

FAC 3141 TANK AND AUTOMOTIVE RDT&E FACILITY

FY22 SUC:	\$5.70 / SF
Source:	Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 3141 TANK AND AUTOMOTIVE RDT&E FACILITY

SUC \$5.70

Release 2021 Qtr 3
Zip Code Prefix 222
Type MR

UM SF
Design Life 55
Average Size 19813.0

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	317.00 S.F.	\$12,486.13	\$15,144.28	3.6667	3	3	\$45,432.83	\$45,432.83
Repair 8" concrete block wall, 1st floor	25	56.00 S.F.	\$1,356.03	\$1,658.90	2.2000	2	2	\$3,317.80	\$3,317.80
Waterproof concrete block wall, 1st floor	10	103.00 C.S.F.	\$23,381.26	\$27,810.86	5.5000	5	5	\$139,054.31	\$139,054.31
Point and refinish painted concrete block wall, 1st floor	25	103.00 C.S.F.	\$48,387.03	\$59,719.93	2.2000	2	2	\$119,439.87	\$119,439.87
Replace steel siding - 1st floor	35	1.69 C.S.F.	\$941.53	\$1,135.89	1.5714	1	1	\$1,135.89	\$1,135.89
Refinish steel siding - 1st floor	20	84.50 C.S.F.	\$15,297.67	\$18,880.15	2.7500	2	2	\$37,760.31	\$37,760.31
Refinish steel louver, 2nd floor	5	4.00 Ea.	\$550.04	\$682.94	11.0000	11	11	\$7,512.37	\$7,512.37
Replace glass - 1st floor (1% of glass) - steel frame window	1	22.92 S.F.	\$276.36	\$324.81	55.0000	55	55	\$17,864.73	\$17,864.73
Replace glass - 1st floor (1% of glass) - alum. window fixed	1	5.04 S.F.	\$60.77	\$71.42	55.0000	55	55	\$3,928.37	\$3,928.37
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	64.00 Ea.	\$9,263.15	\$11,046.97	2.7500	2	2	\$22,093.95	\$22,093.95
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	64.00 Ea.	\$31,240.43	\$37,025.55	1.1000	1	1	\$37,025.55	\$37,025.55
Replace 3'-0" x 7'-0" aluminum storefront doors	50	2.00 Ea.	\$4,091.53	\$4,838.20	1.1000	1	1	\$4,838.20	\$4,838.20
Repair steel, painted, door	14	6.00 Ea.	\$3,750.45	\$4,464.03	3.9286	3	3	\$13,392.10	\$13,392.10
Replace 3'-0" x 7'-0" steel, painted, door	45	6.00 Ea.	\$4,230.38	\$4,918.39	1.2222	1	1	\$4,918.39	\$4,918.39
Replace 12' x 24' steel double roll-up door	35	4.00 Ea.	\$21,628.66	\$25,670.94	1.5714	1	1	\$25,670.94	\$25,670.94
Remove and replace electric bi-folding hangar door motor	15	4.00 Ea.	\$2,508.75	\$2,926.29	3.6667	3	3	\$8,778.86	\$8,778.86
Remove and replace electric bi-folding hangar door cables	15	4.00 Ea.	\$2,342.35	\$2,849.32	3.6667	3	3	\$8,547.95	\$8,547.95
Replace brass door lockset exterior	30	6.00 Ea.	\$2,845.20	\$3,290.90	1.8333	1	1	\$3,290.90	\$3,290.90
Total EPDM roof replacement	25	198.00 Sq.	\$119,682.10	\$141,964.86	2.2000	2	2	\$283,929.72	\$283,929.72
Replace galvanized smoke hatch single unit 4' x 4'	40	4.00 Ea.	\$8,779.15	\$10,069.70	1.3750	1	1	\$10,069.70	\$10,069.70
Repair 8" concrete block wall - (2% of walls) painted	25	32.00 C.S.F.	\$34,868.94	\$41,867.37	2.2000	2	2	\$83,734.75	\$83,734.75
Refinish concrete block wall painted	4	16.00 C.S.F.	\$1,614.70	\$1,966.21	13.7500	13	13	\$25,560.74	\$25,560.74
Repair steel painted interior door	14	8.00 Ea.	\$2,347.62	\$2,732.51	3.9286	3	3	\$8,197.54	\$8,197.54
Replace 3'-0" x 7'-0" steel painted interior door	60	8.00 Ea.	\$9,744.28	\$11,296.67	0.9167	0	0	\$0.00	\$0.00
Repair solid core wood door, interior	11	12.00 Ea.	\$3,521.43	\$4,098.77	5.0000	5	5	\$20,493.84	\$20,493.84
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	12.00 Ea.	\$520.38	\$639.00	13.7500	13	12	\$8,306.95	\$7,667.95
Replace 3'-0" x 7'-0" solid core wood door, interior	40	12.00 Ea.	\$5,873.13	\$6,789.72	1.3750	1	1	\$6,789.72	\$6,789.72
Refinish drywall	4	9,600.00 S.F.	\$5,961.42	\$7,333.54	13.7500	13	13	\$95,335.99	\$95,335.99
Office painting, 10' x 12', 10' high walls	5	10.00 Ea.	\$2,209.86	\$2,710.63	11.0000	11	11	\$29,816.95	\$29,816.95
Refinish concrete floor finished	25	158.00 C.S.F.	\$66,648.71	\$80,055.48	2.2000	2	2	\$160,110.96	\$160,110.96

