

PART 1 - GENERAL

1.2 REFERENCES

- .1 ASTM International
 - .1 ASTM A 167-99(2009), Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - .2 ASTM B 456-03, Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
 - .3 ASTM A 653/A 653M-09, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .4 ASTM A 924/A 924M-09, Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.81-M90, Air Drying and Baking Alkyd Primer for Vehicles and Equipment.
 - .2 CAN/CGSB-1.88-92, Gloss Alkyd Enamel, Air Drying and Baking.
 - .3 CGSB 31-GP-107MA-90, Non-inhibited Phosphoric Acid Base Metal Conditioner and Rust Remover.
- .4 CSA International
 - .1 CAN/CSA-B651-04, Accessible Design for the Built Environment.
 - .2 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Section 01330 - Submittal Procedures.
- .2 Product Data:
 - .1 Provide manufacturer's printed product literature and data sheets and include product characteristics, performance criteria, physical size, finish and limitations.

1.4 CLOSEOUT SUBMITTALS

- .1 Provide maintenance data for toilet and bath accessories for incorporation into manual specified in Section 01780 - Closeout Submittals.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- .1 Tools:
 - .1 Provide special tools required for assembly, disassembly or removal for toilet and bath accessories in accordance with requirements specified in Section 01780 - Closeout Submittals.
 - .2 Deliver special tools to Departmental Representative.

1.6 DELIVERY,
STORAGE AND
HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01610 - Basic Product Requirements.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements: Store materials in dry location and in accordance with manufacturer's recommendations. Store and protect from nicks, scratches, and blemishes. Replace defective or damaged materials with new.
- .4 Packaging Waste Management: remove for reuse and return packaging materials in accordance with Section 01355 - Waste Management and Disposal.

PART 2 -
PRODUCTS

2.2 COMPONENTS

- .1 Toilet tissue dispenser: double roll type, surface mounted, chrome plated steel frame, capacity of 500 double ply roll, roll under spring tension for controlled delivery.
- .2 Feminine napkin disposal bin: satin stainless steel, surface unit, drawn cover, full length piano hinge. 190 x 255 x 95mm
- .3 Hand dryer: listed under re-examination service of ULC and CSA approved.
 - .1 Mounting surface
 - .2 Wall box: 16 gauge steel.
 - .3 Cover: AB12 White polycarbonate casing.
 - .4 Motor: digital V4 brushless DC motor, 9200 RPM 120-127 V, 60 hz.
 - .5 Fan: double inlet centrifugal type, dynamically balanced
 - .6 Heaterless, 1400 W
 - .7 Proximity sensor
 - .8 Blade Type
 - .9 5 year part, 1 year labor warranty
- .4 Shower seat: shower seats, wood grain phenolic slats 5/16" x 3", stainless steel construction, surface mounted 18" from top of seat to floor, two in each barrier-free shower rooms, one in each other shower room.
- .5 Towel bar: 25 mm diameter stainless steel tubing, end brackets and concealed fasteners, 610 mm long.
- .6 Grab bars: 38 mm diameter x 1.6 mm wall tubing of stainless steel, 610mm and 915mm bars, one each per handicap fixture, wall flanges, concealed screw attachment, flanges welded to tubular bar, provided with steel back

plates and all accessories. Knurl bar at area of hand grips. Grab bar material and anchorage to withstand downward pull of 2.2 kN.

- .7 Plate glass mirror, 1/4" no. 1 quality, surface mounted on concealed wall hangers and secured with theft resistant locking screws. Bottom of the mirror to floor 38"
- .8 Recessed soap holder: recessed soap dish shall be fully recessed, tile finished, shower niche, 12" x 12" x 3.5", one per shower stall
- .9 Robe hooks, one adjacent each shower stall, stainless steel satin finish.
- .10 Diaper changing station: surface mounted wall unit, polyethylene insert, steel-on-steel hinge assembly, integral support mechanism, 864mm wide x 533 mm high diaper bag hook, liner dispenser, safety belt, safety instructions in both official languages graphic illustration, labeled with universally accepted symbol "changing station". Provide 3, one per washroom.

2.3 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 CAN/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.

2.4 FINISHES

- .1 Chrome and nickel plating: to ASTM B 456, [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. Color selected from standard range by Departmental Representative.
- .3 Manufacturer's or brand names on face of units not acceptable.

PART 3 - EXECUTION

- 3.1 EXAMINATION
- .1 Verification of Conditions: verify that conditions of substrates and surfaces to receive toilet and bathroom accessories previously installed under other Sections or Contracts are acceptable for product installation in accordance with manufacturer's instructions prior to toilet and bathroom accessories installation.

- .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
- .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval from Consultant.

3.2 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, existing plaster or drywall: use toggle bolts drilled into cell or wall cavity.
 - .3 Solid masonry, marble, stone or concrete: use bolt with lead expansion sleeve set into drilled hole.
 - .4 Toilet and shower compartments: use male to female through bolts.
- .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.

3.3 ADJUSTING

- .1 Adjust toilet and bathroom accessories components and systems for correct function and operation in accordance with manufacturer's written instructions.
- .2 Lubricate moving parts to operate smoothly and fit accurately.

3.4 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01740 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01740 - Cleaning.
- .3 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01355 - Waste Management and Disposal. Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.5 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by toilet and bathroom accessories installation.

3.6 SCHEDULE

- .1 Locate accessories where indicated. Exact locations determined by Consultant.
- .2 Toilet tissue dispenser: one in each toilet compartment mounting height 450 mm above finished floor.
- .3 Feminine napkin disposal bin: one in each female toilet compartment mounting height 450 mm above finished floor.
- .4 Hand dryer: one in each washroom. Maximum height of dispenser and operable part from floor 1200 mm.
- .5 Shower seat: mounting height from floor 430 mm.
- .6 Towel Bar: one at each shower, mounting height from floor 800mm.
- .7 Grab bar: two in each handicapped toilet compartment, one in each shower enclosure. Height of grab bar from floor 750 mm. Side grab bar: maximum distance from rear wall 300 mm, minimum distance passed front edge of toilet 450 mm.
- .8 Recessed Soap holder: one at each shower. Maximum height from floor 900 mm.

END OF SECTION