

PLASTIC LAMINATE TOILET COMPARTMENTS**SECTION 10165****PART 1 - GENERAL****1.01 SECTION INCLUDES**

- A. Overhead braced plastic laminate toilet partitions.
- B. Attachment hardware.

1.02 PRODUCTS FURNISHED BUT NOT INSTALLED UNDER THIS SECTION

- A. Section 06100: Wall reinforcement for concealed in-wall construction.

1.03 RELATED SECTIONS

- A. Section 09260 - Gypsum Wallboard Systems: Wall reinforcement for concealed in-wall construction.
- B. Section 10800 - Toilet Accessories.

1.04 REFERENCES

- A. ANSI A117.1 - Specifications for Making Buildings and Facilities Accessible to and Usable by the Physically Handicapped.
- B. ADA - Accessibility Guidelines for Buildings and Facilities. Federal Register Volume 56, Number 144, Rules and Regulations.
- C. ANSI A208.1 - Mat Formed Wood Particleboard.
- D. APA - American Plywood Association.
- E. ASTM A167 - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- F. NEMA LD-3 - High Pressure Decorative Laminates.

1.05 SUBMITTALS

- A. Submittals under provisions of Section 01300.
- B. Submit shop drawings indicating partition layout and dimensions, panel and door sizes, door swings, elevations, anchorage and mounting details, and finishes.
- C. Submit two standard samples illustrating panel colors.
- D. Submit manufacturer's installation instructions under provisions of Section 01300.

1.06 REGULATORY REQUIREMENTS

- A. Conform to ANSI A117.1 and applicable code for provisions for the physically handicapped.

1.07 FIELD MEASUREMENTS

- A. Verify field measurements are as shown on shop drawings.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Equal to Bobrick Washroom Equipment, Series 1042 Toilet Partitions and Series 1045 Urinal Screens.

2.02 MATERIALS

- A. Wood Particleboard Core: 3-ply, 45 pound density, resin impregnated particle board with the stile particle board bonded to 11 gauge steel core.
- B. Plastic Laminate: NEMA LD-3, General Purpose type 0.50 inch thick.
 - 1. "Low pressure" laminates are not acceptable.
- C. Adhesive: Manufacturer's standard.
- D. Stainless Steel Hardware: 18-8, type 304 stainless steel with satin finish.
 - 1. Chrome plates "Zamac" is not permitted.

2.03 ACCESSORIES

- A. Pilaster Shoe: ASTM A167, Type 304 stainless steel, 20 gauge, 4 inches high with adjustable screw jack.
- B. Brackets, Screws, and Bolts: Stainless steel or heavy duty extruded aluminum brackets.
- C. Through Bolts and Nuts: Stainless steel.
- D. Steel Plate Reinforcement: Carbon steel, prepared for fasteners, 11 gauge.
- E. Leveling Device: 3/8" x 1" steel bar welded to 11 gauge steel reinforcing core. Leveling device shall be chromate treated and double zinc plate.

2.04 HARDWARE

- A. Hinges: Stainless steel pivot hinges, gravity type, adjustable for door close positioning, self-lubricating nylon bearings.
 - 1. Cam shall be adjustable in the field to permit door to be fully closed or partially open when compartment is unoccupied.
 - 2. Hinges shall be attached to door and stile by theft resistant one-way stainless steel machine screws into factory installed metal inserts. Fasteners secured directly into the core are not acceptable.
 - 3. Metal to metal connection shall withstand a direct pull of over 540 lbs. per screw.
- B. Latch and Keeper: Thumb turn or sliding door latch, door strike and keeper with rubber bumper.
 - 1. Latch track shall be attached to door by theft resistant one-way stainless steel machine screws into factory installed metal inserts.
 - 2. Metal to metal connection shall withstand a direct pull of over 940 lbs. per screw.
- C. Coat Hook: Stainless steel coat hook shall project no more than 1-1/8" from face of door and shall be secured by theft resistant one-way stainless steel screws.

2.05 FABRICATION

- A. Fabricate partitions by applying single sheet plastic laminate finish to faces and edges of core material using adhesive and pressure bonding. Seal edges of cut-outs. Bevel corners and edges.
 - 1. Splices or joints in faces or edges are not permitted.
- B. Reinforce pilaster with steel plate reinforcement sandwiched within particle core at attachment points. Router cut openings as required.
- C. Thickness of Partition Panels and Doors: 1 inch.
- D. Thickness of Pilasters: 1 ¼ inch.
- E. Doors: 24" wide except 34" wide swing out doors (to provide 32" clear opening) at stalls for use by the handicapped.
- F. Fabricate overhead brace of a continuous extruded aluminum tube.

2.06 FINISHES

- A. Plastic Laminate: Matte finish color as selected from manufacturer's standard colors.
- B. Stainless Steel Surfaces: No. 4 finish.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that openings are ready to receive work.
- B. Verify field measurements are as shown on shop drawings.
- C. Verify correct location of built-in framing, anchorage, bracing, and plumbing fixtures.
- D. Beginning of installation means installer accepts existing conditions.

