

FAC 2143 VEHICLE MAINTENANCE SHOP, NATIONAL GUARD

FY24 SUC: \$4.87 / SF
Source: Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 2143 VEHICLE MAINTENANCE SHOP, NATIONAL GUARD

Release 2023 Qtr 4

Zip Code Prefix 222

Type MR

UM SF

Design Life 50

Average Size 17068.454232

SUC \$4.87

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
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
Unclog main drain pipe & fittings, cast iron	10	1.00 Ea.	\$48.84	\$61.14	5.0000	5	5	\$305.70	\$305.70
Replace pipe & fittings, cast iron, 4"	40	16.00 L.F.	\$925.95	\$1,125.10	1.2500	1	1	\$1,125.10	\$1,125.10
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	16.00 L.F.	\$1,327.08	\$1,638.04	1.6667	1	1	\$1,638.04	\$1,638.04
General maintenance & repair drain: roof, scupper, area	1	2.00 Ea.	\$78.36	\$98.09	50.0000	50	50	\$4,904.69	\$4,904.69
Replace drain: roof, scupper, area	40	2.00 Ea.	\$2,260.75	\$2,607.70	1.2500	1	1	\$2,607.70	\$2,607.70
Resolder joint pipe & fittings, oxygen	12	1.00 Ea.	\$82.90	\$101.95	4.1667	4	4	\$407.79	\$407.79
Replace pipe and fittings, oxygen	25	16.00 L.F.	\$398.24	\$482.59	2.0000	2	2	\$965.17	\$965.17
Check and adjust 10 H.P. compressor	1	1.00 Ea.	\$89.03	\$111.45	50.0000	50	50	\$5,572.54	\$5,572.54
Replace 10 H.P. compressor	25	1.00 Ea.	\$15,756.71	\$18,323.66	2.0000	2	2	\$36,647.33	\$36,647.33
Check and adjust 25 H.P. compressor	1	1.00 Ea.	\$89.03	\$111.45	50.0000	50	50	\$5,572.54	\$5,572.54
Replace 25 H.P. compressor	25	1.00 Ea.	\$27,481.07	\$31,882.29	2.0000	2	2	\$63,764.58	\$63,764.58
Repair boiler, gas, 2000 MBH	7	1.00 Ea.	\$5,734.80	\$6,685.15	7.1429	7	7	\$46,796.03	\$46,796.03
Replace boiler, gas, 2000 MBH	30	1.00 Ea.	\$40,588.94	\$47,558.43	1.6667	1	1	\$47,558.43	\$47,558.43
Replace metal flue, all fuel SS, 6" diameter metal flue / chimney	15	1.00 L.F.	\$165.38	\$190.91	3.3333	3	3	\$572.74	\$572.74
Repair condenser, air cooled, 50 ton	10	1.00 Ea.	\$3,205.11	\$3,740.40	5.0000	5	5	\$18,701.99	\$18,701.99
Replace condenser, air cooled, 50 ton	15	1.00 Ea.	\$39,676.55	\$46,069.23	3.3333	3	3	\$138,207.70	\$138,207.70
Replace fan coil, DX 20 ton, with heat	10	6.00 Ea.	\$86,346.14	\$102,853.99	5.0000	5	5	\$514,269.94	\$514,269.94
Replace roof mounted exhaust fan, 8500 CFM exhaust fan	20	1.00 Ea.	\$4,297.06	\$4,984.96	2.5000	2	2	\$9,969.92	\$9,969.92
Maintenance and repair standard suspended heater	2	6.00 Ea.	\$688.35	\$812.21	25.0000	25	25	\$20,305.36	\$20,305.36
Maintenance and inspection standard suspended heater	0.5	6.00 Ea.	\$493.91	\$618.80	100.0000	100	100	\$61,879.91	\$61,879.91
Replace heater standard suspended heater	15	6.00 Ea.	\$4,372.53	\$5,069.66	3.3333	3	3	\$15,208.97	\$15,208.97
Rebuild 4" diameter reduced pressure backflow preventer	10	1.00 Ea.	\$921.17	\$1,072.81	5.0000	5	5	\$5,364.06	\$5,364.06
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	124.00 Ea.	\$10,868.33	\$13,410.83	2.5000	2	2	\$26,821.67	\$26,821.67
Rebuild double check 3" backflow preventer sprinkler system	1	1.00 Ea.	\$748.17	\$896.73	50.0000	50	50	\$44,836.44	\$44,836.44
Replace fire pump / electric motor assembly 100 H.P.	25	1.00 Ea.	\$48,011.97	\$55,351.32	2.0000	2	2	\$110,702.65	\$110,702.65

