

# 22 13 Facility Sanitary Sewerage

## 22 13 29 – Sanitary Sewerage Pumps

		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
22 13 29.14 Sewage Ejector Pumps							Labor	Equipment		
0710	3" discharge	Q-1	2.40	6.667	Ea.	1,150	420		1,570	1,900
0730	87 GPM, .7 HP, 2" discharge		2.50	6.400		1,425	400		1,825	2,175
0740	3" discharge		2.30	6.957		1,475	435		1,910	2,275
0760	134 GPM, 1 HP, 2" discharge		2.20	7.273		1,500	455		1,955	2,325
0770	3" discharge		2	8		1,600	505		2,105	2,525

# 22 14 Facility Storm Drainage

## 22 14 23 – Storm Drainage Piping Specialties

### 22 14 23.33 Backwater Valves

0010	<b>BACKWATER VALVES, CI Body</b>									
6980	Bronze gate and automatic flapper valves									
7000	3" and 4" pipe size	Q-1	13	1.231	Ea.	2,875	77.50		2,952.50	3,300
7100	5" and 6" pipe size	"	13	1.231	"	4,425	77.50		4,502.50	5,000
7240	Bronze flapper valve, bolted cover									
7260	2" pipe size	Q-1	16	1	Ea.	845	63		908	1,025
7300	4" pipe size	"	13	1.231		1,250	77.50		1,327.50	1,500
7340	6" pipe size	Q-2	17	1.412		2,750	92		2,842	3,150

## 22 14 26 – Facility Storm Drains

### 22 14 26.13 Roof Drains

0010	<b>ROOF DRAINS</b>									
0140	Cornice, CI, 45° or 90° outlet									
0200	3" and 4" pipe size	Q-1	12	1.333	Ea.	430	84		514	595
0260	For galvanized body, add					138			138	152
0280	For polished bronze dome, add					103			103	113
3860	Roof, flat metal deck, CI body, 12" CI dome									
3890	3" pipe size	Q-1	14	1.143	Ea.	505	72		577	660
3920	6" pipe size	"	10	1.600	"	1,000	101		1,101	1,250
4620	Main, all aluminum, 12" low profile dome									
4640	2", 3" and 4" pipe size	Q-1	14	1.143	Ea.	700	72		772	875

### 22 14 26.16 Facility Area Drains

0010	<b>FACILITY AREA DRAINS</b>									
4980	Scupper floor, oblique strainer, CI									
5000	6" x 7" top, 2", 3" and 4" pipe size	Q-1	16	1	Ea.	455	63		518	595
5100	8" x 12" top, 5" and 6" pipe size	"	14	1.143		880	72		952	1,075
5160	For galvanized body, add					40%				
5200	For polished bronze strainer, add					85%				

### 22 14 26.19 Facility Trench Drains

0010	<b>FACILITY TRENCH DRAINS</b>									
5980	Trench, floor, heavy duty, modular, CI, 12" x 12" top									
6000	2", 3", 4", 5" & 6" pipe size	Q-1	8	2	Ea.	1,275	126		1,401	1,575
6100	For unit with polished bronze top	"	8	2	"	1,875	126		2,001	2,225
6600	Trench, floor, for cement concrete encasement									
6610	Not including trenching or concrete									
6640	Polyester polymer concrete									
6650	4" internal width, with grate									
6660	Light duty steel grate	Q-1	120	.133	L.F.	75	8.40		83.40	95
6670	Medium duty steel grate		115	.139		134	8.75		142.75	161
6680	Heavy duty iron grate		110	.145		133	9.15		142.15	160
6700	12" internal width, with grate									
6770	Heavy duty galvanized grate	Q-1	80	.200	L.F.	181	12.55		193.55	218