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Replace vinyl sheet flooring	18	220.00 S.Y.	\$20,089.50	\$24,050.54	3.0556	3	3	\$72,151.62	\$72,151.62
Replace rubber tile floor	18	27.00 S.Y.	\$5,238.68	\$6,182.09	3.0556	3	3	\$18,546.28	\$18,546.28
Replace flush valve diaphragm tankless water closet	10	10.00 Ea.	\$262.20	\$325.36	5.5000	5	5	\$1,626.79	\$1,626.79
Rebuild flush valve tankless water closet	20	10.00 Ea.	\$1,804.34	\$2,174.57	2.7500	2	2	\$4,349.14	\$4,349.14
Unplug clogged line tankless water closet	5	10.00 Ea.	\$2,183.95	\$2,731.27	11.0000	11	11	\$30,043.95	\$30,043.95
Replace flush valve diaphragm for a urinal	7	6.00 Ea.	\$157.32	\$195.22	7.8571	7	7	\$1,366.51	\$1,366.51
Rebuild flush valve for a urinal	20	6.00 Ea.	\$1,082.60	\$1,304.74	2.7500	2	2	\$2,609.49	\$2,609.49
Unplug line urinal	5	6.00 Ea.	\$870.43	\$1,088.57	11.0000	11	11	\$11,974.24	\$11,974.24
Replace washer in spud connection lavatory, vitreous china	7	12.00 Ea.	\$197.55	\$240.96	7.8571	7	7	\$1,686.72	\$1,686.72
Replace washer in faucet lavatory, vitreous china	2	12.00 Ea.	\$154.62	\$192.62	27.5000	27	27	\$5,200.79	\$5,200.79
Replace faucets lavatory, vitreous china	10	12.00 Ea.	\$2,180.71	\$2,625.06	5.5000	5	5	\$13,125.32	\$13,125.32
Clean out strainer and P trap lavatory, vitreous china	2	12.00 Ea.	\$418.43	\$523.29	27.5000	27	27	\$14,128.96	\$14,128.96
Replace faucet washer sink, iron enamel	2	2.00 Ea.	\$25.55	\$31.83	27.5000	27	27	\$859.46	\$859.46
Clean trap sink, iron enamel	3	2.00 Ea.	\$17.14	\$21.44	18.3333	18	18	\$385.87	\$385.87
Replace faucets sink, iron enamel	10	2.00 Ea.	\$363.45	\$437.51	5.5000	5	5	\$2,187.55	\$2,187.55
Unstop sink, iron enamel	2	2.00 Ea.	\$83.64	\$104.60	27.5000	27	27	\$2,824.33	\$2,824.33
Replace sink, P.E.C.I. sink, iron enamel kitchen	10	2.00 Ea.	\$1,273.40	\$1,515.02	5.5000	5	5	\$7,575.10	\$7,575.10
Check / minor repairs drinking fountain	1	4.00 Ea.	\$195.53	\$244.53	55.0000	55	55	\$13,449.17	\$13,449.17
Repair internal leaks drinking fountain	4	4.00 Ea.	\$180.32	\$225.51	13.7500	13	13	\$2,931.65	\$2,931.65
Replace refrigerant drinking fountain	2	4.00 Ea.	\$130.73	\$153.08	27.5000	27	27	\$4,133.08	\$4,133.08
Repair drain leak drinking fountain	4	4.00 Ea.	\$135.66	\$162.14	13.7500	13	11	\$2,107.80	\$1,783.52
Replace fountain drinking fountain	10	4.00 Ea.	\$5,124.62	\$6,058.24	5.5000	5	5	\$30,291.18	\$30,291.18
Inspect and clean shower head emergency shower station	3	4.00 Ea.	\$197.57	\$247.08	18.3333	18	18	\$4,447.52	\$4,447.52
Replace shower emergency shower station	25	4.00 Ea.	\$3,767.86	\$4,516.46	2.2000	2	2	\$9,032.92	\$9,032.92
Inspect and clean spray heads, emergency eye wash	3	4.00 Ea.	\$197.57	\$247.08	18.3333	18	18	\$4,447.52	\$4,447.52
Replace eye wash station, emergency eye wash	25	4.00 Ea.	\$4,457.36	\$5,299.99	2.2000	2	2	\$10,599.97	\$10,599.97
Overhaul water heater, gas / oil, 70 gallon	5	2.00 Ea.	\$327.40	\$409.45	11.0000	11	11	\$4,503.98	\$4,503.98
Clean & service water heater, gas / oil, 70 gallon	1	2.00 Ea.	\$393.23	\$491.78	55.0000	55	55	\$27,047.77	\$27,047.77
Replace water heater, gas / oil, 70 gallon	12	2.00 Ea.	\$6,630.33	\$7,694.81	4.5833	4	4	\$30,779.24	\$30,779.24
Inspect / check pump / motor operation, lubricate circulation pump, 1/12 HP	0.5	2.00 Ea.	\$16.06	\$20.08	110.0000	110	110	\$2,208.65	\$2,208.65
Replace pump / motor assembly circulation pump, 1/12 HP	10	2.00 Ea.	\$2,201.15	\$2,579.99	5.5000	5	5	\$12,899.95	\$12,899.95

