

FAC 8421 WATER DISTRIBUTION LINE, POTABLE

FY24 SUC:	\$0.98 / LF
Source:	Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 8421 WATER DISTRIBUTION LINE, POTABLE

Release 2023 Qtr 4

UM LF

Zip Code Prefix 222

Design Life 75

Type MR

Average Size 13414.898045

SUC \$0.98

Adjusted Occurences are the occurrences remaining after subtracting Repair/Replacement Overlaps. Overlap reduction removes a repair when it occurs the same year as a replacement.

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost	
Replace pipe and fittings, copper 4"	25	114.00 L.F.	\$17,303.18	\$20,415.10	3.0000	3	3	\$61,245.29	\$61,245.29	
Replace threaded steel pipe and fittings, 4"	75	898.00 L.F.	\$118,699.39	\$141,146.34	1.0000	1	1	\$141,146.34	\$141,146.34	
Overhaul water meter	13	5.00 Ea.	\$127.25	\$157.93	5.7692	5	5	\$789.63	\$789.63	
Remove old meter, install new water meter 6"	25	6.00 Ea.	\$67,978.62	\$78,754.34	3.0000	3	3	\$236,263.01	\$236,263.01	
Replace pipe, 6" pipe and fittings, PVC	30	450.00 L.F.	\$56,840.20	\$69,014.04	2.5000	2	2	\$138,028.08	\$138,028.08	
Repack gate valve gland, 8" - 12" valves	5	18.00 Ea.	\$3,233.90	\$3,931.45	15.0000	15	15	\$58,971.77	\$58,971.77	
Remove and replace fire hydrant	25	8.00 Ea.	\$70,403.92	\$81,229.41	3.0000	3	3	\$243,688.23	\$243,688.23	
			\$334,586.46	\$394,648.60				MR Subtotal	\$880,132.36	
									MR Per Year	\$11,735.10
									PM Total	\$1,471.01
									Subtotal	\$13,206.11
									Total Per Unit	\$0.98

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Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Valve, check, above 4", annualized	2.00	0.51	\$8.28	\$27.47	\$0.00	\$35.75	\$44.81	\$54.30
Valve, gate, above 4", annualized	4.00	0.64	\$16.56	\$34.01	\$0.00	\$50.56	\$62.42	\$75.11
Valve, globe, auto, above 4", annualized	1.00	0.33	\$4.14	\$17.35	\$0.00	\$21.49	\$27.11	\$32.94
Water flow meter, turbine, annualized	4.00	2.36	\$74.90	\$121.68	\$0.00	\$196.58	\$240.57	\$288.31
Fire hydrant, annualized	8.00	5.09	\$213.60	\$263.64	\$0.00	\$477.24	\$577.69	\$688.82
Cathodic protection system, annualized	2.00	2.92	\$52.15	\$166.47	\$0.00	\$218.62	\$273.77	\$331.53
						\$1,000.23	\$1,226.38	\$1,471.01

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Modeled Component List

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D20 Plumbing

Water Meter	5.0 Ea.
Valve Gate	4.0 Each

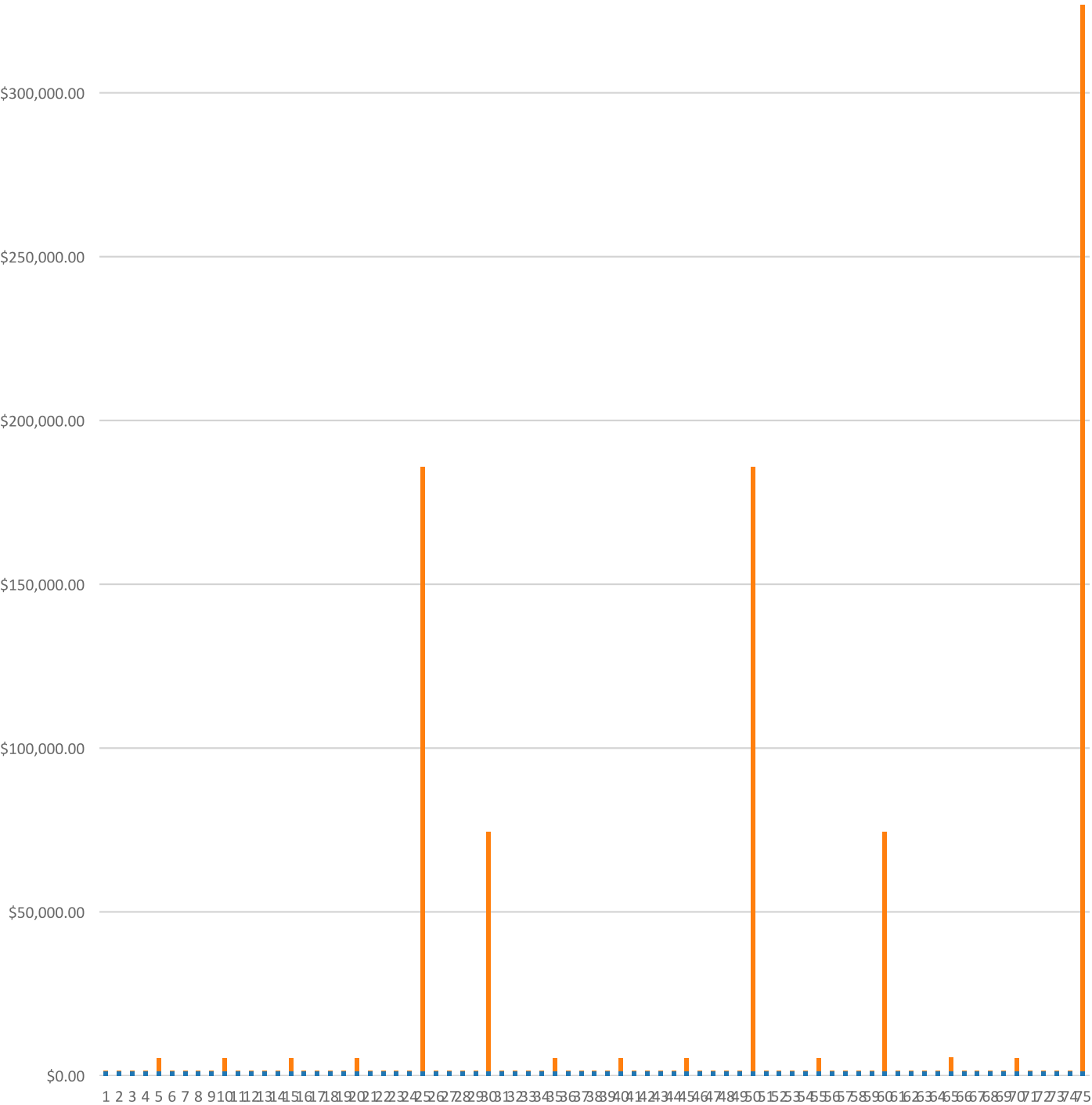
G30 Site Mechanical Utilities

Fire Hydrants	8.0 Ea.
Water Flow Meter, Turbine, annualized	4.0 Each

G40 Site Electrical Utilities

Cathodic Protection, annualized	2.0 Each
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Sustainment by Year
CostWorks Release 2023 Qtr 4



PM Cost
MR Cost