

PART 1 - GENERAL

1.1 SUMMARY OF SECTION

- .1 Provide the following signage as described:
 - .1 Room Identification Signage
 - .2 Flush-mount lettering
 - .3 Stand-off lettering
- .2 For specific locations and quantities, see drawings. Details of typical sizes and materials are specified herein.

1.2 REFERENCES

- .1 Canadian Standards Association (CSA):
 - .1 CSA-B651-12, Accessible Design for the Built Environment.
- .2 National Fire Protection Association (NFPA)
- .3 National Building Code of Canada (NBC) 2010.
- .4 Consolidated Newfoundland and Labrador Regulation 1140/96: Buildings Accessibility Regulations under the Buildings Accessibility Act (O.C. 96-865), latest edition

1.3 SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, MSDS sheets, specifications and data sheets in accordance with Section 01 33 00 Submittal Procedures.
 - .2 Manufacturer's Information:
 - .1 Submit manufacturer's installation instructions.
 - .3 Samples:
 - .1 Submit samples of all typical signage and product types.
 - .4 Design Options: Provide two (2) simple design options for
 - .5 Shop Drawings:
 - .1 Submit shop drawings indicating proofs, materials, size, finish, colour concealed mounting details and locations for all signs.
 - .2 Provide full signage schedule including name and type of sign to Consultant for review and acceptance prior to sign manufacture.
 - .6 Mock-ups:
 - .1 Provide mock-up of edge-lit specialty composite signage.
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1.4 DELIVERY, STORAGE AND PROTECTION OF PRODUCT

- .1 Deliver and store materials in compliance with Section 01 61 00 Common Product Requirements.
- .2 Comply with manufacturer's recommendations for handling, storage and protection during installation.
- .3 Protect and store materials off the ground, away from physical damage and from becoming wet, soiled or covered with ice or snow before, during and after installation.
- .4 Label packages to include material name, production date and/or product code.

1.5 QUALITY ASSURANCE/QUALITY CONTROL

- .1 Conform all signage required for building occupancy to the Consolidated Newfoundland and Labrador Regulation 1140/96: Buildings Accessibility Regulations under the Buildings Accessibility Act (O.C. 96-865, or National Building Code in conformance with Barrier Free Access and CAN/CSA B651, whichever is most stringent.
- .2 Conform all signage required for emergency exiting to the National Fire Protection Association (NFPA) requirements for signage.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Room Identification and Building Signage
 - .1 General Requirements:
 - .1 Colour acrylic sheet with face, surface engraved with number and room names.
 - .2 Non-glare finish; colour contrast required between letters/pictograms and sign board.
 - .3 Colour to be selected from standard range
 - .4 Provide (2) two design options of contrasting colour layouts.
 - .5 Mounted with stainless steel screws, concealed fasteners.
 - .6 Department Representative to provide information of room names and room numbers.
 - .7 Allow for a coordination meeting with Department Representative and consultant representatives to review signage package finishes, materials and names of signs.
 - .8 Approved Manufacturer: Eyecatch Signs, Eye Candy Signs, or approved alternate.
 - .2 Room Name and Number Signs:
 - .1 Combination name and number plates. Minimum dimensions to meet code requirements, and meet all text requirements. Maintain equal width dimension for all signs, and equal height as best possible. Elongate
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- height dimension for signs with longer than average text requirements.
 - .2 Mounting heights in accordance with barrier free standards.
 - .3 Braille identification in combination with tactile lettering on all rooms required by code to be such.
 - .4 Include raised tactile pictograms for all washrooms. Include barrier-free accessibility symbol at all accessible washroom signs.
 - .5 Stairwell doors to be identified as required by fire code.
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 - .3 (FER) Fire escape route signage.
 - .1 To suit fire escape route plan.
 - .2 Stairwell identification doors
 - .3 Locations: to be selected by consultant Allow for 10 locations
 - .4 Multi-colour printed sign on acrylic backing 216 mm x 279 mm (8.5 x 11”).
 - .5 Provide graphic artwork based on architectural plan.
 - .4 Room Number (only) Signs:
 - .1 Number plates to be 75 mm high and of sufficient length to have four (4) numbers each 50 mm high.
 - .2 All rooms that do not have a ‘room name and number’ sign are to have a room number sign plate. Coordinate with Department Representative to determine which rooms do not need a name shown.
 - .2 Decorative Lettering for public/lobby areas
 - .1 Metal Stand-off Lettering (**G1**):
 - .1 Locate as indicated in drawings. Do not locate on millwork lower than 36” a.f.f.
 - .2 Custom flat laser-cut aluminum letters. All Capitals. Height as per drawings.
 - .3 Min. ¼” thickness
 - .4 Pin-mounted standoffs, ½” elevation from mounting surface.
 - .5 Text requirements to be provided by Department Representative. (e.g.: WELCOME TO WABUSH, BAR, CAFÉ)
 - .6 Font to be selected from standard range of serif and sanserif fonts.
 - .2 Flush-Mount Acrylic Lettering (**G2**):
 - .1 Flat laser-cut clear Lexan acrylic letters.
 - .2 Locate as indicated in drawings. Locate a number on each ticket counter and car rental area.
 - .3 Flush-mount directly to surface
 - .4 Min. 3/8” thickness.
 - .5 Back-Painted colour to match paint P1 (Reference Section 09 91 00)
 - .6 Text and numbering requirements to be provided by Department Representative.
 - .7 Font to be selected from standard range of serif and sanserif fonts.
 - .3 Specialty Composite Panel Signage
 - .1 (SCP2) Specialty Composite Panel c/w edgelight
 - .1 Standard of Acceptance: 3Form Stuttura Duo c/w 3Form 3Flex edgelight component.
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- .1 Colour: Duo-Moss G33
- .2 Coordinate lighting requirements with electrical consultant
- .3 To be mounted over wall covering (**WC1**) Coordinate with Section 09 72 16 Paragraph 2.1.1.1. Mock-up required. Coordinate with Wall covering supplier for mock-up.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Ensure large signage has sufficient anchorage to substrate/structure as required. Supply and install reinforcing and anchorage for built-in products.
- .2 Supplier shall provide information and templates required for installation of work of this section and assist or supervise, or both, the setting of anchorage devices and construction of other work incorporated with products specified in this Section in order that they function as intended.
- .3 Install work to meet manufacturer's recommended specifications, true, tightly fitted and level or flush to adjacent surfaces, as suitable for installation.
- .4 Insulate between dissimilar metal and masonry to prevent electrolysis.