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Unclog floor drain, PVC	20	6.00 Ea.	\$286.78	\$358.64	2.7500	2	2	\$717.29	\$717.29
General maintenance & repair drain: roof, scupper, area	1	8.00 Ea.	\$295.90	\$370.06	55.0000	55	55	\$20,353.08	\$20,353.08
Repair boiler, gas/oil, 2000 MBH	7	2.00 Ea.	\$12,690.38	\$14,796.64	7.8571	7	7	\$103,576.45	\$103,576.45
Replace boiler, gas/oil, 2000 MBH	30	2.00 Ea.	\$117,244.60	\$136,030.97	1.8333	1	1	\$136,030.97	\$136,030.97
Repair feed water supply pump	15	1.00 Ea.	\$3,564.85	\$4,131.07	3.6667	3	3	\$12,393.21	\$12,393.21
Replace fan coil, DX 10 ton, with heat	10	6.00 Ea.	\$30,844.05	\$36,252.60	5.5000	5	5	\$181,262.98	\$181,262.98
Repair fan, induced draft, 6700 CFM	10	1.00 Ea.	\$302.74	\$369.53	5.5000	5	5	\$1,847.65	\$1,847.65
Replace fan, induced draft, 6700 CFM	20	1.00 Ea.	\$5,217.88	\$6,028.08	2.7500	2	2	\$12,056.15	\$12,056.15
Replace roof mounted exhaust fan, 800 CFM exhaust fan	20	4.00 Ea.	\$6,936.12	\$8,112.45	2.7500	2	2	\$16,224.91	\$16,224.91
Replace flanged steel pipe and fittings, 2"	75	146.00 L.F.	\$8,406.10	\$10,184.72	0.7333	0	0	\$0.00	\$0.00
Replace gate valve, partial, 3/8" - 1-1/2" valves	20	14.00 Ea.	\$5,550.98	\$6,467.18	2.7500	2	2	\$12,934.36	\$12,934.36
Refill expansion tank	5	2.00 Ea.	\$29.66	\$37.09	11.0000	11	11	\$407.96	\$407.96
Maintenance and repair explosionproof industrial heater	2	4.00 Ea.	\$810.77	\$947.38	27.5000	27	27	\$25,579.14	\$25,579.14
Repair computer room air conditioner, air cooled, 5 ton	10	1.00 Ea.	\$4,277.08	\$5,096.24	5.5000	5	5	\$25,481.19	\$25,481.19
Replace computer room air conditioner, air cooled, 5 ton	20	1.00 Ea.	\$38,211.35	\$43,798.01	2.7500	2	2	\$87,596.02	\$87,596.02
Repair single zone rooftop unit, 25 ton	10	3.00 Ea.	\$142,192.25	\$163,870.65	5.5000	5	4	\$819,353.25	\$655,482.60
Replace single zone rooftop unit, 25 ton	15	3.00 Ea.	\$154,029.51	\$178,756.56	3.6667	3	3	\$536,269.68	\$536,269.68
Inspect sprinkler system	1	1.00 Ea.	\$34.33	\$42.93	55.0000	55	55	\$2,361.08	\$2,361.08
Replace sprinkler head	20	68.00 Ea.	\$5,815.55	\$7,152.89	2.7500	2	2	\$14,305.77	\$14,305.77
Rebuild double check 3" backflow preventer sprinkler system	1	1.00 Ea.	\$710.41	\$851.09	55.0000	55	55	\$46,810.15	\$46,810.15
Replace fire pump / electric motor assembly 100 H.P.	25	1.00 Ea.	\$44,139.08	\$50,910.34	2.2000	2	2	\$101,820.68	\$101,820.68
Repair 500 kva transformer, primary, liquid filled	10	1.00 Ea.	\$2,815.73	\$3,237.05	5.5000	5	5	\$16,185.26	\$16,185.26
Repair switchgear 1200 A mainframe	5	1.00 Ea.	\$1,904.54	\$2,227.57	11.0000	11	9	\$24,503.32	\$20,048.17
Maintenance and inspection switchgear, mainframe	1	1.00 Ea.	\$64.78	\$81.16	55.0000	55	55	\$4,463.59	\$4,463.59
Replace switchgear 1200 A mainframe	20	1.00 Ea.	\$4,350.12	\$5,225.48	2.7500	2	2	\$10,450.95	\$10,450.95
Maintenance and repair inverter	1	1.00 Ea.	\$809.05	\$966.72	55.0000	55	55	\$53,169.65	\$53,169.65
Maintenance and repair rectifier, up to 600 V	2	1.00 Ea.	\$686.80	\$818.18	27.5000	27	27	\$22,090.87	\$22,090.87
Maintenance and inspection rectifier, up to 600 V	0.33	1.00 Ea.	\$129.55	\$162.31	166.6667	166	166	\$26,943.82	\$26,943.82
Maintenance and repair motor starter, up to 600 V	5	12.00 Ea.	\$3,355.67	\$4,051.18	11.0000	11	11	\$44,562.94	\$44,562.94
Maintenance and inspection motor starter, up to 600 V	0.5	12.00 Ea.	\$647.77	\$811.56	110.0000	110	110	\$89,271.71	\$89,271.71
Maintenance and repair secondary transformer, dry	10	4.00 Ea.	\$929.76	\$1,113.07	5.5000	5	5	\$5,565.33	\$5,565.33
Maintenance and inspection secondary transformer, dry	0.5	4.00 Ea.	\$322.61	\$404.19	110.0000	110	110	\$44,460.81	\$44,460.81

