

**FAC 2191 FACILITY ENGINEER MAINTENANCE SHOP**

FY24 SUC: \$6.43 / SF  
Source: Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 2191 FACILITY ENGINEER MAINTENANCE SHOP

SUC \$6.43

Release 2023 Qtr 4

UM SF

Zip Code Prefix 222

Design Life 50

Type MR

Average Size 5774.0

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
Minor repairs to concrete floor unfinished	15	150.00 S.F.	\$5,720.07	\$6,980.54	3.3333	3	3	\$20,941.61	\$20,941.61
Repair concrete stairs	30	38.00 S.F.	\$1,244.33	\$1,438.81	1.6667	1	1	\$1,438.81	\$1,438.81
Replace aluminum siding, 1st floor	35	28.10 C.S.F.	\$17,412.15	\$20,972.58	1.4286	1	1	\$20,972.58	\$20,972.58
Refinish aluminum siding, 1st floor	20	28.10 C.S.F.	\$5,869.29	\$7,199.81	2.5000	2	2	\$14,399.63	\$14,399.63
Repair steel, painted, door	14	4.00 Ea.	\$2,809.34	\$3,336.77	3.5714	3	3	\$10,010.31	\$10,010.31
Refinish 3'-0" x 7'-0" steel, painted, door	4	4.00 Ea.	\$184.22	\$225.58	12.5000	12	12	\$2,707.02	\$2,707.02
Replace 3'-0" x 7'-0" steel, painted, door	45	4.00 Ea.	\$3,668.44	\$4,247.70	1.1111	1	1	\$4,247.70	\$4,247.70
Repair 12' x 12' steel roll-up door	10	2.00 Ea.	\$1,402.23	\$1,666.45	5.0000	5	5	\$8,332.24	\$8,332.24
Replace 12' x 12' steel roll-up door	35	2.00 Ea.	\$5,608.93	\$6,665.79	1.4286	1	1	\$6,665.79	\$6,665.79
Minor BUR membrane repairs, 2% of roof area	1	1.15 Sq.	\$611.81	\$725.42	50.0000	50	50	\$36,271.08	\$36,271.08
Place new BUR membrane over existing	20	57.00 Sq.	\$30,283.06	\$35,687.22	2.5000	2	2	\$71,374.44	\$71,374.44
Repair hollow core wood door, interior	7	8.00 Ea.	\$2,231.91	\$2,605.46	7.1429	7	7	\$18,238.20	\$18,238.20
Replace 3'-0" x 7'-0" hollow core wood door, interior	30	8.00 Ea.	\$2,731.85	\$3,213.01	1.6667	1	1	\$3,213.01	\$3,213.01
Repair 5/8" drywall - (2% of walls)	20	144.00 S.F.	\$240.61	\$294.05	2.5000	2	2	\$588.09	\$588.09
Refinish drywall	4	1,140.00 S.F.	\$772.51	\$949.03	12.5000	12	12	\$11,388.31	\$11,388.31
Refinish concrete floor finished	25	48.00 C.S.F.	\$19,995.71	\$24,125.69	2.0000	2	2	\$48,251.39	\$48,251.39
Replace vinyl tile flooring	18	123.00 S.Y.	\$6,283.97	\$7,733.22	2.7778	2	2	\$15,466.43	\$15,466.43
Acoustic tile repairs - (2% of ceilings)	9	0.49 C.S.F.	\$452.66	\$526.62	5.5556	5	5	\$2,633.09	\$2,633.09
Refinish acoustic tile ceiling and grid (occupied area)	5	15.00 C.S.F.	\$390.90	\$486.15	10.0000	10	10	\$4,861.53	\$4,861.53
Replace acoustic tile ceiling, fire-rated	20	15.00 C.S.F.	\$7,813.92	\$9,235.46	2.5000	2	2	\$18,470.92	\$18,470.92
Replace flush valve diaphragm tankless water closet	10	3.00 Ea.	\$81.79	\$101.57	5.0000	5	5	\$507.84	\$507.84
Rebuild flush valve tankless water closet	20	3.00 Ea.	\$575.64	\$693.81	2.5000	2	2	\$1,387.61	\$1,387.61
Unplug clogged line tankless water closet	5	3.00 Ea.	\$689.79	\$863.50	10.0000	10	10	\$8,634.95	\$8,634.95
Replace tankless water closet	35	3.00 Ea.	\$4,249.66	\$4,914.96	1.4286	1	1	\$4,914.96	\$4,914.96
Replace tankless flush valve	25	3.00 Ea.	\$810.73	\$951.65	2.0000	2	2	\$1,903.31	\$1,903.31
Replace wax ring gasket for tankless water closet	5	3.00 Ea.	\$447.49	\$559.66	10.0000	10	10	\$5,596.60	\$5,596.60
Replace stainless steel detention water closet flush valve actuator	20	3.00 Ea.	\$1,166.05	\$1,352.82	2.5000	2	2	\$2,705.64	\$2,705.64
Replace stainless steel detention water closet flush valve	20	3.00 Ea.	\$3,743.62	\$4,279.33	2.5000	2	2	\$8,558.66	\$8,558.66
Replace flush valve diaphragm for a urinal	7	2.00 Ea.	\$54.53	\$67.71	7.1429	7	7	\$473.98	\$473.98
Rebuild flush valve for a urinal	20	2.00 Ea.	\$383.76	\$462.54	2.5000	2	2	\$925.08	\$925.08
Unplug line urinal	5	2.00 Ea.	\$305.28	\$382.16	10.0000	10	10	\$3,821.63	\$3,821.63
Replace wall-hung urinal	35	2.00 Ea.	\$2,175.04	\$2,616.09	1.4286	1	1	\$2,616.09	\$2,616.09

