

FAC 4311 COLD STORAGE, DEPOT

FY22 SUC:	\$3.48 / SF
Source:	Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 4311 COLD STORAGE, DEPOT**SUC \$3.48**Release 2021 Qtr 3
Zip Code Prefix 222
Type MRUM SF
Design Life 45
Average Size 24800.0

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
Repair 8" concrete block wall, 1st floor	25	584.00 S.F.	\$14,141.45	\$17,299.97	1.8000	1	1	\$17,299.97	\$17,299.97
Point and refinish painted concrete block wall, 2nd floor	25	584.00 C.S.F.	\$321,367.60	\$396,861.94	1.8000	1	1	\$396,861.94	\$396,861.94
Replace glass - 1st floor (1% of glass) - alum. window fixed	1	0.40 S.F.	\$4.82	\$5.67	45.0000	45	45	\$255.09	\$255.09
Repair 2'-0" x 3'-0" aluminum window - 1st floor	20	8.00 Ea.	\$1,157.89	\$1,380.87	2.2500	2	2	\$2,761.74	\$2,761.74
Replace 2'-0" x 3'-0" aluminum window - 1st floor	50	8.00 Ea.	\$3,905.05	\$4,628.19	0.9000	0	0	\$0.00	\$0.00
Repair 2'-0" x 3'-0" aluminum window - 2nd floor	20	14.00 Ea.	\$2,678.47	\$3,226.38	2.2500	2	2	\$6,452.76	\$6,452.76
Replace 2'-0" x 3'-0" aluminum window - 2nd floor	50	14.00 Ea.	\$7,486.00	\$8,909.20	0.9000	0	0	\$0.00	\$0.00
Repair steel, painted, door	14	1.00 Ea.	\$625.07	\$744.01	3.2143	3	3	\$2,232.02	\$2,232.02
Refinish 3'-0" x 7'-0" steel, painted, door	4	1.00 Ea.	\$41.40	\$50.87	11.2500	11	11	\$559.53	\$559.53
Replace 3'-0" x 7'-0" steel, painted, door	45	1.00 Ea.	\$705.06	\$819.73	1.0000	1	1	\$819.73	\$819.73
Repair 12' x 12' steel roll-up door	10	4.00 Ea.	\$2,703.58	\$3,208.87	4.5000	4	4	\$12,835.47	\$12,835.47
Replace 12' x 12' steel roll-up door	35	4.00 Ea.	\$10,814.33	\$12,835.47	1.2857	1	1	\$12,835.47	\$12,835.47
Debris removal and visual inspection of built-up roofing	0.5	15.00 M.S.F.	\$564.89	\$689.00	90.0000	90	90	\$62,010.21	\$62,010.21
Non-destructive moisture inspection of built-up roofing	5	15.00 M.S.F.	\$1,752.83	\$2,137.93	9.0000	9	9	\$19,241.40	\$19,241.40
Minor BUR membrane repairs, 2% of roof area	1	3.00 Sq.	\$1,452.41	\$1,723.53	45.0000	45	45	\$77,558.90	\$77,558.90
BUR flashing repairs, 2 S.F. per sq. repaired	1	75.00 S.F.	\$262.46	\$318.67	45.0000	45	45	\$14,340.06	\$14,340.06
Minor BUR membrane replacement, 25% of roof area	15	37.60 Sq.	\$30,260.04	\$35,919.78	3.0000	3	3	\$107,759.35	\$107,759.35
Place new BUR membrane over existing	20	151.00 Sq.	\$73,233.91	\$86,340.25	2.2500	2	2	\$172,680.49	\$172,680.49
Total BUR roof replacement	28	151.00 Sq.	\$117,727.16	\$139,219.34	1.6071	1	1	\$139,219.34	\$139,219.34
Repair 8" concrete block wall - (2% of walls) painted	25	2.90 C.S.F.	\$3,160.00	\$3,794.23	1.8000	1	1	\$3,794.23	\$3,794.23
Refinish concrete block wall painted	4	45.00 C.S.F.	\$4,541.34	\$5,529.97	11.2500	11	11	\$60,829.66	\$60,829.66
Repair steel painted interior door	14	5.00 Ea.	\$1,467.26	\$1,707.82	3.2143	3	3	\$5,123.46	\$5,123.46
Refinish 3'-0" x 7'-0" steel painted interior door	4	5.00 Ea.	\$262.93	\$323.93	11.2500	11	11	\$3,563.25	\$3,563.25
Replace 3'-0" x 7'-0" steel painted interior door	60	5.00 Ea.	\$6,090.17	\$7,060.42	0.7500	0	0	\$0.00	\$0.00
Repair solid core wood door, interior	11	9.00 Ea.	\$2,641.07	\$3,074.08	4.0909	4	4	\$12,296.30	\$12,296.30
Refinish 3'-0" x 7'-0" solid core wood door, interior	4	9.00 Ea.	\$390.28	\$479.25	11.2500	11	10	\$5,271.72	\$4,792.47
Replace 3'-0" x 7'-0" solid core wood door, interior	40	9.00 Ea.	\$4,404.85	\$5,092.29	1.1250	1	1	\$5,092.29	\$5,092.29
Repair 5/8" drywall - (2% of walls)	20	59.40 S.F.	\$99.52	\$121.09	2.2500	2	2	\$242.17	\$242.17
Refinish concrete floor finished	25	152.30 C.S.F.	\$64,244.30	\$77,167.40	1.8000	1	1	\$77,167.40	\$77,167.40
Replace epoxy flooring	15	12.00 C.S.F.	\$13,482.57	\$16,133.58	3.0000	3	3	\$48,400.73	\$48,400.73

