

FAC 1718 INDOOR FIRING RANGE AND SUPPORTING FACILITY

FY22 SUC: \$5.65 / SF
Source: Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 1718 INDOOR FIRING RANGE AND SUPPORTING FACILITY

SUC \$5.65

Release 2021 Qtr 3

UM SF

Zip Code Prefix 222

Design Life 45

Type MR

Average Size 5011.0

Adjusted Occurrences 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
Refinish steel louver, 1st floor	5	2.00 Ea.	\$194.07	\$240.81	9.0000	9	9	\$2,167.30	\$2,167.30
Replace steel louver, 1st floor	40	2.00 Ea.	\$970.63	\$1,141.20	1.1250	1	1	\$1,141.20	\$1,141.20
Replace glass - 1st floor (1% of glass) - steel frame window	1	6.00 S.F.	\$72.35	\$85.03	45.0000	45	45	\$3,826.33	\$3,826.33
Repair 3'-9" x 5'-5" steel frame window - 1st floor.	20	8.00 Ea.	\$2,386.43	\$2,803.34	2.2500	2	2	\$5,606.69	\$5,606.69
Replace 3'-9" x 5'-5" steel frame window - 1st floor.	45	8.00 Ea.	\$13,254.87	\$15,262.17	1.0000	1	1	\$15,262.17	\$15,262.17
Repair steel, painted, door	14	3.00 Ea.	\$1,875.22	\$2,232.02	3.2143	3	3	\$6,696.05	\$6,696.05
Refinish 3'-0" x 7'-0" steel, painted, door	4	3.00 Ea.	\$124.20	\$152.60	11.2500	11	11	\$1,678.59	\$1,678.59
Replace 3'-0" x 7'-0" steel, painted, door	45	3.00 Ea.	\$2,115.19	\$2,459.19	1.0000	1	1	\$2,459.19	\$2,459.19
Debris removal and visual inspection of built-up roofing	0.5	4.28 M.S.F.	\$161.18	\$196.60	90.0000	90	90	\$17,693.58	\$17,693.58
Non-destructive moisture inspection of built-up roofing	5	4.28 M.S.F.	\$500.14	\$610.02	9.0000	9	9	\$5,490.21	\$5,490.21
Minor BUR membrane repairs, 2% of roof area	1	1.00 Sq.	\$484.14	\$574.51	45.0000	45	45	\$25,852.97	\$25,852.97
BUR flashing repairs, 2 S.F. per sq. repaired	1	2.00 S.F.	\$7.00	\$8.50	45.0000	45	45	\$382.40	\$382.40
Total BUR roof replacement	28	50.00 Sq.	\$38,982.50	\$46,099.12	1.6071	1	1	\$46,099.12	\$46,099.12
Repair steel painted interior door	14	4.00 Ea.	\$1,173.81	\$1,366.26	3.2143	3	3	\$4,098.77	\$4,098.77
Refinish 3'-0" x 7'-0" steel painted interior door	4	4.00 Ea.	\$210.34	\$259.15	11.2500	11	11	\$2,850.60	\$2,850.60
Replace 3'-0" x 7'-0" steel painted interior door	60	4.00 Ea.	\$4,872.14	\$5,648.33	0.7500	0	0	\$0.00	\$0.00
Repair solid core wood door, interior	11	4.00 Ea.	\$1,173.81	\$1,366.26	4.0909	4	4	\$5,465.02	\$5,465.02
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	4.00 Ea.	\$173.46	\$213.00	11.2500	11	10	\$2,342.99	\$2,129.99
Replace 3'-0" x 7'-0" solid core wood door, interior	40	4.00 Ea.	\$1,957.71	\$2,263.24	1.1250	1	1	\$2,263.24	\$2,263.24
Replace rubber tile floor	18	430.00 S.Y.	\$83,430.91	\$98,455.58	2.5000	2	2	\$196,911.15	\$196,911.15
Replace flush valve diaphragm tankless water closet	10	2.00 Ea.	\$52.44	\$65.07	4.5000	4	4	\$260.29	\$260.29
Rebuild flush valve tankless water closet	20	6.00 Ea.	\$1,082.60	\$1,304.74	2.2500	2	2	\$2,609.49	\$2,609.49
Unplug clogged line tankless water closet	5	6.00 Ea.	\$1,310.37	\$1,638.76	9.0000	9	9	\$14,748.85	\$14,748.85
Replace tankless flush valve	25	6.00 Ea.	\$1,513.29	\$1,776.66	1.8000	1	1	\$1,776.66	\$1,776.66
Replace wax ring gasket for tankless water closet	5	6.00 Ea.	\$849.12	\$1,060.96	9.0000	9	9	\$9,548.63	\$9,548.63
Replace flush valve diaphragm for a urinal	7	4.00 Ea.	\$104.88	\$130.14	6.4286	6	6	\$780.86	\$780.86
Rebuild flush valve for a urinal	20	4.00 Ea.	\$721.74	\$869.83	2.2500	2	2	\$1,739.66	\$1,739.66
Unplug line urinal	5	4.00 Ea.	\$580.29	\$725.71	9.0000	9	9	\$6,531.41	\$6,531.41
Replace washer in spud connection lavatory, vitreous china	7	6.00 Ea.	\$98.78	\$120.48	6.4286	6	6	\$722.88	\$722.88
Replace washer in faucet lavatory, vitreous china	2	6.00 Ea.	\$77.31	\$96.31	22.5000	22	22	\$2,118.84	\$2,118.84

