

FAC 1712 APPLIED INSTRUCTION BUILDING

FY22 SUC: \$4.77 / SF
Source: Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 1712 APPLIED INSTRUCTION BUILDING

Release 2021 Qtr 3
Zip Code Prefix 222
Type MR

UM SF
Design Life 50
Average Size 13870.0

SUC \$4.77

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
Point and refinish painted concrete block wall, 1st floor	25	42.12 C.S.F.	\$19,787.01	\$24,421.39	2.0000	2	2	\$48,842.79	\$48,842.79
Repair clay brick wall, 1st floor	25	1.00 S.F.	\$42.98	\$52.74	2.0000	2	2	\$105.49	\$105.49
Replace glass - 1st floor (1% of glass) - alum. window fixed	1	5.20 S.F.	\$62.70	\$73.69	50.0000	50	50	\$3,684.62	\$3,684.62
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	88.00 Ea.	\$12,736.83	\$15,189.59	2.5000	2	2	\$30,379.17	\$30,379.17
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	88.00 Ea.	\$42,955.58	\$50,910.13	1.0000	1	1	\$50,910.13	\$50,910.13
Repair aluminum storefront door	12	2.00 Ea.	\$926.84	\$1,109.03	4.1667	4	4	\$4,436.12	\$4,436.12
Replace 3'-0" x 7'-0" aluminum storefront doors	50	2.00 Ea.	\$4,091.53	\$4,838.20	1.0000	1	1	\$4,838.20	\$4,838.20
Repair steel, painted, door	14	4.00 Ea.	\$2,500.30	\$2,976.02	3.5714	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	12.5000	12	12	\$2,441.58	\$2,441.58
Replace 3'-0" x 7'-0" steel, painted, door	45	4.00 Ea.	\$2,820.26	\$3,278.92	1.1111	1	1	\$3,278.92	\$3,278.92
Replace tempered glass - (3% of glass) steel painted door	1	4.00 S.F.	\$90.39	\$108.00	50.0000	50	50	\$5,400.17	\$5,400.17
Prepare and refinish 3'-0" x 7'-0" steel painted. door	4	1.00 Ea.	\$80.08	\$99.00	12.5000	12	12	\$1,188.02	\$1,188.02
Replace 3'-0" x 7'-0" steel, with wire glass, door	45	1.00 Ea.	\$1,164.36	\$1,359.11	1.1111	1	1	\$1,359.11	\$1,359.11
Refinish 12' x 24' steel double roll-up door	5	3.00 Ea.	\$1,223.58	\$1,498.73	10.0000	10	10	\$14,987.30	\$14,987.30
Replace 12' x 24' steel double roll-up door	35	3.00 Ea.	\$16,221.50	\$19,253.20	1.4286	1	1	\$19,253.20	\$19,253.20
Minor metal roof finish repairs, 2% of roof area, metal panel roofing	5	277.00 S.F.	\$967.59	\$1,160.90	10.0000	10	10	\$11,608.97	\$11,608.97
Metal roof flashing replacement, 2 SF/sq repaired, metal panel roofing	1	6.40 S.F.	\$117.12	\$141.90	50.0000	50	50	\$7,095.19	\$7,095.19
Minor metal roof panel replacement, 2.5% of roof area	20	346.00 S.F.	\$3,953.95	\$4,695.94	2.5000	2	2	\$9,391.88	\$9,391.88
Total metal roof panel replacement	30	140.00 Sq.	\$118,320.53	\$140,142.27	1.6667	1	1	\$140,142.27	\$140,142.27
Repair 8" concrete block wall - (2% of walls) painted	25	1.20 C.S.F.	\$1,307.59	\$1,570.03	2.0000	2	2	\$3,140.05	\$3,140.05
Refinish concrete block wall painted	4	42.12 C.S.F.	\$4,250.69	\$5,176.05	12.5000	12	12	\$62,112.61	\$62,112.61
Replace 8" concrete block wall painted	75	42.12 C.S.F.	\$48,794.56	\$58,698.99	0.6667	0	0	\$0.00	\$0.00
Replace insulating glass (3% of glass) fully glazed wooden doors	1	0.20 S.F.	\$11.32	\$13.16	50.0000	50	50	\$657.83	\$657.83
Refinish 3'-0" x 7'-0" fully glazed wood door	4	1.00 Ea.	\$70.36	\$87.19	12.5000	12	12	\$1,046.26	\$1,046.26
Replace 3'-0" x 7'-0" fully glazed wood door	40	1.00 Ea.	\$1,138.86	\$1,323.90	1.2500	1	1	\$1,323.90	\$1,323.90
Repair steel painted interior door	14	9.00 Ea.	\$2,641.07	\$3,074.08	3.5714	3	3	\$9,222.23	\$9,222.23
Refinish 3'-0" x 7'-0" steel painted interior door	4	9.00 Ea.	\$473.27	\$583.08	12.5000	12	12	\$6,996.92	\$6,996.92