3.2 ADJUSTMENT

- .1 Verify under Work of this Section that installed products function properly and adjust them accordingly to ensure satisfactory operation.
- .2 Refinish damaged or defective work so that no variation in surface appearance is discernible. Refinish work as site only if approved.

END

PART 1 - GENERAL

1.1 SUMMARY OF SECTION

- .1 Provide the following Miscellaneous Specialties as described:
 - .1 Chain Link Fences and Gates
 - .2 Privacy Curtain and Track
 - .3 Access Panels
 - .4 Wall and Floor Expansion Joints
 - .5 Storage Shelving

1.2 REFERENCES

- .1 Canadian General Standards Board:
 - .1 CAN/CGSB-4.162-M80, Hospital Textiles- Flammability Performance Requirements
- .2 National Fire Protection Association
 - .1 NFPA 701 701-2010, Methods of Fire Tests for Flame Propagation of Textiles and Films

1.3 SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, including installation instructions, MSDS sheets, specifications and data sheets in accordance with Section 01 33 00 Submittal Procedures.
 - .2 For privacy curtain provide written data to support fabric fire rating, to NFPA 701 and CAN/CGSB-4.162-M.
 - .3 Submit copies of manufacturer's detailed technical data for materials, fabrication and installation of cubicle curtain including catalogue cuts of fittings, fastenings and accessories.
 - .2 Samples:
 - .1 Submit samples in accordance with Section 01 33 00 Submittal Procedures.
 - .2 Provide (2) two full length samples of cubicle curtain for approval by the Consultant showing full pattern range
 - .3 If requested provide a 24" length operational track sample mock-up including all hardware pieces.
 - .3 Shop Drawings:
 - .1 Submit shop drawings in accordance with Section 01 33 00 Submittal Procedures.
 - .2 Incorporate plans, elevations, sections, and details for all components in scale. The details to show all thicknesses, types and finishes and hardware.
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- .3 No work to be fabricated until the shop drawings have been reviewed in entirety and all related submittals, and samples as required by the specification have been approved by the Consultant.
- .4 Indicate dimensions taken from field measurements.
- .5 Submit shop drawings showing layouts of cubicle tracks, sizes of curtains, number of carriers, anchorage details and conditions requiring accessories.
- .4 Extra Materials:
 - .1 Provide 2 extra curtain gliders and hooks. Deliver to Departmental Representative.

1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

- .1 Package or crate, and brace products to prevent distortion in shipment and handling. Label packages and crates, and protect finish surfaces by sturdy wrappings.
- .2 Deliver products to location at building site designated by Contractor.

PART 2 - PRODUCTS

2.1 CHAIN LINK FENCE AND GATES

- .1 Chain link fence and gates as indicated on drawings:
 - .1 Fabric: 3.76mm (9 ga) steel wire vinyl coated, 50mm mesh with top and bottom selvages knuckled. Height of fence as indicated on interior elevation drawings. Mesh fabric to be polymer vinyl coated to ASTM A392, minimum coating thickness of 0.38mm, colour Black. Knuckled Safety selvage top and bottom.
 - .2 Post and Rails:
 - .1 Top rail, brace rail: 42mm O.D. galvanized pipe, plain ends, lengths to suit, connected by slip on sleeves complete with expansion springs every 4 m. Pipe to be of sufficient strength to carry live and dead loads without visual deflection. Use minimum schedule 40 pipe.
 - .2 Line posts: 60mm O.D. galvanized steel pipe with post top, of sufficient strength to carry all loads without buckling, spaced a maximum of 3 m on centre. Use minimum schedule 40 pipe.
 - .3 End and corner posts: 76mm minimum O.D. galvanized steel pipe of sufficient strength to withstand fabric tension. Brace with pipe identical to top rail.
 - .4 Run posts from floor slab to underside of structure above. Anchor at top with bracket slotted to allow for structural deflection of 20mm. Base plate, galvanized, with oversize holes. Drill into slab and set anchor bolts with epoxy.
 - .3 Approved Manufacturer: Eastern Fence or approved alternate
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2.2 PRIVACY CURTAIN AND TRACK

