

FAC 3211 RDTE TECHNICAL SERVICE FACILITY

FY24 SUC: \$6.60 / SF
Source: Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 3211 RDTE TECHNICAL SERVICE FACILITY

SUC \$6.60

Release 2023 Qtr 4
Zip Code Prefix 222
Type MR

UM SF
Design Life 55
Average Size 17742.7525

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
Replace flush valve diaphragm for a urinal	7	4.00 Ea.	\$109.06	\$135.42	7.8571	7	7	\$947.97	\$947.97
Rebuild flush valve for a urinal	20	4.00 Ea.	\$767.52	\$925.08	2.7500	2	2	\$1,850.15	\$1,850.15
Unplug line urinal	5	4.00 Ea.	\$610.57	\$764.33	11.0000	11	11	\$8,407.59	\$8,407.59
Replace washer in spud connection lavatory, vitreous china	7	6.00 Ea.	\$103.93	\$126.84	7.8571	7	7	\$887.91	\$887.91
Replace washer in faucet lavatory, vitreous china	2	6.00 Ea.	\$81.40	\$101.50	27.5000	27	27	\$2,740.59	\$2,740.59
Replace faucets lavatory, vitreous china	10	6.00 Ea.	\$1,172.83	\$1,410.73	5.5000	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	27.5000	27	27	\$7,466.69	\$7,466.69
Replace faucet washer sink, iron enamel	2	2.00 Ea.	\$26.90	\$33.54	27.5000	27	27	\$905.55	\$905.55
Clean trap sink, iron enamel	3	2.00 Ea.	\$18.01	\$22.55	18.3333	18	18	\$405.87	\$405.87
Replace faucets sink, iron enamel	10	2.00 Ea.	\$390.94	\$470.24	5.5000	5	5	\$2,351.21	\$2,351.21
Unstop sink, iron enamel	2	2.00 Ea.	\$88.02	\$110.19	27.5000	27	27	\$2,975.07	\$2,975.07
Replace sink, P.E.C.I. sink, iron enamel kitchen	35	2.00 Ea.	\$2,416.86	\$2,818.55	1.5714	1	1	\$2,818.55	\$2,818.55
Replace faucet washer sink, laboratory	2	8.00 Ea.	\$107.59	\$134.16	27.5000	27	27	\$3,622.19	\$3,622.19
Replace faucets sink, laboratory	10	8.00 Ea.	\$1,563.78	\$1,880.97	5.5000	5	5	\$9,404.86	\$9,404.86
Replace sink and fittings, polyethylene lab.	15	8.00 Ea.	\$19,143.81	\$22,319.51	3.6667	3	3	\$66,958.53	\$66,958.53
Check / minor repairs drinking fountain	1	3.00 Ea.	\$154.57	\$193.50	55.0000	55	55	\$10,642.52	\$10,642.52
Repair internal leaks drinking fountain	4	3.00 Ea.	\$143.30	\$179.39	13.7500	13	13	\$2,332.08	\$2,332.08
Correct water pressure drinking fountain	2	3.00 Ea.	\$132.03	\$165.28	27.5000	27	27	\$4,462.60	\$4,462.60
Replace refrigerant drinking fountain	2	3.00 Ea.	\$106.22	\$124.29	27.5000	27	27	\$3,355.81	\$3,355.81
Repair drain leak drinking fountain	4	3.00 Ea.	\$87.29	\$105.57	13.7500	13	11	\$1,372.38	\$1,161.25
Replace fountain drinking fountain	10	3.00 Ea.	\$4,862.44	\$5,712.90	5.5000	5	5	\$28,564.52	\$28,564.52
Inspect and clean shower head emergency shower station	3	2.00 Ea.	\$103.07	\$129.03	18.3333	18	18	\$2,322.49	\$2,322.49
Replace shower emergency shower station	25	2.00 Ea.	\$2,106.16	\$2,518.30	2.2000	2	2	\$5,036.60	\$5,036.60
Inspect and clean spray heads, emergency eye wash	3	2.00 Ea.	\$103.07	\$129.03	18.3333	18	18	\$2,322.49	\$2,322.49
Replace eye wash station, emergency eye wash	25	2.00 Ea.	\$1,571.83	\$1,911.10	2.2000	2	2	\$3,822.20	\$3,822.20
Replace pipe and fittings, copper 3/4"	20	136.00 L.F.	\$3,399.61	\$4,120.25	2.7500	2	2	\$8,240.50	\$8,240.50
Replace threaded steel pipe and fittings, 3/4"	75	28.00 L.F.	\$690.12	\$838.54	0.7333	0	0	\$0.00	\$0.00
Overhaul water heater, gas / oil, 70 gallon	5	2.00 Ea.	\$345.73	\$432.80	11.0000	11	11	\$4,760.75	\$4,760.75

