

# 34 41 Roadway Signaling and Control Equipment

## 34 41 13 – Traffic Signals

### 34 41 13.10 Traffic Signals Systems

		Daily Crew	Output	Labor- Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
0010	<b>TRAFFIC SIGNALS SYSTEMS</b>									
0020	Component costs									
0600	Crew employs crane/directional driller as required									
1000	Vertical mast with foundation									
1010	Mast sized for single arm to 40'; no lighting or power function	R-11	.50	112	Signal	10,500	7,050	4,300	21,850	26,800
1100	Horizontal arm									
1110	Per linear foot of arm	R-11	50	1.120	Signal	225	70.50	43	338.50	400
1200	Traffic signal									
1210	Includes signal, bracket, sensor, and wiring	R-11	2.50	22.400	Signal	1,075	1,400	860	3,335	4,250
1300	Pedestrian signals and callers									
1310	Includes four signals with brackets and two call buttons	R-11	2.50	22.400	Signal	3,800	1,400	860	6,060	7,225
1400	Controller, design, and underground conduit									
1410	Includes miscellaneous signage and adjacent surface work	R-11	.25	224	Signal	25,200	14,100	8,625	47,925	58,000

# 34 71 Roadway Construction

## 34 71 13 – Vehicle Barriers

### 34 71 13.17 Security Vehicle Barriers

0010	<b>SECURITY VEHICLE BARRIERS</b>									
0020	Security planters excludes filling material									
0100	Concrete security planter, exposed aggregate 36" diam. x 30" high	B-11M	8	2	Ea.	545	106	50.50	701.50	815
0200	48" diam. x 36" high		8	2		660	106	50.50	816.50	940
0300	53" diam. x 18" high		8	2		870	106	50.50	1,026.50	1,175
0400	72" diam. x 18" high with seats		8	2		1,975	106	50.50	2,131.50	2,400
0450	84" diam. x 36" high		8	2		2,000	106	50.50	2,156.50	2,425
0500	36" x 36" x 24" high square		8	2		460	106	50.50	616.50	720
0600	36" x 36" x 30" high square		8	2		760	106	50.50	916.50	1,050
0700	48" L x 24" W x 30" H rectangle		8	2		475	106	50.50	631.50	735
0800	72" L x 24" W x 30" H rectangle	B-11M	8	2	Ea.	580	106	50.50	736.50	850
0900	96" L x 24" W x 30" H rectangle		8	2		850	106	50.50	1,006.50	1,150
0950	Decorative geometric concrete barrier, 96" L x 24" W x 36" H		8	2		855	106	50.50	1,011.50	1,150
1000	Concrete security planter, filling with washed sand or gravel <1 C.Y.		8	2		17.85	106	50.50	174.35	233
1050	2 C.Y. or less		6	2.667		35.50	141	67	243.50	325
1200	Jersey concrete barrier, 10' L x 2' by 0.5' W x 30" H	B-21B	16	2.500		1,175	124	124	1,423	1,625
1300	10 or more same site		24	1.667		1,175	82.50	82.50	1,340	1,525
1400	10' L x 2' by 0.5' W x 32" H		16	2.500		1,250	124	124	1,498	1,725
1500	10 or more same site		24	1.667		1,250	82.50	82.50	1,415	1,625
1600	20' L x 2' by 0.5' W x 30" H		12	3.333		1,400	165	165	1,730	1,975
1700	10 or more same site		18	2.222		1,400	110	110	1,620	1,825
1800	20' L x 2' by 0.5' W x 32" H		12	3.333		1,725	165	165	2,055	2,325
1900	10 or more same site		18	2.222		1,725	110	110	1,945	2,175
2000	GFRC decorative security barrier per 10' section including concrete		4	10		3,075	495	495	4,065	4,650
2100	Per 12' section including concrete		4	10		3,675	495	495	4,665	5,325
2210	GFRC decorative security barrier will stop 30 MPH, 4,000 lb. vehicle									
2300	High security barrier base prep per 12' section on bare ground	B-11C	4	4	Ea.	18.55	212	82	312.55	425
2310	GFRC barrier base prep does not include haulaway of excavated matl.									
2400	GFRC decorative high security barrier per 12' section w/concrete	B-21B	3	13.333	Ea.	6,125	660	660	7,445	8,450
2410	GFRC decorative high security barrier will stop 50 MPH, 15,000 lb. vehicle									
2500	GFRC decorative impaler security barrier per 10' section w/prep	B-6	4	6	Ea.	2,425	296	82	2,803	3,175
2600	Per 12' section w/prep	"	4	6	"	2,900	296	82	3,278	3,700
2610	Impaler barrier should stop 50 MPH, 15,000 lb. vehicle w/some penetr.									
2700	Pipe bollards, steel, concrete filled/painted, 8' L x 4' D hole, 8" diam.	B-6	10	2.400	Ea.	1,100	119	33	1,252	1,425