- .1 Ceiling mounted privacy cubicle track with curtain as indicated on drawings.
 - .1 Cubicle Curtain Fabric:
 - .1 To be machine washable to at temperatures between 105 degrees and 120 degrees Farenheit.
 - .2 To be inherently flame resistant to NFPA701 or CAN/CGSB-4.162M
 - .2 Fullness: Minimum 20% wider than track length to ensure complete closure without gaps.
 - .3 Length: to extend from underside of track to within 15" above finished floor and to not exceed 16" above floor.
 - .4 Heading: Provide matching heading of minimum 2" triple width of fabric and double stitch to body of curtain/mesh. Grommets: Rolled edge, rust proof nickel plated solid brass, spaced not more than 6" on centre.
 - .5 Bottom Hems: all hems shall be 1" double folded and stitched with thread that is the predominant fabric colour and to be compatible with the fabric for future washing and or cleaning, good both sides.
 - .6 Side Hems: to be surged reducing the salvage to approximately 1/16" turned to a minimum 1" double lock and stitched. All joining seams to be continuous surged, reducing the salvage to approximately 1/16" and safely stitched. Thread colour used to be the predominant fabric colour and to be compatible with the fabric for future washing and or cleaning. All seaming and hems to be good both sides.
 - .7 Stitching: To be of first quality to produce best appearance. Stitching to be straight, even and free of overlapping. A lock stitch to be provided where stitching terminates. Horizontal stitching to be double needle stitched and vertical seams to be turned in and single needle stitched. All seams to be surged with overlocked and safety stitch. Seams to be pressed and blocked to avoid puckering. All seams to be hidden.
 - .8 Fabric pattern to be selected from Manufacturer's full range.
 - .9 Standard of Acceptance:
 - .1 DesignTex Privacy Curtain fabric
 - .2 Momentum Privacy Curtains fabric
 - .3 CF Stinson Privacy Curtain fabrics
 - .2 Mesh Fabric:
 - .1 Mesh is surged to face fabric, turned and stitched with double needle lock stitch no less than 1/2" in width
 - .2 To be 100% Trevira Polyester F.R.: Inherently Flame Retardant (NFPA701 and CAN/CGSB-4.162-M),
 - .3 Non Static
 - .4 Mildew Resistant
 - .5 Odour Free
 - .6 Resistant to chemical products and solvents
 - .7 To be machine washable to at temperatures between 105 degrees and 120 degrees Farenheit.
 - .8 Mesh to extend from ceiling mounted track to top of curtain fabric.
 - .9 Standards of Acceptance:
 - .1 Urban Edge Shading/Silent Gliss Cubicle mesh
 - .2 Light Harvesting Shading Solutions

- .3 Hardware/Components:
 - .1 Cubicle Track
 - .1 Ceiling mounted extruded aluminum track
 - .2 6101 profile track with clear satin anodized finish
 - .3 self-cleaning concave gliding channel.
 - .4 Fabricate splices, end caps, connectors, end stops, coupling and joining sleeves, wall flanges, brackets, ceiling clips, and other accessories from same material and same finish as track.
 - .5 Include dust cover strip.
 - .6 Standards of Acceptance:
 - .1 Silent Gliss, 6100 Cubicle Track System w/roller glider w/hooks 6094 with steel hook for ceiling mounting. Ceiling fix bracket 6138 (double); or approved alternate.
 - .2 Light Harvesting Shading Solutions LHSS 800 Suspended Track System c/w 708 roller glider & steel hook

2.3 ACCESS PANELS (WALL MOUNTED)

- .1 305 x 610mm wall and ceiling access panel. Non-rated, general purpose.
- .2 16 gauge steel; cold rolled
- .3 Finish: grey powder coat
- .4 Concealed pin hinge; 10mm return around door; complete with 1 (one) key operated cylinder cam lock
- .5 Acceptable Materials:
 - .1 Manufacturer: Cendrex, Model: AHD

2.4 WALL AND FLOOR SEISMIC JOINT COVERS

- .1 Floor Joint and Wall Joints: Interior flush seismic metal cover.
 - .1 Sizes as required for existing joint.
 - .2 Heavy duty grade extruded aluminum
 - .3 Floor covers to accommodate point loads up to 2000 lbs.
 - .4 Finish to be selected from standard range
 - .5 Provide fire rated models were required including but not limited to column enclosures.
 - .6 Provide appropriate extrusion model for flooring types and wall types as indicated on drawings
 - .7 Floor Joint Standard of Acceptance: CS Expansion Joint Covers, SJPF series extrusion
 - .8 Wall Joint Standard of Acceptance: CS Expansion Joint Covers, FWF series extrusion
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2.5 STORAGE SHELVING

- .1 Standard of Acceptance: JBX System 800 Boltless Wide Span Shelving as supplied by Global Industries or acceptable alternate.
 1. Materials: one-piece welded frame features roll-formed 14 gauge steel posts and seamlessly welded tube bracing for extra strength and rigidity.
 2. Shelf levels, 17 - Gauge, 6"W galvanized drop-in steel panels, adjust in 1 1/2" increments.
 3. Shelf Capacity: 2200 lbs
 4. Shelf connection: Beam Hook.
 5. Colour of shelves chosen by Consultant from full colour standard range.
 6. Size: 24" deep by 96"high. See drawings for Width.
 7. Complete with side braces and back braces.
 8. Anchor shelves to walls.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Supplier to provide information and templates required for installation of Work of this Section, and assist for supervise, or both, the setting of anchorage devices, and construction of other Work incorporated with products specified in this Section in order that they function as intended.
- .2 Install work to meet manufacturer's recommended specifications, true, tightly fitted, and level or flush to adjacent surfaces, as suitable for installation.
- .3 Cubicle Track System:
 - .1 To be installed level and plumb in accordance with manufacturer specifications, standards and procedures.
 - .2 Adequate clearance should be provided to allow unencumbered operation of the entire window system.
 - .3 Track accessories: Install end caps, connectors, end stops, couplings, joining sleeves and other accessories as required for a smooth and operational installation.
 - .4 Fasten surface mounted tracks at intervals of not less than 24".
 - .5 Fasten support at each splice and tangent point of each corner. Centre fasteners in track to ensure unencumbered carrier operation.
 - .6 Coordinate with Section 09 51 00 Acoustical Ceilings.