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 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, 2 pole	20	14.00 Ea.	\$1,061.77	\$1,330.24	2.5000	2	2	\$2,660.47	\$2,660.47
Replace circuit breaker enclosed, 240 V, 2 pole circuit breaker	50	22.00 Ea.	\$17,917.49	\$21,005.04	1.0000	1	1	\$21,005.04	\$21,005.04
Replace safety switch, heavy duty 30 A	25	4.00 Ea.	\$2,706.51	\$3,224.94	2.0000	2	2	\$6,449.88	\$6,449.88
Replace safety switch, heavy duty 600 A	25	1.00 Ea.	\$7,198.97	\$8,359.91	2.0000	2	2	\$16,719.83	\$16,719.83
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 receptacle/plug receptacles and plugs	20	29.00 Ea.	\$2,170.09	\$2,675.76	2.5000	2	2	\$5,351.51	\$5,351.51
Replace 4-pin receptacle	20	36.00 Ea.	\$5,505.34	\$6,547.35	2.5000	2	2	\$13,094.71	\$13,094.71
Replace wiring devices, switches	15	16.00 Ea.	\$1,066.90	\$1,328.11	3.3333	3	3	\$3,984.33	\$3,984.33
Replace fluorescent light fixture ballast, 80 W	10	47.00 Ea.	\$4,916.49	\$6,062.57	5.0000	5	5	\$30,312.84	\$30,312.84
Replace lamps (2 lamps), 4', 34 W energy saver	10	47.00 Ea.	\$1,244.83	\$1,558.94	5.0000	5	5	\$7,794.70	\$7,794.70
Replace metal halide ballast, 175 W	10	36.00 Ea.	\$6,007.93	\$7,191.52	5.0000	5	5	\$35,957.60	\$35,957.60
Replace metal halide fixture lamp, 175 W	5	36.00 Ea.	\$2,055.49	\$2,501.70	10.0000	10	10	\$25,016.96	\$25,016.96
Check and repair manual pull station	10	3.00 Ea.	\$269.65	\$332.24	5.0000	5	4	\$1,661.20	\$1,328.96
Replace manual pull station	15	3.00 Ea.	\$626.27	\$755.29	3.3333	3	3	\$2,265.87	\$2,265.87
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
Replace fire alarm bell, 6"	20	2.00 Ea.	\$361.21	\$439.54	2.5000	2	2	\$879.09	\$879.09
Minor repairs to concrete floor unfinished	15	120.00 S.F.	\$4,576.06	\$5,584.43	3.3333	3	3	\$16,753.29	\$16,753.29
Repair 8" concrete block wall, 1st floor	25	3,820.00 S.F.	\$98,170.85	\$120,210.57	2.0000	2	2	\$240,421.14	\$240,421.14
Waterproof concrete block wall, 1st floor	10	16.10 C.S.F.	\$4,161.47	\$4,936.45	5.0000	5	5	\$24,682.23	\$24,682.23
Waterproof concrete block wall, 2nd floor	10	16.10 C.S.F.	\$13,814.46	\$16,426.92	5.0000	5	5	\$82,134.61	\$82,134.61
Replace glass - 1st floor (1% of glass) - steel frame window	1	1.68 S.F.	\$22.09	\$25.94	50.0000	50	50	\$1,297.00	\$1,297.00
Repair 3'-9" x 5'-5" steel frame window - 1st floor.	20	7.00 Ea.	\$2,267.35	\$2,661.74	2.5000	2	2	\$5,323.47	\$5,323.47
Replace 3'-9" x 5'-5" steel frame window - 1st floor.	45	7.00 Ea.	\$12,643.04	\$14,553.29	1.1111	1	1	\$14,553.29	\$14,553.29
Repair 2'-0" x 3'-0" steel frame window - 2nd floor.	20	24.00 Ea.	\$4,953.45	\$5,963.77	2.5000	2	2	\$11,927.53	\$11,927.53