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Clean & service water heater, gas / oil, 70 gallon	1	2.00 Ea.	\$412.20	\$516.00	55.0000	55	55	\$28,380.04	\$28,380.04
Replace water heater, gas / oil, 70 gallon	12	2.00 Ea.	\$6,428.64	\$7,475.57	4.5833	4	4	\$29,902.26	\$29,902.26
Inspect / check pump / motor operation, lubricate circulation pump, 1/12 HP	0.5	2.00 Ea.	\$16.87	\$21.12	110.0000	110	110	\$2,323.62	\$2,323.62
Replace pump / motor assembly circulation pump, 1/12 HP	10	2.00 Ea.	\$2,437.82	\$2,853.79	5.5000	5	5	\$14,268.94	\$14,268.94
Unclog main drain pipe & fittings, cast iron	10	4.00 Ea.	\$195.36	\$244.56	5.5000	5	5	\$1,222.81	\$1,222.81
Unclog floor drain, PVC	20	4.00 Ea.	\$201.81	\$252.63	2.7500	2	2	\$505.25	\$505.25
Replace pipe, 4" pipe and fittings, PVC	30	26.00 L.F.	\$2,156.51	\$2,661.81	1.8333	1	1	\$2,661.81	\$2,661.81
Clean out bucket floor drain with bucket	5	1.00 Ea.	\$309.15	\$387.00	11.0000	11	11	\$4,257.01	\$4,257.01
General maintenance & repair drain: roof, scupper, area	1	4.00 Ea.	\$156.72	\$196.19	55.0000	55	55	\$10,790.33	\$10,790.33
Replace drain: roof, scupper, area	40	4.00 Ea.	\$4,521.49	\$5,215.40	1.3750	1	1	\$5,215.40	\$5,215.40
Replace 10' of buried 4" diam steel pipe/M.L.F. natural gas	12	1.00 Ea.	\$917.35	\$1,119.74	4.5833	4	4	\$4,478.96	\$4,478.96
Repair boiler, gas, 2000 MBH	7	1.00 Ea.	\$5,734.80	\$6,685.15	7.8571	7	7	\$46,796.03	\$46,796.03
Replace acoustic tile ceiling, fire-rated	20	36.50 C.S.F.	\$19,013.87	\$22,472.95	2.7500	2	2	\$44,945.90	\$44,945.90
Replace flush valve diaphragm tankless water closet	10	6.00 Ea.	\$163.58	\$203.14	5.5000	5	5	\$1,015.68	\$1,015.68
Rebuild flush valve tankless water closet	20	6.00 Ea.	\$1,151.29	\$1,387.61	2.7500	2	2	\$2,775.23	\$2,775.23
Unplug clogged line tankless water closet	5	6.00 Ea.	\$1,379.57	\$1,726.99	11.0000	11	11	\$18,996.89	\$18,996.89
Replace boiler, gas, 2000 MBH	30	1.00 Ea.	\$40,588.94	\$47,558.43	1.8333	1	1	\$47,558.43	\$47,558.43
Repair fan coil unit, 30 ton	10	4.00 Ea.	\$8,883.64	\$10,246.75	5.5000	5	4	\$51,233.76	\$40,987.01
Replace fan coil unit, 30 ton	15	4.00 Ea.	\$62,213.09	\$72,533.03	3.6667	3	3	\$217,599.09	\$217,599.09
Repair fan, induced draft, 6700 CFM	10	2.00 Ea.	\$638.38	\$779.34	5.5000	5	5	\$3,896.71	\$3,896.71
Replace fan, induced draft, 6700 CFM	20	2.00 Ea.	\$13,214.07	\$15,224.67	2.7500	2	2	\$30,449.35	\$30,449.35
Replace fan & motor, propeller exhaust, 1000 CFM exhaust fan	15	2.00 Ea.	\$1,845.21	\$2,173.28	3.6667	3	3	\$6,519.84	\$6,519.84
Repair single zone rooftop unit, 60 ton	10	2.00 Ea.	\$159,233.57	\$186,006.41	5.5000	5	4	\$930,032.03	\$744,025.62
Replace single zone rooftop unit, 60 ton	15	2.00 Ea.	\$191,883.32	\$224,395.10	3.6667	3	3	\$673,185.31	\$673,185.31
Inspect sprinkler system	1	1.00 Ea.	\$36.17	\$45.28	55.0000	55	55	\$2,490.64	\$2,490.64
Replace sprinkler head	20	60.00 Ea.	\$5,258.87	\$6,489.11	2.7500	2	2	\$12,978.23	\$12,978.23
Rebuild double check 3" backflow preventer sprinkler system	1	1.00 Ea.	\$748.17	\$896.73	55.0000	55	55	\$49,320.09	\$49,320.09
Repair 15 KV primary transformer, dry	15	1.00 Ea.	\$235.84	\$287.87	3.6667	3	3	\$863.62	\$863.62
Maintenance and inspection primary transformer, dry	0.5	1.00 Ea.	\$42.34	\$53.05	110.0000	110	110	\$5,835.62	\$5,835.62
Maintenance and repair inverter	1	1.00 Ea.	\$793.87	\$951.45	55.0000	55	55	\$52,329.69	\$52,329.69
Maintenance and inspection inverter	0.25	1.00 Ea.	\$136.51	\$171.03	220.0000	220	220	\$37,626.72	\$37,626.72
Maintenance and repair motor starter, up to 600 V	5	4.00 Ea.	\$1,051.28	\$1,277.98	11.0000	11	11	\$14,057.74	\$14,057.74

