08.04.1			B1: GDOT 1019A Drop Inlet TYPE C Depth: 4.78'	1	0%	1	EA.	$ 220.00	$ 315.0	$ -	$ 535.00	$ 535	
198	C08.01.1 - C08.04.1			A6.1.1: GDOT 1019B Drop Inlet TYPE V1 Depth: 4.45'	1	0%	1	EA.	$ 220.00	$ 315.0	$ -	$ 535.00	$ 535	
199	C08.01.1 - C08.04.1			A7: GDOT 1019A Drop Inlet TYPE C 4' Dia Depth: 9.53'	1	0%	1	EA.	$ 250.00	$ 365.0	$ -	$ 615.00	$ 615	
200	C08.01.1 - C08.04.1			C1: GDOT 1019B Drop Inlet TYPE V1 Depth: 8.57'	1	0%	1	EA.	$ 250.00	$ 365.0	$ -	$ 615.00	$ 615	
201	C08.01.1 - C08.04.1			D1: GDOT 1019B Drop Inlet TYPE V1 Depth: 7.32'	1	0%	1	EA.	$ 250.00	$ 365.0	$ -	$ 615.00	$ 615	
202	C09.03.1 - C09.04.1			Excavation	123	10%	135	CY	$ -	$ -	$ -	$ -	$ -	
203	C09.03.1 - C09.04.1			Backfill	85	10%	94	CY	$ -	$ -	$ -	$ -	$ -	
				CLEANOUTS										
204	C08.01.1 - C08.04.1			A3.1.1: 14" STORM CLEAN OUT Depth: 11.91'	1	0%	1	EA.	$ 250.00	$ 315.0	$ -	$ 565.00	$ 565	
205	C08.01.1 - C08.04.1			A3.1.1.1:12" STORM CLEAN OUT Depth: 7.72'	1	0%	1	EA.	$ 230.00	$ 300.0	$ -	$ 530.00	$ 530	
206	C08.01.1 - C08.04.1			A3.1.2: 14" STORM CLEAN OUT Depth: 8.56'	1	0%	1	EA.	$ 250.00	$ 315.0	$ -	$ 565.00	$ 565	
207	C08.01.1 - C08.04.1			A6.3.1: 12" STORM CLEAN OUT Depth: 7.65'	1	0%	1	EA.	$ 230.00	$ 300.0	$ -	$ 530.00	$ 530	
208	C08.01.1 - C08.04.1			A6.3.1.1: 12" STORM CLEAN OUT Depth: 7.76'	1	0%	1	EA.	$ 230.00	$ 300.0	$ -	$ 530.00	$ 530	
209	C08.01.1 - C08.04.1			A6.3.2: 12" STORM CLEAN OUT Depth: 5.32'	1	0%	1	EA.	$ 220.00	$ 310.0	$ -	$ 530.00	$ 530	
210	C08.01.1 - C08.04.1			A8.2.1: 12" STORM CLEAN OUT Depth: 4.71'	1	0%	1	EA.	$ 220.00	$ 310.0	$ -	$ 530.00	$ 530	
211	C08.01.1 - C08.04.1			A8.2.2: 12" STORM CLEAN OUT Depth: 2.77'	1	0%	1	EA.	$ 220.00	$ 310.0	$ -	$ 530.00	$ 530	
212	C08.01.1 - C08.04.1			A9.2.1: 12" STORM CLEAN OUT Depth: 4.9'	1	0%	1	EA.	$ 220.00	$ 310.0	$ -	$ 530.00	$ 530	
213	C08.01.1 - C08.04.1			A9.2.2: 12" STORM CLEAN OUT Depth: 2.78'	1	0%	1	EA.	$ 220.00	$ 310.0	$ -	$ 530.00	$ 530	
214	C08.01.1 - C08.04.1			A9.3.1: 12" STORM CLEAN OUT Depth: 4.9'	1	0%	1	EA.	$ 220.00	$ 310.0	$ -	$ 530.00	$ 530	
215	C08.01.1 - C08.04.1			A9.3.2: 12" STORM CLEAN OUT Depth: 2.92'	1	0%	1	EA.	$ 220.00	$ 310.0	$ -	$ 530.00	$ 530	
216	C08.01.1 - C08.04.1			D1.1.1: 12" STORM CLEAN OUT Depth: 5.27'	1	0%	1	EA.	$ 270.00	$ 350.0	$ -	$ 620.00	$ 620	

