

FAC 8435 WATER TANK, FIRE PROTECTION

FY22 SUC: \$0.04 GA

Source: Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 8435 WATER TANK, FIRE PROTECTION

SUC \$0.04

Release 2021 Qtr 3

UM GA

Zip Code Prefix 222

Design Life 50

Type MR

Average Size 150236.0

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 steel decking	30	380.00 S.F.	\$2,792.76	\$3,230.44	1.6667	1	1	\$3,230.44	\$3,230.44
Replace old valve, non-drain, 8"	10	1.00 Ea.	\$6,006.67	\$6,952.96	5.0000	5	5	\$34,764.82	\$34,764.82
Insp/chk pump/mtr oper, lub, chk align circulation pump, 3 HP	0.5	1.00 Ea.	\$12.97	\$16.22	100.0000	100	100	\$1,622.05	\$1,622.05
Remove old meter, install new water meter 8"	25	1.00 Ea.	\$14,468.51	\$16,734.98	2.0000	2	2	\$33,469.96	\$33,469.96
Maintenance and repair breaker, molded case, 480 V, 2 pole	20	2.00 Ea.	\$143.53	\$179.82	2.5000	2	2	\$359.63	\$359.63
Replace safety switch, heavy duty 200 A	25	2.00 Ea.	\$3,553.01	\$4,198.54	2.0000	2	2	\$8,397.08	\$8,397.08
Maintenance and repair of general wiring lightning protection system	1	0.20 M.L.F.	\$19.34	\$23.97	50.0000	50	50	\$1,198.27	\$1,198.27
Maintenance and repair voice/data outlet	10	1.00 Ea.	\$51.29	\$64.06	5.0000	5	5	\$320.29	\$320.29
Prepare & paint 250K gal. ground level water stor tank, 40' dia x 27' tall	10	0.57 Ea.	\$29,165.03	\$34,991.61	5.0000	5	5	\$174,958.07	\$174,958.07
			\$56,213.11	\$66,392.60					
							MR Subtotal	\$258,320.62	
							MR Per Year	\$5,166.41	
							PM Total	\$1,429.35	
							Subtotal	\$6,595.76	
							Total Per Unit	\$0.04	

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Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Panelboard, 225 A and above, annualized	1.00	0.44	\$23.20	\$29.01	\$0.00	\$52.21	\$63.23	\$75.41
Storage tank, ground level, annually	1.00	0.72	\$18.38	\$35.27	\$0.00	\$53.65	\$66.07	\$79.41
Water flow meter, turbine, annualized	1.00	0.59	\$18.96	\$28.47	\$0.00	\$47.44	\$57.88	\$69.26
Reservoir controls, annualized	1.00	8.86	\$41.16	\$429.25	\$0.00	\$470.41	\$603.30	\$738.25
Vertical lift, over 1 H.P., annualized	1.00	1.46	\$52.92	\$70.55	\$0.00	\$123.47	\$149.93	\$179.03
Cathodic protection system, annualized	1.00	1.46	\$19.33	\$79.05	\$0.00	\$98.38	\$124.03	\$150.64
Circuit breaker, high voltage air, annualized	2.00	0.94	\$30.31	\$62.16	\$0.00	\$92.47	\$114.15	\$137.35
						\$938.03	\$1,178.58	\$1,429.35

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Modeled Component List

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B10 Superstructure

Steel Decking	380.0 S.F.
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G30 Site Mechanical Utilities

Ground Level Water Storage Tank 250K Gallon	0.57 Ea.
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Water Flow Meter, Turbine, annualized	1.0 Each
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Vertical Lift, annualized	1.0 Each
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G40 Site Electrical Utilities

Cathodic Protection, annualized	1.0 Each
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Sustainment by Year
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