3.2 ADJUSTMENT AND CLEANING

- .1 Verify under Work of this Section that installed products function properly, and adjust them accordingly to ensure satisfactory operation.
 - .2 Refinish damaged or defective Work so that no variation in surface appearance is
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discernible. Refinish work at site only if approved.

END

PART 1 - GENERAL

1.1 SUMMARY OF SECTION

- .1 As summarized and described, but not restricted to the following:
 - .1 Provide Floor to ceiling mounted solid phenolic toilet compartments with laminate face as indicated.

1.2 REFERENCES

- .1 Canadian Standards Association (CSA)
 - .1 CAN/CSA B651-12, Accessible Design for the Built Environment
- .2 Consolidated Newfoundland and Labrador Regulation 1140/96: Buildings Accessibility Regulations under the Buildings Accessibility Act (O.C. 96-865), latest edition.

1.3 SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, MSDS sheets, specifications and data sheets in accordance with Section 01 33 00 Submittal Procedures.
- .2 Manufacturer's Information:
 - .1 Submit manufacturer's installation instructions.
- .3 Samples:
 - .1 Submit duplicate samples of phenolic panel showing finish on both sides, thickness, two finished edges and core construction.
 - .2 Submit samples of each hardware item, including brackets, fastenings and trim, if requested.
- .4 Shop Drawings:
 - .1 Indicate fabrication details, plans, elevations, hardware and installation guide.

1.4 ENVIRONMENTAL REQUIREMENTS

- .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of materials.
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1.5 WASTE MANAGEMENT

- .1 Refer to Division 01 specification for Waste Management and Disposal.
- .2 Separate and recycle waste materials in accordance with Section 01 74 19 Waste Management and Disposal and project Construction Waste Management Plan. A Waste Trip Log Form must be completed and submitted for all waste material removed from site.

1.6 DELIVERY, STORAGE AND PROTECTION OF PRODUCT

- .1 Deliver and store materials in compliance with Section 01 61 00 Common Product Requirements.
- .2 Comply with manufacturer's recommendations for handling, storage and protection during installation.
- .3 Protect and store materials off the ground, away from physical damage and from becoming wet, soiled or covered with ice or snow before, during and after installation.
- .4 Label packages to include material name, production date and/or product code.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Toilet Partitions:
 - .1 Floor-mount and ceiling anchored to bulkhead above, full height partitions.
 - .2 Panel Material: solid phenolic, minimum 60% rapidly renewable material with plastic laminate surface, both sides.
 - .3 Doors, pilasters, and panels: 19 mm thick
 - .4 Gap-Free sightline privacy
 - .5 72" height doors and panels
 - .6 Finish: White to be chosen from standard range
 - .7 Hardware Components:
 - .1 To be stainless steel type 304 #4 finish unless otherwise noted.
 - .2 Pilaster Shoe
 - .3 Hinges: Heavy duty Vandal Resistant 'Institutional' hardware
 - .4 Latch Set: Surface mounted, slide bolt type with bumper keeper equipped with neoprene cushion c/w emergency opener.
 - .5 D Pull
 - .6 Coat hook, combination hook and rubber door bumper
 - .7 Screws and Bolts: Tamper-proof heads.
 - .8 All components to be Barrier free compliant to CSA B651
 - .9 Standard of Acceptance: Bobrick Duraline 1086 Series c/w .67 Institutional hardware, Solid Phenolic Panels.
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- .10 Approved Alternate Manufacturers:
 - .1 Hadrian
 - .2 Global

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Coordinate the location of wood blocking in wall with location of wall mounting brackets connections.

3.2 INSTALLATION

- .1 Do Work in accordance with CAN/CSA B651
- .2 Install partitions secure, plumb and square.
- .3 Install with clearances as per manufacturer's specifications for Gap-Free Privacy installation.
- .4 Anchor mounting brackets to steel framing as described in Section 05 00 00 Misc. Metals paragraph 2.6.5. Coordinate with wall contractor to align wood blocking inside wall with mounting location.
- .5 Attach panel and pilaster to brackets with through type sleeve bolt and nut.
- .6 Floor support and head rail bracing:
 - .1 Secure pilasters to floor with pilaster supports anchored with minimum 50 mm deep anchorage in structural floor.
 - .2 Secure pilaster shoes in position.
 - .3 Set tops of doors level with tops of pilasters when doors are in closed position.
- .7 Provide for adjustment of floor variations with screw jack through steel saddles made integral with pilaster. Conceal floor fixings with Type 304 stainless steel shoes.
- .8 Equip each door with hinges and latch set, and each stall with coat hook mounted on inside of door. Adjust and align hardware for proper function. Set door open position at full open. Install door bumper on the inside of partition door.
- .9 Adjust and align hardware for proper function.
- .10 Equip out-swinging doors with door pulls on inside and outside of door in accordance with CAN/CSA-B651.
- .11 Allow for fine tuning and extra coordination because of fire tolerance between doors and panels and adjacent surfaces.