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Replace faucets lavatory, vitreous china	10	6.00 Ea.	\$1,090.36	\$1,312.53	4.5000	4	4	\$5,250.13	\$5,250.13
Clean out strainer and P trap lavatory, vitreous china	2	6.00 Ea.	\$209.22	\$261.65	22.5000	22	22	\$5,756.24	\$5,756.24
Replace faucet washer sink, iron enamel	2	1.00 Ea.	\$12.78	\$15.92	22.5000	22	22	\$350.15	\$350.15
Clean trap sink, iron enamel	3	1.00 Ea.	\$8.57	\$10.72	15.0000	15	15	\$160.78	\$160.78
Replace faucets sink, iron enamel	10	1.00 Ea.	\$181.73	\$218.76	4.5000	4	4	\$875.02	\$875.02
Unstop sink, iron enamel	2	1.00 Ea.	\$41.82	\$52.30	22.5000	22	22	\$1,150.65	\$1,150.65
Replace sink, P.E.C.I. sink, iron enamel kitchen	35	1.00 Ea.	\$636.70	\$757.51	1.2857	1	1	\$757.51	\$757.51
Unclog main drain pipe & fittings, cast iron	10	1.00 Ea.	\$46.17	\$57.74	4.5000	4	4	\$230.95	\$230.95
Replace pipe & fittings, cast iron, 4"	40	16.00 L.F.	\$1,071.15	\$1,285.72	1.1250	1	1	\$1,285.72	\$1,285.72
Unclog floor drain, PVC	20	1.00 Ea.	\$47.80	\$59.77	2.2500	2	2	\$119.55	\$119.55
General maintenance & repair drain: roof, scupper, area	1	4.00 Ea.	\$147.95	\$185.03	45.0000	45	45	\$8,326.26	\$8,326.26
Replace drain: roof, scupper, area	40	4.00 Ea.	\$3,147.73	\$3,649.44	1.1250	1	1	\$3,649.44	\$3,649.44
Repair boiler, gas, 250 MBH	7	1.00 Ea.	\$2,031.05	\$2,390.45	6.4286	6	6	\$14,342.70	\$14,342.70
Replace boiler, gas, 250 MBH	30	1.00 Ea.	\$9,398.04	\$11,210.13	1.5000	1	1	\$11,210.13	\$11,210.13
Replace metal flue, all fuel SS, 6" diameter metal flue / chimney	15	4.00 L.F.	\$516.20	\$597.81	3.0000	3	3	\$1,793.43	\$1,793.43
Replace fan coil, DX 20 ton, with heat	10	2.00 Ea.	\$26,546.26	\$31,660.38	4.5000	4	4	\$126,641.51	\$126,641.51
Replace fan & motor, propeller exhaust, 1000 CFM exhaust fan	15	4.00 Ea.	\$3,417.51	\$4,028.22	3.0000	3	3	\$12,084.65	\$12,084.65
