

FAC 7242 SERVICE ACADEMY UPH

FY22 SUC: \$4.27 / SF
Source: Calculated using R.S. Means CostWorks 2021 Qtr 3
component prices

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SUC \$4.27

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.

Release 2021 Qtr 3
Zip Code Prefix 222
Type MR

UM SF
Design Life 55
Average Size 64243.0

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Repair concrete stairs	30	980.00 S.F.	\$32,344.26	\$37,402.36	1.8333	1	1	\$37,402.36	\$37,402.36
Replace concrete stairs	75	90.00 S.F.	\$7,824.74	\$9,612.35	0.7333	0	0	\$0.00	\$0.00
Repair clay brick wall, 1st floor	25	11,720.00 S.F.	\$503,685.92	\$618,165.14	2.2000	2	2	\$1,236,330.29	\$1,236,330.29
Point clay brick wall, 1st floor	25	1,172.00 C.S.F.	\$947,109.80	\$1,168,703.41	2.2000	2	2	\$2,337,406.82	\$2,337,406.82
Point clay brick wall, 2nd floor	25	1,172.00 C.S.F.	\$993,137.95	\$1,225,732.88	2.2000	2	2	\$2,451,465.76	\$2,451,465.76
Replace glass - 1st floor. (1% of glass) - alum. window	1	3.80 S.F.	\$45.82	\$53.85	55.0000	55	55	\$2,961.87	\$2,961.87
Repair 3' x 4' aluminum window - 1st floor	20	164.00 Ea.	\$42,951.18	\$50,561.43	2.7500	2	2	\$101,122.86	\$101,122.86
Replace 3' x 4' aluminum window - 1st floor	50	164.00 Ea.	\$133,625.17	\$155,754.77	1.1000	1	1	\$155,754.77	\$155,754.77
Replace glass - 2nd floor. (1% of glass) - alum. window	1	3.80 S.F.	\$63.74	\$76.11	55.0000	55	55	\$4,185.98	\$4,185.98
Repair 3' x 4' aluminum window - 2nd floor	20	164.00 Ea.	\$50,590.75	\$60,048.32	2.7500	2	2	\$120,096.64	\$120,096.64
Replace 3' x 4' aluminum window - 2nd floor	50	164.00 Ea.	\$141,264.75	\$165,241.67	1.1000	1	1	\$165,241.67	\$165,241.67
Replace glass - 1st floor (1% of glass) - alum. window fixed	1	2.50 S.F.	\$30.14	\$35.43	55.0000	55	55	\$1,948.60	\$1,948.60
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	138.00 Ea.	\$19,973.66	\$23,820.03	2.7500	2	2	\$47,640.07	\$47,640.07
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	138.00 Ea.	\$67,362.17	\$79,836.34	1.1000	1	1	\$79,836.34	\$79,836.34
Repair aluminum storefront door	12	8.00 Ea.	\$3,707.35	\$4,436.12	4.5833	4	4	\$17,744.47	\$17,744.47
Replace 3'-0" x 7'-0" aluminum storefront doors	50	8.00 Ea.	\$16,366.12	\$19,352.80	1.1000	1	1	\$19,352.80	\$19,352.80
Replace insulating glass - (3% of glass) aluminum storefront door	1	1.40 S.F.	\$72.65	\$84.98	55.0000	55	55	\$4,673.82	\$4,673.82
Repair steel, painted, door	14	4.00 Ea.	\$2,500.30	\$2,976.02	3.9286	3	3	\$8,928.07	\$8,928.07
Refinish 3'-0" x 7'-0" steel, painted, door	4	4.00 Ea.	\$165.60	\$203.46	13.7500	13	13	\$2,645.04	\$2,645.04
Replace 3'-0" x 7'-0" steel, painted, door	45	4.00 Ea.	\$2,820.26	\$3,278.92	1.2222	1	1	\$3,278.92	\$3,278.92
Replace tempered glass - (3% of glass) steel painted door	1	1.40 S.F.	\$31.64	\$37.80	55.0000	55	55	\$2,079.07	\$2,079.07
Non - destructive moisture inspection, thermosetting	5	0.06 M.S.F.	\$7.01	\$8.55	11.0000	11	11	\$94.07	\$94.07
Flashing repairs, 2 S.F. per sq. repaired, thermoset	1	124.50 S.F.	\$302.65	\$367.94	55.0000	55	55	\$20,236.48	\$20,236.48
Total EPDM roof replacement	25	642.00 Sq.	\$388,060.14	\$460,310.30	2.2000	2	2	\$920,620.61	\$920,620.61
Minor tile replacement, 2.5% of roof area, slate tile roofing	20	120.00 S.F.	\$6,259.58	\$7,551.92	2.7500	2	2	\$15,103.83	\$15,103.83
Replace copper downspouts, 2" x 3", 16 oz.	40	160.00 L.F.	\$2,532.32	\$2,954.56	1.3750	1	1	\$2,954.56	\$2,954.56
Replace roof hatch and structure single unit	40	4.00 Ea.	\$5,066.85	\$5,854.40	1.3750	1	1	\$5,854.40	\$5,854.40
Repair solid core wood door, interior	11	64.00 Ea.	\$18,780.94	\$21,860.10	5.0000	5	5	\$109,300.49	\$109,300.49
Replace 3'-0" x 7'-0" solid core wood door, interior	40	64.00 Ea.	\$31,323.35	\$36,211.85	1.3750	1	1	\$36,211.85	\$36,211.85
Repair masonry steps, painted	20	264.00 S.F.	\$4,881.04	\$5,902.07	2.7500	2	2	\$11,804.15	\$11,804.15
Replace masonry steps, painted	50	264.00 S.F.	\$57,911.00	\$70,893.16	1.1000	1	1	\$70,893.16	\$70,893.16