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 tile flooring	18	71.80 S.Y.	\$3,547.17	\$4,356.11	2.5000	2	2	\$8,712.22	\$8,712.22
Replace carpet	8	153.40 S.Y.	\$8,439.51	\$9,746.56	5.6250	5	5	\$48,732.80	\$48,732.80
Repair gypsum board ceiling - (2% of ceilings)	20	12.00 C.S.F.	\$4,346.11	\$5,335.49	2.2500	2	2	\$10,670.98	\$10,670.98
Replace gypsum board ceiling, up to 12' high	40	6.40 C.S.F.	\$2,376.32	\$2,918.11	1.1250	1	1	\$2,918.11	\$2,918.11
Acoustic tile repairs - (2% of ceilings)	9	14.00 C.S.F.	\$12,707.85	\$14,768.90	5.0000	5	5	\$73,844.50	\$73,844.50
Replace acoustic tile ceiling, fire-rated	20	13.80 C.S.F.	\$7,234.35	\$8,526.83	2.2500	2	2	\$17,053.66	\$17,053.66
Replace flush valve diaphragm tankless water closet	10	8.00 Ea.	\$209.76	\$260.29	4.5000	4	4	\$1,041.15	\$1,041.15
Rebuild flush valve tankless water closet	20	8.00 Ea.	\$1,443.47	\$1,739.66	2.2500	2	2	\$3,479.31	\$3,479.31
Unplug clogged line tankless water closet	5	8.00 Ea.	\$1,747.16	\$2,185.01	9.0000	9	9	\$19,665.13	\$19,665.13
Replace tankless water closet	35	8.00 Ea.	\$10,289.77	\$11,907.96	1.2857	1	1	\$11,907.96	\$11,907.96
Replace tankless flush valve	25	8.00 Ea.	\$2,017.72	\$2,368.88	1.8000	1	1	\$2,368.88	\$2,368.88
Replace wax ring gasket for tankless water closet	5	8.00 Ea.	\$1,132.15	\$1,414.61	9.0000	9	9	\$12,731.50	\$12,731.50
Replace flush valve diaphragm for a urinal	7	3.00 Ea.	\$78.66	\$97.61	6.4286	6	6	\$585.65	\$585.65
Rebuild flush valve for a urinal	20	3.00 Ea.	\$541.30	\$652.37	2.2500	2	2	\$1,304.74	\$1,304.74
Unplug line urinal	5	3.00 Ea.	\$435.22	\$544.28	9.0000	9	9	\$4,898.55	\$4,898.55
Replace wall-hung urinal	35	3.00 Ea.	\$2,906.59	\$3,507.32	1.2857	1	1	\$3,507.32	\$3,507.32
Replace washer in spud connection lavatory, vitreous china	7	8.00 Ea.	\$131.70	\$160.64	6.4286	6	6	\$963.84	\$963.84
Replace washer in faucet lavatory, vitreous china	2	8.00 Ea.	\$103.08	\$128.41	22.5000	22	22	\$2,825.12	\$2,825.12
Replace faucets lavatory, vitreous china	10	8.00 Ea.	\$1,453.81	\$1,750.04	4.5000	4	4	\$7,000.17	\$7,000.17
Clean out strainer and P trap lavatory, vitreous china	2	8.00 Ea.	\$278.95	\$348.86	22.5000	22	22	\$7,674.99	\$7,674.99
Replace lavatory, vitreous china	35	8.00 Ea.	\$5,380.60	\$6,465.77	1.2857	1	1	\$6,465.77	\$6,465.77
Replace faucet washer sink, iron enamel	2	1.00 Ea.	\$12.78	\$15.92	22.5000	22	22	\$350.15	\$350.15
Clean trap sink, iron enamel	3	1.00 Ea.	\$8.57	\$10.72	15.0000	15	15	\$160.78	\$160.78
Replace faucets sink, iron enamel	10	1.00 Ea.	\$181.73	\$218.76	4.5000	4	4	\$875.02	\$875.02
Unstop sink, iron enamel	2	1.00 Ea.	\$41.82	\$52.30	22.5000	22	22	\$1,150.65	\$1,150.65
Replace sink, P.E.C.I. sink, iron enamel kitchen	10	1.00 Ea.	\$636.70	\$757.51	4.5000	4	4	\$3,030.04	\$3,030.04
Check / minor repairs drinking fountain	1	2.00 Ea.	\$97.76	\$122.27	45.0000	45	45	\$5,501.93	\$5,501.93
Repair internal leaks drinking fountain	4	2.00 Ea.	\$90.16	\$112.76	11.2500	11	11	\$1,240.31	\$1,240.31
Correct water pressure drinking fountain	2	2.00 Ea.	\$83.64	\$104.60	22.5000	22	22	\$2,301.30	\$2,301.30
Replace refrigerant drinking fountain	2	2.00 Ea.	\$65.37	\$76.54	22.5000	22	22	\$1,683.85	\$1,683.85
Repair drain leak drinking fountain	4	2.00 Ea.	\$67.83	\$81.07	11.2500	11	9	\$891.76	\$729.62
Replace fountain drinking fountain	10	2.00 Ea.	\$2,562.31	\$3,029.12	4.5000	4	4	\$12,116.47	\$12,116.47
Inspect and clean shower head emergency shower station	3	1.00 Ea.	\$49.39	\$61.77	15.0000	15	15	\$926.57	\$926.57