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Replace washer in spud connection lavatory, vitreous china	7	4.00 Ea.	\$69.29	\$84.56	7.1429	7	7	\$591.94	\$591.94
Replace washer in faucet lavatory, vitreous china	2	4.00 Ea.	\$54.27	\$67.67	25.0000	25	25	\$1,691.72	\$1,691.72
Replace faucets lavatory, vitreous china	10	4.00 Ea.	\$781.89	\$940.49	5.0000	5	5	\$4,702.43	\$4,702.43
Clean out strainer and P trap lavatory, vitreous china	2	4.00 Ea.	\$147.27	\$184.36	25.0000	25	25	\$4,609.07	\$4,609.07
Replace lavatory, vitreous china	35	4.00 Ea.	\$2,874.89	\$3,453.62	1.4286	1	1	\$3,453.62	\$3,453.62
Inspect / clean shower head fiberglass	3	4.00 Ea.	\$206.14	\$258.05	16.6667	16	16	\$4,128.87	\$4,128.87
Replace mixing valve shower, fiberglass	10	4.00 Ea.	\$1,173.57	\$1,427.72	5.0000	5	5	\$7,138.61	\$7,138.61
Replace shower and fittings, fiberglass	20	4.00 Ea.	\$4,396.32	\$5,241.23	2.5000	2	2	\$10,482.46	\$10,482.46
Inspect and clean spray heads, emergency eye wash	3	2.00 Ea.	\$103.07	\$129.03	16.6667	16	16	\$2,064.43	\$2,064.43
Replace eye wash station, emergency eye wash	25	2.00 Ea.	\$1,571.83	\$1,911.10	2.0000	2	2	\$3,822.20	\$3,822.20
Overhaul water heater, gas / oil, 70 gallon	5	1.00 Ea.	\$172.87	\$216.40	10.0000	10	10	\$2,163.98	\$2,163.98
Clean & service water heater, gas / oil, 70 gallon	1	1.00 Ea.	\$206.10	\$258.00	50.0000	50	50	\$12,900.02	\$12,900.02
Replace water heater, gas / oil, 70 gallon	12	1.00 Ea.	\$3,214.32	\$3,737.78	4.1667	4	4	\$14,951.13	\$14,951.13
Replace pump / motor assembly circulation pump, 1/12 HP	10	1.00 Ea.	\$1,218.91	\$1,426.89	5.0000	5	5	\$7,134.47	\$7,134.47
Unclog floor drain, PVC	20	1.00 Ea.	\$50.45	\$63.16	2.5000	2	2	\$126.31	\$126.31
Repair joint pipe and fittings, PVC	10	1.00 Ea.	\$168.16	\$208.23	5.0000	5	5	\$1,041.14	\$1,041.14
Replace pipe, 4" pipe and fittings, PVC	30	90.00 L.F.	\$7,464.84	\$9,213.97	1.6667	1	1	\$9,213.97	\$9,213.97
Install new 4" gasket, 1 per M.L.F. natural gas, steel/iron	30	1.00 Ea.	\$226.30	\$280.46	1.6667	1	1	\$280.46	\$280.46
Repair boiler, gas, 250 MBH	7	1.00 Ea.	\$2,758.88	\$3,222.41	7.1429	7	7	\$22,556.86	\$22,556.86
Replace boiler, gas, 250 MBH	30	1.00 Ea.	\$9,616.21	\$11,488.35	1.6667	1	1	\$11,488.35	\$11,488.35
Replace roof mounted exhaust fan, 8500 CFM exhaust fan	20	2.00 Ea.	\$8,594.12	\$9,969.92	2.5000	2	2	\$19,939.83	\$19,939.83
Repair circulator pump, 1/12 - 3/4 H.P.	5	2.00 Ea.	\$206.95	\$244.10	10.0000	10	7	\$2,441.04	\$1,708.73
Replace circulator pump, 1/12 - 3/4 H.P.	15	2.00 Ea.	\$7,592.09	\$8,752.06	3.3333	3	3	\$26,256.19	\$26,256.19
Repair damaged pipe insulation, fiberglass 3/4"	5	2.00 Ea.	\$44.30	\$54.14	10.0000	10	10	\$541.35	\$541.35
Repair damaged pipe insulation, fiberglass 2"	5	1.00 Ea.	\$26.39	\$32.17	10.0000	10	10	\$321.71	\$321.71
Repair terminal reheat, 12" x 24" coil	10	4.00 Ea.	\$373.55	\$467.63	5.0000	5	4	\$2,338.13	\$1,870.50
Replace terminal reheat, 12" x 24" coil	15	4.00 Ea.	\$7,957.15	\$9,125.50	3.3333	3	3	\$27,376.50	\$27,376.50
Repair single zone rooftop unit, 25 ton	10	1.00 Ea.	\$54,305.81	\$62,518.61	5.0000	5	4	\$312,593.03	\$250,074.42
Replace single zone rooftop unit, 25 ton	15	1.00 Ea.	\$52,455.46	\$60,922.27	3.3333	3	3	\$182,766.81	\$182,766.81
Repair central station A.H.U., 8000 CFM	10	1.00 Ea.	\$1,802.39	\$2,085.97	5.0000	5	4	\$10,429.85	\$8,343.88