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Maintenance and inspection lighting panel, indoor	3	4.00 Ea.	\$169.38	\$212.20	18.3333	18	18	\$3,819.68	\$3,819.68
Replace load center, 100 A	20	4.00 Ea.	\$4,724.12	\$5,762.14	2.7500	2	2	\$11,524.28	\$11,524.28
Maintenance and repair breaker, molded case, 480 V, 1 pole	20	4.00 Ea.	\$303.36	\$380.07	2.7500	2	2	\$760.14	\$760.14
Maintenance and repair breaker, enclosed, 240 V, 1 pole	25	12.00 Ea.	\$910.08	\$1,140.20	2.2000	2	2	\$2,280.41	\$2,280.41
Maintenance and repair breaker, enclosed, 240 V, 2 pole	25	12.00 Ea.	\$910.08	\$1,140.20	2.2000	2	2	\$2,280.41	\$2,280.41
Maintenance and repair safety switch general, 2 pole	8	3.00 Ea.	\$127.03	\$159.15	6.8750	6	6	\$954.92	\$954.92
Maintenance and inspection safety switch, 2 pole	1	3.00 Ea.	\$127.03	\$159.15	55.0000	55	55	\$8,753.44	\$8,753.44
Replace 4-pin receptacle	20	132.00 Ea.	\$20,186.26	\$24,006.97	2.7500	2	2	\$48,013.93	\$48,013.93
Maintenance and repair contactors and relays	3	8.00 Ea.	\$2,090.76	\$2,582.60	18.3333	18	18	\$46,486.74	\$46,486.74
Replace wiring devices, switches	15	32.00 Ea.	\$2,133.80	\$2,656.22	3.6667	3	3	\$7,968.66	\$7,968.66
Replace fluorescent light fixture ballast, 80 W	10	48.00 Ea.	\$5,021.09	\$6,191.56	5.5000	5	5	\$30,957.79	\$30,957.79
Replace lamps (2 lamps), 4', 34 W energy saver	10	48.00 Ea.	\$1,271.31	\$1,592.11	5.5000	5	5	\$7,960.54	\$7,960.54
Replace metal halide ballast, 175 W	10	22.00 Ea.	\$3,671.51	\$4,394.82	5.5000	5	5	\$21,974.09	\$21,974.09
Replace metal halide fixture lamp, 175 W	5	22.00 Ea.	\$1,256.13	\$1,528.81	11.0000	11	11	\$16,816.96	\$16,816.96
Maintenance and repair TV cable outlet	10	8.00 Ea.	\$434.59	\$542.73	5.5000	5	5	\$2,713.66	\$2,713.66
Repair smoke detector	10	12.00 Ea.	\$696.12	\$861.99	5.5000	5	4	\$4,309.95	\$3,447.96
Check operation smoke detector	1	12.00 Ea.	\$204.01	\$255.60	55.0000	55	55	\$14,057.76	\$14,057.76
Replace smoke detector	15	12.00 Ea.	\$3,630.63	\$4,334.62	3.6667	3	3	\$13,003.86	\$13,003.86
Check and repair manual pull station	10	2.00 Ea.	\$179.77	\$221.49	5.5000	5	4	\$1,107.47	\$885.97
Replace manual pull station	15	2.00 Ea.	\$417.52	\$503.53	3.6667	3	3	\$1,510.58	\$1,510.58
Minor repairs to fire alarm control panel	5	1.00 Ea.	\$149.42	\$182.60	11.0000	11	11	\$2,008.55	\$2,008.55
Maintenance and inspection fire alarm control panel	0.5	1.00 Ea.	\$45.50	\$57.01	110.0000	110	110	\$6,271.12	\$6,271.12
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	7.00 Ea.	\$308.10	\$379.66	13.7500	13	12	\$4,935.64	\$4,555.97
Replace 3'-0" x 7'-0" solid core wood door, interior	40	7.00 Ea.	\$3,965.85	\$4,578.68	1.3750	1	1	\$4,578.68	\$4,578.68
Repair 5/8" drywall - (2% of walls)	20	56.00 S.F.	\$93.57	\$114.35	2.7500	2	2	\$228.70	\$228.70
Refinish drywall	4	2,800.00 S.F.	\$1,897.39	\$2,330.94	13.7500	13	13	\$30,302.22	\$30,302.22
Repair 4" x 4" thin set ceramic tile - (2% of walls)	10	95.00 C.S.F.	\$76,467.42	\$92,592.20	5.5000	5	5	\$462,960.99	\$462,960.99
Refinish concrete floor finished	25	115.50 C.S.F.	\$48,114.67	\$58,052.45	2.2000	2	2	\$116,104.90	\$116,104.90
Replace vinyl sheet flooring	18	650.00 S.Y.	\$56,298.98	\$67,815.40	3.0556	3	3	\$203,446.20	\$203,446.20
Replace fire alarm control panel	15	1.00 Ea.	\$2,196.12	\$2,675.47	3.6667	3	3	\$8,026.42	\$8,026.42
Replace fire alarm bell, 6"	20	4.00 Ea.	\$722.42	\$879.09	2.7500	2	2	\$1,758.17	\$1,758.17
Maintenance and repair building structure ground	7	1.10 M.L.F.	\$101.51	\$126.85	7.8571	7	7	\$887.98	\$887.98
Replace building structure ground	50	1.10 M.L.F.	\$5,925.29	\$7,184.21	1.1000	1	1	\$7,184.21	\$7,184.21
Maintenance and repair of general wiring lightning protection system	1	1.10 M.L.F.	\$120.45	\$148.38	55.0000	55	55	\$8,160.65	\$8,160.65