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217	C08.01.1 - C08.04.1			D1.1.2: 12" STORM CLEAN OUT Depth: 4.36'	1	0%	1	EA.	$ 220.00	$ 310.0	$ -	$ 530.00	$ 530	
218	C08.01.1 - C08.04.1			D1.2.1: 12" STORM CLEAN OUT Depth: 4.34'	1	0%	1	EA.	$ 220.00	$ 310.0	$ -	$ 530.00	$ 530	
219	C08.01.1 - C08.04.1			D1.2.2: 12" STORM CLEAN OUT Depth: 3.39'	1	0%	1	EA.	$ 220.00	$ 310.0	$ -	$ 530.00	$ 530	
220	C08.01.1 - C08.04.1			C1.1: 12" STORM CLEAN OUT Depth: 3.91'	1	0%	1	EA.	$ 220.00	$ 310.0	$ -	$ 530.00	$ 530	
221	C08.01.1 - C08.04.1			C1.2: 12" STORM CLEAN OUT Depth: 2.96'	1	0%	1	EA.	$ 220.00	$ 310.0	$ -	$ 530.00	$ 530	
222	C09.03.1 - C09.04.1			Excavation	42	10%	46	CY	$ -	$ -	$ -	$ -	$ -	
223	C09.03.1 - C09.04.1			Backfill	19	10%	21	CY	$ -	$ -	$ -	$ -	$ -	
				SLOT DRAIN ADAPTERS										
224	C08.01.1 - C08.04.1			C2: SLOT DRAIN ADAPTER Depth: 2'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
225	C08.01.1 - C08.04.1			C3: SLOT DRAIN ADAPTER Depth: 1.95'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
226	C08.01.1 - C08.04.1			C4: SLOT DRAIN ADAPTER Depth: 1.86'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
227	C08.01.1 - C08.04.1			C5: SLOT DRAIN END CAP Depth: 1.5'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
228	C08.01.1 - C08.04.1			D2: SLOT DRAIN ADAPTER Depth: 2.24'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
229	C08.01.1 - C08.04.1			D3: SLOT DRAIN ADAPTER Depth: 1.95'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
230	C08.01.1 - C08.04.1			D4: SLOT DRAIN ADAPTER Depth: 2.17'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
231	C08.01.1 - C08.04.1			D5: SLOT DRAIN END CAP Depth: 1.49'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
232	C08.01.1 - C08.04.1			A7.1.1: SLOT DRAIN ADAPTER Depth: 2.17'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
233	C08.01.1 - C08.04.1			A7.1.2: SLOT DRAIN END CAP Depth: 2.13'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
234	C08.01.1 - C08.04.1			A8.1.1: SLOT DRAIN ADAPTER Depth: 2.17'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
235	C08.01.1 - C08.04.1			A8.1.2: SLOT DRAIN END CAP Depth: 1.84'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
236	C08.01.1 - C08.04.1			A9.1.1: SLOT DRAIN ADAPTER Depth: 2.17'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
237	C08.01.1 - C08.04.1			A9.1.2: SLOT DRAIN ADAPTER Depth: 2.17'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	