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Replace central station A.H.U., 8000 CFM	15	1.00 Ea.	\$40,394.19	\$46,556.29	3.3333	3	3	\$139,668.88	\$139,668.88
Inspect sprinkler system	1	1.00 Ea.	\$36.17	\$45.28	50.0000	50	50	\$2,264.22	\$2,264.22
Replace sprinkler head	20	30.00 Ea.	\$2,629.44	\$3,244.56	2.5000	2	2	\$6,489.11	\$6,489.11
Rebuild reduced pressure 3" backflow preventer sprinkler system	1	1.00 Ea.	\$748.17	\$896.73	50.0000	50	50	\$44,836.44	\$44,836.44
Maintenance and repair motor starter, up to 600 V	5	4.00 Ea.	\$1,051.28	\$1,277.98	10.0000	10	10	\$12,779.77	\$12,779.77
Maintenance and inspection motor starter, up to 600 V	0.5	4.00 Ea.	\$227.52	\$285.05	100.0000	100	100	\$28,505.09	\$28,505.09
Replace starter motor starter, up to 600 V	18	4.00 Ea.	\$3,364.09	\$4,002.99	2.7778	2	2	\$8,005.97	\$8,005.97
Maintenance and inspection lighting panel, indoor	3	2.00 Ea.	\$84.69	\$106.10	16.6667	16	16	\$1,697.64	\$1,697.64
Maintenance and repair breaker, molded case, 480 V, 1 pole	20	9.00 Ea.	\$682.56	\$855.15	2.5000	2	2	\$1,710.31	\$1,710.31
Replace circuit breaker molded case, 480 V, 1 pole circuit breaker	50	9.00 Ea.	\$7,095.83	\$8,211.71	1.0000	1	1	\$8,211.71	\$8,211.71
Maintenance and repair breaker, molded case, 480 V, 2 pole	20	6.00 Ea.	\$455.04	\$570.10	2.5000	2	2	\$1,140.20	\$1,140.20
Maintenance and inspection circuit breaker, molded case, 480 V, 2 pole	0.5	6.00 Ea.	\$204.77	\$256.55	100.0000	100	100	\$25,654.58	\$25,654.58
Replace safety switch, heavy duty 30 A	25	1.00 Ea.	\$676.63	\$806.23	2.0000	2	2	\$1,612.47	\$1,612.47
Maintenance and repair safety switch general, 2 pole	8	1.00 Ea.	\$42.34	\$53.05	6.2500	6	6	\$318.31	\$318.31
Maintenance and inspection safety switch, 2 pole	1	1.00 Ea.	\$42.34	\$53.05	50.0000	50	50	\$2,652.56	\$2,652.56
Replace safety switch, 240 V, 2 pole	25	16.00 Ea.	\$7,172.94	\$8,697.60	2.0000	2	2	\$17,395.19	\$17,395.19
Maintenance and repair receptacles and plugs	20	45.00 Ea.	\$1,981.94	\$2,474.18	2.5000	2	2	\$4,948.37	\$4,948.37
Maintenance and repair wiring devices, switches	10	15.00 Ea.	\$660.65	\$824.73	5.0000	5	5	\$4,123.64	\$4,123.64
Maintenance and repair quartz fixture	10	18.00 Ea.	\$1,041.04	\$1,254.56	5.0000	5	5	\$6,272.79	\$6,272.79
Replace 1500 W quartz lamp	10	18.00 Ea.	\$884.59	\$1,066.84	5.0000	5	5	\$5,334.22	\$5,334.22
Replace fluorescent light fixture ballast, 80 W	10	16.00 Ea.	\$1,673.70	\$2,063.85	5.0000	5	5	\$10,319.26	\$10,319.26
Replace lamps (2 lamps), 4', 34 W energy saver	10	32.00 Ea.	\$847.54	\$1,061.41	5.0000	5	5	\$5,307.03	\$5,307.03
Repair smoke detector	10	10.00 Ea.	\$580.10	\$718.33	5.0000	5	4	\$3,591.63	\$2,873.30
Check operation smoke detector	1	12.00 Ea.	\$204.01	\$255.60	50.0000	50	50	\$12,779.78	\$12,779.78
Replace smoke detector	15	12.00 Ea.	\$3,630.63	\$4,334.62	3.3333	3	3	\$13,003.86	\$13,003.86
Check and repair manual pull station	10	6.00 Ea.	\$539.30	\$664.48	5.0000	5	4	\$3,322.41	\$2,657.92
Replace manual pull station	15	6.00 Ea.	\$1,252.55	\$1,510.58	3.3333	3	3	\$4,531.73	\$4,531.73
Minor repairs to fire alarm control panel	5	1.00 Ea.	\$149.42	\$182.60	10.0000	10	10	\$1,825.95	\$1,825.95
Maintenance and inspection fire alarm control panel	0.5	1.00 Ea.	\$45.50	\$57.01	100.0000	100	100	\$5,701.02	\$5,701.02
Replace fire alarm control panel	15	1.00 Ea.	\$2,196.12	\$2,675.47	3.3333	3	3	\$8,026.42	\$8,026.42
Minor repairs to annunciation panel	5	2.00 Ea.	\$298.83	\$365.19	10.0000	10	10	\$3,651.91	\$3,651.91