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Maintenance and repair lightning ground rod	1	4.00 Ea.	\$369.13	\$461.29	55.0000	55	53	\$25,370.74	\$24,448.17
Replace lightning ground rod	25	4.00 Ea.	\$982.42	\$1,214.69	2.2000	2	2	\$2,429.37	\$2,429.37
Maintenance and inspection generator, diesel, 750 KW	0.08	1.00 Ea.	\$68.26	\$85.52	687.5000	687	687	\$58,748.99	\$58,748.99
Replace diesel generator component, 750 KW	25	1.00 Ea.	\$241,760.49	\$276,884.97	2.2000	2	2	\$553,769.95	\$553,769.95
Replace lamp emergency lighting fixture	2	8.00 Ea.	\$435.94	\$526.84	27.5000	27	27	\$14,224.69	\$14,224.69
Replace emergency lighting fixture	20	8.00 Ea.	\$4,598.45	\$5,438.99	2.7500	2	2	\$10,877.98	\$10,877.98
Maintenance and repair exit light	20	8.00 Ea.	\$307.92	\$381.36	2.7500	2	2	\$762.73	\$762.73
Replace lamp exit light	5	8.00 Ea.	\$130.77	\$155.51	11.0000	11	11	\$1,710.60	\$1,710.60
Maintenance and inspection UPS battery	0.17	1.00 Ea.	\$68.26	\$85.52	323.5294	323	323	\$27,621.43	\$27,621.43
Replace fume hood sash	20	2.00 Ea.	\$2,519.69	\$2,892.71	2.7500	2	2	\$5,785.42	\$5,785.42
Replace commercial dishwasher, 10 to 12 racks per hour	10	1.00 Ea.	\$42,039.05	\$47,877.55	5.5000	5	5	\$239,387.75	\$239,387.75
Remove and replace 20" dia dust collector bag	5	2.00 Ea.	\$2,945.01	\$3,364.47	11.0000	11	11	\$37,009.20	\$37,009.20
Remove and replace 50 HP pump motor	25	1.00 Ea.	\$9,015.62	\$10,299.87	2.2000	2	2	\$20,599.73	\$20,599.73
Refinish concrete steps	3	40.00 S.F.	\$65.06	\$80.27	18.3333	18	18	\$1,444.88	\$1,444.88
Refinish metal hand rail	7	12.00 L.F.	\$24.56	\$30.29	7.8571	7	7	\$212.04	\$212.04
Waterproof concrete block wall, 1st floor	10	61.60 C.S.F.	\$15,922.15	\$18,887.27	5.5000	5	5	\$94,436.35	\$94,436.35
Point and refinish painted concrete block wall, 1st floor	25	61.60 C.S.F.	\$31,842.87	\$39,246.14	2.2000	2	2	\$78,492.28	\$78,492.28
Replace glass - 1st floor (1% of glass) - alum. window fixed	1	5.20 S.F.	\$68.38	\$80.29	55.0000	55	55	\$4,415.98	\$4,415.98
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	64.00 Ea.	\$10,004.05	\$11,921.37	2.7500	2	2	\$23,842.74	\$23,842.74
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	64.00 Ea.	\$43,362.58	\$50,899.39	1.1000	1	1	\$50,899.39	\$50,899.39
Repair aluminum storefront door	12	1.00 Ea.	\$510.23	\$609.68	4.5833	4	4	\$2,438.74	\$2,438.74
Replace insulating glass - (3% of glass) aluminum storefront door	1	1.20 S.F.	\$66.70	\$78.00	55.0000	55	55	\$4,290.23	\$4,290.23
Repair steel, painted, door	14	4.00 Ea.	\$2,809.34	\$3,336.77	3.9286	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	13.7500	13	13	\$2,932.60	\$2,932.60
Replace 3'-0" x 7'-0" steel, painted, door	45	4.00 Ea.	\$3,668.44	\$4,247.70	1.2222	1	1	\$4,247.70	\$4,247.70
Replace tempered glass - (3% of glass) steel painted door	1	1.89 S.F.	\$59.98	\$70.81	55.0000	55	55	\$3,894.35	\$3,894.35
Repair 12' x 12' steel roll-up door	10	2.00 Ea.	\$1,402.23	\$1,666.45	5.5000	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	1.5714	1	1	\$6,665.79	\$6,665.79
Debris removal and visual inspection of built-up roofing	0.5	15.30 M.S.F.	\$619.96	\$756.17	110.0000	110	110	\$83,178.98	\$83,178.98
Non-destructive moisture inspection of built-up roofing	5	15.30 M.S.F.	\$1,931.59	\$2,355.97	11.0000	11	11	\$25,915.64	\$25,915.64
Minor BUR membrane repairs, 2% of roof area	1	3.01 Sq.	\$1,601.35	\$1,898.71	55.0000	55	55	\$104,429.17	\$104,429.17
BUR flashing repairs, 2 S.F. per sq. repaired	1	3.01 S.F.	\$11.40	\$13.84	55.0000	55	55	\$761.46	\$761.46
Minor BUR membrane replacement, 25% of roof area	15	42.90 Sq.	\$39,256.75	\$46,489.88	3.6667	3	3	\$139,469.65	\$139,469.65