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Replace metal stair railing, interior	45	96.00 L.F.	\$4,123.75	\$4,826.87	1.2222	1	1	\$4,826.87	\$4,826.87
Repair medium weight vinyl wall covering - (2% of walls)	1	0.60 C.S.F.	\$163.13	\$194.11	55.0000	55	55	\$10,675.89	\$10,675.89
Replace medium weight vinyl wall covering	15	32.00 C.S.F.	\$10,861.23	\$13,039.88	3.6667	3	3	\$39,119.65	\$39,119.65
Repair 5/8" drywall - (2% of walls)	20	373.40 S.F.	\$625.57	\$761.17	2.7500	2	2	\$1,522.34	\$1,522.34
Refinish drywall	4	18,670.00 S.F.	\$11,593.72	\$14,262.20	13.7500	13	13	\$185,408.63	\$185,408.63
Repair 4" x 4" thin set ceramic tile - (2% of walls)	10	0.90 C.S.F.	\$738.85	\$890.33	5.5000	5	5	\$4,451.67	\$4,451.67
Refinish concrete floor finished	25	1.40 C.S.F.	\$590.56	\$709.35	2.2000	2	2	\$1,418.70	\$1,418.70
Replace vinyl tile flooring	18	3,300.00 S.Y.	\$163,031.48	\$200,211.14	3.0556	3	3	\$600,633.42	\$600,633.42
Ceramic tile floor repairs - (2% of floors)	15	8.20 C.S.F.	\$5,189.04	\$6,469.85	3.6667	3	3	\$19,409.54	\$19,409.54
Replace 2" x 2" thin set ceramic tile floor	50	18.20 C.S.F.	\$22,270.30	\$26,883.10	1.1000	1	1	\$26,883.10	\$26,883.10
Replace carpet	8	1,929.00 S.Y.	\$106,126.52	\$122,562.68	6.8750	6	6	\$735,376.11	\$735,376.11
Repair gypsum board ceiling - (2% of ceilings)	20	1.10 C.S.F.	\$398.39	\$489.09	2.7500	2	2	\$978.17	\$978.17
Refinish gypsum board ceiling, up to 12' high	20	154.00 C.S.F.	\$19,880.50	\$24,575.84	2.7500	2	1	\$49,151.67	\$24,575.84
Replace gypsum board ceiling, up to 12' high	40	154.00 C.S.F.	\$57,180.14	\$70,216.97	1.3750	1	1	\$70,216.97	\$70,216.97
Unplug clogged line flush-tank water closet	5	48.00 Ea.	\$10,482.97	\$13,110.09	11.0000	11	11	\$144,210.96	\$144,210.96
Replace washer / diaphragm in ball cock flush-tank water closet	5	48.00 Ea.	\$893.21	\$1,101.50	11.0000	11	11	\$12,116.55	\$12,116.55
Replace valve and ball cock assembly flush-tank water closet	15	48.00 Ea.	\$4,493.67	\$5,547.25	3.6667	3	3	\$16,641.76	\$16,641.76
Install gasket between tank and bowl flush-tank water closet	20	48.00 Ea.	\$1,998.50	\$2,481.72	2.7500	2	2	\$4,963.44	\$4,963.44
Replace two piece water closet flush-tank	35	48.00 Ea.	\$23,391.60	\$28,088.92	1.5714	1	1	\$28,088.92	\$28,088.92
Replace one piece water closet flush-tank	35	48.00 Ea.	\$59,370.26	\$68,973.76	1.5714	1	1	\$68,973.76	\$68,973.76
Replace flush valve diaphragm for a urinal	7	28.00 Ea.	\$734.17	\$911.00	7.8571	7	7	\$6,377.03	\$6,377.03
Replace wall-hung urinal	35	28.00 Ea.	\$27,128.17	\$32,734.97	1.5714	1	1	\$32,734.97	\$32,734.97
Replace washer in spud connection lavatory, vitreous china	7	32.00 Ea.	\$526.80	\$642.56	7.8571	7	7	\$4,497.93	\$4,497.93
Replace washer in faucet lavatory, vitreous china	2	32.00 Ea.	\$412.32	\$513.66	27.5000	27	27	\$13,868.77	\$13,868.77
Replace faucets lavatory, vitreous china	10	32.00 Ea.	\$5,815.23	\$7,000.17	5.5000	5	5	\$35,000.86	\$35,000.86
Clean out strainer and P trap lavatory, vitreous china	2	32.00 Ea.	\$1,115.82	\$1,395.45	27.5000	27	27	\$37,677.24	\$37,677.24
Replace lavatory, vitreous china	35	32.00 Ea.	\$21,522.39	\$25,863.07	1.5714	1	1	\$25,863.07	\$25,863.07
Replace faucet washer sink, iron enamel	2	8.00 Ea.	\$102.21	\$127.33	27.5000	27	27	\$3,437.85	\$3,437.85
Clean trap sink, iron enamel	3	8.00 Ea.	\$68.57	\$85.75	18.3333	18	18	\$1,543.48	\$1,543.48
Replace faucets sink, iron enamel	10	8.00 Ea.	\$1,453.81	\$1,750.04	5.5000	5	5	\$8,750.22	\$8,750.22
Unstop sink, iron enamel	2	8.00 Ea.	\$334.57	\$418.42	27.5000	27	27	\$11,297.30	\$11,297.30
Replace sink, P.E.C.I. sink, iron enamel kitchen	10	8.00 Ea.	\$5,093.59	\$6,060.08	5.5000	5	5	\$30,300.41	\$30,300.41

