

Part 1 GENERAL

1.1 RELATED WORK

- .1 Section 06 10 00 (blocking and backing for attachment of items specified in this Section).

1.2 REGULATORY REQUIREMENTS

- .1 All items supplied are to be CSA approved.

1.3 SUBMITTALS

- .1 Submit shop drawings, product data, and operation & maintenance data, to requirements of Section 01 33 00.

1.4 WARRANTY

- .1 Provide a written minimum one (1) year manufacturer's warranty against any defects in materials or manufacture, from Date of Substantial Performance, for each product.
- .2 Provide a written one (1) year warranty against any defects in installation or workmanship, from the Date of Substantial Performance.

Part 2 PRODUCTS

The following is an itemized list of products followed by required specifications for each of these products.

2.1	HDPE Toilet Partitions & Urinal Screens	2.15	Fire Extinguishers
2.2	Metal Lockers	2.16	Locker Room Benches
2.3	Commercial Washroom Accessories	2.17	Bulletin Boards
2.4	Janitor Storage	2.18	Parapet Crossover Stair
2.5	Baby Change Station		
2.6	Accessible Shower Stall Accessories		
2.7	Roof Access Hatch		
2.8	Interior Signage		
2.9	Exterior and Interior Cut Letters/Numbers		
2.10	Expansion Joint Covers		
2.11	Recessed Walk Off Mat		
2.12	Vent Louvres		
2.13	TV Mount		
2.14	Fire Rated Access Hatches		

2.1 HDPE POLYMER TOILET PARTITIONS, URINAL SCREENS, & CHANGE ROOM SCREENS

- .1 Style: floor-mounted toilet partitions & Change room screens, overhead braced with extruded aluminum anti-grip rail, wall-mounted urinal screens, and a 25-year manufacturer's warranty. Acceptable products: Hiny Hiders by Scranton Products (tel: 1.800.445.5148), OR Solid Plastic by Hadrian Manufacturing Inc. (tel: 1.888.817.7701). Colours to be selected from full standard range by Contract Administrator.
- .2 Components: high density polyethylene (HDPE), certified Class B solid plastic to ASTM E 84, 25 (1") thick panels with 6 (1/4") radius edges, homogeneous colour throughout, and minimum 25% recycled content. Hinges to be full height, stealth integral 14 ga. hinges. Door strike, keeper, latch and housing, to be of heavy-duty extruded aluminium with a bright dip anodized finish. Coat hook/bumper and 140mm long door D-pulls each side of door, to be chrome-plated zamak. Fasteners: stainless steel, tamper resistant, Torx head sex bolts.
- .3 Locations: refer to layouts in Washrooms and Change Rooms, as shown on drawings.

2.2 METAL LOCKERS

- .1 Stainless steel to ASTM A 167, Type 304. Min. 16-gauge double pan textured doors and polished frames, minimum 20-gauge tops, bottoms, fully ventilated backs, and shelves, and min. 24-gauge sides. Stainless steel locker base, door pull, handle, and 11-ga. x 13mm dia. rod locker hooks. Spring-loaded, self-closing hinges with non-removable pin. Factory assembled with riveted frames and doors to body module. Stainless steel finished end panels, plastic locker number plates, and accessibility to meet ICC/ANSI A117.1.
- .2 Acceptable products: 'Ambassador series' by Canadian Locker Co. Ltd. (tel: 1.800.494.9073), or 'President Coin Locker series' by Shanahan's Ltd.
- .3 Dimensions: 300mm (12") wide x 457mm (18") deep x 1829mm (72") high typical, in both 1-tier and 2-tier styles; refer to drawings for locations, layouts, combinations, and quantities.
- .4 Stainless steel locks: coin activated with a key to program for either coin return or coin keep.