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Replace 3'-0" x 7'-0" steel painted interior door	60	9.00 Ea.	\$10,962.31	\$12,708.75	0.8333	0	0	\$0.00	\$0.00
Repair solid core wood door, interior	11	15.00 Ea.	\$4,401.78	\$5,123.46	4.5455	4	4	\$20,493.84	\$20,493.84
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	15.00 Ea.	\$650.47	\$798.75	12.5000	12	11	\$9,584.94	\$8,786.20
Replace 3'-0" x 7'-0" solid core wood door, interior	40	15.00 Ea.	\$7,341.41	\$8,487.15	1.2500	1	1	\$8,487.15	\$8,487.15
Repair concrete steps	15	94.00 S.F.	\$2,147.91	\$2,486.36	3.3333	3	3	\$7,459.09	\$7,459.09
Replace concrete steps	100	94.00 S.F.	\$5,025.13	\$6,128.07	0.5000	0	0	\$0.00	\$0.00
Refinish metal stair railing, interior	7	51.00 S.F.	\$74.54	\$91.90	7.1429	7	7	\$643.33	\$643.33
Replace metal stair railing, interior	45	51.00 L.F.	\$2,190.74	\$2,564.27	1.1111	1	1	\$2,564.27	\$2,564.27
Repair fabric wall finish fabric interior	9	313.40 S.Y.	\$9,519.91	\$11,417.18	5.5556	5	5	\$57,085.92	\$57,085.92
Replace fabric wall finish fabric interior	50	313.40 S.Y.	\$46,070.54	\$56,868.60	1.0000	1	1	\$56,868.60	\$56,868.60
Repair 5/8" drywall - (2% of walls)	20	308.90 S.F.	\$517.51	\$629.69	2.5000	2	2	\$1,259.38	\$1,259.38
Refinish drywall	4	10.00 S.F.	\$6.21	\$7.64	12.5000	12	12	\$91.67	\$91.67
Replace 5/8" drywall	75	10.00 S.F.	\$23.31	\$28.52	0.6667	0	0	\$0.00	\$0.00
Refinish concrete floor finished	25	79.60 C.S.F.	\$33,577.45	\$40,331.75	2.0000	2	2	\$80,663.50	\$80,663.50
Replace vinyl tile flooring	18	20.70 S.Y.	\$1,022.65	\$1,255.87	2.7778	2	2	\$2,511.74	\$2,511.74
Ceramic tile floor repairs - (2% of floors)	15	0.20 C.S.F.	\$126.56	\$157.80	3.3333	3	3	\$473.40	\$473.40
Replace 2" x 2" thin set ceramic tile floor	50	10.10 C.S.F.	\$12,358.80	\$14,918.64	1.0000	1	1	\$14,918.64	\$14,918.64
Replace carpet	8	600.00 S.Y.	\$33,009.81	\$38,122.14	6.2500	6	6	\$228,732.85	\$228,732.85
Repair gypsum board ceiling - (2% of ceilings)	20	0.10 C.S.F.	\$36.22	\$44.46	2.5000	2	2	\$88.92	\$88.92
Refinish gypsum board ceiling, up to 12' high	20	6.70 C.S.F.	\$864.93	\$1,069.21	2.5000	2	2	\$2,138.42	\$2,138.42
Acoustic tile repairs - (2% of ceilings)	9	1.70 C.S.F.	\$1,543.10	\$1,793.37	5.5556	5	5	\$8,966.83	\$8,966.83
Refinish acoustic tile ceiling and grid (unoccupied area)	5	8.50 C.S.F.	\$112.81	\$140.27	10.0000	10	10	\$1,402.69	\$1,402.69
Refinish acoustic tile ceiling and grid (occupied area)	5	8.50 C.S.F.	\$208.72	\$259.54	10.0000	10	10	\$2,595.37	\$2,595.37
Replace flush valve diaphragm tankless water closet	10	10.00 Ea.	\$262.20	\$325.36	5.0000	5	5	\$1,626.79	\$1,626.79
Rebuild flush valve tankless water closet	20	10.00 Ea.	\$1,804.34	\$2,174.57	2.5000	2	2	\$4,349.14	\$4,349.14
Unplug clogged line tankless water closet	5	10.00 Ea.	\$2,183.95	\$2,731.27	10.0000	10	10	\$27,312.68	\$27,312.68
Replace tankless water closet	35	10.00 Ea.	\$12,862.21	\$14,884.95	1.4286	1	1	\$14,884.95	\$14,884.95
Replace tankless flush valve	25	10.00 Ea.	\$2,522.15	\$2,961.10	2.0000	2	2	\$5,922.21	\$5,922.21
Unstop sink, iron enamel	2	2.00 Ea.	\$83.64	\$104.60	25.0000	25	25	\$2,615.12	\$2,615.12
Replace sink, P.E.C.I. sink, iron enamel kitchen	35	2.00 Ea.	\$1,273.40	\$1,515.02	1.4286	1	1	\$1,515.02	\$1,515.02
Check / minor repairs drinking fountain	1	2.00 Ea.	\$97.76	\$122.27	50.0000	50	50	\$6,113.26	\$6,113.26
Repair internal leaks drinking fountain	4	2.00 Ea.	\$90.16	\$112.76	12.5000	12	12	\$1,353.07	\$1,353.07
Correct water pressure drinking fountain	2	2.00 Ea.	\$83.64	\$104.60	25.0000	25	25	\$2,615.12	\$2,615.12
Replace refrigerant drinking fountain	2	2.00 Ea.	\$65.37	\$76.54	25.0000	25	25	\$1,913.46	\$1,913.46