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Inspect / clean shower head shower, terrazzo	3	62.00 Ea.	\$3,062.36	\$3,829.81	18.3333	18	18	\$68,936.53	\$68,936.53
Replace terrazzo shower surface	30	62.00 Ea.	\$80,230.74	\$96,603.43	1.8333	1	1	\$96,603.43	\$96,603.43
Replace shower and fittings, aluminum	25	62.00 Ea.	\$59,931.58	\$71,681.90	2.2000	2	2	\$143,363.80	\$143,363.80
Check / minor repairs drinking fountain	1	8.00 Ea.	\$391.06	\$489.06	55.0000	55	55	\$26,898.34	\$26,898.34
Repair internal leaks drinking fountain	4	8.00 Ea.	\$360.64	\$451.02	13.7500	13	13	\$5,863.29	\$5,863.29
Correct water pressure drinking fountain	2	8.00 Ea.	\$334.57	\$418.42	27.5000	27	27	\$11,297.30	\$11,297.30
Replace refrigerant drinking fountain	2	8.00 Ea.	\$261.47	\$306.15	27.5000	27	27	\$8,266.16	\$8,266.16
Repair drain leak drinking fountain	4	8.00 Ea.	\$271.32	\$324.28	13.7500	13	11	\$4,215.60	\$3,567.05
Replace fountain drinking fountain	10	8.00 Ea.	\$10,249.25	\$12,116.47	5.5000	5	5	\$60,582.36	\$60,582.36
Resolder joint pipe & fittings, copper	10	156.00 Ea.	\$6,956.54	\$8,623.59	5.5000	5	5	\$43,117.97	\$43,117.97
Replace pipe and fittings, copper 3/4"	20	2,360.00 L.F.	\$61,487.23	\$74,062.94	2.7500	2	2	\$148,125.88	\$148,125.88
Replace pipe and fittings, copper 2"	25	1,180.00 L.F.	\$72,551.78	\$86,311.19	2.2000	2	2	\$172,622.38	\$172,622.38
Remove old insulation & replace with new, pipe 3/4", wall 1"	15	4,500.00 L.F.	\$37,612.42	\$46,449.52	3.6667	3	3	\$139,348.56	\$139,348.56
Minor repairs, adjustments water heater, gas / oil, 1150 GPH	2	1.00 Ea.	\$98.31	\$122.94	27.5000	27	25	\$3,319.50	\$3,073.61
Replace water heater, gas / oil, 1150 GPH	20	1.00 Ea.	\$41,525.47	\$47,777.51	2.7500	2	2	\$95,555.02	\$95,555.02
Inspect / check pump / motor operation, lubricate circulation pump, 1/12 HP	0.5	1.00 Ea.	\$8.03	\$10.04	110.0000	110	110	\$1,104.33	\$1,104.33
Replace pump / motor assembly circulation pump, 1/12 HP	10	1.00 Ea.	\$1,100.58	\$1,290.00	5.5000	5	5	\$6,449.98	\$6,449.98
Insp./chk. pump/mtr. oper., lub., chk. align. circulation pump, 1/2 HP	1	1.00 Ea.	\$11.95	\$14.94	55.0000	55	55	\$821.89	\$821.89
Replace pump / motor assembly, partial circulation pump, 1/2 HP	20	1.00 Ea.	\$3,822.30	\$4,402.23	2.7500	2	2	\$8,804.46	\$8,804.46
Remove old meter, install new water meter 4"	25	1.00 Ea.	\$6,100.56	\$7,089.44	2.2000	2	2	\$14,178.89	\$14,178.89
Unclog main drain pipe & fittings, cast iron	10	1.00 Ea.	\$46.17	\$57.74	5.5000	5	5	\$288.68	\$288.68
Replace pipe & fittings, cast iron, 4"	40	900.00 L.F.	\$60,252.36	\$72,321.92	1.3750	1	1	\$72,321.92	\$72,321.92
Unclog floor drain, PVC	20	1.00 Ea.	\$47.80	\$59.77	2.7500	2	2	\$119.55	\$119.55
Unclog 4" - 12" diameter PVC main drain per L.F.	10	0.40 L.F.	\$1.52	\$1.90	5.5000	5	5	\$9.48	\$9.48
Repair joint pipe and fittings, PVC	10	1.00 Ea.	\$151.29	\$188.00	5.5000	5	5	\$940.00	\$940.00
Replace pipe, 4" pipe and fittings, PVC	30	400.00 L.F.	\$32,635.59	\$40,153.67	1.8333	1	1	\$40,153.67	\$40,153.67
General maintenance & repair drain: roof, scupper, area	1	2.00 Ea.	\$73.98	\$92.51	55.0000	55	55	\$5,088.27	\$5,088.27
Replace drain: roof, scupper, area	40	2.00 Ea.	\$1,573.86	\$1,824.72	1.3750	1	1	\$1,824.72	\$1,824.72
Repair boiler, gas/oil, 2000 MBH	7	1.00 Ea.	\$6,345.19	\$7,398.32	7.8571	7	7	\$51,788.23	\$51,788.23
Replace boiler, gas/oil, 2000 MBH	30	1.00 Ea.	\$58,622.30	\$68,015.49	1.8333	1	1	\$68,015.49	\$68,015.49