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 lighting panel, indoor	3	8.00 Ea.	\$325.15	\$407.37	18.3333	18	18	\$7,332.69	\$7,332.69
Replace load center, 100 A	20	8.00 Ea.	\$8,753.31	\$10,695.01	2.7500	2	2	\$21,390.02	\$21,390.02
Replace armored cable	60	0.68 M.L.F.	\$3,713.70	\$4,607.31	0.9167	0	0	\$0.00	\$0.00
Maintenance and repair breaker, molded case, 480 V, 3 pole	20	14.00 Ea.	\$1,004.68	\$1,258.72	2.7500	2	2	\$2,517.43	\$2,517.43
Maintenance and inspection circuit breaker, molded case, 600 V, 2 pole	0.33	8.00 Ea.	\$259.11	\$324.62	166.6667	166	166	\$53,887.65	\$53,887.65
Maintenance and repair breaker, enclosed, 240 V, 2 pole	25	28.00 Ea.	\$2,009.36	\$2,517.43	2.2000	2	2	\$5,034.86	\$5,034.86
Maintenance and repair safety switch general, 2 pole	8	6.00 Ea.	\$243.87	\$305.53	6.8750	6	6	\$1,833.17	\$1,833.17
Maintenance and inspection safety switch, 2 pole	1	3.00 Ea.	\$121.93	\$152.76	55.0000	55	55	\$8,402.04	\$8,402.04
Replace safety switch, 240 V, 2 pole	25	3.00 Ea.	\$1,174.81	\$1,432.08	2.2000	2	2	\$2,864.16	\$2,864.16
Repair 4-pin receptacle cover	10	128.00 Ea.	\$7,494.58	\$9,255.18	5.5000	5	5	\$46,275.91	\$46,275.91
Maintenance and repair wiring devices, switches	10	48.00 Ea.	\$2,027.68	\$2,531.45	5.5000	5	5	\$12,657.27	\$12,657.27
Replace fluorescent light fixture ballast, 80 W	10	24.00 Ea.	\$2,992.04	\$3,629.69	5.5000	5	5	\$18,148.47	\$18,148.47
Replace lamps (2 lamps), 4', 34 W energy saver	10	24.00 Ea.	\$605.14	\$757.89	5.5000	5	5	\$3,789.47	\$3,789.47
Replace metal halide ballast, 175 W	10	34.00 Ea.	\$5,048.47	\$6,062.23	5.5000	5	5	\$30,311.17	\$30,311.17
Replace metal halide fixture lamp, 175 W	5	34.00 Ea.	\$1,699.57	\$2,079.22	11.0000	11	11	\$22,871.47	\$22,871.47
Maintenance and repair TV cable outlet	10	16.00 Ea.	\$820.69	\$1,024.93	5.5000	5	5	\$5,124.65	\$5,124.65
Repair smoke detector	10	48.00 Ea.	\$2,706.60	\$3,346.28	5.5000	5	4	\$16,731.38	\$13,385.10
Check operation smoke detector	1	48.00 Ea.	\$777.32	\$973.87	55.0000	55	55	\$53,563.02	\$53,563.02
Replace smoke detector	15	48.00 Ea.	\$13,643.39	\$16,294.17	3.6667	3	3	\$48,882.52	\$48,882.52
Check and repair manual pull station	10	8.00 Ea.	\$701.57	\$862.64	5.5000	5	4	\$4,313.21	\$3,450.57
Replace manual pull station	15	8.00 Ea.	\$1,627.74	\$1,959.53	3.6667	3	3	\$5,878.59	\$5,878.59
Minor repairs to fire alarm control panel	5	1.00 Ea.	\$149.71	\$182.27	11.0000	11	11	\$2,005.02	\$2,005.02
Maintenance and inspection fire alarm control panel	0.5	1.00 Ea.	\$43.18	\$54.10	110.0000	110	110	\$5,951.45	\$5,951.45
Replace fire alarm control panel	15	1.00 Ea.	\$1,953.46	\$2,391.92	3.6667	3	3	\$7,175.76	\$7,175.76
Replace fire alarm bell, 6"	20	6.00 Ea.	\$1,169.77	\$1,411.65	2.7500	2	2	\$2,823.31	\$2,823.31
Maintenance and repair electrical service ground	25	1.00 M.L.F.	\$87.89	\$109.79	2.2000	2	2	\$219.57	\$219.57
Maintenance and repair of general wiring lightning protection system	1	1.00 M.L.F.	\$96.72	\$119.83	55.0000	55	55	\$6,590.46	\$6,590.46
Maintenance and repair lightning ground rod	1	6.00 Ea.	\$527.33	\$658.72	55.0000	55	53	\$36,229.76	\$34,912.32
Replace lightning ground rod	25	6.00 Ea.	\$1,356.54	\$1,681.74	2.2000	2	2	\$3,363.49	\$3,363.49
Maintenance and repair computer ground system	4	1.00 Ea.	\$21.59	\$27.05	13.7500	13	13	\$351.68	\$351.68
Maintenance and repair special ground system	4	1.00 Ea.	\$21.59	\$27.05	13.7500	13	13	\$351.68	\$351.68
Replace special ground system	50	0.45 M.L.F.	\$839.61	\$1,025.48	1.1000	1	1	\$1,025.48	\$1,025.48
Maintenance and inspection generator, diesel, 750 KW	0.08	1.00 Ea.	\$64.78	\$81.16	687.5000	687	687	\$55,754.24	\$55,754.24

