



Final Estimate

Mark Holmes

F.H. Paschen

20-16 - 2020 City of Aurora JOC F.H. Paschen - Basic Contract Year -

10/01/2020 to 9/30/2021

Aurora Central Fire Station Washroom Renovation - 4623-028

Estimator: Mark Holmes

Aurora Central Fire Station Washroom Renovation

Division Summary (MF04)

01 - General Requirements	\$8,526.00
02 - Existing Conditions	\$7,950.00
03 - Concrete	
04 - Masonry	
05 - Metals	\$161.00
06 - Wood, Plastics, and Composites	
07 - Thermal and Moisture Protection	\$558.90
08 - Openings	\$4,529.80
09 - Finishes	\$15,518.58
10 - Specialties	\$8,800.00
11 - Equipment	
12 - Furnishings	\$2,001.00
13 - Special Construction	
14 - Conveying Equipment	
21 - Fire Suppression	
22 - Plumbing	\$58,433.57
23 - Heating, Ventilating, and Air-Conditioning (HVAC)	\$57.00
25 - Integrated Automation	

Totalling Components

Priced Line Items	\$141,476.55
RSMeans CHICAGO, IL CCI 2021Q1, 121.60%	\$30,558.93

26 - Electrical	
27 - Communications	
28 - Electronic Safety and Security	
31 - Earthwork	
32 - Exterior Improvements	
33 - Utilities	
34 - Transportation	
35 - Waterway and Marine Transportation	
41 - Material Processing and Handling Equipment	
44 - Pollution Control Equipment	
46 - Water and Wastewater Equipment	
48 - Electric Power Generation	
Alternate	\$33,536.30
Trades	\$1,404.40
Assemblies	
FMR	
MF04 Total (Without totalling components)	\$141,476.55

2020 City of Aurora JOC F.H. Paschen Standard (-7.0000%)	\$(12,042.48)
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Grand Total

\$159,993.00

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Item	Description	UM	Quantity	Unit Cost	Total	Book
01 - General Requirements						
1	01-21-53-50-1400-L Cost adjustment factors, material handling & storage limitation, add to construction costs for particular job requirements, minimum Material hauling upstairs to project area	Costs	160,000.0000	1.0000%	\$1,600.00	RSM20MCOM L, O&P
2	01-21-53-50-1700-M Cost adjustment factors, protection of existing work, add to construction costs for particular job requirements, minimum Protect exisitng conditions during construction	Costs	160,000.0000	2.0000%	\$3,200.00	RSM20MCOM M, O&P
3	01-54-36-50-1200 Mobilization or demobilization, delivery charge for small equipment, placed in rear of, or towed by pickup truck Mobilization and demobilization of each trade	Ea.	18.0000	\$207.00	\$3,726.00	RSM20MCOM L, E, O&P
01 - General Requirements Total					\$8,526.00	
02 - Existing Conditions						
4	02-41-19-19-0725 Selective demolition, rubbish handling, dumpster, 20 C.Y., 5 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost Dumpsters for the duration of the project	Week	6.0000	\$625.00	\$3,750.00	RSM20MCOM M, O&P
5	02-41-19-19-2000 Selective demolition, rubbish handling, 0'-50' haul, load, haul, dump and return, hand carried, cost to be added to demolition cost hauling demo debris to dumpster	C.Y.	100.0000	\$42.00	\$4,200.00	RSM20MCOM L, O&P
02 - Existing Conditions Total					\$7,950.00	
05 - Metals						
6	05-12-23-65-0050 Steel plate, structural, for connections & stiffeners, 1/8" T, shop fabricated, incl shop primer Line item used to furnish and install (4) Rakks EH series in wall brackets to support new solid surface countertop	S.F.	20.0000	\$8.05	\$161.00	RSM20MCOM Grn, M, O&P
05 - Metals Total					\$161.00	
07 - Thermal and Moisture Protection						
7	07-92-13-20-0065 Joint sealants, caulking and sealants, bulk acrylic latex, 1/4" x 1/2", in place misc caulking at shower surround, countertop seams, etc.	L.F.	230.0000	\$2.43	\$558.90	RSM20MCOM M, L, O&P
07 - Thermal and Moisture Protection Total					\$558.90	
08 - Openings						
8	08-12-13-13-0025 Frames, steel, knock down, hollow metal, single, 16 ga., up to 5-3/4" deep, 3'-0" x 6'-8" New single door frame for women`s washroom	Ea.	1.0000	\$320.00	\$320.00	RSM20MCOM M, L, O&P
9	08-12-13-13-0040 Frames, steel, knock down, hollow metal, double, 16 ga., up to 5-3/4" deep, 6'-8" h x 6'-0" w Replace double acting HM door frame	Ea.	1.0000	\$375.00	\$375.00	RSM20MCOM M, L, O&P