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Replace metal flue, all fuel SS, 6" diameter metal flue / chimney	15	1.00 L.F.	\$129.05	\$149.45	3.6667	3	3	\$448.36	\$448.36
Repair reciprocating chiller, air cooled, 50 ton	10	2.00 Ea.	\$115,543.32	\$135,261.51	5.5000	5	5	\$676,307.57	\$676,307.57
Replace chiller, air cooled, 50 ton	20	2.00 Ea.	\$128,541.68	\$149,625.58	2.7500	2	2	\$299,251.16	\$299,251.16
Repair fan coil unit, 5 ton	10	14.00 Ea.	\$7,437.22	\$8,849.25	5.5000	5	4	\$44,246.26	\$35,397.01
Replace fan coil unit, 5 ton	15	14.00 Ea.	\$36,720.50	\$42,587.86	3.6667	3	3	\$127,763.57	\$127,763.57
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	104.00 Ea.	\$8,894.37	\$10,939.71	2.7500	2	2	\$21,879.42	\$21,879.42
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
Repair 500 kva transformer, primary, liquid filled	10	2.00 Ea.	\$5,631.46	\$6,474.10	5.5000	5	5	\$32,370.52	\$32,370.52
Replace transformer 500 KVA, liquid filled	30	2.00 Ea.	\$54,649.86	\$63,250.36	1.8333	1	1	\$63,250.36	\$63,250.36
Repair switchgear 1200 A mainframe	5	2.00 Ea.	\$3,809.08	\$4,455.15	11.0000	11	9	\$49,006.64	\$40,096.34
Maintenance and inspection switchgear, mainframe	1	2.00 Ea.	\$129.55	\$162.31	55.0000	55	55	\$8,927.17	\$8,927.17
Replace switchgear 1200 A mainframe	20	2.00 Ea.	\$8,700.24	\$10,450.95	2.7500	2	2	\$20,901.91	\$20,901.91
Maintenance and repair motor starter, up to 600 V	5	2.00 Ea.	\$559.28	\$675.20	11.0000	11	11	\$7,427.16	\$7,427.16
Maintenance and inspection motor starter, up to 600 V	0.5	2.00 Ea.	\$107.96	\$135.26	110.0000	110	110	\$14,878.62	\$14,878.62
Replace starter motor starter, up to 600 V	18	2.00 Ea.	\$1,610.62	\$1,916.15	3.0556	3	3	\$5,748.45	\$5,748.45
Maintenance and repair safety switch general, 2 pole	8	1.00 Ea.	\$40.64	\$50.92	6.8750	6	6	\$305.53	\$305.53
Maintenance and inspection safety switch, 2 pole	1	1.00 Ea.	\$40.64	\$50.92	55.0000	55	55	\$2,800.68	\$2,800.68
Replace safety switch, 240 V, 2 pole	25	1.00 Ea.	\$391.60	\$477.36	2.2000	2	2	\$954.72	\$954.72
Replace low voltage cartridge safety switch	50	1.00 Ea.	\$57.52	\$69.10	1.1000	1	1	\$69.10	\$69.10
Replace plug fuse safety switch	25	1.00 Ea.	\$23.94	\$29.46	2.2000	2	2	\$58.93	\$58.93
Maintenance and repair receptacles and plugs	20	164.00 Ea.	\$6,927.92	\$8,649.13	2.7500	2	2	\$17,298.26	\$17,298.26
Replace receptacle/plug receptacles and plugs	20	164.00 Ea.	\$11,800.71	\$14,546.25	2.7500	2	2	\$29,092.50	\$29,092.50
Maintenance and repair wiring devices, switches	10	80.00 Ea.	\$3,379.47	\$4,219.09	5.5000	5	5	\$21,095.44	\$21,095.44
Replace wiring devices, switches	15	80.00 Ea.	\$5,230.22	\$6,497.75	3.6667	3	3	\$19,493.25	\$19,493.25
Maintenance and repair incandescent lighting fixtures	10	178.00 Ea.	\$12,258.09	\$14,593.34	5.5000	5	3	\$72,966.68	\$43,780.01
Replace incandescent lighting fixture lamp	5	178.00 Ea.	\$2,043.84	\$2,468.45	11.0000	11	11	\$27,152.92	\$27,152.92
Replace incandescent lighting fixture	20	178.00 Ea.	\$25,001.78	\$30,218.34	2.7500	2	2	\$60,436.69	\$60,436.69
Replace fluorescent light fixture ballast, 80 W	10	178.00 Ea.	\$22,190.98	\$26,920.23	5.5000	5	3	\$134,601.14	\$80,760.68
Replace lamps (2 lamps), 4', 34 W energy saver	10	178.00 Ea.	\$4,488.10	\$5,621.05	5.5000	5	5	\$28,105.25	\$28,105.25
Replace fluorescent fixture, lay-in, recess mtd, 2' x 4', two 40 W	20	178.00 Ea.	\$40,483.79	\$49,379.90	2.7500	2	2	\$98,759.80	\$98,759.80
Replace metal halide ballast, 175 W	10	16.00 Ea.	\$2,375.75	\$2,852.82	5.5000	5	3	\$14,264.08	\$8,558.45