END

PART 1 - GENERAL

1.1 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM A123/A123M-15, Zinc (Hot Dip Galvanized) Coatings and Iron and Steel Products
 - .2 ASTM A794/A794M-12, Specification for Commercial Steel (CS), Sheet, Carbon (0.16% Maximum to 0.25% Maximum), Cold Rolled
 - .3 ASTM A269/A269-15a, Seamless and Welded Austenitic Stainless Steel Tubing for General Service.
 - .4 ASTM B456-11e1, Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium
 - .5 ASTM A480/A480M-15, Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip.
- .2 Canadian Standards Association (CSA):
 - .1 CSA-B651-12, Accessible Design for the Built Environment.
- .3 National Fire Protection Association (NFPA):
 - .1 NFPA (fire) 701, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films, 2015 Edition.
- .4 National Building Code of Canada (NBC) 2010.
- .5 Consolidated Newfoundland and Labrador Regulation 1140/96: Buildings Accessibility Regulations under the Buildings Accessibility Act (O.C. 96-865), latest edition.

1.2 REGULATORY REQUIREMENTS

- .1 Conform to National Building Code for installation work in conformance with Barrier Free Access.

1.3 SUBMITTALS

- .1 Product Data:
 - .1 Submit product data to requirements of Section 01 33 00 – Submittal Procedures.
 - .2 Provide product data on accessories describing size, finish, details of function, Attachment methods.
 - .2 Manufacturer's Information:
 - .1 Submit manufacturer's installation instructions to requirements of Section 01 33 00 – Submittal Procedures.
 - .2 Provide maintenance date for toilet and bath accessories for incorporation into Operations and Maintenance manual specified in Division 01, closeout submittals.
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- .3 Mock-up
- .3 Refer to Division 01, Quality Control for requirements of mock-up.
- .4 Locate where directed by Consultant.
- .5 Allow 48 hours for field review of mock-up by Consultant.
- .6 Contractor to provide coordination of mock-up for review and approval of all washroom accessories including OSOI items.
- .7 Contractor only to proceed once the testing is complete and written approval has been received by the Consultant.
- .8 When accepted, mock-up will demonstrate minimum standard for this work. Approved mock-up may remain as part of the Work.

1.4 CO-ORDINATION

- .1 Co-ordinate work of this Section with the placement of internal wall reinforcement and reinforcement of partitions to receive anchor attachments.

PART 2 - PRODUCTS

2.1 COMPONENTS

- .1 Washroom Accessories – General:
 - .1 Acceptable Manufacturers:
 - .1 Bobrick
 - .2 ASI Group (American Specialties)
 - .3 Bradley
 - .4 or Approved Alternate
 - .2 Provide accessories from one manufacturer.
 - .3 Provide Manufacturer's Warranty for three (3) years on washroom accessories.
 - .4 Provide Manufacturer's Warranty for fifteen (15) years on Mirrors against silver spoilage.
 - .5 Provide vandal proof fastening and locked access to component maintenance hatches, keyed alike throughout.
 - .2 Provide special tools required for accessing, assembly/disassembly or removal for toilet and bath accessories in accordance with requirements specified in Section 01 78 00 Closeout Submittals. Deliver to Departmental Representative.
 - .3 Stainless Steel Sheet: ASTM A167, Type 304.
 - .4 Tubing: ASTM A269, Stainless Steel.
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- .5 Fasteners, Screws, and Bolts: Hot dip galvanized tamper-proof, security type.
- .6 Expansion Shields: Fibre or rubber as recommended by accessory manufacturer for component and substrate.