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Replace shower emergency shower station	25	1.00 Ea.	\$941.97	\$1,129.12	1.8000	1	1	\$1,129.12	\$1,129.12
Inspect and clean spray heads, emergency eye wash	3	1.00 Ea.	\$49.39	\$61.77	15.0000	15	15	\$926.57	\$926.57
Replace eye wash station, emergency eye wash	25	1.00 Ea.	\$1,114.34	\$1,325.00	1.8000	1	1	\$1,325.00	\$1,325.00
Drain and flush water heater, electric, 120 gallon	7	1.00 Ea.	\$294.38	\$368.15	6.4286	6	6	\$2,208.92	\$2,208.92
Check operation water heater, electric, 120 gallon	3	1.00 Ea.	\$2.59	\$3.23	15.0000	15	15	\$48.50	\$48.50
Replace water heater, electric, 120 gallon	15	1.00 Ea.	\$14,632.58	\$16,736.89	3.0000	3	3	\$50,210.67	\$50,210.67
Unclog floor drain, PVC	20	1.00 Ea.	\$47.80	\$59.77	2.2500	2	2	\$119.55	\$119.55
General maintenance & repair drain: roof, scupper, area	1	5.00 Ea.	\$184.94	\$231.28	45.0000	45	45	\$10,407.82	\$10,407.82
Replace drain: roof, scupper, area	40	5.00 Ea.	\$3,934.66	\$4,561.80	1.1250	1	1	\$4,561.80	\$4,561.80
Repair cooling tower, 50 ton	10	2.00 Ea.	\$2,489.34	\$2,963.94	4.5000	4	3	\$11,855.74	\$8,891.81
Replace cooling tower, 50 ton	15	2.00 Ea.	\$32,066.17	\$36,931.02	3.0000	3	3	\$110,793.06	\$110,793.06
Repair water cooled chiller, 50 ton, reciprocating	10	2.00 Ea.	\$91,041.79	\$105,264.10	4.5000	4	4	\$421,056.42	\$421,056.42
Replace chiller, water cooled 50 ton, reciprocating	20	2.00 Ea.	\$105,350.37	\$122,756.80	2.2500	2	2	\$245,513.60	\$245,513.60
Repair circulator pump, 1/12 - 3/4 H.P.	5	2.00 Ea.	\$196.27	\$231.46	9.0000	9	6	\$2,083.16	\$1,388.78
Replace circulator pump, 1/12 - 3/4 H.P.	15	2.00 Ea.	\$7,644.61	\$8,804.46	3.0000	3	3	\$26,413.37	\$26,413.37
Inspect sprinkler system	1	1.00 Ea.	\$34.33	\$42.93	45.0000	45	45	\$1,931.79	\$1,931.79
Replace sprinkler head	20	50.00 Ea.	\$4,276.14	\$5,259.48	2.2500	2	2	\$10,518.95	\$10,518.95
Replace fire pump / electric motor assembly 100 H.P.	25	1.00 Ea.	\$44,139.08	\$50,910.34	1.8000	1	1	\$50,910.34	\$50,910.34
Replace switchgear 1200 A mainframe	20	1.00 Ea.	\$4,350.12	\$5,225.48	2.2500	2	2	\$10,450.95	\$10,450.95
Maintenance and repair motor starter, up to 600 V	5	6.00 Ea.	\$1,677.83	\$2,025.59	9.0000	9	9	\$18,230.29	\$18,230.29
Maintenance and inspection motor starter, up to 600 V	0.5	6.00 Ea.	\$323.88	\$405.78	90.0000	90	90	\$36,520.24	\$36,520.24
Replace starter motor starter, up to 600 V	18	6.00 Ea.	\$4,831.87	\$5,748.45	2.5000	2	2	\$11,496.89	\$11,496.89
Maintenance and inspection lighting panel, indoor	3	1.00 Ea.	\$40.64	\$50.92	15.0000	15	15	\$763.82	\$763.82
Repair failed breaker, enclosed, 600 V, 3 pole	4	1.00 Ea.	\$737.25	\$857.61	11.2500	11	11	\$9,433.70	\$9,433.70
Maintenance and inspection circuit breaker, enclosed, 600 V, 3 pole	0.33	1.00 Ea.	\$32.39	\$40.58	136.3636	136	136	\$5,518.61	\$5,518.61
Replace circuit breaker enclosed, 600 V, 3 pole circuit breaker	50	1.00 Ea.	\$1,276.28	\$1,493.30	0.9000	0	0	\$0.00	\$0.00
Replace fluorescent light fixture ballast, 80 W	10	150.00 Ea.	\$18,700.27	\$22,685.59	4.5000	4	4	\$90,742.34	\$90,742.34
Replace lamps (2 lamps), 4', 34 W energy saver	10	150.00 Ea.	\$3,782.10	\$4,736.84	4.5000	4	4	\$18,947.36	\$18,947.36
Check operation smoke detector	1	35.00 Ea.	\$566.80	\$710.12	45.0000	45	45	\$31,955.21	\$31,955.21
Replace smoke detector	15	35.00 Ea.	\$9,948.31	\$11,881.17	3.0000	3	3	\$35,643.50	\$35,643.50
Check and repair manual pull station	10	4.00 Ea.	\$350.79	\$431.32	4.5000	4	3	\$1,725.28	\$1,293.96
Replace manual pull station	15	4.00 Ea.	\$813.87	\$979.76	3.0000	3	3	\$2,939.29	\$2,939.29
Replace fire alarm bell, 6"	20	4.00 Ea.	\$779.85	\$941.10	2.2500	2	2	\$1,882.20	\$1,882.20