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Replace metal halide fixture lamp, 175 W	5	16.00 Ea.	\$799.80	\$978.46	11.0000	11	11	\$10,763.05	\$10,763.05	
Replace metal halide fixture, 175 W	20	16.00 Ea.	\$12,455.51	\$14,632.60	2.7500	2	2	\$29,265.19	\$29,265.19	
Repair smoke detector	10	36.00 Ea.	\$2,029.95	\$2,509.71	5.5000	5	4	\$12,548.53	\$10,038.83	
Check operation smoke detector	1	36.00 Ea.	\$582.99	\$730.40	55.0000	55	55	\$40,172.27	\$40,172.27	
Replace smoke detector	15	36.00 Ea.	\$10,232.54	\$12,220.63	3.6667	3	3	\$36,661.89	\$36,661.89	
Check and repair manual pull station	10	16.00 Ea.	\$1,403.15	\$1,725.28	5.5000	5	4	\$8,626.42	\$6,901.14	
Replace manual pull station	15	16.00 Ea.	\$3,255.48	\$3,919.06	3.6667	3	3	\$11,757.17	\$11,757.17	
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	4.00 Ea.	\$779.85	\$941.10	2.7500	2	2	\$1,882.20	\$1,882.20	
Replace lamp emergency lighting fixture	2	14.00 Ea.	\$765.65	\$922.26	27.5000	27	27	\$24,901.00	\$24,901.00	
Replace emergency lighting fixture	20	14.00 Ea.	\$8,433.15	\$9,936.66	2.7500	2	2	\$19,873.32	\$19,873.32	
Maintenance and repair exit light	20	14.00 Ea.	\$520.82	\$644.04	2.7500	2	2	\$1,288.09	\$1,288.09	
Replace lamp exit light	5	14.00 Ea.	\$235.85	\$279.49	11.0000	11	11	\$3,074.37	\$3,074.37	
Replace lighting fixture exit light	20	14.00 Ea.	\$2,674.49	\$3,216.65	2.7500	2	2	\$6,433.30	\$6,433.30	
			\$5,150,887.60	\$6,230,471.93				MR Subtotal	\$13,564,827.55	
									MR Per Year	\$246,633.23
									PM Total	\$27,819.78
									Subtotal	\$274,453.01
									Total Per Unit	\$4.27