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Repair drain leak drinking fountain	4	2.00 Ea.	\$67.83	\$81.07	12.5000	12	10	\$972.83	\$810.69
Replace fountain drinking fountain	10	2.00 Ea.	\$2,562.31	\$3,029.12	5.0000	5	5	\$15,145.59	\$15,145.59
Inspect and clean shower head emergency shower station	3	1.00 Ea.	\$49.39	\$61.77	16.6667	16	16	\$988.34	\$988.34
Replace wax ring gasket for tankless water closet	5	10.00 Ea.	\$1,415.19	\$1,768.26	10.0000	10	10	\$17,682.64	\$17,682.64
Replace flush valve diaphragm for a urinal	7	3.00 Ea.	\$78.66	\$97.61	7.1429	7	7	\$683.25	\$683.25
Rebuild flush valve for a urinal	20	3.00 Ea.	\$541.30	\$652.37	2.5000	2	2	\$1,304.74	\$1,304.74
Unplug line urinal	5	3.00 Ea.	\$435.22	\$544.28	10.0000	10	10	\$5,442.84	\$5,442.84
Replace wall-hung urinal	35	3.00 Ea.	\$2,906.59	\$3,507.32	1.4286	1	1	\$3,507.32	\$3,507.32
Replace washer in spud connection lavatory, vitreous china	7	11.00 Ea.	\$181.09	\$220.88	7.1429	7	7	\$1,546.16	\$1,546.16
Replace washer in faucet lavatory, vitreous china	2	11.00 Ea.	\$141.73	\$176.57	25.0000	25	25	\$4,414.25	\$4,414.25
Replace faucets lavatory, vitreous china	10	11.00 Ea.	\$1,998.98	\$2,406.31	5.0000	5	5	\$12,031.55	\$12,031.55
Clean out strainer and P trap lavatory, vitreous china	2	11.00 Ea.	\$383.56	\$479.69	25.0000	25	25	\$11,992.18	\$11,992.18
Replace lavatory, vitreous china	35	11.00 Ea.	\$7,398.32	\$8,890.43	1.4286	1	1	\$8,890.43	\$8,890.43
Replace faucet washer sink, iron enamel	2	2.00 Ea.	\$25.55	\$31.83	25.0000	25	25	\$795.80	\$795.80
Clean trap sink, iron enamel	3	2.00 Ea.	\$17.14	\$21.44	16.6667	16	16	\$342.99	\$342.99
Replace faucets sink, iron enamel	10	2.00 Ea.	\$363.45	\$437.51	5.0000	5	5	\$2,187.55	\$2,187.55
Replace shower emergency shower station	25	1.00 Ea.	\$941.97	\$1,129.12	2.0000	2	2	\$2,258.23	\$2,258.23
Inspect and clean spray heads, emergency eye wash	3	1.00 Ea.	\$49.39	\$61.77	16.6667	16	16	\$988.34	\$988.34
Replace eye wash station, emergency eye wash	25	1.00 Ea.	\$1,114.34	\$1,325.00	2.0000	2	2	\$2,649.99	\$2,649.99
General maintenance & repair drain: roof, scupper, area	1	8.00 Ea.	\$295.90	\$370.06	50.0000	50	50	\$18,502.80	\$18,502.80
Replace drain: roof, scupper, area	40	8.00 Ea.	\$6,295.46	\$7,298.88	1.2500	1	1	\$7,298.88	\$7,298.88
Repair boiler, gas, 2000 MBH	7	1.00 Ea.	\$5,785.82	\$6,733.75	7.1429	7	7	\$47,136.22	\$47,136.22
Replace boiler, gas, 2000 MBH	30	1.00 Ea.	\$39,838.14	\$46,620.21	1.6667	1	1	\$46,620.21	\$46,620.21
Repair cooling tower, 50 ton	10	1.00 Ea.	\$1,244.67	\$1,481.97	5.0000	5	4	\$7,409.84	\$5,927.87
Replace cooling tower, 50 ton	15	1.00 Ea.	\$16,033.09	\$18,465.51	3.3333	3	3	\$55,396.53	\$55,396.53
Repair water cooled chiller, 50 ton, reciprocating	10	1.00 Ea.	\$45,520.89	\$52,632.05	5.0000	5	5	\$263,160.26	\$263,160.26
Replace chiller, water cooled 50 ton, reciprocating	20	1.00 Ea.	\$52,675.18	\$61,378.40	2.5000	2	2	\$122,756.80	\$122,756.80
Repair fan coil unit, 1 ton	10	4.00 Ea.	\$1,540.11	\$1,852.38	5.0000	5	4	\$9,261.90	\$7,409.52
Replace fan coil unit, 1 ton	15	4.00 Ea.	\$4,882.42	\$5,707.06	3.3333	3	3	\$17,121.17	\$17,121.17
Replace roof mounted exhaust fan, 8500 CFM exhaust fan	20	1.00 Ea.	\$3,939.83	\$4,573.41	2.5000	2	2	\$9,146.83	\$9,146.83
Repair circulator pump, 1/12 - 3/4 H.P.	5	1.00 Ea.	\$98.13	\$115.73	10.0000	10	7	\$1,157.31	\$810.12
Replace circulator pump, 1/12 - 3/4 H.P.	15	1.00 Ea.	\$3,822.30	\$4,402.23	3.3333	3	3	\$13,206.68	\$13,206.68
Repair circulator pump, 1 H.P.	5	1.00 Ea.	\$98.36	\$116.02	10.0000	10	7	\$1,160.17	\$812.12
Replace circulator. pump, 1 H.P.	15	1.00 Ea.	\$5,768.48	\$6,613.79	3.3333	3	3	\$19,841.37	\$19,841.37
Repair central station A.H.U., 16,000 CFM	10	2.00 Ea.	\$3,005.64	\$3,492.07	5.0000	5	4	\$17,460.35	\$13,968.28