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 inspection annunciation panel	0.5	2.00 Ea.	\$91.01	\$114.02	100.0000	100	100	\$11,402.04	\$11,402.04	
Replace annunciation panel	15	2.00 Ea.	\$2,250.50	\$2,714.84	3.3333	3	3	\$8,144.51	\$8,144.51	
Replace fire alarm bell, 6"	20	3.00 Ea.	\$541.82	\$659.31	2.5000	2	2	\$1,318.63	\$1,318.63	
Maintenance and repair electrical service ground	25	1.00 M.L.F.	\$92.28	\$115.32	2.0000	2	2	\$230.64	\$230.64	
Replace electrical service ground	50	1.00 M.L.F.	\$4,504.18	\$5,489.97	1.0000	1	1	\$5,489.97	\$5,489.97	
Maintenance and repair building structure ground	7	1.00 M.L.F.	\$92.28	\$115.32	7.1429	7	7	\$807.25	\$807.25	
Maintenance and repair of general wiring lightning protection system	1	0.80 M.L.F.	\$87.60	\$107.91	50.0000	50	50	\$5,395.47	\$5,395.47	
Maintenance and repair lightning ground rod	1	1.00 Ea.	\$92.28	\$115.32	50.0000	50	48	\$5,766.08	\$5,535.43	
Replace lightning ground rod	25	1.00 Ea.	\$245.60	\$303.67	2.0000	2	2	\$607.34	\$607.34	
Replace lamp emergency lighting fixture	2	5.00 Ea.	\$272.46	\$329.28	25.0000	25	25	\$8,231.88	\$8,231.88	
Replace emergency lighting fixture	20	5.00 Ea.	\$2,874.03	\$3,399.37	2.5000	2	2	\$6,798.74	\$6,798.74	
Maintenance and repair exit light	20	5.00 Ea.	\$192.45	\$238.35	2.5000	2	2	\$476.71	\$476.71	
Replace lighting fixture exit light	20	5.00 Ea.	\$880.32	\$1,067.54	2.5000	2	2	\$2,135.07	\$2,135.07	
Replace lamp with exit light L.E.D. retrofit kits	15	5.00 Ea.	\$545.32	\$627.39	3.3333	3	3	\$1,882.18	\$1,882.18	
Replace patch panel	15	2.00 Ea.	\$1,772.80	\$2,133.61	3.3333	3	3	\$6,400.84	\$6,400.84	
Automotive equipment, compressor, electric, 5 HP, remove and replace motor	10	1.00 Ea.	\$834.47	\$959.62	5.0000	5	5	\$4,798.11	\$4,798.11	
Remove and replace hydraulic dock leveler lift cylinder	15	1.00 Ea.	\$7,980.83	\$9,088.67	3.3333	3	3	\$27,266.00	\$27,266.00	
Remove and replace hydraulic dock leveler hydraulic pump	20	1.00 Ea.	\$2,116.95	\$2,420.62	2.5000	2	2	\$4,841.23	\$4,841.23	
Remove and replace 20" dia dust collector bag	5	1.00 Ea.	\$1,472.51	\$1,682.24	10.0000	10	10	\$16,822.36	\$16,822.36	
			\$408,078.74	\$480,657.23				MR Subtotal	\$1,519,144.55	
									MR Per Year	\$30,318.44
									PM Total	\$6,798.37
									Subtotal	\$37,116.81
									Total Per Unit	\$6.43