2.2 PRODUCT DESCRIPTION

- .1 Paper Towel Dispensers:
 - .1 Surface mounted paper towel dispenser:
 - .1 Capacity 400 C-fold or 525 multi-fold paper towels.
 - .2 Type 304 22ga Stainless steel, Satin finish
 - .3 Access to dispenser to be secured with tumbler lock keyed alike to other washroom accessories. Stainless steel piano hinge.
 - .4 Maximum protrusion from wall: 102mm (4")
 - .5 Mounting height as indicated on drawings
 - .6 Capacity to hold 525 multifold paper towels, 12 gallon waste receptacle
 - .7 Standard of Acceptance: Bobrick B-262 Classic Series Surface-Mounted Paper Towel Dispenser
 - .8 Locate in multiple-occupancy washrooms as indicated on drawings
 - .2 Semi-recessed wall-mount paper towel dispenser/waste receptacle:
 - .1 Type 304 22ga Stainless Steel, satin finish.
 - .2 Maximum protrusion from wall: 102mm (4")
 - .3 Mounting height as indicated on drawings
 - .4 Capacity to hold 800 multifold paper towels, 12 gallon waste receptacle.
 - .5 Access to dispenser and receptacle to be secured with tumbler lock keyed alike to other washroom accessories. Stainless steel piano hinge.
 - .6 Standard of Acceptance: Bobrick B-3942 Classic Series Semi-Recessed Convertible Paper Towel Dispenser/Waste Receptacle
 - .7 Locate in single-occupancy washrooms as indicated on drawings.
 - .2 Toilet Tissue Dispenser:
 - .1 Surface mounted toilet tissue dispenser:
 - .1 Double roll type. Capacity (2) rolls up to 130mm diam (1500 sheets.)
 - .2 Type 304 22ga. stainless steel frame with hood
 - .3 Roll under spring tension for controlled delivery.
 - .4 Keyed theft-resistant spindles
 - .5 Standard of Acceptance: Bobrick B-6999 Toilet Tissue Dispenser with Hoods
 - .3 Grab Bar Horizontal and Vertical:
 - .1 38 mm dia. x 1.6 mm wall tubing of Type 304 stainless steel, 76 mm diameter wall flanges, concealed screw attachment with steel back plates and accessories. Provide approximately 40 mm space between bar and wall. Grab bar material and anchorage to withstand pull of 1.3 kN vertically or horizontally.
 - - .1 Bar alongside toilet fixture to be no less than 900 mm and extend from a point not more than 300 mm from the rear wall to at least 450 mm in front of the toilet seat.
 - .2 Bar behind toilet fixture to be no less in length than the width of the
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- toilet bowl, or where a tank is provided, the full width of the tank.
- .3 Vertical urinal bars to be no less than 610mm in length.
- .4 Framed Mirror:
- .1 No. 1 quality 6 mm laminated float glass, electrolytically silverplated
- .1 Sizes as indicated, framed in type 304 Stainless Steel
- .2 19 mm x 19 mm heavy gauge stainless steel angle frame, one piece roll formed type. Corners of frame heliac welded and ground and polished smooth. Provide with companion vandal proof concealed fastening, locking fasteners and wall hangers.
- .3 Corners: protected by friction-absorbing filler strips.
- .4 Back: protected by full-size, shock-absorbing, water-resistant, nonabrasive, 5mm thick polyethylene padding.
- .5 Size:
- .1 Width: closest nominal match to width of vitreous china sink mounted below mirror (allow +/- 2" max.)
- .2 Height min. 915mm
- .6 Mounting height: max. 1000 mm above floor for flat mirror. Mount Directly above backsplash with no gap between backsplash and mirror.
- .5 Robe Hook:
- .1 Type 304 Stainless steel with 50 mm projection.
- .6 Wall-mounted Soap Dispenser (Vanity):
- .1 Corrosion resistant push in valve dispenses viscous lotion soaps, synthetic detergents, vegetable oil liquid soaps and antiseptic soaps, self-contained translucent polyethylene 1 L tank, stainless steel piston and 100 long spout, tamper proof filler lock, body, shank and cover of moulded plastic, chrome plated cover locks to body. Cover, spout and valve assembly unlocked and removed for top refilling.
- .7 Standing floor waste receptacle:
- .1 Supplied by Departmental Representative-
- .8 Mop Rail (for Janitor Room):
- .1 Extruded aluminum with three (3) rubber gripper inserts.
- .9 Sanitary Napkin Disposal Bin:
- .1 3.8 liter (1 gal) volume
- .2 Type 304 22ga seamless drawn stainless steel body & lid.
- .3 Full-width stainless steel piano hinge between body & lid.
- .4 No exposed fastening devices.
- .5 Surface mounted
- .6 Standard of Acceptance: Bobrick B-270 or approved alternate.
- .10 Baby Changing Table:
- .1 Baby Changing Station; Plastic with recycled content. Surface-mounted horizontal design. Cream Colour. Location as per drawings.
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2.3 FABRICATION

- .1 Weld and grind smooth, joints of fabricated components.
- .2 Form exposed surfaces from single sheet of stock, free of joints.
- .3 Form surfaces flat without distortion. Maintain flat surfaces without scratches or dents.
- .4 Back paint components where contact is made with building finishes to prevent electrolysis.
- .5 Shop assemble components and package complete with anchor components for installation.
- .6 Provide steel anchor plates, adapters, and anchor components for installation.
- .7 Hot dip galvanize exposed and painted ferrous metal and fastening devices.

PART 3 - EXECUTION

3.1 INSPECTION

- .1 Verify that site conditions are ready to receive work and dimensions are as indicated on shop drawings instructed by the manufacturer.
- .2 Beginning of installation means acceptance of existing surfaces substrate.
- .3 Verify internal wall reinforcement is in place prior to installation. Coordinate with other trades as required.

3.2 PREPARATION

- .1 Verify the site conditions are ready to receive work and dimensions are as indicated on shop drawings instructed by the manufacturer.
- .2 Deliver inserts and rough-in frames to site at appropriate time for building-in
- .3 Provide templates and rough-in measurements as required.

3.3 INSTALLATION

- .1 Verify exact location of accessories before installation.
 - .2 Install fixtures, accessories and items in accordance with manufacturer's instruction
-

- .3 Install plumb and level, securely and rigidly anchored to substrate.
- .4 All accessories to be mounted at heights that conform to the Consolidated Newfoundland and Labrador Regulation 1140/96: Buildings Accessibility Regulations under the Buildings Accessibility Act (O.C. 96-865, or National Building Code in conformance with Barrier Free Access and CAN/CSA B651, whichever is most stringent.
- .5 Remove protective film material from surfaces at date of substantial performance

3.4 SCHEDULE

- .1 Washroom Accessories
 - .1 Paper Towel Dispenser
 - .2 Paper Towel Dispenser/Waste Receptacle combination
 - .3 Toilet Tissue Dispenser
 - .4 Grab Bar Horizontal-Toilet Side
 - .5 Grab Bar Horizontal – Toilet Back
 - .6 Urinal Grab Bar (Vertical)
 - .7 Framed Mirror
 - .8 Robe Hook
 - .9 Wall-mounted Soap Dispenser (Vanity)
 - .10 Mop Rail
 - .11 Sanitary Napkin Disposal Bin
 - .12 Baby Changing Table

END

PART 1 - GENERAL

1.1 REFERENCES

- .1 ASTM A480/A480M-15, Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip.