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Total BUR roof replacement	28	165.00 Sq.	\$144,408.10	\$170,499.19	1.9643	1	1	\$170,499.19	\$170,499.19	
Replace Roof edges, aluminum, duranodic, .050" thick, 6" face	25	490.00 L.F.	\$23,243.09	\$27,072.41	2.2000	2	2	\$54,144.83	\$54,144.83	
Replace aluminum gutter, enameled, 5" K type, .027 " thick	40	490.00 L.F.	\$5,057.03	\$6,109.31	1.3750	1	1	\$6,109.31	\$6,109.31	
Replace aluminum downspout, 3" x 4", .024" thick	25	96.00 L.F.	\$850.39	\$1,027.05	2.2000	2	2	\$2,054.10	\$2,054.10	
Replace galvanized smoke hatch single unit 4' x 4'	40	2.00 Ea.	\$9,876.73	\$11,273.77	1.3750	1	1	\$11,273.77	\$11,273.77	
Repair steel painted interior door	14	4.00 Ea.	\$1,115.95	\$1,302.73	3.9286	3	3	\$3,908.19	\$3,908.19	
Refinish 3'-0" x 7'-0" steel painted interior door	4	4.00 Ea.	\$230.61	\$283.51	13.7500	13	13	\$3,685.62	\$3,685.62	
Replace 3'-0" x 7'-0" steel painted interior door	60	4.00 Ea.	\$5,118.19	\$5,935.67	0.9167	0	0	\$0.00	\$0.00	
Safety glass replacement, (3% of glass) steel painted interior door	1	1.89 S.F.	\$47.15	\$55.58	55.0000	55	55	\$3,056.99	\$3,056.99	
Repair solid core wood door, interior	11	7.00 Ea.	\$1,952.92	\$2,279.78	5.0000	5	5	\$11,398.88	\$11,398.88	
			\$1,473,661.13	\$1,731,411.43				MR Subtotal	\$5,370,544.01	
									MR Per Year	\$97,524.71
									PM Total	\$19,655.39
									Subtotal	\$117,180.10
									Total Per Unit	\$6.60