FAC 2191 FACILITY ENGINEER MAINTENANCE SHOP

SUC \$6.43

Release 2023 Qtr 4

UM SF

Zip Code Prefix 222

Design Life 50

Type PM

Average Size 5774.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Door, emergency egress, swinging, annualized	4.00	1.04	\$67.05	\$45.93	\$0.00	\$112.99	\$133.47	\$157.31
Door, overhead, electric, roll up, to 24' high x 25' wide, annualized	2.00	8.14	\$86.15	\$359.93	\$0.00	\$446.09	\$562.68	\$683.59
Fire doors, swinging, annualized	2.00	0.78	\$31.33	\$30.91	\$0.00	\$62.24	\$74.65	\$88.62
Urinals, annualized	2.00	0.46	\$13.26	\$24.33	\$0.00	\$37.59	\$46.21	\$55.50
Toilet (tank type), annualized	3.00	1.16	\$23.98	\$62.78	\$0.00	\$86.77	\$108.00	\$130.43
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
Drink fountain, annualized	2.00	1.24	\$74.89	\$66.27	\$0.00	\$141.16	\$168.53	\$199.65
Water heater, gas, to 120 gal., annualized	1.00	1.72	\$102.21	\$91.56	\$0.00	\$193.77	\$231.46	\$274.26
Boiler, hot water, oil, gas, or comb. fired, 120 - 500 MBH, annualized	1.00	15.88	\$88.55	\$1,002.80	\$0.00	\$1,091.35	\$1,401.04	\$1,715.17
Air handling unit, 3 thru 24 tons, annualized	1.00	2.06	\$159.90	\$109.87	\$0.00	\$269.77	\$318.72	\$375.67
Air filter, electrostatic, annualized	1.00	7.60	\$11.08	\$405.48	\$0.00	\$416.56	\$539.31	\$662.62
Backflow prevention device, up to 4", annualized	1.00	0.33	\$14.02	\$20.93	\$0.00	\$34.94	\$42.62	\$51.01
Extinguishing system, wet pipe, annualized	1.00	11.34	\$49.59	\$710.68	\$0.00	\$760.27	\$978.43	\$1,199.07
Panelboard, 225 A and above, annualized	4.00	1.76	\$88.00	\$121.66	\$0.00	\$209.66	\$254.96	\$304.66
Light, emergency, hardwired system, annualized	4.00	1.00	\$35.92	\$63.10	\$0.00	\$99.02	\$121.54	\$145.86
Hoist / winch, chain / cable, electric, annualized	1.00	1.65	\$187.40	\$61.26	\$0.00	\$248.66	\$285.78	\$332.26
Storage tank, ground level, annualized	1.00	0.72	\$19.76	\$37.60	\$0.00	\$57.37	\$70.62	\$84.87
						\$4,497.99	\$5,619.72	\$6,798.37