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08 - Openings

Item	Description	UM	Quantity	Unit Cost	Total	Book
10 08-14-16-09-0180	Door, wood, architectural, flush, interior, hollow core, 7 ply, birch face, 3'-0" x 6'-8" x 1-3/8" thick Furnish and install three (2) new red oak doors. (1) women's washroom (2) new entry double door	Ea.	3.0000	\$186.00	\$558.00	RSM20MCOM M, L, O&P
11 08-71-20-30-0020	Door hardware, door closer, rack and pinion, adjustable backcheck, 3 way mount, all sizes, regular arm Furnish and install new washroom door closer	Ea.	1.0000	\$340.00	\$340.00	RSM20MCOM M, L, O&P
12 08-71-20-30-1520	Door hardware, door closer, rack and pinion, backcheck, overhead concealed, all sizes, regular arm Furnish and install new concealed closers for double door	Ea.	2.0000	\$385.00	\$770.00	RSM20MCOM M, L, O&P
13 08-71-20-41-0011	Door hardware, deadlocks, mortise, heavy duty Furnish and install new deadbolt lockset for women's washroom	Ea.	1.0000	\$284.00	\$284.00	RSM20MCOM M, L, O&P
14 08-71-20-50-1300	Door hardware, doorstops, holder and bumper, for wall, with rubber pad, aluminum, 4" dia. Furnish and install new door stops at washroom and double doors	Ea.	5.0000	\$35.00	\$175.00	RSM20MCOM M, L, O&P
15 08-71-20-55-0110	Door hardware, push plate, aluminum, 0.050" thick x 4" x 16" Furnish and install new push/pull at washroom	Ea.	2.0000	\$62.00	\$124.00	RSM20MCOM M, L, O&P
16 08-71-20-55-0120	Door hardware, push plate, aluminum, 0.050" thick x 8" x 16" Furnish and install new push/pull at double door	Ea.	4.0000	\$64.00	\$256.00	RSM20MCOM M, L, O&P
17 08-71-20-90-0040	Door hardware, hinges, full mortise, average frequency, steel base, US26D, 4-1/2" x 4-1/2" Furnish and install new hinges	Pr.	4.5000	\$78.00	\$351.00	RSM20MCOM M, O&P
18 08-71-20-90-0040-0900	Door hardware, hinges, full mortise, average frequency, for non-removable pin, add (Modified using 08-71-20-90-0900) Furnish and install new hinges	Ea.	4.5000	\$6.40	\$28.80	RSM20MCOM M, O&P
19 08-71-20-95-0070	Door hardware, kick plate, stainless steel, .05", 16 ga, 10" x 34" Furnish and install new kick plates at double door and washroom	Ea.	6.0000	\$158.00	\$948.00	RSM20MCOM M, L, O&P

08 - Openings Total

\$4,529.80

09 - Finishes

20 09-21-16-33-3800	Partition wall, interior, standard, taped both sides, installed on & incl. 25 ga, NLB metal studs, 3-5/8" wide, 16" OC, 8' to 12' high, 5/8" gypsum drywall Infill one (1) door opening and backside of one shower	S.F.	80.0000	\$5.05	\$404.00	RSM20MCOM M, L, O&P
21 09-28-13-10-0160	Cementitious backerboard, on wall, 3' x 5' x 1/2" sheet Furnish and install new cementitious backboard at door infill and backside of one shower	S.F.	80.0000	\$4.52	\$361.60	RSM20MCOM M, L, O&P
22 09-29-10-30-3050	Gypsum wallboard, on ceilings, standard, taped & finished (level 4 finish), 5/8" thick Furnish and install new gyp bd ceiling in (2) washrooms	S.F.	250.0000	\$2.09	\$522.50	RSM20MCOM M, L, O&P

