

FAC 7383 AIR RAID-FALLOUT-STORM SHELTER

FY24 SUC: \$6.49 / SF
Source: Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 7383 AIR RAID-FALLOUT-STORM SHELTER

SUC \$6.49

Release 2023 Qtr 4
Zip Code Prefix 222
Type MR

UM SF
Design Life 45
Average Size 2273.391785

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 3'-0" x 7'-0" steel, painted, door	45	2.00 Ea.	\$1,834.22	\$2,123.85	1.0000	1	1	\$2,123.85	\$2,123.85
Inspect sprinkler system	1	1.00 Ea.	\$36.17	\$45.28	45.0000	45	45	\$2,037.80	\$2,037.80
Replace sprinkler head	20	16.00 Ea.	\$1,402.37	\$1,730.43	2.2500	2	2	\$3,460.86	\$3,460.86
Maintenance and inspection lighting panel, indoor	3	2.00 Ea.	\$84.69	\$106.10	15.0000	15	15	\$1,591.53	\$1,591.53
Maintenance and repair breaker, molded case, 480 V, 1 pole	20	6.00 Ea.	\$455.04	\$570.10	2.2500	2	2	\$1,140.20	\$1,140.20
Maintenance and inspection circuit breaker, molded case, 480 V, 1 pole	0.5	6.00 Ea.	\$204.77	\$256.55	90.0000	90	90	\$23,089.12	\$23,089.12
Replace circuit breaker molded case, 480 V, 1 pole circuit breaker	50	6.00 Ea.	\$4,730.56	\$5,474.47	0.9000	0	0	\$0.00	\$0.00
Replace fluoerescent light fixture ballast, 80 W	10	32.00 Ea.	\$3,347.40	\$4,127.71	4.5000	4	2	\$16,510.82	\$8,255.41
Replace lamps (2 lamps), 4', 34 W energy saver	10	32.00 Ea.	\$847.54	\$1,061.41	4.5000	4	4	\$4,245.62	\$4,245.62
Replace fluorescent fixture, lay-in, recess mtd, 2' x 4', two 40 W	20	32.00 Ea.	\$7,923.97	\$9,644.05	2.2500	2	2	\$19,288.11	\$19,288.11
Replace fuse	25	22.00 Ea.	\$10,051.69	\$11,542.71	1.8000	1	1	\$11,542.71	\$11,542.71
Repair switchboard meter	10	1.00 Ea.	\$1,218.62	\$1,434.12	4.5000	4	4	\$5,736.50	\$5,736.50
Replace switchboard meter	20	1.00 Ea.	\$4,154.75	\$4,742.14	2.2500	2	2	\$9,484.29	\$9,484.29
Maintenance and repair secondary transformer, dry	10	1.00 Ea.	\$254.10	\$303.63	4.5000	4	4	\$1,214.50	\$1,214.50