2.3 COMMERCIAL WASHROOM ACCESSORIES

	Frost	ASI	Bobrick	Bradley	Comments:
Fixed Mirrors					Above vanity – see Int. Elevations & Sect. 08 80 00
Toilet Paper Dispenser					Supply & install by The City; 1 @ each toilet
Wall mounted Soap Dispensers					Supply & install by The City; 1 @ each sink
Semi-recessed waste receptacle	330	20458	B-43644	346-10	One @ each Washroom & Change room (7 total)
Sanitary Napkin Disposal	622	0852	B-270	4781-15	One at each female toilet (8 total)
Sanitary Napkin Vendor (surface mount, coin operated)	608-3	204684-9	B-47069 25	4A20-11	1 @ female Washroom, each Universal Toilet Room & Change Room (6 total)
Horiz. Grab Bars – 900 & 600mm long w/ peened safety grip	1001	3100-P	B-5806.99	832-001-36" & 24"	1 set of each size @ each accessible toilet stall (5 sets total)
Vert. Grab Bars – 600mm long w/ peened grip	1001	3100-P	B-5806.99	832-001-24"	1 each side of a urinal (4 total)
Shower Curtain Rod – (length to suit shower stall & support bracket)	1144	1204	B-6047		in each Universal Change Room (4 total)
Shower Curtains and Curtain Hooks	1144-503 & 501L	1200-V & 1200 SHU	B-204-3 & 204-1		in each Universal Change Room (4 total)
Accessible Folding shelf	955	0698	B-287	790	1 @ each accessible toilet (5 total)
Recessed soap dish	1132HD	140	B-4380	SA16	1 @ each accessible shower stall (4 total)
Safety Coat/Robe Hooks-stainless steel	1150SS	123	B-983	SA36	1 @ each accessible toilet and in Shower 111 (12 total)
Soap & shampoo (2 compartment) dispenser	Locking iQuon Dispenser model 8623 or Aviva II model 37244 (translucent bottle)				1 @ each Universal Change room shower, and in Shower 111 (7 total)
Electric Hand Dryers					See Electrical dwgs & spec; provide wd. blocking in stud walls, where applicable

2.4 JANITOR STORAGE

Description	Manufacturer's Products No.				Comments
	Frost	Watrous	Bobrick	Bradley	
Mop Strip & utility Shelf	1115	W-1315A	B-239	9983	8" Utility Shelf, provide one in each Janitor Room

2.5 BABY CHANGE STATIONS

- .1 Surface, wall-mounted horizontal, fold-up baby change station to comply with static load performance requirements in ASTM F 2285-04. Include nylon safety straps, bag hooks, and safety messages. Finish to be FDA-approved, moulded high-density polyethylene with Microban antimicrobial interior, in a cream colour. Acceptable products: Koala Kare KB200 series, DDK Diaper Deck, Frost #1125, or ASI #9012. Locations: surface wall-mounted in each Washroom & Change Room; refer to drawings (6 total).

2.6 ACCESSIBLE SHOWER STALL AND CHANGE ROOM ACCESSORIES

- .1 Wall supported, heavy-duty, rectangular phenolic fold-up shower seat with swing-down legs, able to support 2.7 kN (600 lbs.) minimum and to satisfy MBC requirements. Metal support frame and legs to be of 18-8 alloy, type 304 stainless steel tubing, with #4 satin finish. All joints to be welded and all exposed edges and corners to be radiused and/or deburred. Support arm shall fold up when in retracted position to provide a low profile against wall. No extra fittings shall be required to keep seat in the storage position. Guide bracket shall control seat lowering into operating position. Seat of minimum 8mm (5/16") thick solid phenolic slats, fire and mildew resistant, with wood grain colour on top and bottom surfaces; minimum overall size to be 450 (18") wide x 400mm (15 3/4") deep. Acceptable products: Model #APFSSB2-180150PT by Freedom Showers, tel: 1.877.947.7769, Model #63-PH1451815WLEG by Elcoma Metal Fabricating, tel. 1.800.352.6625, .. Quantity: 4 total; refer to drawings for locations.
- .2 90-degree wall-supported grab bar on long wall of each accessible shower stall: 32 (1 1/4") o.d., 18-8 type 304 18-gauge stainless steel tubing with satin finish and peened gripping surface. Concealed mounting flanges, snap flange covers of same material and finish, and mounting kit. Grab bar shall resist minimum load of 2.0 kN (450 lbs.) in any direction. 915 (36") horizontal x 762 (30") vertical. Acceptable products: 'C08 90-degree L-shape' and 'C09 90-degree L-shape' by Gallery Specialty Hardware Ltd. Quantity: 2 of each (4 total).
- .3 Straight wall-supported grab bar on end wall of each accessible shower stall: 32 (1 1/4") o.d., 18-8 type 304 18-gauge stainless steel tubing with satin finish and peened gripping surface. Concealed mounting flanges, snap flange covers of same material and finish, and mounting kit. Grab bar shall resist minimum load of 2.0 kN (450 lbs.) in any direction. 762 (30") long. Acceptable products: 'C05' by Gallery Specialty Hardware Ltd. Quantity: 4 total.
- .4 90-degree wall-supported grab bar on end wall at each change bench in Change Rooms: 32 (1 1/4") o.d., 18-8 type 304 18-gauge stainless steel tubing with satin finish and peened gripping surface. Concealed mounting flanges, snap flange covers of same material and finish, and mounting kit. Grab bar shall resist minimum load of 2.0 kN (450 lbs.) in any direction. 762 (30") horizontal x 762 (30") vertical. Acceptable products: 'C08 90-degree L-shape' by Gallery Specialty Hardware Ltd. Quantity: 4 total.