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09 - Finishes

Item	Description	UM	Quantity	Unit Cost	Total	Book
23 09-30-13-45-0100	Spacers, 1/8" Ceramic tile wall spacers	C	300.0000	\$2.50	\$750.00	RSM20MCOM M, O&P
24 09-32-13-10-2700	Ceramic tile, bullnose trim, mud set, 2" x 6" Furnish and install new schulter metal on all outside corners	L.F.	50.0000	\$17.65	\$882.50	RSM20MCOM M, L, O&P
25 09-32-13-10-6210	Ceramic tile, for walls, mud set, better grade, 4-1/4" x 4-1/4" Remove existing ceramic wall tile and furnish and install new 12"x24" ceramic wall tile 4' AFF.	S.F.	280.0000	\$22.00	\$6,160.00	RSM20MCOM M, L, O&P
26 09-32-13-10-6210-7000	Ceramic tile, for epoxy grout, 1/16" joints, 4-1/4" tile, add (Modified using 09-32-13-10-7000) Remove existing ceramic wall tile and furnish and install new 12"x24" ceramic wall tile 4' AFF.	S.F.	280.0000	\$1.76	\$492.80	RSM20MCOM M, L, O&P
27 09-53-23-30-0320	Ceiling suspension system, steel, 25% recycled, 2' x 2' grid Remove and replace ACT ceiling in the locker room and the space below the washrooms.	S.F.	1,750.0000	\$2.22	\$3,885.00	RSM20MCOM Grn, M, L, O&P
28 09-53-23-30-1040	Hanging wire, 4' long, 12 gauge Hang wire for new ACT grid	C.S.F.	17.5000	\$13.25	\$231.88	RSM20MCOM M, L, O&P
29 09-77-30-10-0030	Fiberglass reinforced plastic panel, on walls, adhesive mounted, smooth surface, .090" thick Furnish and install new FRP behind slop sink.	S.F.	25.0000	\$3.62	\$90.50	RSM20MCOM M, L, O&P
30 09-77-30-10-0030-0170	Fiberglass reinforced plastic panel, on walls, .090" thick, for moldings, add (Modified using 09-77-30-10-0170) Furnish and install new FRP behind slop sink.	L.F.	10.0000	\$2.88	\$28.80	RSM20MCOM M, L, O&P
31 09-91-23-35-0130	Paints & coatings, interior latex, doors, flush, both sides, roll & brush, primer + 1 coat, incl. frame & trim Paint HM door frames (2) washrooms and (1) double door	Ea.	4.0000	\$86.50	\$346.00	RSM20MCOM M, L, O&P
32 09-91-23-72-0840	Paints & coatings, walls & ceilings, interior, concrete, drywall or plaster, latex paint, 2 coats, smooth finish, roller Paint gypsum board walls and ceilings	S.F.	1,450.0000	\$0.83	\$1,203.50	RSM20MCOM M, L, O&P
33 09-91-23-72-0840-1800	Paints & coatings, walls & ceilings, interior, for ceiling installation, add (Modified using 09-91-23-72-1800) Paint gypsum board walls and ceilings	S.F.	1,450.0000	\$0.11	\$159.50	RSM20MCOM L, O&P
09 - Finishes Total					\$15,518.58	

10 - Specialties

34 10-21-13-13-2500	Partitions toilet cubicles, floor anchored, headrail braced, powder coated steel Remove and repalce (2) toilet partitions, headrail braced - powder coated steel	Ea.	2.0000	\$640.00	\$1,280.00	RSM20MCOM M, L, O&P
35 10-28-19-10-3000	Shower/dressing compartments, shower enclosure, marble, stock design w/curtain, excludes plumbing Line item used to furnish and install solid surface shower surrounds in (2) showers.	Ea.	2.0000	\$3,150.00	\$6,300.00	RSM20MCOM M, L, O&P

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10 - Specialties

Item	Description	UM	Quantity	Unit Cost	Total	Book
36 10-28-19-10-3300	Shower, receptor, precast terrazzo, 48" x 34", excludes plumbing Furnish and install (2) terrazzo shower bases	Ea.	2.0000	\$610.00	\$1,220.00	RSM20MCOM M, L, O&P
10 - Specialties Total						\$8,800.00

12 - Furnishings

37 12-36-61-16-2100	Solid surface countertop, acrylic polymer, solid colors, pricing for orders of 1-50 LF, 25" wide Furnish and install new solid surface countertop roughly 9'	L.F.	9.0000	\$142.00	\$1,278.00	RSM20MCOM M, L, O&P
38 12-36-61-17-0015	Vanity top, solid surface, center bowl, 17" x19" Furnish and install (2) integral lavatory bowls	Ea.	3.0000	\$241.00	\$723.00	RSM20MCOM M, L, O&P
12 - Furnishings Total						\$2,001.00

22 - Plumbing

39 22-07-19-10-1016	Insulation, pipe covering (price copper tube one size less than I.P.S.), mineral wool, 1" wall, 1/2" iron pipe size, preformed, 1200<F, plain copper pipe insulation	L.F.	135.0000	\$7.75	\$1,046.25	RSM20MCOM M, L, O&P
40 22-07-19-10-1018	Insulation, pipe covering (price copper tube one size less than I.P.S.), mineral wool, 1" wall, 3/4" iron pipe size, preformed, 1200<F, plain copper pipe insulation	L.F.	75.0000	\$8.05	\$603.75	RSM20MCOM M, L, O&P
41 22-07-19-10-1022	Insulation, pipe covering (price copper tube one size less than I.P.S.), mineral wool, 1" wall, 1" iron pipe size, preformed, 1200<F, plain copper pipe insulation	L.F.	50.0000	\$8.40	\$420.00	RSM20MCOM M, L, O&P
42 22-07-19-10-1024	Insulation, pipe covering (price copper tube one size less than I.P.S.), mineral wool, 1" wall, 1-1/4" iron pipe size, preformed, 1200<F, plain copper pipe insulation	L.F.	50.0000	\$8.60	\$430.00	RSM20MCOM M, L, O&P
43 22-07-19-10-1026	Insulation, pipe covering (price copper tube one size less than I.P.S.), mineral wool, 1" wall, 1-1/2" iron pipe size, preformed, 1200<F, plain copper pipe insulation	L.F.	30.0000	\$8.50	\$255.00	RSM20MCOM M, L, O&P
44 22-07-19-10-1028	Insulation, pipe covering (price copper tube one size less than I.P.S.), mineral wool, 1" wall, 2" iron pipe size, preformed, 1200<F, plain copper pipe insulation	L.F.	30.0000	\$9.45	\$283.50	RSM20MCOM M, L, O&P
45 22-11-13-23-1140	Pipe, copper, tubing, solder, 1/2" diameter, type K, includes coupling & clevis hanger assembly 10' OC Furnish and install new copper pipe	L.F.	135.0000	\$15.70	\$2,119.50	RSM20MCOM M, L, O&P
46 22-11-13-23-1180	Pipe, copper, tubing, solder, 3/4" diameter, type K, includes coupling & clevis hanger assembly 10' OC Furnish and install new copper pipe	L.F.	75.0000	\$19.95	\$1,496.25	RSM20MCOM M, L, O&P

