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**Partie 1            General**

**1.1                RELATED REQUIREMENTS**

- .1      Section 06 10 00 – Rough Carpentry.
- .2      Section 06 20 00 – Finish Carpentry.
- .3      Section 06 40 00 – Architectural Woodwork.
- .4      Section 10 21 13.13 – Metal Toilet Compartments.
- .5      Section 10 21 13.19 – Plastic Toilet Compartments.
- .6      Section 12 50 00 – Furniture.
- .7      Division 26 – Electricity.

**1.2                REFERENCES**

- .1      ASTM International
  - .1      ASTM A167-99(2009), Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
  - .2      ASTM B456-03, Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
  - .3      ASTM A653/A653M-09, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  - .4      ASTM A924/A924M-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.
- .3      CSA International
  - .1      CAN/CSA-B651-F04, Accessible Design for the Built Environment.
  - .2      CAN/CSA-G164-FM92(C2003), Hot Dip Galvanizing of Irregularly Shaped Articles.

**1.3                ACTION AND INFORMATIONAL SUBMITTALS**

- .1      Provide submittals in accordance with Section 01 33 00 - 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.

- .3 Shop Drawings:
  - .1 Indicate size and description of components, base material, surface finish inside and out, hardware and locks, attachment devices, description of rough-in-frame, and building-in details of anchors for grab bars.
- .4 Samples:
  - .1 Submit samples for each item identified in this section.
  - .2 Samples will be returned for inclusion into work.

#### **1.4 CLOSEOUT SUBMITTALS**

- .1 Provide maintenance data for toilet and bath accessories for incorporation into manual specified in Section 01 78 00 - 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 01 78 00 - 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 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .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:
  - .1 Store materials off ground, indoors, in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect toilet and bathroom accessories from nicks, scratches, and blemishes.
  - .3 Replace defective or damaged materials with new.
- .4 Packaging Waste Management: remove for reuse and return packaging materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

#### **1.7 ACCEPTABLE PRODUCTS AND MATERIALS**

- .1 Where a particular brand name is stipulated, see Instructions to Bidders for procedure for requesting approval of substitute materials and products

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**Partie 2        Products**

**2.1            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 No. 4 finish.
- .3     Sustainability Characteristics:
  - .1        Laminate Adhesives.
    - .1            Urea Formaldehyde Free.
- .4     Stainless steel tubing: Type 304, commercial grade, seamless welded, 1.2 mm wall thickness.
- .5     Chrome and nickle: to ASTM B456, most recent revision.
- .6     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.

**2.2            ACCESSORIES**

- .1     Accessory A1a:
  - .1        Combination towel dispenser/waste receptacle, large format: wall unit, surface mounted, approximately 330 mm wide, 1,397 mm high, 152 mm deep; stainless steel 22 ga. Suitable for dispensing folded paper towels. Waste bin. Leakproof moulded plastic insert, lockable access door with continuous full height stainless steel hinge.
    - .1            Acceptable products:
      - .1                Bradley, Model 2017-11.
      - .2                ASI Simplicity.
      - .3                Bobrick, Trimline series.
- .2     Accessory A1b:
  - .1        Combination towel dispenser/waste receptacle, small format : wall unit, recessed, approximately 362 mm wide, 718 mm high, 105 mm deep; stainless steel. Suitable for dispensing folded paper towels. Waste bin. Leakproof moulded plastic insert, lockable access door with continuous full height stainless steel hinge.
    - .1            Acceptable products:
      - .1                Bradley, Model 2297.
      - .2                ASI Simplicity.
      - .3                Bobrick, Trimline series.

- .3     Accessory A1c:
  - .1     Combination towel dispenser/waste receptacle, small format : wall unit, semi-recessed, approximately 330 mm wide, 1,397 mm high, 152 mm deep; 22-gallon capacity, stainless steel; Suitable for dispensing folded paper towels. Waste bin. 4.9-gallon capacity leakproof moulded plastic insert, lockable access door with continuous full height stainless steel hinge.
    - .1     Acceptable products:
      - .1     Bradley, model 2017-10.
      - .2     ASI Simplicity.
      - .3     Bobrick, Trimline series.
- .4     Accessory A2a:
  - .1     Counter soap dispenser: liquid; 102 mm spout, self-contained translucent polyethylene tank, stainless steel piston and valve assembly, tamper proof filler lock; under counter; exposed metal components chrome plated.
- .5     Accessory A2b:
  - .1     Wall soap dispenser: 159 mm high, 260 mm wide and 102 mm deep, liquid, push-in valve, self-contained translucent polyethylene 32oz tank; stainless steel piston and valve assembly, tamper proof filler lock; recessed; exposed metal components chrome plated.
- .6     Accessory A2c :
  - .1     Wall soap dispenser: de 124mm high, 208mm wide and 73mm deep, liquid, chrome plated brass soap valve, tamper proof filler lock; recessed; surface mounted; exposed metal components stainless steel satin finish.
- .7     Accessory A3a:
  - .1     Toilet tissue dispenser: double; stainless steel cabinet, hinged front panel, refill indicator slot, lock and key, 254 mm diameter.
- .8     Accessory A3b:
  - .1     Toilet tissue dispenser: vertical, double roll type, roll cover, satin finish stainless steel, 165 mm wide, 311mm high, 120 mm deep.
- .9     Accessory A3c:
  - .1     Toilet tissue dispenser: horizontal, semi-recessed, double roll type, roll cover, satin finish stainless steel, 315 mm wide, 155mm high, 120 deep.
- .10    Accessory A4:
  - .1     Feminine napkin/tampon disposal bin: satin finish stainless steel, semi-recessed, continuous hinge front panel, automatic closure, removable receptacles, moulded plastic, leak-proof, 330 mm wide, 441 mm high, 105 mm deep.
- .11    Accessory A5a and A5b:
  - .1     Robe hook: single stainless steel satin finish, 50 mm projection.