FAC 3211 RDTE TECHNICAL SERVICE FACILITY

SUC \$6.60

Release 2023 Qtr 4

UM SF

Zip Code Prefix 222

Design Life 55

Type PM

Average Size 17742.7525

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
Urinals, annualized	4.00	0.91	\$26.51	\$48.66	\$0.00	\$75.17	\$92.42	\$111.00
Toilet (vacuum breaker type), annualized	6.00	1.06	\$53.13	\$56.77	\$0.00	\$109.90	\$132.24	\$157.24
Lavatories, annualized	6.00	2.09	\$46.75	\$130.80	\$0.00	\$177.55	\$221.47	\$267.72
Drink fountain, annualized	3.00	1.86	\$112.33	\$99.41	\$0.00	\$211.74	\$252.80	\$299.47
Water heater, gas, to 120 gal., annualized	2.00	3.44	\$204.42	\$183.12	\$0.00	\$387.54	\$462.92	\$548.52
Boiler, hot water, oil, gas, or comb. fired, 500 -1000 MBH, annualized	1.00	17.38	\$88.55	\$1,090.00	\$0.00	\$1,178.55	\$1,514.40	\$1,854.69
Fan coil unit, annualized	4.00	13.35	\$327.89	\$715.04	\$0.00	\$1,042.93	\$1,290.23	\$1,553.92
Air filter, electrostatic, annualized	4.00	30.41	\$44.33	\$1,621.92	\$0.00	\$1,666.25	\$2,157.25	\$2,650.48
Fire dampers, annualized	4.00	4.63	\$36.03	\$292.99	\$0.00	\$329.02	\$420.52	\$513.82
Fan, axial, up to 5,000 CFM, annualized	2.00	2.49	\$16.60	\$133.42	\$0.00	\$150.01	\$191.70	\$234.21
Hood and blower, annualized	8.00	18.54	\$404.80	\$990.59	\$0.00	\$1,395.39	\$1,733.05	\$2,090.95
Package unit, air cooled, 25 thru 50 ton, annualized	2.00	6.50	\$333.96	\$409.84	\$0.00	\$743.80	\$900.15	\$1,073.19
Controls, central system, electro/pneumatic, annualized	1.00	1.92	\$169.00	\$121.21	\$0.00	\$290.21	\$343.47	\$405.19
Air compressor, centrifugal, to 40 H.P., annualized	1.00	3.41	\$59.71	\$216.26	\$0.00	\$275.96	\$346.81	\$420.64
Backflow prevention device, up to 4", annually	4.00	1.33	\$56.06	\$83.71	\$0.00	\$139.78	\$170.50	\$204.02
Extinguishing system, wet pipe, annualized	1.00	11.34	\$49.59	\$710.68	\$0.00	\$760.27	\$978.43	\$1,199.07
Transformer, dry type 500 KVA and over, annually	1.00	0.77	\$13.83	\$53.61	\$0.00	\$67.44	\$84.91	\$103.07
Panelboard, 225 A and above, annualized	4.00	1.76	\$88.00	\$121.66	\$0.00	\$209.66	\$254.96	\$304.66
Motor control center, over 400 A, annually	4.00	1.56	\$88.00	\$107.22	\$0.00	\$195.23	\$236.20	\$281.56
Emergency diesel or gas generator, over 15 KVA, annually	1.00	2.11	\$83.06	\$133.00	\$0.00	\$216.06	\$264.27	\$316.63
Power stablizer, annually	1.00	0.62	\$9.16	\$39.69	\$0.00	\$48.85	\$61.68	\$74.96
Uninterrupted power system, up to 200 KVA, annualized	1.00	22.92	\$217.32	\$1,443.40	\$0.00	\$1,660.72	\$2,115.47	\$2,581.09
Light, emergency, hardwired system, annualized	8.00	2.00	\$71.84	\$126.19	\$0.00	\$198.03	\$243.08	\$291.71
Crane, electric bridge, up to 5 ton, annualized	2.00	5.83	\$413.65	\$215.57	\$0.00	\$629.22	\$735.26	\$861.98
Hoist, pneumatic, annualized	1.00	1.31	\$187.40	\$48.59	\$0.00	\$236.00	\$269.31	\$312.00
Vacuum, annualized	1.00	1.23	\$25.25	\$44.47	\$0.00	\$69.72	\$85.58	\$102.71
						\$13,024.08	\$16,255.23	\$19,655.39