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22 - Plumbing

Item	Description	UM	Quantity	Unit Cost	Total	Book
47 22-11-13-23-1200	Pipe, copper, tubing, solder, 1" diameter, type K, includes coupling & clevis hanger assembly 10' OC Furnish and install new copper pipe	L.F.	50.0000	\$26.00	\$1,300.00	RSM20MCOM M, L, O&P
48 22-11-13-23-1220	Pipe, copper, tubing, solder, 1-1/4" diameter, type K, includes coupling & clevis hanger assembly 10' OC Furnish and install new copper pipe	L.F.	50.0000	\$30.50	\$1,525.00	RSM20MCOM M, L, O&P
49 22-11-13-23-1240	Pipe, copper, tubing, solder, 1-1/2" diameter, type K, includes coupling & clevis hanger assembly 10' OC Furnish and install new copper pipe	L.F.	30.0000	\$36.00	\$1,080.00	RSM20MCOM M, L, O&P
50 22-11-13-23-1260	Pipe, copper, tubing, solder, 2" diameter, type K, includes coupling & clevis hanger assembly 10' OC furnish and install new copper pipe	L.F.	30.0000	\$49.50	\$1,485.00	RSM20MCOM M, L, O&P
51 22-11-13-25-0680	Coupling, copper, wrought, copper x copper, 1/2" Copper fittings	Ea.	120.0000	\$36.00	\$4,320.00	RSM20MCOM M, L, O&P
52 22-11-13-25-0700	Coupling, copper, wrought, copper x copper, 3/4" Copper fittings	Ea.	30.0000	\$39.50	\$1,185.00	RSM20MCOM M, L, O&P
53 22-11-13-25-0710	Coupling, copper, wrought, copper x copper, 1" Copper fittings	Ea.	20.0000	\$49.00	\$980.00	RSM20MCOM M, L, O&P
54 22-11-13-25-0715	Coupling, copper, wrought, copper x copper, 1-1/4" Copper fittings	Ea.	20.0000	\$54.00	\$1,080.00	RSM20MCOM M, L, O&P
55 22-11-13-25-0716	Coupling, copper, wrought, copper x copper, 1-1/2" Copper fittings	Ea.	10.0000	\$63.50	\$635.00	RSM20MCOM M, L, O&P
56 22-11-13-25-0718	Coupling, copper, wrought, copper x copper, 2" Copper fittings	Ea.	10.0000	\$76.50	\$765.00	RSM20MCOM M, L, O&P
57 22-11-13-74-1910	Pipe, plastic, PVC, 2" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10' Furnish and install new waste and vent piping	L.F.	150.0000	\$37.00	\$5,550.00	RSM20MCOM M, L, O&P
58 22-11-13-74-1910-4140	Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Furnish and install new waste and vent piping	L.F.	150.0000	\$3.94	\$591.00	RSM20MCOM L, O&P
59 22-11-13-74-1910-5140	Labor adjustment factor (mechanical), general, add to labor for congested area, for Division 21, 22 and 23 only (Modified using 22-01-02-20-5140) Furnish and install new waste and vent piping	L.F.	150.0000	\$2.36	\$354.00	RSM20MCOM L, O&P
60 22-11-13-74-1930	Pipe, plastic, PVC, 3" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10' Furnish and install new waste and vent piping	L.F.	130.0000	\$50.50	\$6,565.00	RSM20MCOM M, L, O&P