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Replace 2'-0" x 3'-0" steel frame window - 2nd floor.	45	24.00 Ea.	\$17,831.39	\$21,028.75	1.1111	1	1	\$21,028.75	\$21,028.75
Repair steel, painted, door	14	8.00 Ea.	\$5,618.68	\$6,673.54	3.5714	3	3	\$20,020.62	\$20,020.62
Refinish 3'-0" x 7'-0" steel, painted, door	4	8.00 Ea.	\$368.44	\$451.17	12.5000	12	12	\$5,414.04	\$5,414.04
Replace 3'-0" x 7'-0" steel, painted, door	45	8.00 Ea.	\$7,336.87	\$8,495.41	1.1111	1	1	\$8,495.41	\$8,495.41
Replace tempered glass - (3% of glass) steel painted door	1	5.04 S.F.	\$159.96	\$188.82	50.0000	50	50	\$9,440.85	\$9,440.85
Refinish 12' x 24' steel double roll-up door	5	10.00 Ea.	\$4,615.97	\$5,629.73	10.0000	10	10	\$56,297.31	\$56,297.31
Replace 12' x 24' steel double roll-up door	35	10.00 Ea.	\$56,089.29	\$66,657.89	1.4286	1	1	\$66,657.89	\$66,657.89
Minor BUR membrane repairs, 2% of roof area	1	1.50 Sq.	\$798.01	\$946.20	50.0000	50	50	\$47,310.10	\$47,310.10
Total BUR roof replacement	28	175.00 Sq.	\$153,160.11	\$180,832.48	1.7857	1	1	\$180,832.48	\$180,832.48
Debris removal, by hand and visual inspection, metal panel roofing	1	14.90 M.S.F.	\$365.66	\$446.00	50.0000	50	50	\$22,299.96	\$22,299.96
Metal roof flashing replacement, 2 SF/sq repaired, metal panel roofing	1	11.00 S.F.	\$278.38	\$332.71	50.0000	50	50	\$16,635.47	\$16,635.47
Replace insulating glass (3% of glass) fully glazed wooden doors	1	1.26 S.F.	\$63.05	\$73.62	50.0000	50	50	\$3,681.23	\$3,681.23
Repair fully glazed wood door	10	2.00 Ea.	\$557.98	\$651.36	5.0000	5	5	\$3,256.82	\$3,256.82
Refinish 3'-0" x 7'-0" fully glazed wood door	4	2.00 Ea.	\$147.56	\$183.07	12.5000	12	12	\$2,196.82	\$2,196.82
Repair steel painted interior door	14	10.00 Ea.	\$2,789.88	\$3,256.82	3.5714	3	3	\$9,770.47	\$9,770.47
Refinish 3'-0" x 7'-0" steel painted interior door	4	10.00 Ea.	\$576.52	\$708.77	12.5000	12	12	\$8,505.27	\$8,505.27
Replace 3'-0" x 7'-0" steel painted interior door	60	10.00 Ea.	\$12,795.48	\$14,839.17	0.8333	0	0	\$0.00	\$0.00
Safety glass replacement, (3% of glass) steel painted interior door	1	6.30 S.F.	\$157.16	\$185.27	50.0000	50	50	\$9,263.61	\$9,263.61
Refinish concrete floor finished	25	103.70 C.S.F.	\$43,199.06	\$52,121.55	2.0000	2	2	\$104,243.10	\$104,243.10
Replace vinyl tile flooring	18	17.00 S.Y.	\$868.52	\$1,068.82	2.7778	2	2	\$2,137.64	\$2,137.64
Replace acoustic tile ceiling, fire-rated	20	14.00 C.S.F.	\$7,292.99	\$8,619.76	2.5000	2	2	\$17,239.52	\$17,239.52
Replace flush valve diaphragm tankless water closet	10	4.00 Ea.	\$109.06	\$135.42	5.0000	5	5	\$677.12	\$677.12
Rebuild flush valve tankless water closet	20	4.00 Ea.	\$767.52	\$925.08	2.5000	2	2	\$1,850.15	\$1,850.15
Unplug clogged line tankless water closet	5	4.00 Ea.	\$919.72	\$1,151.33	10.0000	10	10	\$11,513.27	\$11,513.27
Replace tankless water closet	35	4.00 Ea.	\$5,666.22	\$6,553.28	1.4286	1	1	\$6,553.28	\$6,553.28
Replace tankless flush valve	25	4.00 Ea.	\$1,080.97	\$1,268.87	2.0000	2	2	\$2,537.74	\$2,537.74
Replace wax ring gasket for tankless water closet	5	4.00 Ea.	\$596.66	\$746.21	10.0000	10	10	\$7,462.14	\$7,462.14
Replace flush valve diaphragm for a urinal	7	3.00 Ea.	\$81.79	\$101.57	7.1429	7	7	\$710.98	\$710.98
Rebuild flush valve for a urinal	20	3.00 Ea.	\$575.64	\$693.81	2.5000	2	2	\$1,387.61	\$1,387.61
Unplug line urinal	5	3.00 Ea.	\$457.93	\$573.24	10.0000	10	10	\$5,732.45	\$5,732.45
Replace wall-hung urinal	35	3.00 Ea.	\$3,262.56	\$3,924.14	1.4286	1	1	\$3,924.14	\$3,924.14
Replace washer in spud connection lavatory, vitreous china	7	6.00 Ea.	\$103.93	\$126.84	7.1429	7	7	\$887.91	\$887.91