Repair single zone rooftop unit, 25 ton	10	1.00 Ea.	\$47,397.42	\$54,623.55	4.5000	4	3	\$218,494.20	\$163,870.65
Replace single zone rooftop unit, 25 ton	15	1.00 Ea.	\$51,343.17	\$59,585.52	3.0000	3	3	\$178,756.56	\$178,756.56
Inspect sprinkler system	1	1.00 Ea.	\$34.33	\$42.93	45.0000	45	45	\$1,931.79	\$1,931.79
Replace sprinkler head	20	20.00 Ea.	\$1,710.46	\$2,103.79	2.2500	2	2	\$4,207.58	\$4,207.58
Rebuild double check 3" backflow preventer sprinkler system	1	1.00 Ea.	\$710.41	\$851.09	45.0000	45	45	\$38,299.22	\$38,299.22
Maintenance and inspection lighting panel, indoor	3	2.00 Ea.	\$81.29	\$101.84	15.0000	15	15	\$1,527.64	\$1,527.64
Maintenance and repair incandescent lighting fixtures	10	24.00 Ea.	\$1,652.78	\$1,967.64	4.5000	4	4	\$7,870.56	\$7,870.56
Replace incandescent lighting fixture lamp	5	24.00 Ea.	\$275.57	\$332.82	9.0000	9	9	\$2,995.42	\$2,995.42
Replace fluorescent light fixture ballast, 80 W	10	42.00 Ea.	\$5,236.07	\$6,351.96	4.5000	4	4	\$25,407.86	\$25,407.86
Replace lamps (2 lamps), 4', 34 W energy saver	10	42.00 Ea.	\$1,058.99	\$1,326.32	4.5000	4	4	\$5,305.26	\$5,305.26
Repair smoke detector	10	8.00 Ea.	\$451.10	\$557.71	4.5000	4	3	\$2,230.85	\$1,673.14
Check operation smoke detector	1	8.00 Ea.	\$129.55	\$162.31	45.0000	45	45	\$7,304.05	\$7,304.05
Replace smoke detector	15	8.00 Ea.	\$2,273.90	\$2,715.70	3.0000	3	3	\$8,147.09	\$8,147.09
Check and repair manual pull station	10	2.00 Ea.	\$175.39	\$215.66	4.5000	4	3	\$862.64	\$646.98
Replace manual pull station	15	4.00 Ea.	\$813.87	\$979.76	3.0000	3	3	\$2,939.29	\$2,939.29
Replace fire alarm bell, 6"	20	4.00 Ea.	\$779.85	\$941.10	2.2500	2	2	\$1,882.20	\$1,882.20
Replace lamp emergency lighting fixture	2	8.00 Ea.	\$437.52	\$527.01	22.5000	22	22	\$11,594.12	\$11,594.12
Replace emergency lighting fixture	20	8.00 Ea.	\$4,818.94	\$5,678.09	2.2500	2	2	\$11,356.18	\$11,356.18

