

22 11 Facility Water Distribution

22 11 19 – Domestic Water Piping Specialties

		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs Labor	Equipment	Total	Total Incl O&P
22 11 19.64 Hydrants					Ea.					
3600	For tapped drain port in box, add					141			141	155
5000	Moderate climate, all bronze, polished face									
5020	and scoriated cover, set flush									
5100	3/4" IPS connection	1 Plum	16	.500	Ea.	1,100	35		1,135	1,250
5120	1" IPS connection	"	14	.571		2,500	40		2,540	2,800
5200	For tapped drain port in box, add					157			157	172

22 11 23 – Domestic Water Pumps

22 11 23.10 General Utility Pumps

0010	GENERAL UTILITY PUMPS									
2000	Single stage									
3000	Double suction,									
3190	75 HP, to 2,500 GPM	Q-3	.28	114	Ea.	26,500	7,600		34,100	40,400
3220	100 HP, to 3,000 GPM		.26	123		34,000	8,175		42,175	49,600
3240	150 HP, to 4,000 GPM		.24	133		35,500	8,850		44,350	52,500

22 13 Facility Sanitary Sewerage

22 13 16 – Sanitary Waste and Vent Piping

22 13 16.20 Pipe, Cast Iron

0010	PIPE, CAST IRON, Soil, on clevis hanger assemblies, 5' OC									
0020	Single hub, service wt., lead & oakum joints 10' OC									
2120	2" diameter	Q-1	63	.254	L.F.	17.15	15.95		33.10	43
2140	3" diameter		60	.267		22.50	16.75		39.25	49.50
2160	4" diameter		55	.291		29	18.30		47.30	59.50
2180	5" diameter	Q-2	76	.316		31	20.50		51.50	64.50
2200	6" diameter	"	73	.329		49.50	21.50		71	86.50
2220	8" diameter	Q-3	59	.542		79.50	36		115.50	141
2240	10" diameter		54	.593		130	39.50		169.50	202
2260	12" diameter		48	.667		187	44.50		231.50	272
2320	For service weight, double hub, add					10%				
2340	For extra heavy, single hub, add					48%	4%			
2360	For extra heavy, double hub, add					71%	4%			
2400	Lead for caulking (1#/diam. in.)	Q-1	160	.100	Lb.	1.10	6.30		7.40	10.55
2420	Oakum for caulking (1/8#/diam. in.)	"	40	.400	"	4.47	25		29.47	42.50
4000	No hub, couplings 10' OC									
4100	1-1/2" diameter	Q-1	71	.225	L.F.	8.65	14.15		22.80	30.50
4120	2" diameter		67	.239		9.10	15		24.10	32.50
4140	3" diameter		64	.250		11.70	15.70		27.40	36.50
4160	4" diameter		58	.276		15.45	17.35		32.80	43

22 13 16.50 Shower Drains

0010	SHOWER DRAINS									
2780	Shower, with strainer, uniform diam. trap, bronze top									
2800	2" and 3" pipe size	Q-1	8	2	Ea.	500	126		626	735
2820	4" pipe size	"	7	2.286		570	144		714	840
2840	For galvanized body, add					300			300	330

22 13 16.60 Traps

0010	TRAPS									
0030	Cast iron, service weight									
0050	Running P trap, without vent									
1100	2"	Q-1	16	1	Ea.	225	63		288	340
1140	3"		14	1.143		225	72		297	355