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22 - Plumbing

Item	Description	UM	Quantity	Unit Cost	Total	Book
61	22-11-13-74-1930-4140 Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Furnish and install new waste and vent piping	L.F.	130.0000	\$4.38	\$569.40	RSM20MCOM L, O&P
62	22-11-13-74-1930-5140 Labor adjustment factor (mechanical), general, add to labor for congested area, for Division 21, 22 and 23 only (Modified using 22-01-02-20-5140) Furnish and install new waste and vent piping	L.F.	130.0000	\$2.63	\$341.90	RSM20MCOM L, O&P
63	22-11-13-74-1940 Pipe, plastic, PVC, 4" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10' Furnish and install new waste and vent piping	L.F.	70.0000	\$45.50	\$3,185.00	RSM20MCOM M, L, O&P
64	22-11-13-74-1940-4140 Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Furnish and install new waste and vent piping	L.F.	70.0000	\$4.84	\$338.80	RSM20MCOM L, O&P
65	22-11-13-74-1940-5140 Labor adjustment factor (mechanical), general, add to labor for congested area, for Division 21, 22 and 23 only (Modified using 22-01-02-20-5140) Furnish and install new waste and vent piping	L.F.	70.0000	\$2.90	\$203.00	RSM20MCOM L, O&P
66	22-11-13-76-3430 Coupling, plastic, PVC, white, socket joint, 2", schedule 40 PVC fittings	Ea.	40.0000	\$40.00	\$1,600.00	RSM20MCOM M, L, O&P
67	22-11-13-76-3450 Coupling, plastic, PVC, white, socket joint, 3", schedule 40 PVC fittings	Ea.	30.0000	\$69.00	\$2,070.00	RSM20MCOM M, L, O&P
68	22-11-13-76-3460 Coupling, plastic, PVC, white, socket joint, 4", schedule 40 PVC fittings	Ea.	15.0000	\$87.00	\$1,305.00	RSM20MCOM M, L, O&P
69	22-13-19-13-2040 Drain, floor, medium duty, cast iron, deep flange, 7" diameter top, 2" and 3" pipe size Furnish and install new floor drains	Ea.	2.0000	\$365.00	\$730.00	RSM20MCOM M, L, O&P
70	22-13-19-13-2040-4140 Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Furnish and install new floor drains	Ea.	2.0000	\$19.38	\$38.76	RSM20MCOM L, O&P
71	22-13-19-13-2040-5140 Labor adjustment factor (mechanical), general, add to labor for congested area, for Division 21, 22 and 23 only (Modified using 22-01-02-20-5140) Furnish and install new floor drains	Ea.	2.0000	\$11.63	\$23.26	RSM20MCOM L, O&P
72	22-41-39-10-2280 Faucets/fittings, lavatory faucet, center set with single control lever handle, satin nickel, with pop-up drain Furnish and install new faucets in locker room - integral bowls & women's washroom	Ea.	4.0000	\$425.00	\$1,700.00	RSM20MCOM M, L, O&P
73	22-41-39-10-4240 Faucets/fittings, shower pressure balancing mixing valve, chrome, with shower head, arm, flange and diverter tub spout Furnish nad install new shower valve with pressure balance valve	Ea.	2.0000	\$580.00	\$1,160.00	RSM20MCOM M, L, O&P

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22 - Plumbing

Item	Description	UM	Quantity	Unit Cost	Total	Book
74 22-41-39-10-4240-4140	Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Furnish nad install new shower valve with pressure balance value	Ea.	2.0000	\$21.00	\$42.00	RSM20MCOM L, O&P
75 22-41-39-10-4240-5140	Labor adjustment factor (mechanical), general, add to labor for congested area, for Division 21, 22 and 23 only (Modified using 22-01-02-20-5140) Furnish nad install new shower valve with pressure balance value	Ea.	2.0000	\$12.60	\$25.20	RSM20MCOM L, O&P
76 22-42-13-13-3350	Water closet, bowl only, floor mounted, tankless, with wall outlet, includes flush valve and seat Remove and replace (2) floor mount flush type water closets in men`s and provide (1) new in women`s	Ea.	3.0000	\$865.00	\$2,595.00	RSM20MCOM M, L, O&P
77 22-42-13-13-3350-4140	Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Remove and replace (2) floor mount flush type water closets in men`s and provide (1) new in women`s	Ea.	3.0000	\$40.00	\$120.00	RSM20MCOM L, O&P
78 22-42-13-13-3350-5140	Labor adjustment factor (mechanical), general, add to labor for congested area, for Division 21, 22 and 23 only (Modified using 22-01-02-20-5140) Remove and replace (2) floor mount flush type water closets in men`s and provide (1) new in women`s	Ea.	3.0000	\$24.00	\$72.00	RSM20MCOM L, O&P
79 22-42-13-16-3100	Urinal, wall hung, vitreous china, with self-closing valve, siphon jet type Remove and replace (2) urinals	Ea.	2.0000	\$810.00	\$1,620.00	RSM20MCOM M, L, O&P
80 22-42-13-16-3100-4140	Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Remove and replace (2) urinals	Ea.	2.0000	\$77.50	\$155.00	RSM20MCOM L, O&P
81 22-42-13-16-3100-5140	Labor adjustment factor (mechanical), general, add to labor for congested area, for Division 21, 22 and 23 only (Modified using 22-01-02-20-5140) Remove and replace (2) urinals	Ea.	2.0000	\$46.50	\$93.00	RSM20MCOM L, O&P
82 22-42-16-34-1050	Sink, laboratory, stainless steel, bench mounted with plug and waste fitting, backnut and strainer, single sink with 1-1/2" threads, two drainboards, 18-1/2" x 15-1/2" x 12-1/2" sink, 54" x 24" OD, includes faucet and drain Furnish and install one new lavatory in women washroom	Ea.	1.0000	\$1,725.00	\$1,725.00	RSM20MCOM M, L, O&P
83 22-42-16-40-6760	Sink, service, mop, molded stone, 24" x 36", includes faucet and drain Replace mok sink in mechanical room	Ea.	1.0000	\$535.00	\$535.00	RSM20MCOM M, L, O&P
84 22-42-16-40-6760-4140	Labor adjustment factor (mechanical), general, add to labor for working in existing occupied office building, for Division 21, 22 and 23 only (Modified using 22-01-02-20-4140) Replace mok sink in mechanical room	Ea.	1.0000	\$38.75	\$38.75	RSM20MCOM L, O&P
85 22-42-16-40-6760-5140	Labor adjustment factor (mechanical), general, add to labor for congested area, for Division 21, 22 and 23 only (Modified using 22-01-02-20-5140) Replace mok sink in mechanical room	Ea.	1.0000	\$23.25	\$23.25	RSM20MCOM L, O&P