2.7 ROOF HATCH

- .1 Single leaf, hinged, roof hatch: Thermally-broken design, 16-gauge minimum galvanized steel, factory prime-painted, 914 x 914mm (36"x36") size. Lid with compression spring operators, grip handle release, automatic hold open arm to lock in 'open' position. Latch to be positive snap type with turn handles and interior padlock hasp. EPDM rubber gasket

seals, fully insulated, overlapping lid and curb with polyiso insulation to R-18 minimum. Curb with fully welded corners, and integral cap flashing. Acceptable manufacturers: Bilco, Milcor RS, Acudor, Bolar, Babcock-Davis, or Lexsuco. Quantity: 1 total; refer to drawings for location.

- .2 Roof hatch fall protection: universal fit to suit hatch size, steel or aluminium pipe construction with all necessary fittings & hardware in a corrosion resistant galvanized finish, 1067mm high safety railing system to meet OSHA standards 29 CFR 1910.23 and 29 CFR 1910.27. 2-sided guardrail with a self-closing/latching gate on opening side of hatch. Railing may secure to hatch but does not penetrate roof membrane. Locations: at roof hatch (1 total). Acceptable products: KeeHatch Safety Railing System by Kee Safety Ltd. (tel: 1.877.505.5003), or Hatch Safety Guard Rail System by WS Safety Technologies (tel: 1.855.227.5787).

2.8 INTERIOR SIGNAGE

- .1 Washroom signage: 178 mm x 178mm plaque of non-glare clear acrylic on a coloured background with contrasting universal male/female symbols in the combinations below. Insign Format 7.7.1, SQ (square corners), Allmar Acrylic Signs Tactile & Braille, .. Quantity:
 - 1 sign with 'unisex' symbols, Grade 1 Braille translations, & standard accessibility symbol.
 - 3 total 'Change Room' signs with 'unisex' symbols, Grade 1 Braille translations, & standard accessibility symbol.
 - 3 total 'Change Room' signs with female symbol, Grade 1 Braille translations, & standard accessibility symbol.
 - 1 sign with 'female' symbol, Grade 1 Braille translations, & standard accessibility symbol,
 - 2 total signs with 'female' symbol and Grade 1 Braille translation only.
 - 1 sign with male symbol, Grade 1 Braille translations, & standard accessibility symbol
 - 2 total signs with male symbol and Grade 1 Braille translation only.
 - 3 total 'Change Room' signs with male symbol, Grade 1 Braille translations, & standard accessibility symbol.
- .2 Standard room identification signage: 90 mm x 355mm plaque of non-glare clear acrylic with coloured border and frame. Room names and room numbers to be in contrasting colour (two lines of text). Include braille translations for each sign. (Quantity: 12 total). Insign Format 3.14.1, SQ (square corners), or Allmar Acrylic Signs Tactile & Braille.
- .3 Directory Sign: 450 mm x 450mm plaque of non-glare clear acrylic with coloured border and contrasting accent line. Insign Format 18.18.1,SQ (square corners), or Allmar Acrylic Signs Tactile & Braille. Provide 1 sign near entry. Sign to incorporate building plan (camera ready artwork provided by Arch.)
- .4 All plaque type signs: mount with double faced adhesive tape as per mfg. recommendations. Coloured backgrounds and contrasting colours for lettering and border to be selected by Contract Administrator from the full range available. Lettering font to be Helvetica Medium upper and lower case. Layouts to be confirmed by Contract Administrator.