FAC 7242 SERVICE ACADEMY UPH

SUC \$4.27

Release 2021 Qtr 3

UM SF

Zip Code Prefix 222

Design Life 55

Type PM

Average Size 64243.0

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	\$58.37	\$43.00	\$0.00	\$101.37	\$120.10	\$141.76
Urinals, annually	28.00	1.60	\$176.92	\$80.17	\$0.00	\$257.10	\$298.84	\$349.43
Toilet (vacuum breaker type), annualized	48.00	8.50	\$405.21	\$427.11	\$0.00	\$832.32	\$1,000.97	\$1,189.89
Lavatories, annually	32.00	2.78	\$190.88	\$166.33	\$0.00	\$357.21	\$426.20	\$504.73
Showers, annually	62.00	3.53	\$799.20	\$210.84	\$0.00	\$1,010.04	\$1,153.21	\$1,336.34
Drink fountain, annualized	4.00	2.48	\$82.90	\$125.10	\$0.00	\$208.00	\$253.82	\$303.79
Valve, check, above 4", annualized	16.00	4.11	\$93.82	\$207.21	\$0.00	\$301.03	\$372.58	\$448.81
Valve, gate, above 4", annualized	2.00	0.32	\$11.73	\$16.03	\$0.00	\$27.76	\$33.74	\$40.31
Water heater, steam 2500 gal., annualized	1.00	1.55	\$143.56	\$77.97	\$0.00	\$221.53	\$259.28	\$304.20
Boiler, hot water, oil, gas, or comb. fired, over 1000 MBH, annualized	2.00	39.40	\$154.68	\$2,378.70	\$0.00	\$2,533.38	\$3,262.46	\$3,999.27
Chiller, centrif., water cooled, up to 100 tons, annualized	2.00	53.54	\$166.81	\$3,215.65	\$0.00	\$3,382.47	\$4,363.84	\$5,353.56
VAV Boxes, annualized	12.00	11.21	\$115.25	\$676.61	\$0.00	\$791.86	\$1,006.37	\$1,226.64
Fire dampers, annualized	2.00	2.31	\$18.30	\$139.20	\$0.00	\$157.50	\$201.09	\$245.59
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	1.00	0.25	\$7.73	\$14.76	\$0.00	\$22.50	\$27.70	\$33.29
Disposal, garbage, electric, annualized	26.00	39.62	\$424.59	\$1,352.68	\$0.00	\$1,777.27	\$2,225.53	\$2,695.02
Oven, convection, gas / electric, annualized	12.00	134.90	\$495.07	\$4,592.64	\$0.00	\$5,087.71	\$6,515.01	\$7,967.06
Refrigerator, domestic, annualized	26.00	6.08	\$141.83	\$207.57	\$0.00	\$349.39	\$425.85	\$509.39
						\$18,165.04	\$22,903.54	\$27,819.78