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Replace central station A.H.U., 16,000 CFM	15	2.00 Ea.	\$133,879.30	\$154,090.16	3.3333	3	3	\$462,270.47	\$462,270.47
Inspect sprinkler system	1	1.00 Ea.	\$34.33	\$42.93	50.0000	50	50	\$2,146.43	\$2,146.43
Replace sprinkler head	20	60.00 Ea.	\$5,131.37	\$6,311.37	2.5000	2	2	\$12,622.74	\$12,622.74
Maintenance and repair motor starter, up to 600 V	5	2.00 Ea.	\$559.28	\$675.20	10.0000	10	10	\$6,751.96	\$6,751.96
Maintenance and inspection motor starter, up to 600 V	0.5	2.00 Ea.	\$107.96	\$135.26	100.0000	100	100	\$13,526.02	\$13,526.02
Replace starter motor starter, up to 600 V	18	2.00 Ea.	\$1,610.62	\$1,916.15	2.7778	2	2	\$3,832.30	\$3,832.30
Maintenance and inspection lighting panel, indoor	3	3.00 Ea.	\$121.93	\$152.76	16.6667	16	16	\$2,444.23	\$2,444.23
Maintenance and repair incandescent lighting fixtures	10	12.00 Ea.	\$826.39	\$983.82	5.0000	5	5	\$4,919.10	\$4,919.10
Replace incandescent lighting fixture lamp	5	12.00 Ea.	\$137.79	\$166.41	10.0000	10	10	\$1,664.12	\$1,664.12
Replace fluorescent light fixture ballast, 80 W	10	200.00 Ea.	\$24,933.69	\$30,247.45	5.0000	5	5	\$151,237.24	\$151,237.24
Replace lamps (2 lamps), 4', 34 W energy saver	10	200.00 Ea.	\$5,042.80	\$6,315.79	5.0000	5	5	\$31,578.93	\$31,578.93
Replace metal halide ballast, 175 W	10	21.00 Ea.	\$3,118.18	\$3,744.32	5.0000	5	5	\$18,721.60	\$18,721.60
Replace metal halide fixture lamp, 175 W	5	21.00 Ea.	\$1,049.73	\$1,284.23	10.0000	10	10	\$12,842.27	\$12,842.27
Maintenance and repair master clock control	10	1.00 Ea.	\$191.92	\$230.28	5.0000	5	5	\$1,151.38	\$1,151.38
Check operation master clock control	1	1.00 Ea.	\$43.18	\$54.10	50.0000	50	50	\$2,705.20	\$2,705.20
Replace time control clock master clock	15	1.00 Ea.	\$303.15	\$359.86	3.3333	3	3	\$1,079.57	\$1,079.57
Repair smoke detector	10	15.00 Ea.	\$845.81	\$1,045.71	5.0000	5	4	\$5,228.55	\$4,182.84
Check operation smoke detector	1	15.00 Ea.	\$242.91	\$304.34	50.0000	50	50	\$15,216.77	\$15,216.77
Replace smoke detector	15	15.00 Ea.	\$4,263.56	\$5,091.93	3.3333	3	3	\$15,275.79	\$15,275.79
Check and repair manual pull station	10	6.00 Ea.	\$526.18	\$646.98	5.0000	5	4	\$3,234.91	\$2,587.93
Replace manual pull station	15	6.00 Ea.	\$1,220.81	\$1,469.65	3.3333	3	3	\$4,408.94	\$4,408.94
Minor repairs to fire alarm control panel	5	1.00 Ea.	\$149.71	\$182.27	10.0000	10	10	\$1,822.75	\$1,822.75
Maintenance and inspection fire alarm control panel	0.5	1.00 Ea.	\$43.18	\$54.10	100.0000	100	100	\$5,410.41	\$5,410.41
Replace fire alarm control panel	15	1.00 Ea.	\$1,953.46	\$2,391.92	3.3333	3	3	\$7,175.76	\$7,175.76
Replace fire alarm bell, 6"	20	4.00 Ea.	\$779.85	\$941.10	2.5000	2	2	\$1,882.20	\$1,882.20
Replace lamp emergency lighting fixture	2	6.00 Ea.	\$328.14	\$395.25	25.0000	25	25	\$9,881.35	\$9,881.35
Replace emergency lighting fixture	20	6.00 Ea.	\$3,614.21	\$4,258.57	2.5000	2	2	\$8,517.14	\$8,517.14
Inspect for leaks steam converter, domestic hot water	1	1.00 Ea.	\$6.77	\$8.46	50.0000	50	50	\$423.17	\$423.17
Replace steam converter, domestic hot water	20	1.00 Ea.	\$3,500.15	\$4,018.40	2.5000	2	2	\$8,036.80	\$8,036.80
Maintenance and repair breaker, molded case, 480 V, 1 pole	20	4.00 Ea.	\$287.05	\$359.63	2.5000	2	2	\$719.27	\$719.27
Replace circuit breaker enclosed, 240 V, 1 pole circuit breaker	50	4.00 Ea.	\$2,045.80	\$2,429.39	1.0000	1	1	\$2,429.39	\$2,429.39
Repair 4-pin receptacle cover	10	4.00 Ea.	\$234.21	\$289.22	5.0000	5	5	\$1,446.12	\$1,446.12
Replace 4-pin receptacle	20	4.00 Ea.	\$585.00	\$695.40	2.5000	2	2	\$1,390.81	\$1,390.81