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Replace diesel generator component, 750 KW	25	1.00 Ea.	\$227,966.93	\$261,102.57	2.2000	2	2	\$522,205.15	\$522,205.15	
Replace lamp emergency lighting fixture	2	12.00 Ea.	\$656.27	\$790.51	27.5000	27	27	\$21,343.71	\$21,343.71	
Replace emergency lighting fixture	20	12.00 Ea.	\$7,228.42	\$8,517.14	2.7500	2	2	\$17,034.28	\$17,034.28	
Maintenance and repair exit light	20	12.00 Ea.	\$446.42	\$552.04	2.7500	2	2	\$1,104.08	\$1,104.08	
Replace lamp exit light	5	12.00 Ea.	\$202.16	\$239.56	11.0000	11	11	\$2,635.18	\$2,635.18	
Maintenance and repair voice/data outlet	10	34.00 Ea.	\$1,743.97	\$2,177.98	5.5000	5	5	\$10,889.88	\$10,889.88	
Replace voice/data outlet	20	34.00 Ea.	\$881.01	\$1,072.78	2.7500	2	2	\$2,145.57	\$2,145.57	
Automotive equipment, compressor, electric, 5 HP, remove and replace motor	10	2.00 Ea.	\$2,215.79	\$2,539.63	5.5000	5	5	\$12,698.16	\$12,698.16	
			\$1,409,798.99	\$1,654,983.65				MR Subtotal	\$4,993,814.52	
									MR Per Year	\$90,796.63
									PM Total	\$22,081.38
									Subtotal	\$112,878.01
									Total Per Unit	\$5.70

