

33 42 Stormwater Conveyance

33 42 11 – Stormwater Gravity Piping

33 42 11.60 Sewage/Drainage Collection, Concrete Pipe		Daily Crew	Labor- Output	Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
3780	Concrete slotted pipe, class 4 mortar joint									
3800	12" diameter	B-21	168	.167	L.F.	33	8.75	1.03	42.78	50.50
3840	18" diameter	B-21	152	.184	L.F.	41.50	9.65	1.14	52.29	61
3900	Concrete slotted pipe, Class 4 O-ring joint									
3940	12" diameter	B-21	168	.167	L.F.	26.50	8.75	1.03	36.28	43.5
3960	18" diameter	"	152	.184	"	42.50	9.65	1.14	53.29	62.50

33 42 13 – Stormwater Culverts

33 42 13.15 Oval Arch Culverts

0010	OVAL ARCH CULVERTS									
3000	Corrugated galvanized or aluminum, coated & paved									
3020	17" x 13", 16 ga., 15" equivalent	B-14	200	.240	L.F.	15.10	11.50	1.64	28.24	35.50
3040	21" x 15", 16 ga., 18" equivalent		150	.320		15.45	13.30	2.19	32.94	42.50
3060	28" x 20", 14 ga., 24" equivalent		125	.384		23.50	18.35	2.63	44.48	56.50
3080	35" x 24", 14 ga., 30" equivalent	↓	100	.480		29	23	3.29	55.29	69.50
3100	42" x 29", 12 ga., 36" equivalent	B-13	100	.560		27	28	21	76	94
3120	49" x 33", 12 ga., 42" equivalent		90	.622		34.50	31	23.50	89	110
3140	57" x 38", 12 ga., 48" equivalent	↓	75	.747	↓	46	37	28	111	136
3160	Steel, plain oval arch culverts, plain									
3180	17" x 13", 16 ga., 15" equivalent	B-14	225	.213	L.F.	24.50	10.20	1.46	36.16	43.50
3200	21" x 15", 16 ga., 18" equivalent		175	.274		30.50	13.10	1.88	45.48	55
3220	28" x 20", 14 ga., 24" equivalent	↓	150	.320		18	15.30	2.19	35.49	45
3240	35" x 24", 14 ga., 30" equivalent	B-13	108	.519		23.50	25.50	19.40	68.40	85.50
3260	42" x 29", 12 ga., 36" equivalent		108	.519		41.50	25.50	19.40	86.40	106
3280	49" x 33", 12 ga., 42" equivalent		92	.609		50	30	23	103	126
3300	57" x 38", 12 ga., 48" equivalent		75	.747	↓	50.50	37	28	115.50	141
3320	End sections, 17" x 13"		22	2.545	Ea.	365	126	95	586	695
3340	42" x 29"	↓	17	3.294	"	490	163	123	776	915
3360	Multi-plate arch, steel	B-20	1690	.014	Lb.	1.15	.72		1.87	2.35

33 42 33 – Stormwater Curbside Drains and Inlets

33 42 33.13 Catch Basins

0010	CATCH BASINS									
0011	Not including footing & excavation									
1600	Frames & grates, C.I., 24" square, 500 lb.	B-6	7.80	3.077	Ea.	410	152	42	604	725
1700	26" D shape, 600 lb.		7	3.429		760	169	47	976	1,150
1800	Light traffic, 18" diameter, 100 lb.		10	2.400		224	119	33	376	460
1900	24" diameter, 300 lb.		8.70	2.759		216	136	38	390	485
2000	36" diameter, 900 lb.		5.80	4.138		745	204	56.50	1,005.50	1,200
2100	Heavy traffic, 24" diameter, 400 lb.		7.80	3.077		275	152	42	469	580
2200	36" diameter, 1,150 lb.	↓	3	8	↓	990	395	110	1,495	1,800
2300	Mass. State standard, 26" diameter, 475 lb.	↓	7	3.429	↓	720	169	47	936	1,100
2400	30" diameter, 620 lb.	B-6	7	3.429	Ea.	395	169	47	611	740
2500	Watertight, 24" diameter, 350 lb.		7.80	3.077		445	152	42	639	765
2600	26" diameter, 500 lb.		7	3.429		460	169	47	676	810
2700	32" diameter, 575 lb.	↓	6	4	↓	950	198	55	1,203	1,400
2800	3 piece cover & frame, 10" deep,									
2900	1,200 lb., for heavy equipment	B-6	3	8	Ea.	1,125	395	110	1,630	1,950
3000	Raised for paving 1-1/4" to 2" high									
3100	4 piece expansion ring									
3200	20" to 26" diameter	1 Clob	3	2.667	Ea.	231	122		353	435
3300	30" to 36" diameter	"	3	2.667	"	370	122		492	590
3320	Frames and covers, existing, raised for paving, 2", including									
3340	row of brick, concrete collar, up to 12" wide frame	B-6	18	1.333	Ea.	54	66	18.25	138.25	178