FAC 3211 RDTE TECHNICAL SERVICE FACILITY

Modeled Component List CostWorks Release 2023 Qtr 4

D20 Plumbing

Sink, Iron Enamel	2.0 Ea.
Drinking Fountain	3.0 Ea.
Emergency Shower Station	2.0 Ea.
Emergency Eye Wash	2.0 Ea.
Water Heater, Gas / Oil, 70 Gallon	2.0 Ea.
Circulation Pump, 1/12 HP	2.0 Ea.
Drain: Roof, Scupper, Area	4.0 Ea.

C30 Interior Finishes

Acoustic Tile, fire-rated	36.5 C.S.F.
Concrete, Finished	115.5 C.S.F.
Vinyl Sheet	650.0 S.Y.

D30 HVAC

Boiler, Gas, 2000 MBH	1.0 Ea.
Fan Coil, 30 ton	4.0 Ea.
Draft Fan, 6700 CFM	2.0 Ea.
Exhaust Fan, propeller exh., 4700 CFM	2.0 Ea.
Single Zone Air Conditioner, 60 ton	2.0 Ea.

D40 Fire Protection

Sprinkler System, Fire Supression, sprinkler head	60.0 Ea.
Sprinkler System, Fire Supression , 3" backflow preventer	1.0 Ea.

D50 Electrical

Load Center, 100 A, maintenance & inspection	4.0 Ea.
Load Center, 100 A, replacement	4.0 Ea.
Smoke Detector	12.0 Ea.
Manual Pull Station	2.0 Ea.
Fire Alarm Control Panel	1.0 Ea.
Fire Alarm Bell	4.0 Ea.
Building Structure Ground	1.1 M.L.F.
Lightning Ground Rod	4.0 Ea.
Generator, Diesel, 750 KW	1.0 Ea.
Emergency Lighting Fixture	8.0 Ea.
UPS Battery, maintenance & inspection	1.0 Ea.
UPS, up to 200 KVA, annualized	1.0 Each

C10 Interior Construction

Solid Core Interior Doors	7.0 Ea.
Steel Painted Interior Doors	4.0 Ea.