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 faucet lavatory, vitreous china	2	6.00 Ea.	\$81.40	\$101.50	25.0000	25	25	\$2,537.58	\$2,537.58	
Replace faucets lavatory, vitreous china	10	6.00 Ea.	\$1,172.83	\$1,410.73	5.0000	5	5	\$7,053.64	\$7,053.64	
Clean out strainer and P trap lavatory, vitreous china	2	6.00 Ea.	\$220.91	\$276.54	25.0000	25	25	\$6,913.60	\$6,913.60	
Replace lavatory, vitreous china	35	6.00 Ea.	\$4,312.34	\$5,180.44	1.4286	1	1	\$5,180.44	\$5,180.44	
Replace faucet washer sink, iron enamel	2	1.00 Ea.	\$13.45	\$16.77	25.0000	25	25	\$419.23	\$419.23	
Clean trap sink, iron enamel	3	1.00 Ea.	\$9.01	\$11.27	16.6667	16	16	\$180.39	\$180.39	
Replace faucets sink, iron enamel	10	1.00 Ea.	\$195.47	\$235.12	5.0000	5	5	\$1,175.61	\$1,175.61	
Unstop sink, iron enamel	2	1.00 Ea.	\$44.01	\$55.09	25.0000	25	25	\$1,377.35	\$1,377.35	
Replace sink, P.E.C.I. sink, iron enamel kitchen	35	1.00 Ea.	\$1,208.43	\$1,409.28	1.4286	1	1	\$1,409.28	\$1,409.28	
Inspect / clean shower head fiberglass	3	2.00 Ea.	\$103.07	\$129.03	16.6667	16	16	\$2,064.43	\$2,064.43	
Replace mixing valve barrel shower, fiberglass	2	2.00 Ea.	\$596.45	\$701.66	25.0000	25	25	\$17,541.60	\$17,541.60	
Replace mixing valve shower, fiberglass	10	2.00 Ea.	\$586.79	\$713.86	5.0000	5	5	\$3,569.30	\$3,569.30	
Replace shower and fittings, fiberglass	20	2.00 Ea.	\$2,198.16	\$2,620.61	2.5000	2	2	\$5,241.23	\$5,241.23	
Check / minor repairs drinking fountain	1	1.00 Ea.	\$51.52	\$64.50	50.0000	50	50	\$3,225.00	\$3,225.00	
Repair internal leaks drinking fountain	4	1.00 Ea.	\$47.77	\$59.80	12.5000	12	12	\$717.56	\$717.56	
Replace refrigerant drinking fountain	2	1.00 Ea.	\$35.41	\$41.43	25.0000	25	25	\$1,035.74	\$1,035.74	
Repair drain leak drinking fountain	4	1.00 Ea.	\$29.10	\$35.19	12.5000	12	10	\$422.27	\$351.89	
Replace fountain drinking fountain	10	1.00 Ea.	\$1,620.81	\$1,904.30	5.0000	5	5	\$9,521.51	\$9,521.51	
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	
Resolder joint pipe & fittings, copper	10	2.00 Ea.	\$100.27	\$123.69	5.0000	5	5	\$618.45	\$618.45	
Replace pipe and fittings, copper 3/4"	20	16.00 L.F.	\$399.95	\$484.74	2.5000	2	2	\$969.47	\$969.47	
Replace pipe and fittings, copper 2"	25	16.00 L.F.	\$838.84	\$1,008.95	2.0000	2	2	\$2,017.90	\$2,017.90	
Remove old insulation & replace with new, pipe 3/4", wall 1"	15	16.00 L.F.	\$157.93	\$193.51	3.3333	3	3	\$580.53	\$580.53	
Remove old insulation & replace with new, pipe 1-1/2", wall 1"	15	16.00 L.F.	\$180.41	\$220.05	3.3333	3	3	\$660.14	\$660.14	
			\$843,997.63	\$1,001,386.20				MR Subtotal	\$2,595,793.55	
									MR Per Year	\$51,782.17
									PM Total	\$31,274.18
									Subtotal	\$83,056.35
									Total Per Unit	\$4.87