# FAC 2191 FACILITY ENGINEER MAINTENANCE SHOP

## Modeled Component List CostWorks Release 2023 Qtr 4

B20 Exterior Enclosure	
Aluminum Siding, 1st floor	28.1 C.S.F.
Steel, Painted	4.0 Ea.
Steel Single, Roll-Up	2.0 Ea.
C10 Interior Construction	
Hollow Core Interior Doors	8.0 Ea.
Fire Doors, Swinging, annualized	2.0 Each
C30 Interior Finishes	
Concrete, Finished	48.0 C.S.F.
Vinyl	123.0 S.Y.
Acoustic Tile, fire-rated	15.0 C.S.F.
D20 Plumbing	
Tankless Water Closet	3.0 Ea.
Urinal	2.0 Ea.
Lavatory, Vitreous China	4.0 Ea.
Shower, Fiberglass	4.0 Ea.
Emergency Eye Wash	2.0 Ea.
Water Heater, Gas / Oil, 70 Gallon	1.0 Ea.
Circulation Pump, 1/12 HP	1.0 Ea.
D30 HVAC	
Boiler, Gas, 250 MBH	1.0 Ea.
Exhaust Fan, roof mounted exhaust fan, 8500 CFM exhaust	2.0 Ea.
Circulator Pump, 1/12 - 3/4 H.P.	2.0 Ea.
Terminal Reheat Coil, 12" x 24"	4.0 Ea.
Single Zone Air Conditioner, 25 ton	1.0 Ea.
Central Station Air Conditioning Air Handling Unit, 8000 CFM	1.0 Ea.
D40 Fire Protection	
Sprinkler System, Fire Suppression, sprinkler head	30.0 Ea.
Sprinkler System, Fire Suppression , reduced pressure 3" backflow preventer	1.0 Ea.
D50 Electrical	
Motor Starter, Up To 600 V	4.0 Ea.
Load Center, 100 A, maintenance & inspection	2.0 Ea.
Circuit Breaker, molded case, 480 V, 1 pole	9.0 Ea.
Safety Switch, Heavy Duty	1.0 Ea.
Safety Switch, General Duty, 240 V, 2 pole	16.0 Ea.
Quartz Lamp 1500 W, replace lamp	18.0 Ea.
Smoke Detector	12.0 Ea.
Manual Pull Station	6.0 Ea.
Fire Alarm Control Panel	1.0 Ea.
Annunciation Panel	2.0 Ea.
Fire Alarm Bell	3.0 Ea.
Electrical Service Ground	1.0 M.L.F.
Lightning Ground Rod	1.0 Ea.
Emergency Lighting Fixture	5.0 Ea.
Exit Light	5.0 Ea.
E10 Equipment	
Electric Compressor	1.0 Ea.
Hoist/Winch, Chain/Cable, annualized	1.0 Each
G30 Site Mechanical Utilities	
Storage Tank Ground Level, annualized	1.0 Each



FAC 2191 FACILITY ENGINEER MAINTENANCE SHOP  
Sustainment by Year  
CostWorks Release 2023 Qtr 4