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Maintenance and repair receptacles and plugs	20	44.00 Ea.	\$1,858.71	\$2,320.50	2.5000	2	2	\$4,641.00	\$4,641.00	
Maintenance and repair wiring devices, switches	10	24.00 Ea.	\$1,013.84	\$1,265.73	5.0000	5	5	\$6,328.63	\$6,328.63	
Replace EMS, Three Phase, 5 Meters	15	2.00 Ea.	\$31,604.92	\$36,799.58	3.3333	3	3	\$110,398.74	\$110,398.74	
Replace EMS, Mech, BTU, 3 Meters, 3 Duct Sensors, 3 Space Sensors	20	2.00 Ea.	\$34,275.44	\$40,061.35	2.5000	2	2	\$80,122.70	\$80,122.70	
Maintenance and repair of general wiring lightning protection system	1	1.00 M.L.F.	\$96.72	\$119.83	50.0000	50	50	\$5,991.33	\$5,991.33	
Maintenance and repair lightning ground rod	1	2.00 Ea.	\$175.78	\$219.57	50.0000	50	50	\$10,978.72	\$10,978.72	
Maintenance and repair computer ground system	4	1.00 Ea.	\$21.59	\$27.05	12.5000	12	12	\$324.62	\$324.62	
			\$958,319.94	\$1,131,467.04				MR Subtotal	\$2,811,088.94	
									MR Per Year	\$56,087.10
									PM Total	\$10,139.12
									Subtotal	\$66,226.22
									Total Per Unit	\$4.77