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 electrical service ground	25	1.00 M.L.F.	\$87.89	\$109.79	1.8000	1	1	\$109.79	\$109.79	
Replace electrical service ground	50	1.00 M.L.F.	\$3,767.30	\$4,634.72	0.9000	0	0	\$0.00	\$0.00	
Maintenance and repair building structure ground	7	1.00 M.L.F.	\$87.89	\$109.79	6.4286	6	6	\$658.72	\$658.72	
Replace building structure ground	50	1.00 M.L.F.	\$4,337.42	\$5,318.61	0.9000	0	0	\$0.00	\$0.00	
Maintenance and repair of general wiring lightning protection system	1	1.00 M.L.F.	\$96.72	\$119.83	45.0000	45	45	\$5,392.19	\$5,392.19	
Replace lightning protection general wiring system	25	1.00 M.L.F.	\$11,009.12	\$13,095.99	1.8000	1	1	\$13,095.99	\$13,095.99	
Maintenance and repair lightning ground rod	1	1.00 Ea.	\$87.89	\$109.79	45.0000	45	44	\$4,940.42	\$4,830.63	
Replace lightning ground rod	25	1.00 Ea.	\$226.09	\$280.29	1.8000	1	1	\$280.29	\$280.29	
Replace lamp emergency lighting fixture	2	30.00 Ea.	\$1,640.68	\$1,976.27	22.5000	22	22	\$43,477.94	\$43,477.94	
Replace emergency lighting fixture	20	30.00 Ea.	\$18,071.04	\$21,292.84	2.2500	2	2	\$42,585.69	\$42,585.69	
Maintenance and repair exit light	20	30.00 Ea.	\$1,116.05	\$1,380.09	2.2500	2	2	\$2,760.19	\$2,760.19	
Replace lamp exit light	5	30.00 Ea.	\$505.40	\$598.90	9.0000	9	9	\$5,390.14	\$5,390.14	
Replace lighting fixture exit light	20	30.00 Ea.	\$5,731.04	\$6,892.82	2.2500	2	2	\$13,785.64	\$13,785.64	
Remove and replace hydraulic dock leveler lift cylinder	15	2.00 Ea.	\$16,987.60	\$19,341.21	3.0000	3	3	\$58,023.63	\$58,023.63	
Remove and replace hydraulic dock leveler hydraulic pump	20	2.00 Ea.	\$3,482.91	\$3,986.51	2.2500	2	2	\$7,973.02	\$7,973.02	
			\$1,186,256.07	\$1,415,733.35				MR Subtotal	\$2,967,982.81	
									MR Per Year	\$65,955.17
									PM Total	\$20,236.43
									Subtotal	\$86,191.60
									Total Per Unit	\$3.48