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238	C08.01.1 - C08.04.1			A9.1.3: SLOT DRAIN END CAP Depth: 1.55'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
239	C08.01.1 - C08.04.1			B2: SLOT DRAIN ADAPTER Depth: 2.19'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
240	C08.01.1 - C08.04.1			B3: SLOT DRAIN ADAPTER Depth: 2.2'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
241	C08.01.1 - C08.04.1			B4: SLOT DRAIN ADAPTER Depth: 2.11'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
242	C08.01.1 - C08.04.1			B5: SLOT DRAIN END CAP Depth: 2.42'	1	0%	1	EA.	$ 140.00	$ 165.0	$ -	$ 305.00	$ 305	
243	C09.03.1 - C09.04.1			Excavation	19	10%	21	CY	$ -	$ -	$ -	$ -	$ -	
244	C09.03.1 - C09.04.1			Backfill	8	10%	9	CY	$ -	$ -	$ -	$ -	$ -	
				JUNCTION CHAMBERS										
245	C08.01.1 - C08.04.1			EX0: Cast in place junction chamber, 10'x10' Depth: 11'	1	0%	1	EA.	$ 300.00	$ 565.0	$ -	$ 865.00	$ 865	
				MISC.										
246	C08.01.1 - C08.04.1			Connect 12" DIP at existing cleanout	2	0%	2	EA.	$ 250.00	$ 380.0	$ -	$ 630.00	$ 1,260	
				WATER UTILITIES										
				WATER SERVICES										
247	C09.02.1			3/4" water meter assembly	2	0%	2	EA.	$ 500.00	$ 650.0	$ -	$ 1,150.00	$ 2,300	
248	C09.02.1			1" water meter assembly	2	0%	2	EA.	$ 500.00	$ 650.0	$ -	$ 1,150.00	$ 2,300	
249	C09.02.1			8" fire protection meter w/ bypass assembly	1	0%	1	EA.	$ 500.00	$ 650.0	$ -	$ 1,150.00	$ 1,150	
250	C09.02.1			Fire hydrant assembly, COA type "A"	3	0%	3	EA.	$ 400.00	$ 565.0	$ -	$ 965.00	$ 2,895	
				WATER MAIN STRUCTURES										
251	C09.02.1			3'x2'x6' water utility box (for 3/4" line)	2	0%	2	EA.	$ 260.00	$ 385.0	$ -	$ 645.00	$ 1,290	
252	C09.02.1			4'x2.5'x6' water utility box (for 1" line)	3	0%	3	EA.	$ 280.00	$ 415.0	$ -	$ 695.00	$ 1,738	
253	C09.02.1			9'x6'x6' utility vault for 8" fire line DDCV vault	1	0%	1	EA.	$ 390.00	$ 560.0	$ -	$ 950.00	$ 950	
254	C09.02.1			12'x6'x6' Utility vault for 8" fire line meter vault	1	0%	1	EA.	$ 350.00	$ 585.0	$ -	$ 935.00	$ 935	
255	C09.02.1			3/4" backflow preventer assembly	2	0%	2	EA.	$ 300.00	$ 560.0	$ -	$ 860.00	$ 1,720	
256	C09.02.1			1" backflow preventer assembly	1	0%	1	EA.	$ 250.00	$ 400.0	$ -	$ 650.00	$ 650	
257	C09.02.1			8" double detector check valve w/ backflow preventer	1	0%	1	EA.	$ 350.00	$ 585.0	$ -	$ 935.00	$ 935	
				WATER MAIN AND COMPONENTS										
258	C09.02.1			6" 45 degree bend	1	0%	1	EA.	$ -	$ -	$ -	$ -	$ -	
259	C09.02.1			6" 90 degree bend	1	0%	1	EA.	$ -	$ -	$ -	$ -	$ -	
260	C09.02.1			6" valve box	3	0%	3	EA.	$ 45.00	$ 85.0	$ -	$ 130.00	$ 390	
261	C09.02.1			8" gate valve	3	0%	3	EA.	$ 65.00	$ 85.0	$ -	$ 150.00	$ 450	
262	C09.02.1			8" valve box	3	0%	3	EA.	$ 60.00	$ 85.0	$ -	$ 145.00	$ 435	
263	C09.02.1			8" 90 degree bend	2	0%	2	EA.	$ -	$ -	$ -	$ -	$ -	
264	C09.02.1			8"x8" Tee	1	0%	1	EA.	$ -	$ -	$ -	$ -	$ -	
265	C09.02.1			8"x6" Tee	1	0%	1	EA.	$ -	$ -	$ -	$ -	$ -	
266	C09.02.1			12"x6" DI tee	2	0%	2	EA.	$ -	$ -	$ -	$ -	$ -	

PROJECT

ADDRESS

Date of submission	13.09.2021	info@constructem.com	CONSTRUCT'EM Estimation Services
Date of plans	07.08.2021		
TOTAL	**$ 675,993**	(718) 719 2009	