FAC 3141 TANK AND AUTOMOTIVE RDT&E FACILITY

SUC \$5.70

Release 2021 Qtr 3

UM SF

Zip Code Prefix 222

Design Life 55

Type PM

Average Size 19813.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Hanger doors, sliding, annually	4.00	4.66	\$71.27	\$192.28	\$0.00	\$263.55	\$328.36	\$396.73
Door, emergency egress, swinging, annualized	4.00	1.04	\$58.37	\$43.00	\$0.00	\$101.37	\$120.10	\$141.76
Door, overhead, electric, roll up, to 24' high x 25' wide, annualized	4.00	16.28	\$163.84	\$675.24	\$0.00	\$839.08	\$1,058.04	\$1,285.19
Urinals, annualized	6.00	1.37	\$37.91	\$68.72	\$0.00	\$106.63	\$131.04	\$157.34
Toilet (vacuum breaker type), annualized	10.00	1.77	\$84.42	\$88.98	\$0.00	\$173.40	\$208.54	\$247.89
Lavatories, annualized	12.00	4.18	\$71.58	\$248.44	\$0.00	\$320.02	\$401.71	\$486.98
Drink fountain, annualized	3.00	1.86	\$62.18	\$93.83	\$0.00	\$156.00	\$190.37	\$227.84
Boiler, hot water, oil, gas, or comb. fired, 500 -1000 MBH, annualized	2.00	34.76	\$154.68	\$2,114.40	\$0.00	\$2,269.08	\$2,918.87	\$3,576.39
Air handling unit, computer room, annually	1.00	1.14	\$58.64	\$57.27	\$0.00	\$115.90	\$138.95	\$164.92
VAV Boxes, annually	4.00	1.87	\$19.25	\$112.77	\$0.00	\$132.02	\$167.77	\$204.49
Fire dampers, annually	4.00	4.63	\$36.60	\$278.40	\$0.00	\$314.99	\$402.17	\$491.18
Fan, axial, up to 5,000 CFM, annualized	4.00	4.98	\$46.91	\$250.20	\$0.00	\$297.11	\$376.87	\$458.96
Package unit, air cooled, 25 thru 50 ton, annualized	2.00	6.50	\$353.85	\$391.16	\$0.00	\$745.01	\$897.75	\$1,068.17
Package unit, computer room, annually	1.00	1.41	\$72.29	\$85.02	\$0.00	\$157.30	\$190.04	\$226.38
Controls, central system, electro/pneumatic, annualized	1.00	1.92	\$70.77	\$115.41	\$0.00	\$186.18	\$227.88	\$273.12
Air compressor, gas engine powered, annually	2.00	5.02	\$204.22	\$303.06	\$0.00	\$507.29	\$618.63	\$740.18
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
Extinguishing system, deluge / preaction, annualized	1.00	11.59	\$68.24	\$691.59	\$0.00	\$759.83	\$974.13	\$1,191.84
Fire pump, motor/engine driven, annually	1.00	3.24	\$74.81	\$192.94	\$0.00	\$267.75	\$333.12	\$402.22
Circuit breaker, high voltage air, annually	6.00	2.82	\$90.93	\$186.48	\$0.00	\$277.41	\$342.45	\$412.04
Transformer, dry type 500 KVA and over, annually	4.00	3.08	\$60.62	\$203.06	\$0.00	\$263.68	\$330.66	\$400.67
Panelboard, 225 A and above, annually	8.00	3.53	\$185.58	\$232.06	\$0.00	\$417.64	\$505.82	\$603.28
Emergency diesel or gas generator, up to 15 KVA, annualized	1.00	13.16	\$101.55	\$777.00	\$0.00	\$878.55	\$1,121.81	\$1,370.14
Uninterrupted power system, up to 200 KVA, annually	2.00	6.02	\$393.84	\$356.38	\$0.00	\$750.23	\$896.53	\$1,062.52
Light, emergency, hardwired system, annualized	12.00	3.00	\$92.79	\$177.16	\$0.00	\$269.95	\$332.37	\$399.44
Hydraulic lift, annually	4.00	3.08	\$1,311.02	\$105.25	\$0.00	\$1,416.27	\$1,578.95	\$1,807.18
Crane, electric bridge, over 15 tons, annualized	2.00	16.53	\$648.64	\$580.06	\$0.00	\$1,228.70	\$1,467.58	\$1,738.89
Hoist, pneumatic, annually	2.00	2.62	\$307.13	\$92.09	\$0.00	\$399.22	\$457.56	\$531.26
Switch, selector, high voltage, air, annualized	1.00	0.41	\$15.16	\$26.94	\$0.00	\$42.09	\$51.69	\$62.04
Switch, automatic transfer, annualized	1.00	5.32	\$15.16	\$352.24	\$0.00	\$367.40	\$474.58	\$582.53
Cathodic protection system, annualized	1.00	1.46	\$19.33	\$79.05	\$0.00	\$98.38	\$124.03	\$150.64
						\$14,901.88	\$18,365.80	\$22,081.38