FAC 4311 COLD STORAGE, DEPOT

SUC \$3.48

Release 2021 Qtr 3

UM SF

Zip Code Prefix 222

Design Life 45

Type PM

Average Size 24800.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Door, emergency egress, swinging, annualized	1.00	0.26	\$14.59	\$10.75	\$0.00	\$25.34	\$30.03	\$35.44
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
Fire doors, swinging, annualized	2.00	0.78	\$28.64	\$29.12	\$0.00	\$57.76	\$69.36	\$82.39
Urinals, annualized	3.00	0.68	\$18.96	\$34.36	\$0.00	\$53.32	\$65.52	\$78.67
Toilet (vacuum breaker type), annualized	8.00	1.42	\$67.53	\$71.18	\$0.00	\$138.72	\$166.83	\$198.31
Lavatories, annualized	8.00	2.78	\$47.72	\$165.63	\$0.00	\$213.35	\$267.81	\$324.65
Drink fountain, annualized	2.00	1.24	\$41.45	\$62.55	\$0.00	\$104.00	\$126.91	\$151.90
Water cooling tower, up to 50 tons, annualized	2.00	9.10	\$52.57	\$546.22	\$0.00	\$598.79	\$767.92	\$939.67
Chiller, recip., water cooled, up to 50 tons, annualized	2.00	15.89	\$54.59	\$960.29	\$0.00	\$1,014.88	\$1,308.43	\$1,604.71
Fire pump, electric motor driven, annualized	1.00	47.75	\$53.08	\$2,841.22	\$0.00	\$2,894.30	\$3,751.98	\$4,612.31
Circuit breaker, high voltage air, annualized	1.00	0.47	\$15.16	\$31.08	\$0.00	\$46.24	\$57.08	\$68.67
Panelboard, 225 A and above, annualized	4.00	1.76	\$92.79	\$116.03	\$0.00	\$208.82	\$252.91	\$301.64
Refrigerator freezer, walk-in box w/external condenser, annualized	12.00	17.59	\$2,489.11	\$602.78	\$0.00	\$3,091.90	\$3,521.64	\$4,075.84
Fluid cooler, annualized	1.00	1.12	\$39.43	\$67.84	\$0.00	\$107.27	\$131.56	\$157.83
VAV Boxes, annualized	14.00	13.08	\$134.46	\$789.38	\$0.00	\$923.84	\$1,174.10	\$1,431.08
Fan, axial, up to 5,000 CFM, annualized	4.00	4.98	\$46.91	\$250.20	\$0.00	\$297.11	\$376.87	\$458.96
Dehumidifier, desiccant wheel, annualized	1.00	5.06	\$73.30	\$253.73	\$0.00	\$327.03	\$410.47	\$497.59
Transformer, dry type 500 KVA and over, annualized	4.00	3.08	\$60.62	\$203.06	\$0.00	\$263.68	\$330.66	\$400.67
Controls, central system, electro/pneumatic, annualized	1.00	1.92	\$70.77	\$115.41	\$0.00	\$186.18	\$227.88	\$273.12
Fan, centrifugal, up to 5,000 CFM, annualized	2.00	2.16	\$71.78	\$108.36	\$0.00	\$180.14	\$219.83	\$263.11
Fire dampers, annualized	4.00	4.63	\$36.60	\$278.40	\$0.00	\$314.99	\$402.17	\$491.18
Air filter, electrostatic, annualized	4.00	30.41	\$40.64	\$1,532.94	\$0.00	\$1,573.58	\$2,037.53	\$2,503.51
						\$13,460.32	\$16,755.51	\$20,236.43