FAC 2143 VEHICLE MAINTENANCE SHOP, NATIONAL GUARD

SUC \$4.87

Release 2023 Qtr 4

UM SF

Zip Code Prefix 222

Design Life 50

Type PM

Average Size 17068.454232

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Extinguishing system, wet pipe, annualized	1.00	11.34	\$49.59	\$710.68	\$0.00	\$760.27	\$978.43	\$1,199.07
Fire pump, electric motor driven, annualized	1.00	47.75	\$37.44	\$2,986.60	\$0.00	\$3,024.04	\$3,923.77	\$4,825.37
Extinguishing system, foam pump electric, annualized	1.00	17.72	\$328.90	\$959.20	\$0.00	\$1,288.10	\$1,608.75	\$1,945.85
Panelboard, 225 A and above, annualized	2.00	0.88	\$44.00	\$60.83	\$0.00	\$104.83	\$127.48	\$152.33
Motor control center, over 400 A, annualized	4.00	1.56	\$88.00	\$107.22	\$0.00	\$195.23	\$236.20	\$281.56
Hydraulic lift, annualized	5.00	7.73	\$3,155.75	\$279.77	\$0.00	\$3,435.52	\$3,835.03	\$4,392.33
Crane, electric bridge, over 15 tons, annualized	2.00	16.53	\$776.80	\$612.56	\$0.00	\$1,389.36	\$1,650.81	\$1,951.10
Hoist, pneumatic, annualized	5.00	6.55	\$937.01	\$242.96	\$0.00	\$1,179.98	\$1,346.57	\$1,560.01
Door, emergency egress, swinging, annualized	6.00	1.56	\$100.58	\$68.90	\$0.00	\$169.48	\$200.21	\$235.97
Door, overhead, electric, roll up, to 24' high x 25' wide, annualized	10.00	40.70	\$430.77	\$1,799.67	\$0.00	\$2,230.44	\$2,813.42	\$3,417.93
Urinals, annualized	3.00	0.68	\$19.89	\$36.49	\$0.00	\$56.38	\$69.32	\$83.25
Toilet (vacuum breaker type), annualized	4.00	0.71	\$35.42	\$37.84	\$0.00	\$73.26	\$88.16	\$104.83
Lavatories, annualized	6.00	2.09	\$46.75	\$130.80	\$0.00	\$177.55	\$221.47	\$267.72
Showers, annualized	2.00	0.46	\$27.02	\$28.69	\$0.00	\$55.71	\$67.02	\$79.68
Drink fountain, annualized	1.00	0.62	\$37.44	\$33.14	\$0.00	\$70.58	\$84.27	\$99.82
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
Condensing unit, air cooled, 26 to 100 tons, annualized	8.00	23.69	\$1,416.80	\$1,499.84	\$0.00	\$2,916.64	\$3,508.27	\$4,170.74
Fan coil unit, annualized	4.00	13.35	\$327.89	\$715.04	\$0.00	\$1,042.93	\$1,290.23	\$1,553.92
Fan, axial, up to 5,000 CFM, annualized	4.00	4.98	\$33.19	\$266.83	\$0.00	\$300.03	\$383.39	\$468.42
Unit heater, gas infrared, annualized	10.00	15.05	\$632.50	\$802.24	\$0.00	\$1,434.74	\$1,738.66	\$2,074.21
Air compressor, centrifugal, to 40 H.P., annualized	1.00	3.41	\$59.71	\$216.26	\$0.00	\$275.96	\$346.81	\$420.64
						\$21,466.16	\$26,150.76	\$31,274.18