FAC 3141 TANK AND AUTOMOTIVE RDT&E FACILITY

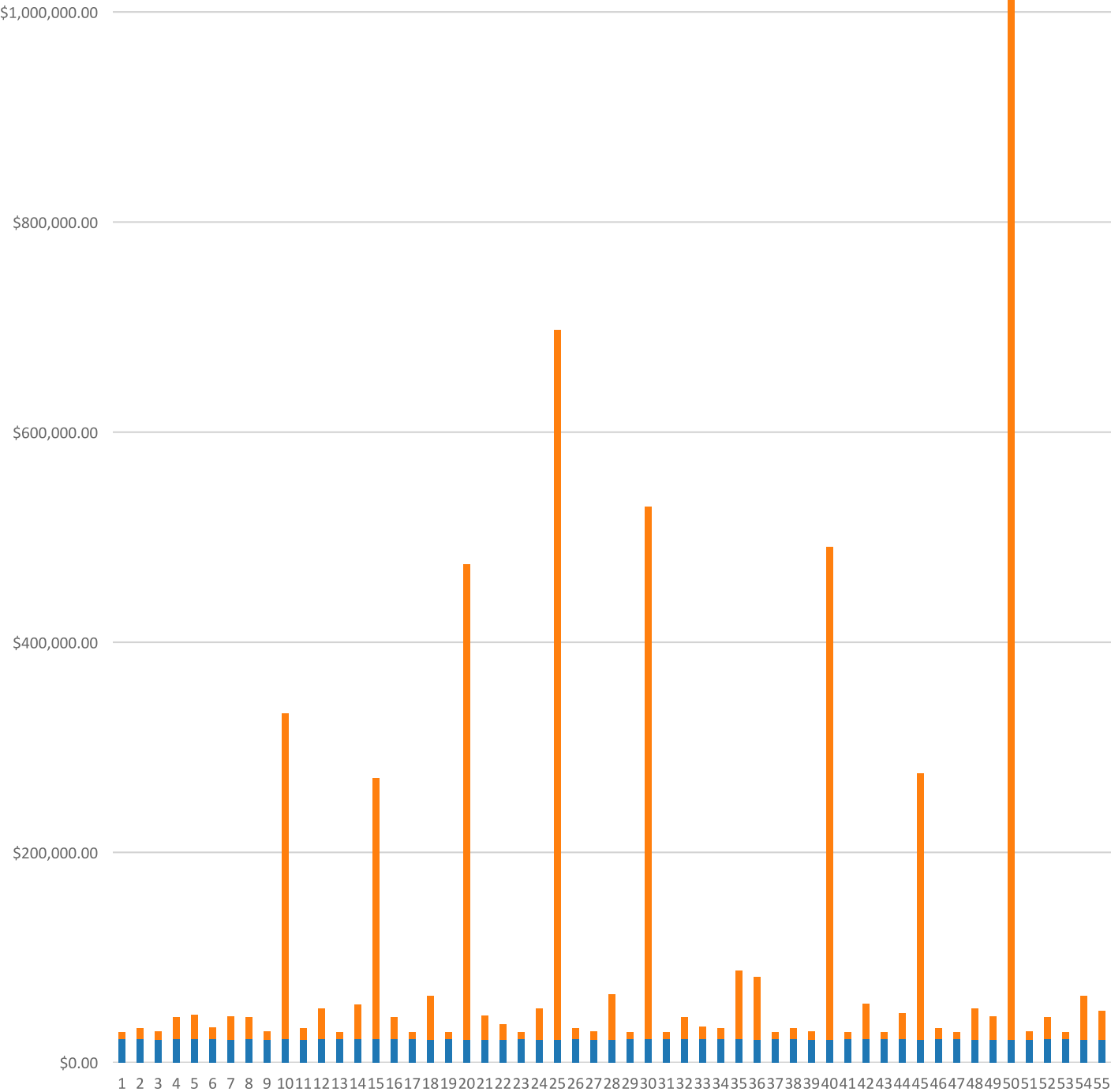
Modeled Component List CostWorks Release 2021 Qtr 3