FAC 4311 COLD STORAGE, DEPOT
Modeled Component List
CostWorks Release 2021 Qtr 3

B20 Exterior Enclosure		
Aluminum Window, Fixed, 1st floor	8.0 Ea.	
Aluminum Window, Fixed, 2nd floor	14.0 Ea.	
Steel, Painted	1.0 Ea.	
Steel Single, Roll-Up	4.0 Ea.	
B30 Roofing		
Built-Up Roofing	151.0 Sq.	
C10 Interior Construction		
Concrete Block, Painted	45.0 C.S.F.	
Steel Painted Interior Doors	5.0 Ea.	
Solid Core Interior Doors	9.0 Ea.	
Fire Doors, Swinging, annualized	2.0 Each	
C30 Interior Finishes		
Concrete, Finished	152.3 C.S.F.	
Epoxy Flooring	12.0 C.S.F.	
Vinyl	71.8 S.Y.	
Carpet	153.4 S.Y.	
Gypsum Wall Board	6.4 C.S.F.	
Acoustic Tile, fire-rated	13.8 C.S.F.	
D20 Plumbing		
Tankless Water Closet	8.0 Ea.	
Urinal	3.0 Ea.	
Lavatory, Vitreous China	8.0 Ea.	
Sink, Iron Enamel	1.0 Ea.	
Drinking Fountain	2.0 Ea.	
Emergency Shower Station	1.0 Ea.	
Emergency Eye Wash	1.0 Ea.	
Water Heater, Electric, 120 Gallon	1.0 Ea.	
Drain: Roof, Scupper, Area	5.0 Ea.	
D30 HVAC		
Cooling Tower, 50 ton	2.0 Ea.	
Chiller, Water Cooled, Reciprocating, 50 ton	2.0 Ea.	
Circulator Pump, 1/12 - 3/4 H.P.	2.0 Ea.	
VAV Box	14.0 Each	
D40 Fire Protection		
Sprinkler System, Fire Suppression, sprinkler head	50.0 Ea.	
Fire Pump Electric Motor	1.0 Ea.	
Fire Pump, Electric, annualized	1.0 Each	
D50 Electrical		
Switchgear, Mainframe	1.0 Ea.	
Motor Starter, Up To 600 V	6.0 Ea.	
Load Center, 100 A, maintenance & inspection	1.0 Ea.	
Circuit Breaker, enclosed, 600 V, 3 pole	1.0 Ea.	
Smoke Detector	35.0 Ea.	
Manual Pull Station	4.0 Ea.	
Fire Alarm Bell	4.0 Ea.	
Electrical Service Ground	1.0 M.L.F.	
Building Structure Ground	1.0 M.L.F.	
Lightning Protection System	1.0 M.L.F.	
Lightning Ground Rod	1.0 Ea.	
Emergency Lighting Fixture	30.0 Ea.	
Exit Light	30.0 Ea.	

E10 Equipment

Refrigerator freezer, walk-in, annualized

12.0 Each

FAC 4311 COLD STORAGE, DEPOT
Sustainment by Year
CostWorks Release 2021 Qtr 3