- .12    Accessory A6a:
  - .1       Prefabricated tilt mirror, 610mm x 1,550 mm, wall mounted, stainless steel frame.
- .13    Accessory A6b:
  - .1       Prefabricated tilt mirror, 610 mm x 1,016 mm, wall mounted, type mural, stainless steel frame.
- .14    Accessory 6c:
  - .1       Make-up mirror, integrated side lighting. Refer to drawings for sizes and location.
- .15    Accessory A7a:
  - .1       Diaper changing station: wall unit, surface mounted, stainless steel trim, steel-on-steel hinge, integral support mechanism, 953 mm wide, 549 mm high, safety belt, safety instructions in English and French, graphic illustration, to ASTM F2285.
    - .1           Acceptable product:
      - .1               Bradley model 962-11.
      - .2               Replacement product approved by addendum in accordance with Instructions to Bidders.
- .16    Accessory A7b:
  - .1       Folding diaper changing station: wall unit, recessed, stainless steel trim, steel-on-steel trim, integral support, 953 mm high, safety belt, safety instructions in English and French, graphic illustration, to ASTM F2285.
    - .1           Acceptable product:
      - .1               Bradley model 962
      - .2               Replacement product approved by addendum in accordance with Instructions to Bidders.
- .17    Accessories A8a and A8b:
  - .1       Grab bars: stainless steel 1.6 mm thick tubing, 38 mm diameter wall flanges, concealed screw attachment, flanges welded to tubular bar provided with steel back plates and all accessories; Grab bar material and anchorage to withstand downward pull of 2.2 kN. 610mm and 915 mm, as indicated on drawings.
- .18    Accessory A9a:
  - .1       Shelf: wall mounted, 254 mm deep and 610 mm wide, stainless steel.
- .19    Accessory A9b:
  - .1       Shelf: wall mounted, 305 mm deep and 610 mm wide, stainless steel.
- .20    Accessory A10:
  - .1       Towel holder: wall mounted, 305 mm deep and 610 mm wide, stainless steel.

- .21 Accessory A11:
  - .1 Shower rods: stainless, 1.2 mm wall thickness, of required length with satin chrome finished flanges.
  - .2 12 shower curtain hooks and curtain hold-back hook and chain; Shower rod material and anchorage to withstand downward pull of 0.9 kN.
  - .3 White shower curtain: 225g, antimicrobial.
- .22 Accessory A12:
  - .1 Shower seat: wall mounted hinged, stainless steel frame and phenolic seat 13 mm thick, white laminate, 381mm deep, 724mm wide, load up to 400 lbs.
- .23 Hand dryer: Refer to Division 26.

## 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 B456, satin 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 Departmental Representative.
- .3 Manufacturer's or brand names on face of units not acceptable.

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**Partie 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 Departmental Representative.

**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.
- .5      Install mirrors in accordance with Section 08 80 50 - Glazing.
- .6      Place accessories as indicated on drawings for required alignments with adjacent finishes.

**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 01 74 11 - 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 01 74 11 - Cleaning.

**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 as follows. Exact locations determined by Departmental Representative.
- .2 Toilet tissue dispenser: one in each toilet compartment mounting height as indicated on drawings.
- .3 Paper towel dispenser: one in each washroom. Maximum height of dispenser and operable part from floor as indicated on drawings.
- .4 Soap dispenser: one at each wash basin.
- .5 Feminine napkin/tampon dispenser: one for each female washroom. Maximum height of dispenser and operable part from floor as indicated on drawings.
- .6 Shower rod and curtain: one at each shower compartment; mounting height: 450 mm above finished floor.
- .7 Shower seat: one at each shower, mounting height from floor: 450 mm.
- .8 Grab bar: two in each handicapped toilet compartment. Height of grab bar: as indicated on drawings.
- .9 Robe hook: as indicated on drawings.
- .10 Waste receptacle: as indicated on drawings.
- .11 Tilt mirror: one at each handicapped accessible wash basin; or as indicated on drawings.
- .12 Shelf: as indicated on drawings.
- .13 Diaper changing station: one in each public washroom accessible from the ground floor and one in each public washroom in the basement (total: 4).

**END OF SECTION**