FAC 1712 APPLIED INSTRUCTION BUILDING

SUC \$4.77

Release 2021 Qtr 3

UM SF

Zip Code Prefix 222

Design Life 50

Type PM

Average Size 13870.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Uninterrupted power system, up to 200 KVA, annually	1.00	3.01	\$196.92	\$178.19	\$0.00	\$375.11	\$448.26	\$531.26
Light, emergency, hardwired system, annually	6.00	0.75	\$35.26	\$44.44	\$0.00	\$79.70	\$96.56	\$115.19
Hydraulic lift, annually	1.00	0.77	\$327.76	\$26.31	\$0.00	\$354.07	\$394.74	\$451.79
Crane, electric bridge, up to 5 ton, annually	1.00	2.92	\$171.90	\$102.86	\$0.00	\$274.76	\$322.80	\$379.44
Water heater, gas, to 120 gal., annualized	2.00	3.44	\$117.28	\$173.56	\$0.00	\$290.83	\$354.63	\$424.29
Door, emergency egress, swinging, annualized	3.00	0.78	\$43.78	\$32.25	\$0.00	\$76.02	\$90.08	\$106.32
Door, overhead, manual, up to 24' high x 25' wide, annualized	1.00	2.20	\$11.88	\$90.84	\$0.00	\$102.72	\$131.16	\$160.19
Fire doors, swinging, annualized	6.00	2.35	\$85.93	\$87.34	\$0.00	\$173.27	\$208.07	\$247.16
Urinals, annualized	3.00	0.68	\$18.96	\$34.36	\$0.00	\$53.32	\$65.52	\$78.67
Toilet (vacuum breaker type), annualized	10.00	1.77	\$84.42	\$88.98	\$0.00	\$173.40	\$208.54	\$247.89
Lavatories, annualized	11.00	3.83	\$65.61	\$227.74	\$0.00	\$293.35	\$368.24	\$446.40
Drink fountain, annualized	2.00	1.24	\$41.45	\$62.55	\$0.00	\$104.00	\$126.91	\$151.90
Boiler, hot water, oil, gas, or comb. fired, 120 - 500 MBH, annualized	1.00	15.88	\$77.34	\$947.08	\$0.00	\$1,024.42	\$1,316.27	\$1,612.00
Water cooling tower, up to 50 tons, annualized	1.00	4.55	\$26.29	\$273.11	\$0.00	\$299.40	\$383.96	\$469.83
Chiller, recip., water cooled, up to 50 tons, annualized	1.00	7.94	\$27.30	\$480.14	\$0.00	\$507.44	\$654.22	\$802.35
Fan coil unit, annualized	4.00	13.35	\$452.93	\$673.08	\$0.00	\$1,126.01	\$1,373.23	\$1,643.09
Controls, central system, electro/pneumatic, annually	1.00	1.92	\$70.77	\$115.41	\$0.00	\$186.18	\$227.88	\$273.12
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
VAV Boxes, annually	8.00	3.74	\$38.50	\$225.54	\$0.00	\$264.03	\$335.55	\$408.98
Air compressor, gas engine powered, annually	1.00	2.51	\$102.11	\$151.53	\$0.00	\$253.64	\$309.31	\$370.09
						\$6,791.51	\$8,413.37	\$10,139.12