FAC 7242 SERVICE ACADEMY UPH
Modeled Component List
CostWorks Release 2021 Qtr 3

B10 Superstructure	
Concrete Stairs	90.0 S.F.
B20 Exterior Enclosure	
Aluminum Window, Operating, 1st floor	164.0 Ea.
Aluminum Window, Operating, 2nd floor	164.0 Ea.
Aluminum Window, Fixed, 1st floor	138.0 Ea.
Glazed Aluminum	8.0 Ea.
Steel, Painted	4.0 Ea.
B30 Roofing	
EPDM Roof	642.0 Sq.
Aluminum Roof Hatch	4.0 Ea.
C10 Interior Construction	
Solid Core Interior Doors	64.0 Ea.
C20 Stairs	
Masonry Steps, Painted	264.0 S.F.
Metal Interior Stair Railing	96.0 L.F.
C30 Interior Finishes	
Vinyl Wall Covering	32.0 C.S.F.
Concrete, Finished	1.4 C.S.F.
Vinyl	3300.0 S.Y.
Carpet	1929.0 S.Y.
Gypsum Wall Board	154.0 C.S.F.
D20 Plumbing	
Flush-Tank Water Closet	48.0 Ea.
Flush-Tank Water Closet	48.0 Ea.
Urinal	28.0 Ea.
Lavatory, Vitreous China	32.0 Ea.
Sink, Iron Enamel	8.0 Ea.
Shower, Terrazzo	62.0 Ea.
Drinking Fountain	8.0 Ea.
Water Heater, Gas / Oil, 1150 GPH	1.0 Ea.
Circulation Pump, 1/12 HP	1.0 Ea.
Circulation Pump, 1/2 HP	1.0 Ea.
Drain: Roof, Scupper, Area	2.0 Ea.
Valve Gate	2.0 Each
D30 HVAC	
Boiler, Gas/Oil, 2000 MBH	1.0 Ea.
Metal Flue / Chimney, 6" diameter	1.0 L.F.
Chiller, Air Cooled, Reciprocating, 50 ton	2.0 Ea.
Fan Coil, 5 ton	14.0 Ea.
VAV Box	12.0 Each
D40 Fire Protection	
Sprinkler System, Fire Supression, sprinkler head	104.0 Ea.
Sprinkler System, Fire Supression , 3" backflow preventer	1.0 Ea.
D50 Electrical	
Switchgear, Mainframe	2.0 Ea.
Motor Starter, Up To 600 V	2.0 Ea.
Safety Switch, General Duty, 240 V, 2 pole	1.0 Ea.
Incandescent Lighting Fixtures	178.0 Ea.
Fluorescent Lighting Fixture	178.0 Ea.
Metal Halide Fixture	16.0 Ea.
Smoke Detector	36.0 Ea.

Manual Pull Station	16.0 Ea.
Fire Alarm Control Panel	1.0 Ea.
Fire Alarm Bell	4.0 Ea.
Emergency Lighting Fixture	14.0 Ea.
Exit Light	14.0 Ea.
E10 Equipment	
Garbage Disposal, annualized	26.0 Each

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Sustainment by Year
CostWorks Release 2021 Qtr 3

