

1 GENERAL

1.01 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 78 00 - Closeout Submittals .

1.02 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM A167-99 (2009), Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - .2 ASTM B456 - 11e1 Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium
 - .3 ASTM A653/A653M-11, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .4 ASTM C1503 - 08 Standard Specification for Silvered Flat Glass Mirror
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB 1.81-M90 CORR., Air Drying and Baking Alkyd Primer for Vehicles and Equipment.
 - .2 CAN/CGSB 1.88-92, Gloss Alkyd Enamel, Air Drying and Baking.
 - .3 *CAN/CGSB 12.5-M86, Mirrors, Silvered. (Withdrawn)*
 - .4 CGSB 31-GP-107Ma, Non-inhibited Phosphoric Acid Base Metal Conditioner and Rust Remover.
- .3 Canadian Standards Association (CSA)
 - .1 CAN/CSA G164-M92 (R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
- .4 Master Painters Institute (MPI)
 - .1 Architectural Painting Specifications Manual - 2010.
 - .2 MPI # 47 Alkyd, Interior, Semi-Gloss (MPI Gloss Level 5).
 - .3 MPI # 76 Primer, Alkyd, Quick Dry, for Metal.

1.03 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Shop Drawings: Indicate size and description of components, base material, surface finish inside and out, hardware and locks, attachment devices, description of rough-in-frame, building-in details of anchors for grab bars.

1.04 CLOSEOUT SUBMITTALS

- .1 Provide maintenance data for toilet and bath accessories for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.05 EXTRA MATERIALS

- .1 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.

2 PRODUCTS

2.01 MAUNIFACTURERS

- .1 This specification is based on toilet and bath accessories by ASI Watrous Inc..
- .2 Except where otherwise stated, tradenames and catalogue references in this Section refer to Watrous products.
- .3 Subject to compliance with the specification requirements, equivalent products by the following manufacturers are acceptable alternatives:
 - .1 Frost Products Ltd.,
 - .2 Bobrick Washroom Equipment of Canada Ltd.,
 - .3 Wood & Wyant,

2.02 MATERIALS

- .1 Sheet steel: to ASTM A653/A653M with ZF001 designation zinc coating.
- .2 Stainless steel sheet metal: to ASTM A167, Type 304, with satin finish.
- .3 Stainless steel tubing: Type 304, satin finished commercial grade, seamless welded, 1.2 mm wall thickness.
- .4 Fasteners: concealed screws and bolts hot dip galvanized, exposed fasteners to match face of unit. Expansion shields fibre, lead or rubber as recommended by accessory manufacturer for component and its intended use.

2.03 FINISHES

- .1 Chrome and nickel plating: to ASTM B456, polished finish.
- .2 Baked enamel: condition metal by applying one coat of metal conditioner to CGSB 31 GP 107Ma, apply one coat Type 2 primer to CAN/CGSB 1.81 and bake, apply two coats Type 2 enamel to CGSB 1 GP 88M and bake to hard, durable finish. Sand between final coats. Colour selected from standard range by the Consultant.
- .3 Manufacturer's or brand names on face of units not acceptable.

2.04 COMPONENTS

- .1 Toilet tissue dispensers:
 - .1 Public washroom: Single roll control flow type, surface mounted, stainless steel with sloping lockable shroud. Standard of acceptance: Watrous W-0266.