2.9 EXTERIOR AND INTERIOR CUT LETTERS/NUMBERS

- .1 Letters/numbers with laser or waterjet cut polished edges, from 10mm (3/8") thick aluminum sheet, alloy #5052-H32. Sandblast lightly and finish with a shop-applied powder coat (3 RAL colours to be selected by Contract Administrator). Aluminum stud-mount on wall and fence. Approved manufacturers: SignEx (tel: 204.284.7446), Allmar, or State Industries (204.697.2586).
 - .1 Lettering style: Font to be Arial upper and lower case, or as indicated on the drawings.
 - .2 Mounting height and location: as indicated on the drawings; site confirm final location with Contract Administrator.
 - .3 Signage to read as follows: (also refer to drawings for sizes, locations, and details)
 - .1 **"SEVEN OAKS POOL"** (457 or 18" high); quantity of 2 total.

- .2 "SEVEN OAKS POOL" (305 or 12" high) in Entry Lobby 101; 1 total.
 - .3 Street number: "444" (150 or 6" high); 1 total.
 - .2 Letters with laser cut polished edges, from 6mm (1/4") thick, UV stable, acrylic material. 100mm (4") height, font style, colours, and final locations to be confirmed by Contract Administrator. Aluminum stud mount on walls. Provide 80 letters total.
- 2.10 EXPANSION JOINT COVERS (between existing building and new addition typical)
- .1 Gasketed joint covers with extruded aluminum frame (clear anodized finish) and a continuous extruded flexible gasket (Santoprene seal).
 - .1 Wall & Ceiling:
 - .1 Non-fire rated locations: Model FWF-100 by C/S Group, or Emseal KF 55/1530.
 - .2 Fire rated locations (2-hour min.): Model RXF-1W by C/S Group, or Emshield WFR2.
 - .2 Floor:
 - .1 Non-fire rated locations: Model GFPS-100 by C/S Group, or Emseal FN 20/12 flush.
 - .2 Fire rated locations (2-hour min.): Model RXF-1F by C/S Group, or Emshield DFR2.
 - .3 Locations: at control joint locations between two buildings or two different assemblies, and where noted on the drawings.
- 2.11 RECESSED WALK OFF MAT
- .1 High performance, entry mat system capable of handling rolling loads of up to 750 lbs. Flexible, removable, perforated for drainage, heel-resistant, and slip-resistant with rails oriented perpendicular to traffic flow. Flame resistance to BS2782 Method 508A. Rails to be anodized aluminum, joined by EPDM hinges with dual durometer vinyl ends. Inserts to be recycled rubber (RR); 1 colour to be selected by Contract Administrator from standard range available. Acceptable products (surface mounted, 13 (1/2") thick): Construction Specialties 'PediTred-LP G3'. No frame required where mat meets ceramic tile flooring, but provide tapered anodized aluminum frames where mat edge meets thinner flooring, threshold frames where mat meets door threshold, and a drainage pan. Refer to drawings for locations, shapes, and sizes.
- 2.12 VENT LOUVRES
- .1 Louvres: 18 gauge galvanized steel, fixed, formed prefinished mullion louver, to AMCA performance with mill finish 18x16 aluminum mesh insect screening, to sizes and shapes as indicated on the drawings. Blades to have gutters that catch and direct water to mullions and jambs with internal drains. Fillet weld all blade joints to jambs and corner joints. Standard of acceptance: Construction Specialties model #GS-407. Factory finish to be 100% resin Fluoropolymer powder coating to 4H hardness rating with a 20-year warranty; 3 colours to be selected by Contract Administrator from standard range available.
- 2.13 TV MOUNTS
- .1 Full-motion, wall-mount bracket with universal VESA bolt pattern to support a 32" to 63" flat panel TV of 59 kg (130 lbs) maximum weight, with +5 to -15 deg. tilt adjustment, 90 deg. swivel and pan adjustment, 6 deg. roll adjustment, cable management clips and all necessary hardware. Black colour. Acceptable products: Sanus Classic #MLF13 or #MLF 10. Refer to drawings for locations and quantities.
 - .2 Mounting: Coordinate and provide sufficient backing in stud walls to support required loads, where applicable.