FAC 1712 APPLIED INSTRUCTION BUILDING

Modeled Component List CostWorks Release 2021 Qtr 3

B20 Exterior Enclosure	
Aluminum Window, Fixed, 1st floor	88.0 Ea.
Glazed Aluminum	2.0 Ea.
Steel, Painted	4.0 Ea.
Steel, Painted, w/ wire glass	1.0 Ea.
Steel Double, Roll-Up	3.0 Ea.
B30 Roofing	
Metal Steep Roofing	140.0 Sq.
C10 Interior Construction	
Concrete Block, Painted	42.12 C.S.F.
Fully Glazed Wooden Doors	1.0 Ea.
Steel Painted Interior Doors	9.0 Ea.
Solid Core Interior Doors	15.0 Ea.
Fire Doors, Swinging, annualized	6.0 Each
C20 Stairs	
Concrete Steps	94.0 S.F.
Metal Interior Stair Railing	51.0 L.F.
C30 Interior Finishes	
Fabric Interior Wall Finish	313.4 S.Y.
Drywall	10.0 S.F.
Concrete, Finished	79.6 C.S.F.
Vinyl	20.7 S.Y.
Carpet	600.0 S.Y.
D20 Plumbing	
Tankless Water Closet	10.0 Ea.
Sink, Iron Enamel	2.0 Ea.
Drinking Fountain	2.0 Ea.
Urinal	3.0 Ea.
Lavatory, Vitreous China	11.0 Ea.
Emergency Shower Station	1.0 Ea.
Emergency Eye Wash	1.0 Ea.
Drain: Roof, Scupper, Area	8.0 Ea.
Steam Converter, Domestic Hot Water	1.0 Ea.
D30 HVAC	
Boiler, Gas, 2000 MBH	1.0 Ea.
Cooling Tower, 50 ton	1.0 Ea.
Chiller, Water Cooled, Reciprocating, 50 ton	1.0 Ea.
Fan Coil, 1 ton	4.0 Ea.
Exhaust Fan, roof mounted exhaust fan, 8500 CFM exhaust	1.0 Ea.
Circulator Pump, 1/12 - 3/4 H.P.	1.0 Ea.
Circulator Pump, 1 H.P.	1.0 Ea.
Central Station Air Conditioning Air Handling Unit, 16,000 CFM	2.0 Ea.
D40 Fire Protection	
Sprinkler System, Fire Supression, sprinkler head	60.0 Ea.
D50 Electrical	
Motor Starter, Up To 600 V	2.0 Ea.
Load Center, 100 A, maintenance & inspection	3.0 Ea.
Master Clock Control	1.0 Ea.
Smoke Detector	15.0 Ea.
Manual Pull Station	6.0 Ea.
Fire Alarm Control Panel	1.0 Ea.
Fire Alarm Bell	4.0 Ea.

Emergency Lighting Fixture	6.0 Ea.
Circuit Breaker, molded case, 240 V, 1 pole	4.0 Ea.

FAC 1712 APPLIED INSTRUCTION BUILDING
Sustainment by Year
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