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Modeled Component List CostWorks Release 2023 Qtr 4

D20 Plumbing

Water Heater, Gas / Oil, 70 Gallon	1.0 Ea.
Drain: Roof, Scupper, Area	2.0 Ea.
Compressed Air Systems, Compressors, 10 H.P.	1.0 Ea.
Compressed Air Systems, Compressors, 25 H.P.	1.0 Ea.
Tankless Water Closet	4.0 Ea.
Urinal	3.0 Ea.
Lavatory, Vitreous China	6.0 Ea.
Sink, Iron Enamel	1.0 Ea.
Shower, Fiberglass	2.0 Ea.
Drinking Fountain	1.0 Ea.
Emergency Eye Wash	2.0 Ea.

D30 HVAC

Boiler, Gas, 2000 MBH	1.0 Ea.
Metal Flue / Chimney, 6" diameter	1.0 L.F.
Air Cooled Condenser, 50 ton	1.0 Ea.
Fan Coil, DX Air Conditioner W/ Heat, 20 ton	6.0 Ea.
Exhaust Fan, roof mounted exhaust fan, 8500 CFM exhaust	1.0 Ea.
Standard Suspended Heater	6.0 Ea.

D40 Fire Protection

Backflow Preventer	1.0 Ea.
Sprinkler System, Fire Suppression, sprinkler head	124.0 Ea.
Sprinkler System, Fire Suppression, 3" backflow preventer	1.0 Ea.
Fire Pump Electric Motor	1.0 Ea.
Fire Pump, Electric, annualized	1.0 Each

D50 Electrical

Motor Starter, Up To 600 V	4.0 Ea.
Load Center, 100 A, maintenance & inspection	2.0 Ea.
Safety Switch, Heavy Duty	4.0 Ea.
Manual Pull Station	3.0 Ea.
Fire Alarm Control Panel	1.0 Ea.
Fire Alarm Bell	2.0 Ea.

B20 Exterior Enclosure

Steel Frame, Operating, 1st floor	7.0 Ea.
Steel Frame, Fixed, 2nd floor	24.0 Ea.
Steel, Painted	8.0 Ea.
Steel Double, Roll-Up	10.0 Ea.