2.14 FIRE RATED ACCESS DOORS

- .1 Insulated fire rated access door approved for use in exterior walls and ceilings. 16-gauge steel door (prime coat) with 50 (2") thick fire rated insulation, 25 (1") wide steel mounting frame with galvanized steel drywall taping bead flange, concealed hinge, knurled knob and flush key latch, ULC - 2 hour "B" label. Size: 610 x 610 (24" x 24"), unless noted otherwise on drawings. Locations: refer to drawings at exterior walls and ceilings. Acceptable products: Acudor #FW-5060-DW, or Babcock-Davis #BIT & #BIW.
- .2 Non-insulated fire rated access door for use in interior walls and ceilings. 16-gauge steel door (prime coat finish), 25 (1") wide steel mounting frame with galvanized steel drywall taping bead flange, concealed hinge, knurled knob and flush key latch and ULC - 2 hour "B" label. Sizes: 610 x 610 (24" x 24"), unless noted otherwise on drawings. Locations: refer to drawings at interior walls and ceilings. Acceptable products: Acudor #FB-5060-DW, or Babcock-Davis #BUW & #BUT.
- .3 Non-fire rated access door for use in interior walls and ceilings: 14 gauge flush steel door in 16 gauge steel mounting frame, concealed continuous hinge, stainless steel screwdriver operated cam latch, in white, baked enamel prime coat finish. Sizes: 914 x 1220 (36" x 48") at ceilings below fan coil units, 762 x 762 (30" x 30") at other locations, unless noted otherwise on drawings. Acceptable products: Acudor #UF-5000 Universal, or Babcock-Davis #BNW.

2.15 FIRE EXTINGUISHERS

- .1 ULC labeled fire extinguishers shall be supplied and installed to the latest requirements of the National Fire Code and NFPA 10, including all amendments. Fire extinguishers shall be 2.3 kg. (5 lb.) ABC 3A, 40 BC, multi-purpose type by Flag or Williams. Refer to locations shown on drawings, including one adjacent to each exit door/stair and at a maximum travel distance between extinguishers of 23m (75'). (7 total).
- .2 Fire extinguisher cabinets to suit extinguisher size and type: Surface mounted, high impact, flame retardant, ABS plastic with no sharp corners, in a prefinished white colour, with breakable acrylic panel face, cylinder lock, break glass hammer and break glass instruction decal. Acceptable product: National Fire Equipment Ltd. model #ECS-1055 to fit 5 lb. extinguisher (4 total).
- .3 At Service or Utility rooms such as Janitor and mechanical rooms, a standard surface-mounted wall bracket is acceptable. Refer to locations shown on the drawings (3 total).

2.16 CHANGE ROOM BENCHES

- .1 High-quality, recycled plastic materials with stainless steel hardware and fixed floor anchors, with a ten (10) year manufacturer's warranty. Acceptable products: 'Wide Bench #68.1506' by Nordesco Industries Inc. (dist. by Sport Systems Canada Inc., tel: 1.877.600.4667). Size: 394 (15.5") wide x 1830 (72") long x 2 units to make up each bench grouping (4 groupings total). Refer to drawings for locations.

2.17 BULLETIN BOARDS

- .1 13mm (1/2") thick cellulose fibreboard backing with Class III flame spread rating, and perimeter aluminium trim. Claridge cork with Series 4 trim, Shanahan's cork with 200 Series trim, or ASP (Architectural School Products) cork tackboard.
- .2 Cork surfacing: fine-grained natural cork roll, 6mm (1/4") thick x height x length to suit sized shown on drawings and details. Fully adhere to clean and dry substrate with water-based contact adhesive.
- .3 Size: 1220mm high x 1220mm long; refer to drawings for locations and quantities.