Replace transformer 15 KVA	30	1.00 Ea.	\$3,141.43	\$3,757.40	1.5000	1	1	\$3,757.40	\$3,757.40
Repair 8" concrete block wall - (2% of walls) painted	25	1.40 C.S.F.	\$1,602.88	\$1,927.93	1.8000	1	1	\$1,927.93	\$1,927.93
Rebuild flush valve tankless water closet	20	4.00 Ea.	\$767.52	\$925.08	2.2500	2	2	\$1,850.15	\$1,850.15
Unplug clogged line tankless water closet	5	4.00 Ea.	\$919.72	\$1,151.33	9.0000	9	9	\$10,361.94	\$10,361.94
Replace tankless water closet	35	4.00 Ea.	\$5,666.22	\$6,553.28	1.2857	1	1	\$6,553.28	\$6,553.28
Replace tankless flush valve	25	4.00 Ea.	\$1,080.97	\$1,268.87	1.8000	1	1	\$1,268.87	\$1,268.87
Replace wax ring gasket for tankless water closet	5	4.00 Ea.	\$596.66	\$746.21	9.0000	9	9	\$6,715.93	\$6,715.93
Replace flush valve diaphragm for a urinal	7	2.00 Ea.	\$54.53	\$67.71	6.4286	6	6	\$406.27	\$406.27
Rebuild flush valve for a urinal	20	2.00 Ea.	\$383.76	\$462.54	2.2500	2	2	\$925.08	\$925.08
Unplug line urinal	5	2.00 Ea.	\$305.28	\$382.16	9.0000	9	9	\$3,439.47	\$3,439.47
Replace wall-hung urinal	35	2.00 Ea.	\$2,175.04	\$2,616.09	1.2857	1	1	\$2,616.09	\$2,616.09
Replace washer in spud connection lavatory, vitreous china	7	4.00 Ea.	\$69.29	\$84.56	6.4286	6	6	\$507.38	\$507.38
Replace washer in faucet lavatory, vitreous china	2	4.00 Ea.	\$54.27	\$67.67	22.5000	22	22	\$1,488.71	\$1,488.71
Replace faucets lavatory, vitreous china	10	4.00 Ea.	\$781.89	\$940.49	4.5000	4	4	\$3,761.94	\$3,761.94
Clean out strainer and P trap lavatory, vitreous china	2	4.00 Ea.	\$147.27	\$184.36	22.5000	22	22	\$4,055.98	\$4,055.98
Replace lavatory, vitreous china	35	4.00 Ea.	\$2,874.89	\$3,453.62	1.2857	1	1	\$3,453.62	\$3,453.62
Replace faucet washer sink, iron enamel	2	2.00 Ea.	\$26.90	\$33.54	22.5000	22	22	\$737.85	\$737.85