B30 Roofing

Built-Up Roofing	175.0 Sq.
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C10 Interior Construction

Steel Painted Interior Doors	10.0 Ea.
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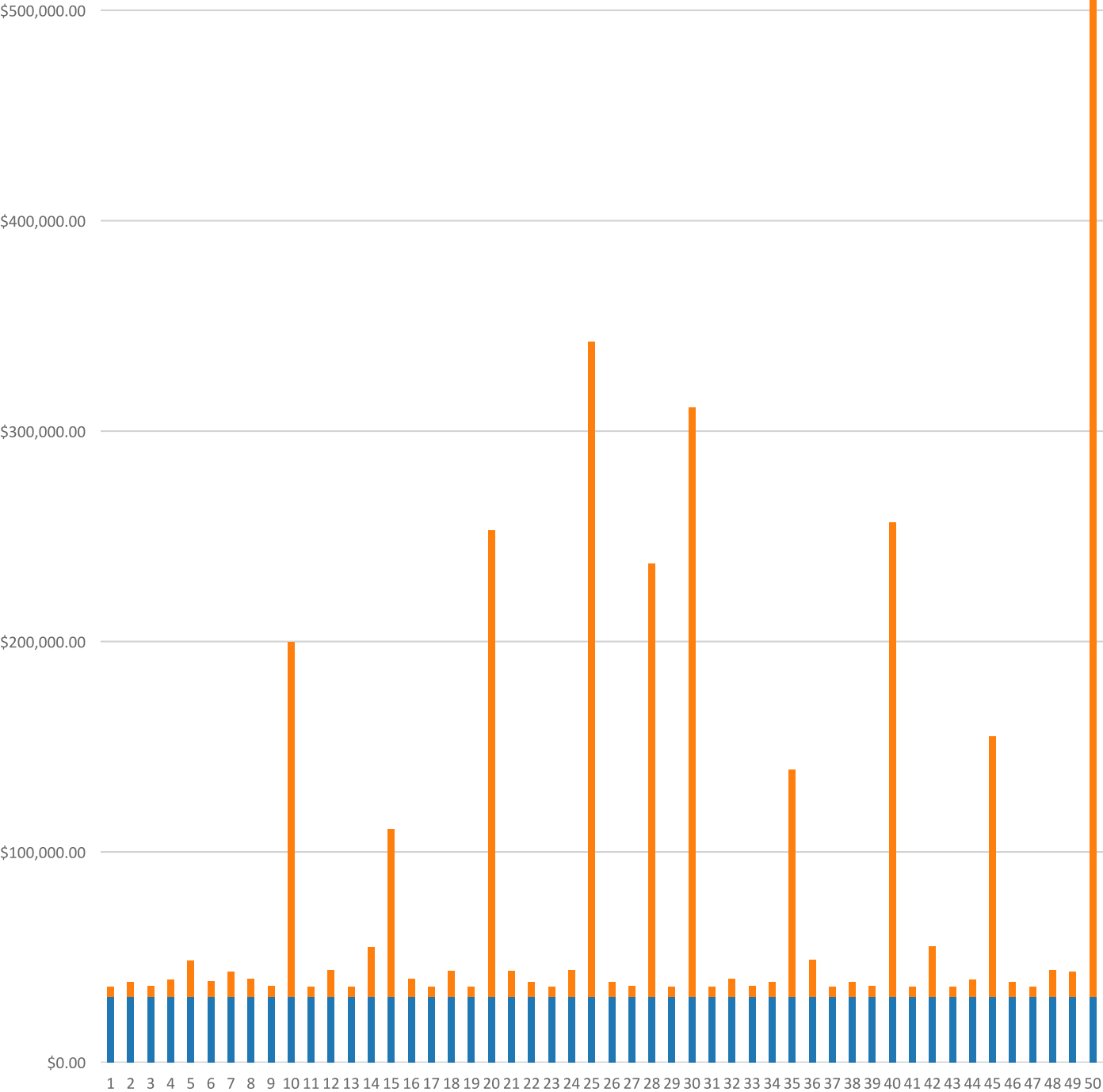
C30 Interior Finishes

Concrete, Finished	103.7 C.S.F.
Vinyl	17.0 S.Y.
Acoustic Tile, fire-rated	14.0 C.S.F.

E10 Equipment

Hydraulic Lift, annualized	5.0 Each
Crane, Electric, over 15 ton, annualized	2.0 Each
Hoist, pneumatic, annualized	5.0 Each

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Sustainment by Year
CostWorks Release 2023 Qtr 4



PM Cost
MR Cost