Final Estimate

Estimator: Mark Holmes

Aurora Central Fire Station Washroom Renovation

22 - Plumbing

Item	Description	UM	Quantity	Unit Cost	Total	Book
86 22-42-16-40-6760-6790	Sink, service, floor, rough-in, supply, waste and vent (Modified using 22-42-16-40-6790) Replace mok sink in mechanical room	Ea.	1.0000	\$2,025.00	\$2,025.00	RSM20MCOM M, L, O&P
87 22-42-39-30-3600	Carriers/supports, lavatory, concealed arm, wall mounted, in stud or masonry, high back fixture Carrier for new lavatory fixture	Ea.	1.0000	\$510.00	\$510.00	RSM20MCOM M, L, O&P
88 22-42-39-30-6100	Carriers/supports, urinal, floor mounted, blowout type, 2" or 3" coupling, includes fixture or hanger bolts, blowout or washout New carriers for urinals	Ea.	2.0000	\$760.00	\$1,520.00	RSM20MCOM M, L, O&P
22 - Plumbing Total					\$58,433.57	

23 - Heating, Ventilating, and Air-Conditioning (HVAC)

89 23-37-13-30-0220	Grille, aluminum, air supply, adjustable, single deflection, 12" x 12" Furnish and install one (1) new exhaust grill.	Ea.	1.0000	\$57.00	\$57.00	RSM20MCOM M, L, O&P
23 - Heating, Ventilating, and Air-Conditioning (HVAC) Total					\$57.00	

Alternate

90 07-92-13-20-0065	Demo - Joint sealants, caulking and sealants, bulk acrylic latex, 1/4" x 1/2", in place misc caulking at shower surround, countertop seams, etc.	L.F.	500.0000	\$2.19	\$1,095.00	CUSTOM L, O&P
91 08-12-13-13-0040	Demo - Frames, steel, knock down, hollow metal, double, 16 ga., up to 5-3/4" deep, 6'-8" h x 6'-0" w Replace double acting HM door frame	Ea.	1.0000	\$93.40	\$93.40	CUSTOM L, O&P
92 08-14-16-09-0180	Demo - Door, wood, architectural, flush, interior, hollow core, 7 ply, birch face, 3'-0" x 6'-8" x 1-3/8" thick Furnish and install three (2) new red oak doors. (1) women's washroom (2) new entry double door	Ea.	2.0000	\$74.90	\$149.80	CUSTOM L, O&P
93 09-29-10-30-3050	Demo - Gypsum wallboard, on ceilings, standard, taped & finished (level 4 finish), 5/8" thick Furnish and install new gyp bd ceiling in (2) washrooms	S.F.	250.0000	\$1.67	\$417.50	CUSTOM L, O&P
94 09-32-13-10-6210	Demo - Ceramic tile, for walls, mud set, better grade, 4-1/4" x 4-1/4" Remove existing ceramic wall tile and furnish and install new 12"x24" ceramic wall tile 4' AFF. (Repriced 3/22/2021) Labor Adjustment: 100% of \$11.49 = \$11.49 ----- Using O&P Pricing Bare Costs: (M:\$9.55 L:\$7.90 E: O:50.00 LH:0.160) O&P Labor Calc = O&P Total - (Bare Material + 10.000%) - (Bare Equipment + 10.000%) \$22.00 - \$10.51 - \$0.00 = \$11.49 Labor w/CCI = \$11.49 * 100.000% = \$11.49	S.F.	280.0000	\$11.49	\$3,217.20	CUSTOM L, O&P