B20 Exterior Enclosure	
Aluminum Window, Fixed, 1st floor	64.0 Ea.
Glazed Aluminum	2.0 Ea.
Steel, Painted	6.0 Ea.
Steel Double, Roll-Up	4.0 Ea.
Electric Bifolding Hangar Door Motor	4.0 Ea.
Lockset, Brass	6.0 Ea.
B30 Roofing	
EPDM Roof	198.0 Sq.
C10 Interior Construction	
Concrete Block, Painted	16.0 C.S.F.
Steel Painted Interior Doors	8.0 Ea.
Solid Core Interior Doors	12.0 Ea.
C30 Interior Finishes	
Concrete, Finished	158.0 C.S.F.
Vinyl Sheet	220.0 S.Y.
Rubber Tile	27.0 S.Y.
D20 Plumbing	
Sink, Iron Enamel	2.0 Ea.
Drinking Fountain	4.0 Ea.
Emergency Shower Station	4.0 Ea.
Emergency Eye Wash	4.0 Ea.
Water Heater, Gas / Oil, 70 Gallon	2.0 Ea.
Circulation Pump, 1/12 HP	2.0 Ea.
D30 HVAC	
Boiler, Gas/Oil, 2000 MBH	2.0 Ea.
Fan Coil, DX Air Conditioner W/ Heat, 10 ton	6.0 Ea.
Draft Fan, 6700 CFM	1.0 Ea.
Exhaust Fan, roof mounted exhaust fan, 800 CFM exhaust	4.0 Ea.
Computer Room A/C Units, Air Cooled, 5 ton	1.0 Ea.
Single Zone Air Conditioner, 25 ton	3.0 Ea.
D40 Fire Protection	
Sprinkler System, Fire Supression, sprinkler head	68.0 Ea.
Sprinkler System, Fire Supression , 3" backflow preventer	1.0 Ea.
Fire Pump Electric Motor	1.0 Ea.
D50 Electrical	
Switchgear, Mainframe	1.0 Ea.
Load Center, 100 A, maintenance & inspection	8.0 Ea.
Load Center, 100 A, replacement	8.0 Ea.
Safety Switch, General Duty, 240 V, 2 pole	3.0 Ea.
Smoke Detector	48.0 Ea.
Manual Pull Station	8.0 Ea.
Fire Alarm Control Panel	1.0 Ea.
Fire Alarm Bell	6.0 Ea.
Lightning Ground Rod	6.0 Ea.
Special Ground System	0.45 M.L.F.
Generator, Diesel, 750 KW	1.0 Ea.
Emergency Lighting Fixture	12.0 Ea.
E10 Equipment	
Electric Compressor	2.0 Ea.
Crane, Electric, over 15 ton, annualized	2.0 Each
G40 Site Electrical Utilities	

Cathodic Protection, annualized

1.0 Each

FAC 3141 TANK AND AUTOMOTIVE RDT&E FACILITY
Sustainment by Year
CostWorks Release 2021 Qtr 3



PM Cost
MR Cost