E10 Equipment

Dishwasher	1.0 Ea.
Crane, Electric, up to 5 ton, annualized	2.0 Each
Hoist, pneumatic, annualized	1.0 Each

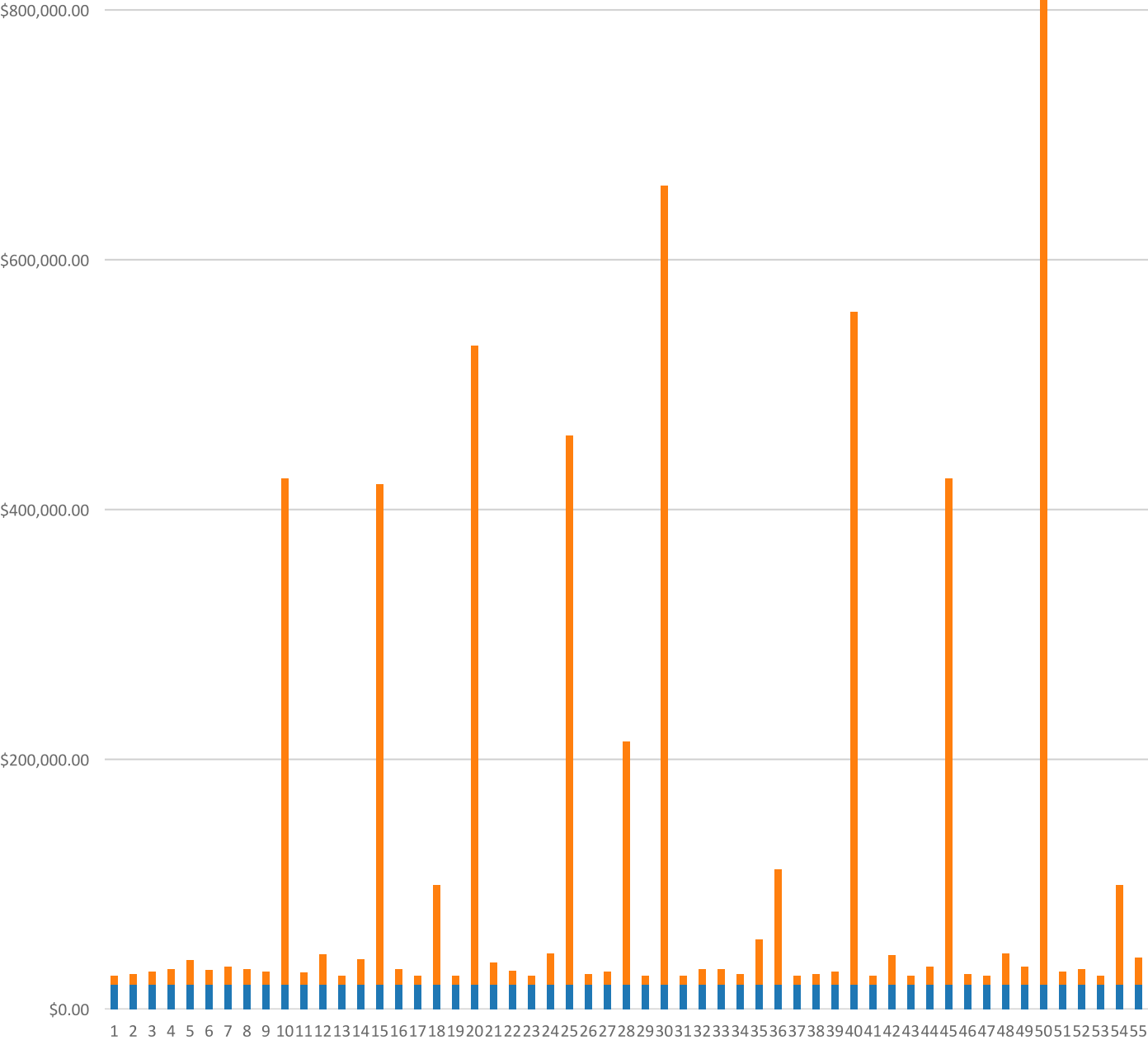
B20 Exterior Enclosure

Aluminum Window, Fixed, 1st floor	64.0 Ea.
Steel, Painted	4.0 Ea.
Steel Single, Roll-Up	2.0 Ea.

B30 Roofing

Built-Up Roofing	165.0 Sq.
Aluminum Gutter	490.0 L.F.

FAC 3211 RDTE TECHNICAL SERVICE FACILITY
Sustainment by Year
CostWorks Release 2023 Qtr 4



PM Cost
MR Cost