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Alternate

Item	Description	UM	Quantity	Unit Cost	Total	Book
95 09-32-13-10-6210-7300	Demo - Ceramic tile, for tile set in Portland cement mortar, add (Modified using 09-32-13-10-7300) Remove existing ceramic floor tile	S.F.	200.0000	\$3.59	\$718.00	CUSTOM L, O&P
96 09-53-23-30-0320	Demo - Ceiling suspension system, steel, 25% recycled, 2' x 2' grid Remove and replace ACT ceiling in the locker room and the space below the washrooms.	S.F.	1,750.0000	\$0.98	\$1,715.00	CUSTOM Grn, L, O&P
97 09-68-13-10-0100	Demo - Carpet tile, tufted nylon, hard back, 20 oz., 18" x 18" Remove existing carpet tile	S.Y.	42.0000	\$7.70	\$323.40	CUSTOM L, O&P
98 10-21-13-13-2500	Demo - Partitions toilet cubicles, floor anchored, headrail braced, powder coated steel Remove and repalce (2) toilet partitions, headrail braced - powder coated steel	Ea.	2.0000	\$216.50	\$433.00	CUSTOM L, O&P
99 10-28-13-13-0300	Toilet accessories, shower curtain rod, chrome, 1-1/4" diameter x 5' Install only oof shower curtain rods	Ea.	2.0000	\$49.10	\$98.20	CUSTOM L, O&P
100 10-28-13-13-0610	Toilet accessories, dispenser units, towel dispenser & waste receptacle, 18 gallon capacity Install only of paper towel dispensers	Ea.	4.0000	\$68.50	\$274.00	CUSTOM L, O&P
101 10-28-13-13-3100	Toilet accessories, mirror, 36" x 24", with stainless steel 3/4" square frame Install only of 4 new mirrors	Ea.	4.0000	\$157.00	\$628.00	CUSTOM M, L, O&P
102 10-28-13-13-4300	Demo - Toilet accessories, robe hook, regular, single remove existing robe hooks in washroom	Ea.	2.0000	\$6.45	\$12.90	CUSTOM L, O&P
103 10-28-13-13-4600	Toilet accessories, soap dispenser, chrome, surface mounted, liquid Install only of soap dispensers	Ea.	4.0000	\$96.00	\$384.00	CUSTOM M, L, O&P
104 10-28-13-13-6100	Toilet accessories, toilet tissue dispenser, stainless steel, surface mounted, single roll Install only of toilet paper dispensers	Ea.	3.0000	\$39.00	\$117.00	CUSTOM M, L, O&P
105 10-28-19-10-0440	Demo - Shower compartment, floor mounted, cabinet, no door, fiberglass, 36" x 48", includes bases, excludes plumbing Remove and dispoee of two (2) existing shower compartments	Ea.	2.0000	\$262.50	\$525.00	CUSTOM L, O&P
106 10-28-19-10-3300	Demo - Shower, receptor, precast terrazzo, 48" x 34", excludes plumbing Furnish and install (2) terrazzo shower bases	Ea.	2.0000	\$126.00	\$252.00	CUSTOM L, O&P
107 10-57-13-10-2500	Demo - Wardrobe cabinet, hospital type with door, KD, hardwood, 24" x 24" x 76"h Remove and dispose of millwork in storage closet	Ea.	10.0000	\$325.00	\$3,250.00	CUSTOM L, O&P
108 12-36-61-16-2100	Demo - Solid surface countertop, acrylic polymer, solid colors, pricing for orders of 1-50 LF, 25" wide Furnish and install new solid surface countertop roughly 9'	L.F.	9.0000	\$65.00	\$585.00	CUSTOM L, O&P
109 22-07-19-10-1016	Demo - Insulation, pipe covering (price copper tube one size less than I.P.S.), mineral wool, 1" wall, 1/2" iron pipe size, preformed, 1200<F, plain	L.F.	135.0000	\$5.64	\$761.40	CUSTOM L, O&P

Final Estimate

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Aurora Central Fire Station Washroom Renovation

Alternate

Item	Description	UM	Quantity	Unit Cost	Total	Book
	copper pipe insulation					
110 22-07-19-10-1018	Demo - Insulation, pipe covering (price copper tube one size less than I.P.S.), mineral wool, 1" wall, 3/4" iron pipe size, preformed, 1200<F, plain copper pipe insulation	L.F.	75.0000	\$5.90	\$442.50	CUSTOM L, O&P
111 22-07-19-10-1022	Demo - Insulation, pipe covering (price copper tube one size less than I.P.S.), mineral wool, 1" wall, 1" iron pipe size, preformed, 1200<F, plain copper pipe insulation	L.F.	50.0000	\$6.14	\$307.00	CUSTOM L, O&P
112 22-07-19-10-1024	Demo - Insulation, pipe covering (price copper tube one size less than I.P.S.), mineral wool, 1" wall, 1-1/4" iron pipe size, preformed, 1200<F, plain copper pipe insulation	L.F.	50.0000	\$6.28	\$314.00	CUSTOM L, O&P
113 22-07-19-10-1026	Demo - Insulation, pipe covering (price copper tube one size less than I.P.S.), mineral wool, 1" wall, 1-1/2" iron pipe size, preformed, 1200<F, plain copper pipe insulation	L.F.	30.0000	\$6.31	\$189.30	CUSTOM L, O&P
114 22-07-19-10-1028	Demo - Insulation, pipe covering (price copper tube one size less than I.P.S.), mineral wool, 1" wall, 2" iron pipe size, preformed, 1200<F, plain copper pipe insulation	L.F.	30.0000	\$6.49	\$194.70	CUSTOM L, O&P
115 22-11-13-23-1140	Demo - Pipe, copper, tubing, solder, 1/2" diameter, type K, includes coupling & clevis hanger assembly 10' OC Furnish and install new copper pipe	L.F.	135.0000	\$9.87	\$1,332.45	CUSTOM L, O&P
116 22-11-13-23-1180	Demo - Pipe, copper, tubing, solder, 3/4" diameter, type K, includes coupling & clevis hanger assembly 10' OC Furnish and install new copper pipe	L.F.	75.0000	\$10.43	\$782.25	CUSTOM L, O&P
117 22-11-13-23-1220	Demo - Pipe, copper, tubing, solder, 1-1/4" diameter, type K, includes coupling & clevis hanger assembly 10' OC Furnish and install new copper pipe	L.F.	50.0000	\$13.67	\$683.50	CUSTOM L, O&P
118 22-11-13-23-1240	Demo - Pipe, copper, tubing, solder, 1-1/2" diameter, type K, includes coupling & clevis hanger assembly 10' OC Furnish and install new copper pipe	L.F.	30.0000	\$15.54	\$466.20	CUSTOM L, O&P
119 22-11-13-23-1260	Demo - Pipe, copper, tubing, solder, 2" diameter, type K, includes coupling & clevis hanger assembly 10' OC furnish and install new copper pipe	L.F.	30.0000	\$19.80	\$594.00	CUSTOM L, O&P
120 22-11-13-74-1910	Demo - Pipe, plastic, PVC, 2" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10' Furnish and install new waste and vent piping	L.F.	150.0000	\$23.63	\$3,544.50	CUSTOM L, O&P
121 22-11-13-74-1930	Demo - Pipe, plastic, PVC, 3" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10' Furnish and install new waste and vent piping	L.F.	130.0000	\$26.30	\$3,419.00	CUSTOM L, O&P
122 22-11-13-74-1940	Demo - Pipe, plastic, PVC, 4" diameter, schedule 40, includes couplings 10' OC, and hangers 3 per 10' Furnish and install new waste and vent piping	L.F.	70.0000	\$29.22	\$2,045.40	CUSTOM L, O&P