- .2 Grab Bars:
 - .1 Grab bars to be 18 (1.2 mm) gauge stainless steel tubing, with Mandrel bends. Knurled grab bars to be peened grip full length of the tubing to within 4" (100 mm) of ends of bends. Secure concealed fastening grab bars with 2 1/2" (64 mm) No. 14 screws to solid backing, capable of supporting a 500 lb. (225 kg) pull. All accessories must comply with current Ontario Building Code.
 - .2 At Barrier Free Accessible Water Closets:
 - .1 1 1/2" (38 mm) dia. stainless steel, 24" (610 mm) long straight bar, standard flange position at back of water closet.
 - .3 L-shaped bar as detailed 1 1/2" (38 mm) dia. stainless steel, 30" (760 mm) long horizontal and vertical 30" (760 mm) at side of water closet.
 - .1 Install item 1 and 2 grab bars noted above at each universal / barrier free water closets.
- .3 Combination towel dispenser/waste receptacle: Roll paper towel dispenser and waste receptacle. Standard of acceptance: Bobrick Model B-39619.
- .4 Soap dispenser: liquid push in valve, self contained translucent polyethylene tank, stainless steel piston and valve assembly, tamper proof filler lock, surface mounted, exposed metal components chrome plated. Standard of acceptance: Watrous W-0372.
- .5 Mirrors: Adjustable tilt angle frame mirror, 410 x 760 mm. Standard of acceptance: Watrous W-0600T.
- .6 Napkin dispenser: Provide and install surface-mounted sanitary napkin/tampon vendor. Standard of acceptance: Bobrick Model B-282 25.
- .7 Toilet Paper Roll Dispenser: Bobrick B-4288 Surface-Mounted Multi-Roll Toilet Tissue Dispenser (double stackable roll), stainless steel finish at each toilet location.

2.05 FABRICATION

- .1 Weld and grind joints of fabricated components flush and smooth. Use mechanical fasteners only where approved.
- .2 Wherever possible form exposed surfaces from one sheet of stock, free of joints.
- .3 Brake form sheet metal work with 1.5 mm radius bends.
- .4 Form surfaces flat without distortion. Maintain flat surfaces without scratches or dents.
- .5 Back paint components where contact is made with building finishes to prevent electrolysis.
- .6 Hot dip galvanize concealed ferrous metal anchors and fastening devices to CSA G164.
- .7 Shop assemble components and package complete with anchors and fittings.
- .8 Deliver inserts and rough-in frames to job site at appropriate time for building-in. Provide templates, details and instructions for building in anchors and inserts.

- .9 Provide steel anchor plates and components for installation on studding and building framing.

2.06 FINISHES

- .1 Chrome and nickel plating: to ASTM B456, satin polished finish.
- .2 Baked enamel: condition metal by applying one coat of metal conditioner to CGSB 31-GP-107Ma, apply one coat Type 2 primer to CAN/CGSB 1.81 and bake, apply two coats Type 2 enamel to CAN/CGSB 1.88 and bake to hard, durable finish. Sand between final coats. Colour selected from standard range by Consultant.
- .3 Manufacturer's or brand names on face of units not acceptable.

3 EXECUTION

3.01 INSTALLATION

- .1 Install and secure accessories rigidly in place as follows:
 - .1 Stud walls: install steel back-plate to stud prior to plaster or drywall finish. Provide plate with threaded studs or plugs.
 - .2 Hollow masonry units or existing plaster/drywall: use toggle bolts drilled into cell/wall cavity.
 - .3 Solid masonry, marble, stone or concrete: use bolt with lead expansion sleeve set into drilled hole.
- .2 Install grab bars on built-in anchors provided by bar manufacturer.
- .3 Use tamper proof screws/bolts for fasteners.
- .4 Fill units with necessary supplies shortly before final acceptance of building.
- .5 Install mirrors by concealed mounting in accordance with manufacturer's printed instructions.

3.02 SCHEDULE

- .1 Locate accessories where indicated and as follows. Exact locations determined by Consultant.
- .2 Toilet tissue dispenser: one adjacent to each toilet.
- .3 Waste receptacle: one in each washroom.
- .4 Paper towel dispenser: adjacent to each sink.
- .5 Towel bar: one adjacent to each shower unit.
- .6 Grab bar: two in each barrier free washroom. Install in accordance with OBC requirements.
- .7 Robe hook: two for each toilet and shower unit.

- .8 Soap holder: one in each shower unit.
- .9 Soap dispenser: one at each lavatory.
- .10 Mirror: one at each lavatory.
- .11 Janitor's utility shelf: Mounted on side wall with one end over mop sink.
- .12 Pail hooks: mounted adjacent to slop sinks.

END OF SECTION