1.2 SUBMITTALS

- .1 Manufacturer's Technical Data Sheets in accordance with Section 01 33 00 Submittal Procedures. Qualifications of alternative lockers will be evaluated only if submitted with supporting documents to show equivalency to standard of acceptance.
- .2 Shop Drawings:
 - .1 Submit shop drawings in accordance with Section 01 33 00 Submittal Procedures.
 - .2 Indicate type and class of locker, thicknesses of metal, fabricating and assembly methods, overall dimension of assembled banks of lockers, tops rods hooks shelves, trim, numbering, filler panels, end/back panels doors handles locking method, ventilation method and finish description including colour.
- .3 Samples:
 - .1 Submit colour samples in accordance with Section 01 33 00 Submittal Procedures.

1.3 WARRANTY

- .1 Provide manufacturer's standard warranty for a period of (5) five years against defective parts and workmanship.

1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 Construction/Demolition Waste Management and Disposal.

PART 2 - PRODUCTS

2.1 MANUFACTURED UNITS

- .1 Ventilated Metal Athletic Lockers:
 - .1 (1) One Single-Tier compartment or (2) Double-Tier compartments per bay as indicated in drawings.
-

- .2 Size:
 - .1 Overall height: 72"
 - .2 Width per locker bay: 12"
 - .1 Overall width (number of bays) as indicated in drawings.
 - .3 Overall depth: 15"
- .3 'Knocked Down' construction method. Each locker to have a door mounted in a frame c/w individual top, bottom, side, back, and shelves, and a common side separating compartments.
- .4 Materials:
 - .1 All locker parts to be made of mild cold rolled sheet steel free from surface imperfections and contaminants detrimental to acceptance of powder coat finish.
 - .2 Paint to be a high grade hybrid epoxy polyester powder coating compliant of MPI standards free of lead and chromate.
 - .3 Doors:
 - .1 Doors to consist of a perforated double-pan design consisting of a 16-gauge outer panel welded to an 18-gauge inner panel to form a rigid box construction, resistant to prying.
 - .2 Outer panel to be double flanged on all four edges and the inner panel single flanged on all four edges.
 - .3 Within a solid center section of the doors (approximately 4" above and 4" below recessed handle) a structural and sound deadening 1" cell honeycomb core to be bonded to the inner surfaces. Such area is separated from the perforated door section with 20-gauge full width channels.
 - .4 Doors are ventilated at upper and lower sections with staggered ½" wide by 1" high oval perforations. Visual access and ventilation to be maximized via straight-through alignment of inner pan and outer pan perforations.
 - .5 Doors to be flush with the frame and include a recessed handle and recessed number plate.
 - .4 Door Frames:
 - .1 Vertical members to be not less than 16-gauge and formed into a rigid channel 5/8" wide exposed frame and 2 7/16" side depth, and formed to offer a full-length 7/16" wide continuous door strike.
 - .2 Frame to be completed by 3" high top and bottom cross members of not less than 18 gauge formed as an open box channel and welded to the verticals.
 - .3 Bottom frames' full-width lintel extends back and down to form a rigid box to support the bottom shelf.
 - .4 The latch vertical member shall include a welded 11-gauge padlock hasp together with a 7/16" o.d. air-cushioned rubber

bumper. No fasteners to be exposed on fronts of locker doors and frames.

- .5 Body:
 - .1 Sides to be not less than 16-gauge, ventilated with staggered ½" wide x 1" high oval perforations.
 - .2 Sides at exposed end conditions to solid.
 - .3 Backs to be solid, not less than 18-gauge with right angle flanges on each vertical side for strength and rigidity.
 - .4 Shelves, tops, and bottoms to be not less than 16-gauge, formed into a sturdy pan, interchangeable, flanged on all sides, with a lip formed front edge for additional strength and safety.

 - .6 Latching Device:
 - .1 Spring loaded single-point positive latch.
 - .2 11 gauge 2" x ¾" padlock hasp shall be securely welded to the continuous strike midway up on the frame and centered at the handle location.
 - .3 The hasp to be formed to protrude through an extruded aluminum recessed handle, clip-locked and bonded to the door.
 - .4 ½" o.d. nylon friction catch to be installed on the door to engage the frame in four (4) locations to keep door closed when not in use.

 - .7 Hinge:
 - .1 A full-length heavy-duty 16 gauge continuous steel piano hinge to be securely welded to the frame and fastened to the door with rivets.

 - .8 Number Plate:
 - .1 Each door to have a number plate accommodating up to 4 digits.
 - .1 Nestled in a recess flush with door surface.
 - .2 Fastened with 2 rivets.
 - .3 Coordinate with Department Representative for numbering requirements.