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Clean trap sink, iron enamel	3	2.00 Ea.	\$18.01	\$22.55	15.0000	15	15	\$338.22	\$338.22
Replace faucets sink, iron enamel	10	2.00 Ea.	\$390.94	\$470.24	4.5000	4	4	\$1,880.97	\$1,880.97
Unstop sink, iron enamel	2	2.00 Ea.	\$88.02	\$110.19	22.5000	22	22	\$2,424.13	\$2,424.13
Replace fire escape stair and platform	25	1.00 Flight	\$6,338.97	\$7,732.61	1.8000	1	1	\$7,732.61	\$7,732.61
Refinish fire escape ladder	7	22.00 V.L.F.	\$97.25	\$117.85	6.4286	6	6	\$707.10	\$707.10
Replace fire escape ladder	25	22.00 V.L.F.	\$2,670.11	\$3,151.13	1.8000	1	1	\$3,151.13	\$3,151.13
Replace steel decking	30	320.00 S.F.	\$1,889.41	\$2,195.31	1.5000	1	1	\$2,195.31	\$2,195.31
Metal floor grating repairs - (2% of grating)	10	16.00 S.F.	\$530.51	\$639.33	4.5000	4	4	\$2,557.32	\$2,557.32
Replace metal floor grating	30	160.00 S.F.	\$4,566.35	\$5,267.16	1.5000	1	1	\$5,267.16	\$5,267.16
Repair steel, painted, door	14	2.00 Ea.	\$1,404.67	\$1,668.39	3.2143	3	3	\$5,005.16	\$5,005.16
Refinish 3'-0" x 7'-0" steel, painted, door	4	2.00 Ea.	\$92.11	\$112.79	11.2500	11	11	\$1,240.72	\$1,240.72
Refinish concrete block wall painted	4	20.00 C.S.F.	\$2,373.81	\$2,869.86	11.2500	11	11	\$31,568.50	\$31,568.50
Replace sink, P.E.C.I. sink, iron enamel kitchen	35	2.00 Ea.	\$2,416.86	\$2,818.55	1.2857	1	1	\$2,818.55	\$2,818.55
Inspect / clean shower head fiberglass	3	8.00 Ea.	\$412.28	\$516.11	15.0000	15	15	\$7,741.62	\$7,741.62
Replace mixing valve barrel shower, fiberglass	2	6.00 Ea.	\$1,789.35	\$2,104.99	22.5000	22	22	\$46,309.83	\$46,309.83
Replace mixing valve shower, fiberglass	10	8.00 Ea.	\$2,347.14	\$2,855.44	4.5000	4	4	\$11,421.77	\$11,421.77
Replace shower and fittings, fiberglass	20	8.00 Ea.	\$8,792.65	\$10,482.46	2.2500	2	2	\$20,964.92	\$20,964.92
Check / minor repairs drinking fountain	1	1.00 Ea.	\$51.52	\$64.50	45.0000	45	45	\$2,902.50	\$2,902.50
Repair internal leaks drinking fountain	4	1.00 Ea.	\$47.77	\$59.80	11.2500	11	11	\$657.77	\$657.77
Correct water pressure drinking fountain	2	1.00 Ea.	\$44.01	\$55.09	22.5000	22	22	\$1,212.06	\$1,212.06
Replace refrigerant drinking fountain	2	1.00 Ea.	\$35.41	\$41.43	22.5000	22	22	\$911.45	\$911.45
Repair drain leak drinking fountain	4	1.00 Ea.	\$29.10	\$35.19	11.2500	11	9	\$387.08	\$316.70
Replace fountain drinking fountain	10	1.00 Ea.	\$1,620.81	\$1,904.30	4.5000	4	4	\$7,617.20	\$7,617.20
Replace axial flow fan, 6400 CFM exhaust fan	10	2.00 Ea.	\$6,497.79	\$7,602.42	4.5000	4	4	\$30,409.69	\$30,409.69
Maintenance and repair explosionproof industrial heater	2	2.00 Ea.	\$424.73	\$496.34	22.5000	22	21	\$10,919.46	\$10,423.12
Maintenance and inspection explosionproof industrial heater	0.5	2.00 Ea.	\$164.64	\$206.27	90.0000	90	90	\$18,563.97	\$18,563.97
Replace heater explosionproof industrial heater	15	2.00 Ea.	\$12,353.56	\$14,115.60	3.0000	3	3	\$42,346.81	\$42,346.81
Repair single zone rooftop unit, 5 ton	10	1.00 Ea.	\$2,705.41	\$3,236.70	4.5000	4	4	\$12,946.82	\$12,946.82
Replace single zone rooftop unit, 5 ton	15	1.00 Ea.	\$8,703.79	\$10,346.16	3.0000	3	3	\$31,038.49	\$31,038.49
Rebuild 4" diameter reduced pressure backflow preventer	10	1.00 Ea.	\$921.17	\$1,072.81	4.5000	4	4	\$4,291.25	\$4,291.25
Replace 8" concrete block wall painted	75	26.00 C.S.F.	\$31,670.02	\$38,164.91	0.6000	0	0	\$0.00	\$0.00
Repair steel painted interior door	14	5.00 Ea.	\$1,394.94	\$1,628.41	3.2143	3	3	\$4,885.23	\$4,885.23
Refinish 3'-0" x 7'-0" steel painted interior door	4	5.00 Ea.	\$288.26	\$354.39	11.2500	11	11	\$3,898.25	\$3,898.25