Final Estimate

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Aurora Central Fire Station Washroom Renovation

Alternate							
Item	Description	UM	Quantity	Unit Cost	Total	Book	
123 22-13-19-13-2040	Demo - Drain, floor, medium duty, cast iron, deep flange, 7" diameter top, 2" and 3" pipe size Furnish and install new floor drains	Ea.	2.0000	\$115.30	\$230.60	CUSTOM L, O&P	
124 22-41-39-10-2280	Demo - Faucets/fittings, lavatory faucet, center set with single control lever handle, satin nickel, with pop-up drain Furnish and install new faucets in locker room - integral bowls	Ea.	4.0000	\$117.00	\$468.00	CUSTOM L, O&P	
125 22-41-39-10-4240	Demo - Faucets/fittings, shower pressure balancing mixing valve, chrome, with shower head, arm, flange and diverter tub spout Furnish nad install new shower valve with pressure balance valve	Ea.	2.0000	\$123.50	\$247.00	CUSTOM L, O&P	
126 22-42-13-13-3350	Demo - Water closet, bowl only, floor mounted, tankless, with wall outlet, includes flush valve and seat Remove and replace (2) floor mount flush type water closets in men`s and provide (1) new in women`s	Ea.	2.0000	\$238.00	\$476.00	CUSTOM L, O&P	
127 22-42-13-16-3100	Demo - Urinal, wall hung, vitreous china, with self-closing valve, siphon jet type Remove and replace (2) urinals	Ea.	2.0000	\$463.50	\$927.00	CUSTOM L, O&P	
128 22-42-16-40-6760	Demo - Sink, service, mop, molded stone, 24" x 36", includes faucet and drain Replace mok sink in mechanical room	Ea.	1.0000	\$228.10	\$228.10	CUSTOM L, O&P	
129 23-33-46-10-2891	Ductwork, flexible aluminum, insulated, with, P.E. jacket, 3/4 lb., 1" thick, 4" diameter, pressure to 12"(WG) UL-181 Material only to extend ductwork	L.F.	10.0000	\$4.70	\$47.00	CUSTOM Grn, M, O&P	
130 32-33-43-13-1080	Site seating, backless mall bench, recycled plastic, various colors, 8' long Labor only to remove and reinstall (3) wood benches	Ea.	3.0000	\$258.00	\$774.00	CUSTOM Grn, L, O&P	
131 32-33-43-13-1080	Demo - Site seating, backless mall bench, recycled plastic, various colors, 8' long Labor only to remove and reinstall (3) wood benches	Ea.	3.0000	\$258.00	\$774.00	CUSTOM Grn, L, O&P	
Alternate Total						\$33,536.30	
Trades							
132 PORD	Painters, Ordinary - 2021 RSMeans Facilities O&P Rate Labor hours only to remove, sand down, refinish adn reinstall two (2) existing wood doors	Hour	8.0000	\$73.55	\$588.40	Trades L, O&P	
133 SHEE	Sheet Metal Workers - 2021 RSMeans Facilities O&P Rate Labor to extend duct from existing men`s room exhaust to new women`s room.	Hour	8.0000	\$102.00	\$816.00	Trades L, O&P	
Trades Total						\$1,404.40	
Estimate Grand Total						159,993.00	