 - .9 Interior Equipment:
 - .1 Single-tier lockers: one (1) hat shelf and three (3) single-prong coat hooks.
 - .2 Double -tier lockers: three (3) single-prong coat hooks per compartment.
 - .3 All hooks to zinc plated steel with ball point heads and attached with two fasteners.

 - .10 Finishes:
 - .1 All steel parts and aluminum pedestals to be thoroughly machine cleaned, phosphatised and finished with a high performance epoxy powder coating, baked on to provide a uniform, smooth, protective finish.
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- .2 Anti-Graffiti finish. Colors to be selected from Manufacturer's anti-graffiti colour range.
- .3 One colour per unit location.
- .11 Pedestals:
 - .1 Stationary pedestals to be made from 6mm (0.25") by 64mm (2.5") aluminum bar; 308mm (12.125") at the widest point. Pedestals to be supplied with floor anchors, or rubber leveling glides.
- .12 Riveted Assembly.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Assemble and install lockers and pedestals in accordance with manufacturer's written instructions.
- .2 Install filler panels (false fronts) where indicated on drawings and/or where obstructions or spaces occur.
- .3 Install plumb, level, and rigid. Safely and securely anchor all lockers to wall. Provide blocking inside wall behind lockers.
- .4 Attach number plates in sequence after all lockers have been installed.

3.2 ADJUST AND CLEAN

- .1 Adjust doors and latches to operate easily without bending. Verify that integral locking devices are operating properly.
- .2 Touch-up finishes but replace units that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by locker manufacturer.
- .3 Clean interior and exposed exterior surfaces.
- .4 Protect lockers from damage, abuse, dust, dirt, stain or paint. Do not permit locker use during construction.

END

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 06 10 00 - Rough Carpentry
- .2 Division 26 – Coordinate with Electrical for wiring methods.
- .3 Section 10 28 10 Toilet Accessories

1.2 SUBMITTALS

- .1 Submit under provisions of Section 01 30 00.
- .2 Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Operating instructions and performance.
 - 3. Storage and handling requirements and recommendations.
 - 4. Installation methods.
- .3 Shop Drawings showing dimensions, method of attachment, and required supports.
- .4 Electrical wiring diagrams for connection of hand dryers.

1.3 WARRANTY

- .1 Provide manufacturer's standard limited warranty.

PART 2 - PRODUCTS

2.1 ELECTRIC HAND DRYERS

- .1 Hand Dryer: Warm air, rapid drying, energy efficient electric hand dryer
 - .1 Standard of Acceptance: Excel Dryer Inc., XLERATOR XL-SB
 - .1 Surface mounted; entire dryer internally grounded.
 - .2 Warranty Period: 5 years; limited warranty.
 - .3 Controls: Automatic, activated by infrared optical sensor. Operates while hands are under blower. Shut-off within 2 seconds when hands removed, or in 35 seconds if hands not removed.
 - .4 Cover: Type 304 Stainless steel with brushed satin finish.
 - .5 Air Intake: Inlet openings on bottom of cover.
 - .6 Air Outlet: Delivers focused air stream at average hand position of 4 Inches (102 mm) below air outlet.
 - .7 Noise Reduction Nozzle: 1.1 noise reduction nozzle.

- .8 Recess Kit: ADA compliant recess kit is fabricated of 22 GA 18-8 type 304 stainless steel with #4 satin finish with 16 GA18-8 type 304 stainless steel dryer mounting plate. All welded construction. 16-3/8 inches (416 mm) wide by 26 inches (660 mm) high by 3-3/8 inches (86 mm) deep.
- .9 Nominal Size: 11-3/4 inches (298 mm) wide by 12-11/16 inches (322mm) high by 6-11/16 inches (170 mm) deep.
- .10 Power Source: 110/120 volt, 12.5 amp, 60 Hz
- .11 Combination Motor and Blower: Series commutated, through-flow discharge, vacuum type; 5/8 HP, 20,000 RPM. Air flow rate: 19,000 linear feet per minute (97 meters per second) at air outlet, 16,000 linear feet per minute (81 meters per second) at average hand position of 4 inches (102 mm) below air outlet.
- .12 Heater: Nichrome wire element, mounted inside blower housing to be vandal proof.
- .13 Heater Safeguard: Automatic resetting thermostat to open when air flow is restricted and close when air flow is resumed.
- .14 Air Temperature: 135 degrees F (55 degrees C) measured at average hand position of 4 inches (102 mm) below air outlet. Air Heater Output: 900 watts.
- .15 All metal parts coated according to Canadian Underwriters Laboratories, Inc. (ULC) requirements.
- .16 Mount at the following height above floor surface: 940 mm

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Do not begin installation until substrates have been properly prepared.
- .2 If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- .1 Clean surfaces thoroughly prior to installation.
- .2 Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- .3 Coordinate requirements for blocking to ensure adequate means for support and installation of hand dryers.
- .4 Coordinate requirements for power supply, conduit, disconnect switches and wiring.

3.3 INSTALLATION

- .1 Install in accordance with manufacturer's instructions.
- .2 Install dryers at specified heights.

- .3 Install dryers securely to supporting substrate so that fixtures are level and aligned with each other. Use type and length of fastener as recommended by manufacturer for type of substrate.

3.4 PROTECTION

- .1 Inspect installation to verify secure and proper mounting. Test each dryer to verify operation, control functions, and performance. Correct deficiencies.
- .2 Protect installed driers until completion of project.
- .3 Replace damaged products before Substantial Completion.

END