2.18 PARAPET CROSSOVER STAIR

- .1 Prefabricated crossover stair system designed for flat SBS type roof system, to access from one level over roof parapet to another level at a different height, without penetrating through the roof system. Stair system shall include all components and hardware, including stair treads, landings, and handrails/guardrails and be engineered by manufacturer to support all normal weights and loads as required, to comply with Building Code and applicable regulations. Standard 915 (36") clear width. All components to be of injection molded high-density polypropylene plastic, hot-dipped galvanized steel, or aluminum, with a corrosion-resistant, UV resistant finish, made for exterior use. All fasteners and hardware to be corrosion-resistant. Include protective isolation pads between structure and roof surface. Acceptable products: "PHP stair system" by PPH Systems/Design, (tel: 1.877.853.5556), or "Crossover stair system" by WS Safety, (tel: 1.855.227.5787). Quantity: 1 total. Refer to drawings for location and span.

Part 3 EXECUTION

3.1 INSPECTION

- .1 Verify that surfaces and internal wall blocking are ready to receive the Work and opening dimensions are as instructed by the manufacturer.
- .2 Beginning of installation means acceptance of substrate conditions.

3.2 INSTALLATION

- .1 Install in accordance with manufacturer's instructions.

3.3 MOUNTING HEIGHTS (to meet Building code requirements and unless otherwise noted; confirm locations with Contract Administrator)

- .1 Mirrors: supply by Section 08 80 00 and mount bottom of mirror not more than 1000mm above the finish floor.
- .2 Toilet paper dispensers: mount beside toilets near front edge of toilet at approx. 700mm above the finish floor (above grab bars in accessible stalls).
- .3 Sanitary napkin disposal: mount beside toilet paper dispenser towards the back wall.
- .4 Soap dispensers: close to the lavatory, not more than 1200mm above the finish floor.
- .5 Mount all grab bars, blocking, and anchorage to withstand loads as required in the Code.
- .6 Grab bars at accessible toilets: mount horizontally between 840 - 900mm above the finished floor. The centre of the 900mm long bar beside the toilet shall extend no less than 450 mm in both directions from the most forward point of the water closet, and the 600 long bar behind the toilet shall be centered on the toilet.
- .7 Grab bars at urinals: mount vertically so centerline of bar is 950mm above the finished floor and locate each bar not more than 380mm horizontally from centerline of urinal.
- .8 Grab bar in accessible shower stalls: mount horizontally between 700 and 800mm above the finished floor and locate so that 300mm of the grab bar length overlaps with the folding shower seat on the end wall of the stall.
- .9 Robe hook: mounted between 1100mm to the centre of the hook and locate on a clear wall space, unless specifically shown on the drawings.
- .10 Folding shelf: mount between 1100mm to the top of the shelf when open and locate on clear wall space, unless specifically shown on the drawings.
- .11 Electric Hand dryers: mount on wall with a minimum clear floor space of 760mm wide x 1370mm deep. Mount one at 900mm and a second at 1200mm from bottom of unit to finished floor, with a minimum horizontal spacing of 400mm between dryers.
- .12 Other typical wall-mounted items, unless noted otherwise: mount on wall with a minimum clear floor space of 760mm wide x 1370mm deep. Mount vertically so that controls are about 1100mm above the finished floor.

- .13 Folding Baby Change Table: mount horizontally so that the top of the unit, in the folded position, is 1200mm above the finished floor. Locate on a clear wall space or as indicated on the drawings.
- .14 Folding seats in accessible shower stalls: mount horizontally so the seat will be at 450mm above the finished floor and centred in the end wall of the shower stall.
- .15 Recessed soap dish in accessible shower stalls: mount horizontally at 900mm above the finished floor to the bottom of the dish and locate so that the closest edge of this dish aligns with the front edge of the folding seat in the open position.
- .16 Safety coat hooks: Typically mount on wall at 1100mm above the finished floor. Refer to millwork details and interior elevations for locations and spacing.

END OF SECTION