SR #	DWG. NO.	DETAIL NO.	CSI NO.	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	LABOR/EQUIPCOST	MATERIAL COST	SUBCONTRACTER'S COST	UNIT COST	TOTAL COST	SUB TOTAL COST
267	C09.02.1			12"x8" DI tee	1	0%	1	EA.	$ -	$ -	$ -	$ -	$ -	
268	C09.02.1			12"x12" DI tee	3	0%	3	EA.	$ -	$ -	$ -	$ -	$ -	
269	C09.02.1			12" 45 deg. Bend	14	0%	14	EA.	$ -	$ -	$ -	$ -	$ -	
270	C09.02.1			12" 90 deg. Bend	2	0%	2	EA.	$ -	$ -	$ -	$ -	$ -	
271	C09.02.1			12" 11.25 deg. Bend	4	0%	4	EA.	$ -	$ -	$ -	$ -	$ -	
272	C09.02.1			12" 22.50 deg. Bend	2	0%	2	EA.	$ -	$ -	$ -	$ -	$ -	
273	C09.02.1			12" service saddle	3	0%	3	EA.	$ 55.00	$ 75.0	$ -	$ 130.00	$ 390	
274	C09.02.1			12" gate valve	5	0%	5	EA.	$ 75.00	$ 82.0	$ -	$ 157.00	$ 785	
275	C09.02.1			12" cut-in gate valve	1	0%	1	EA.	$ 75.00	$ 82.0	$ -	$ 157.00	$ 157	
276	C09.02.1			12" valve box	5	0%	5	EA.	$ 80.00	$ 115.0	$ -	$ 195.00	$ 975	
277	C09.02.1			12" DIP cap/plug with deadman	2	0%	2	EA.	$ 65.00	$ 75.0	$ -	$ 140.00	$ 280	
278	C09.02.1			3/4" main cock	2	0%	2	EA.	$ 25.00	$ 55.0	$ -	$ 80.00	$ 160	
279	C09.02.1			3/4" 90 deg. Bend	1	0%	1	EA.	$ -	$ -	$ -	$ -	$ -	
280	C09.02.1			3/4" stop valve	2	0%	2	EA.	$ 25.00	$ 35.0	$ -	$ 60.00	$ 120	
281	C09.02.1			3/4" valve box	2	0%	2	EA.	$ 30.00	$ 45.0	$ -	$ 75.00	$ 150	
282	C09.02.1			1" Main cock	2	0%	2	EA.	$ 35.00	$ 45.0	$ -	$ 80.00	$ 160	
283	C09.02.1			1" stop valve	2	0%	2	EA.	$ 35.00	$ 45.0	$ -	$ 80.00	$ 160	
284	C09.02.1			1" gate valve	2	0%	2	EA.	$ 35.00	$ 45.0	$ -	$ 80.00	$ 160	
285	C09.02.1			Concrete thrust/brace block	33	10%	36	CY	$ 55.00	$ 65.0	$ -	$ 120.00	$ 4,356	
286	C09.02.1			Reinforced concrete deadman	0.4	10%	0.4	CY	$ 65.00	$ 85.0	$ -	$ 150.00	$ 66	
287	C09.02.1			2" dia steel sleeve	55	10%	61	LF	$ 20.00	$ 55.0	$ -	$ 75.00	$ 4,538	
288	C09.02.1			12" dia steel sleeve	80	10%	88	LF	$ 35.00	$ 85.0	$ -	$ 120.00	$ 10,560	
289	C09.02.1			24" dia steel sleeve	15	10%	17	LF	$ 40.00	$ 65.0	$ -	$ 105.00	$ 1,733	
290	C09.02.1			6" ductile iron pipe	70	10%	77	LF	$ 5.25	$ 6.9	$ -	$ 12.10	$ 932	
291	C09.02.1			8" ductile iron pipe	350	10%	385	LF	$ 5.60	$ 7.4	$ -	$ 12.95	$ 4,986	
292	C09.02.1			12" ductile iron pipe	990	10%	1,089	LF	$ 6.80	$ 10.7	$ -	$ 17.45	$ 19,003	
293	C09.02.1			3/4" copper (type K) pipe	50	10%	55	LF	$ 3.80	$ 4.2	$ -	$ 7.95	$ 437	
294	C09.02.1			1" copper pipe (type K)	110	10%	121	LF	$ 4.10	$ 5.6	$ -	$ 9.65	$ 1,168	
295	C09.03.1 - C09.04.1			Excavation	1018	10%	1,120	CY	$ -	$ -	$ -	$ -	$ -	
296				12" Compacted aggregate fill	157	10%	172	CY	$ -	$ -	$ -	$ -	$ -	
297	C09.03.1 - C09.04.1			Backfill	705	10%	776	CY	$ -	$ -	$ -	$ -	$ -	
				MISC.										
298	C09.04.1			Connect 1" copper line to existing	1	0%	1	EA.	$ 25.00	$ 45.0	$ -	$ 70.00	$ 70	
299	C09.04.1			Connect 8" fire line to existing fire main	1	0%	1	EA.	$ 85.00	$ 120.0	$ -	$ 205.00	$ 205	
300	C09.04.1			Connect 12" DIP to existing, solid sleeve connection	1	0%	1	EA.	$ 95.00	$ 135.0	$ -	$ 230.00	$ 230	
				SPOIL HAULAGE										
301				Spoil haulage @ 20 CY per load	265	0%	265	Loads				$ -	$ -	
				Utilities Sub Total										**$ 435,171**
TOTAL													**$ 540,794**	**$ 540,794**

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SR #	DWG. NO.	DETAIL NO.	CSI NO.	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	LABOR/EQUIPCOST	MATERIAL COST	SUBCONTRACTER'S COST	UNIT COST	TOTAL COST	SUB TOTAL COST
OVERHEAD											10%		$ 54,079	
PROFIT											15%		$ 81,119	
													$ 675,993	

EXCLUSIONS:

Site Electrical

Any thing not mentioned above