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost	
Replace 3'-0" x 7'-0" steel painted interior door	60	5.00 Ea.	\$6,397.74	\$7,419.59	0.7500	0	0	\$0.00	\$0.00	
Refinish concrete floor finished	25	50.10 C.S.F.	\$20,870.52	\$25,181.19	1.8000	1	1	\$25,181.19	\$25,181.19	
Replace flush valve diaphragm tankless water closet	10	4.00 Ea.	\$109.06	\$135.42	4.5000	4	4	\$541.70	\$541.70	
			\$187,743.11	\$223,040.92				MR Subtotal	\$498,507.67	
									MR Per Year	\$11,077.95
									PM Total	\$3,668.33
									Subtotal	\$14,746.28
									Total Per Unit	\$6.49

FAC 7383 AIR RAID-FALLOUT-STORM SHELTER

Release 2023 Qtr 4

UM SF

Zip Code Prefix 222

Design Life 45

Type PM

Average Size 2273.391785

SUC \$6.49

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Urinals, annualized	2.00	0.46	\$13.26	\$24.33	\$0.00	\$37.59	\$46.21	\$55.50
Toilet (vacuum breaker type), annualized	4.00	0.71	\$35.42	\$37.84	\$0.00	\$73.26	\$88.16	\$104.83
Lavatories, annualized	4.00	1.39	\$31.17	\$87.20	\$0.00	\$118.37	\$147.65	\$178.48
Showers, annualized	4.00	0.91	\$54.04	\$57.38	\$0.00	\$111.42	\$134.04	\$159.36
Fan, axial, 5,000 to 10,000 CFM, annualized	2.00	2.58	\$63.76	\$137.78	\$0.00	\$201.53	\$249.24	\$300.14
Package unit, air cooled, 3 thru 24 ton, annualized	1.00	2.40	\$166.98	\$151.73	\$0.00	\$318.71	\$380.92	\$451.49
Panelboard, 225 A and above, annualized	2.00	0.88	\$44.00	\$60.83	\$0.00	\$104.83	\$127.48	\$152.33
Storage tank, ground level, annually	1.00	0.72	\$19.76	\$37.60	\$0.00	\$57.37	\$70.62	\$84.87
Pump, turbine, well, annualized	1.00	5.69	\$210.82	\$295.75	\$0.00	\$506.57	\$616.38	\$736.73
Uninterrupted power system, up to 200 KVA, annualized	0.50	11.46	\$108.66	\$721.70	\$0.00	\$830.36	\$1,057.73	\$1,290.54
Backflow prevention device, up to 4", annualized	1.00	0.33	\$14.02	\$20.93	\$0.00	\$34.94	\$42.62	\$51.01
Transformer, dry type 500 KVA and over, annualized	1.00	0.77	\$13.83	\$53.61	\$0.00	\$67.44	\$84.91	\$103.07
						\$2,462.39	\$3,045.97	\$3,668.33

FAC 7383 AIR RAID-FALLOUT-STORM SHELTER

Modeled Component List CostWorks Release 2023 Qtr 4

B20 Exterior Enclosure	
Steel, Painted	2.0 Ea.
D40 Fire Protection	
Sprinkler System, Fire Suppression, sprinkler head	16.0 Ea.
Backflow Preventer	1.0 Ea.
D50 Electrical	
Load Center, 100 A, maintenance & inspection	2.0 Ea.
Circuit Breaker, molded case, 480 V, 1 pole	6.0 Ea.
Fluorescent Lighting Fixture	32.0 Ea.
Secondary Transformer, Dry, 15 KVA	1.0 Ea.
UPS, up to 200 KVA, annualized	0.5 Each
D20 Plumbing	
Tankless Water Closet	4.0 Ea.
Urinal	2.0 Ea.
Lavatory, Vitreous China	4.0 Ea.
Sink, Iron Enamel	2.0 Ea.
Shower, Fiberglass	8.0 Ea.
Drinking Fountain	1.0 Ea.
B10 Superstructure	
Metal Fire Escapes	22.0 V.L.F.
Steel Decking	320.0 S.F.
C10 Interior Construction	
Concrete Block, Painted	20.0 C.S.F.
Steel Painted Interior Doors	5.0 Ea.
D30 HVAC	
Exhaust Fan, axial flow, 6400 CFM	2.0 Ea.
Explosionproof Industrial Heater	2.0 Ea.
Single Zone Air Conditioner, 5 ton	1.0 Ea.
C30 Interior Finishes	
Concrete, Finished	50.1 C.S.F.
G30 Site Mechanical Utilities	
Pump, Turbine, Well, annualized	1.0 Each

FAC 7383 AIR RAID-FALLOUT-STORM SHELTER
Sustainment by Year
CostWorks Release 2023 Qtr 4