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost	
Maintenance and repair exit light	20	8.00 Ea.	\$297.61	\$368.03	2.2500	2	2	\$736.05	\$736.05	
Replace lamp exit light	5	8.00 Ea.	\$134.77	\$159.71	9.0000	9	9	\$1,437.37	\$1,437.37	
Replace lighting fixture exit light	20	8.00 Ea.	\$1,528.28	\$1,838.09	2.2500	2	2	\$3,676.17	\$3,676.17	
Remove and replace 20" dia dust collector bag	5	2.00 Ea.	\$1,685.44	\$1,932.37	9.0000	9	9	\$17,391.32	\$17,391.32	
Repair 8" concrete block wall, 1st floor	25	2.00 S.F.	\$48.43	\$59.25	1.8000	1	1	\$59.25	\$59.25	
Replace 8" concrete block wall, 1st floor	60	28.30 C.S.F.	\$33,559.68	\$40,557.51	0.7500	0	0	\$0.00	\$0.00	
			\$365,696.75	\$430,959.41				MR Subtotal	\$1,081,912.71	
									MR Per Year	\$23,989.38
									PM Total	\$4,345.81
									Subtotal	\$28,335.19
									Total Per Unit	\$5.65

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SUC \$5.65

Release 2021 Qtr 3

UM SF

Zip Code Prefix 222

Design Life 45

Type PM

Average Size 5011.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Door, emergency egress, swinging, annualized	1.00	0.26	\$14.59	\$10.75	\$0.00	\$25.34	\$30.03	\$35.44
Fire doors, swinging, annualized	2.00	0.78	\$28.64	\$29.12	\$0.00	\$57.76	\$69.36	\$82.39
Urinals, annualized	4.00	0.91	\$25.27	\$45.81	\$0.00	\$71.09	\$87.36	\$104.89
Toilet (vacuum breaker type), annualized	6.00	1.06	\$50.65	\$53.39	\$0.00	\$104.04	\$125.12	\$148.74
Lavatories, annualized	6.00	2.09	\$35.79	\$124.22	\$0.00	\$160.01	\$200.86	\$243.49
Drink fountain, annualized	1.00	0.62	\$20.73	\$31.28	\$0.00	\$52.00	\$63.46	\$75.95
Air filter, electrostatic, annualized	2.00	15.20	\$20.32	\$766.47	\$0.00	\$786.79	\$1,018.76	\$1,251.75
Fan, axial, 5,000 to 10,000 CFM, annualized	2.00	2.58	\$71.78	\$129.51	\$0.00	\$201.29	\$247.32	\$296.94
Package unit with duct gas heater, annualized	1.00	4.96	\$193.10	\$299.54	\$0.00	\$492.64	\$601.81	\$720.64
Backflow prevention device, up to 4", annualized	1.00	0.33	\$13.40	\$19.82	\$0.00	\$33.22	\$40.50	\$48.46
Extinguishing system, wet pipe, annualized	1.00	11.34	\$68.24	\$678.37	\$0.00	\$746.61	\$956.95	\$1,170.70
Light, emergency, hardwired system, annualized	5.00	1.25	\$38.66	\$73.81	\$0.00	\$112.48	\$138.49	\$166.43
						\$2,843.27	\$3,580.01	\$4,345.81

FAC 1718 INDOOR FIRING RANGE AND SUPPORTING FACILITY

Modeled Component List CostWorks Release 2021 Qtr 3

B20 Exterior Enclosure	
Steel Louver, 1st floor	2.0 Ea.
Steel Frame, Operating, 1st floor	8.0 Ea.
Steel, Painted	3.0 Ea.
Concrete Block, 1st floor	28.3 C.S.F.
B30 Roofing	
Built-Up Roofing	50.0 Sq.
C10 Interior Construction	
Steel Painted Interior Doors	4.0 Ea.
Solid Core Interior Doors	4.0 Ea.
Fire Doors, Swinging, annualized	2.0 Each
C30 Interior Finishes	
Rubber Tile	430.0 S.Y.
D20 Plumbing	
Sink, Iron Enamel	1.0 Ea.
Drain: Roof, Scupper, Area	4.0 Ea.
D30 HVAC	
Boiler, Gas, 250 MBH	1.0 Ea.
Metal Flue / Chimney, 6" diameter	4.0 L.F.
Fan Coil, DX Air Conditioner W/ Heat, 20 ton	2.0 Ea.
Exhaust Fan, propeller exh., 4700 CFM	4.0 Ea.
Single Zone Air Conditioner, 25 ton	1.0 Ea.
D40 Fire Protection	
Sprinkler System, Fire Supression, sprinkler head	20.0 Ea.
Sprinkler System, Fire Supression , 3" backflow preventer	1.0 Ea.
D50 Electrical	
Load Center, 100 A, maintenance & inspection	2.0 Ea.
Smoke Detector	8.0 Ea.
Manual Pull Station	4.0 Ea.
Fire Alarm Bell	4.0 Ea.
Emergency Lighting Fixture	8.0 Ea.
Exit Light	8.0 Ea.

FAC 1718 INDOOR FIRING RANGE AND SUPPORTING FACILITY
Sustainment by Year
CostWorks Release 2021 Qtr 3