3.02 ERECTION

- A. Erect in accordance with manufacturer's instructions.
- B. Install partition components secure, plumb and level.
- C. Attach panel brackets securely to walls and loors using appropriate anchor devices.
- D. Attach panels and pilasters to brackets with through bolts and nuts. Locate headrail joints at pilaster center line.
- E. Provide 1/2 inch space between wall surface and panels or pilasters.
- F. Provide for adjustment of floor variations with screw jack through steel saddles integral with pilaster. Conceal floor fastenings with pilaster shoes.
- G. Equip each toilet stall door with top and bottom hinges, and door latch.
- H. Install door strike keeper on each pilaster in alignment with door latch.
- I. Equip each toilet stall door with one coat hook and bumper.

3.03 ERECTION TOLERANCES

- A. Maximum Variation From Plumb or Level: 1/8 inch .
- B. Maximum Misplacement From Intended Position: 1/8inch

3.04 ADJUSTING

- A. Adjust and align door hardware to uniform clearance at vertical edges of doors. Clearance space not to exceed 3/16 inch.
- B. Adjust door hinges so that free movement is attained and will locate in-swinging doors in partial open position when unlatched, out-swinging doors shall return to fully closed position.

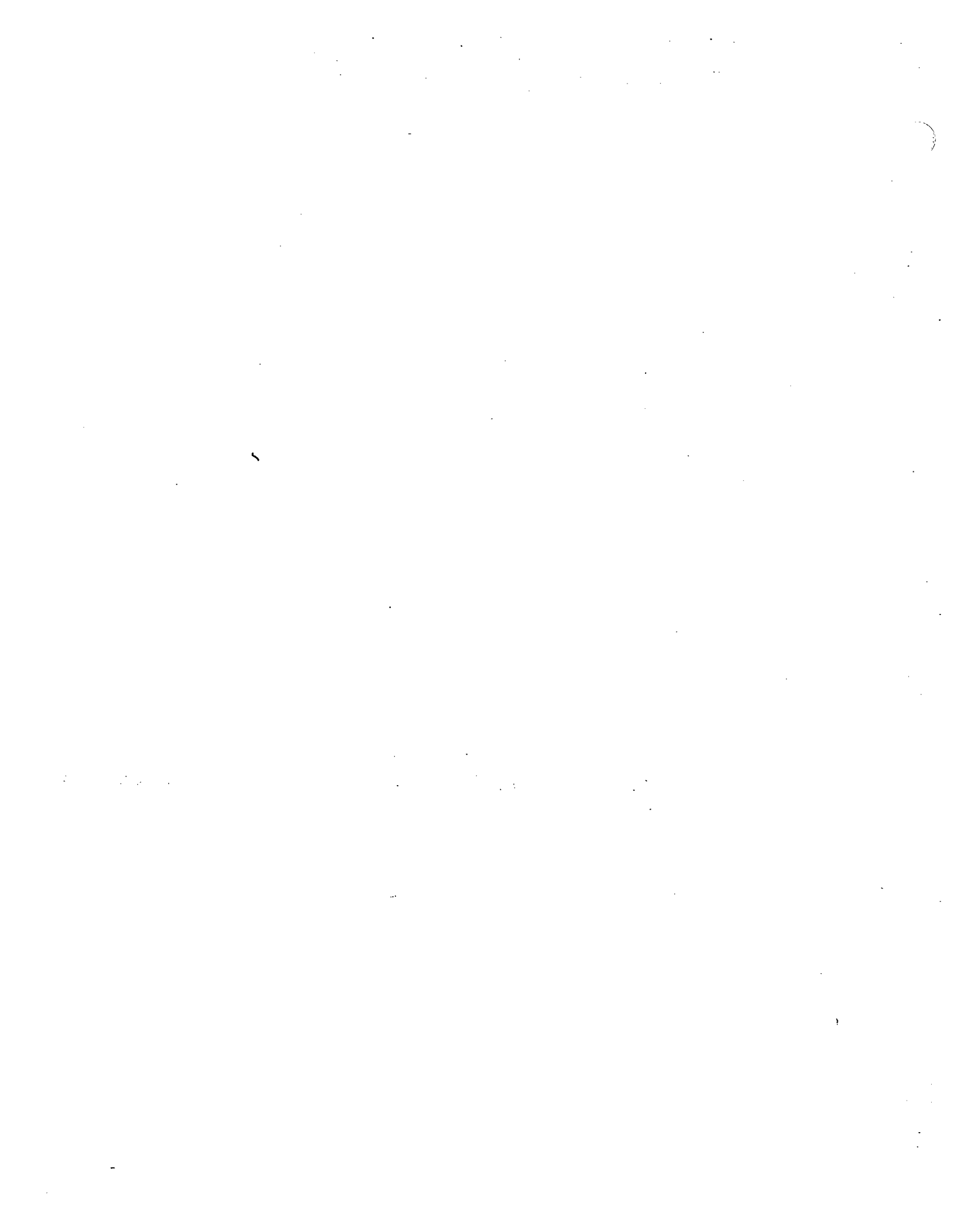
3.05 CLEANING

- A. Clean work under provisions of Section 01700.
- B. Remove protective coverings, if any.
- C. Clean surfaces and hardware.

3.06 PROTECTION OF FINISHED WORK

- A. Protect finished installation under provisions of Section 01500.
- B. Field touch-up of finished surfaces will not be permitted. Replace damaged components.

END OF SECTION



FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES**SECTION 10522****PART 1 - GENERAL****1.01 SECTION INCLUDES**

- A. Fire extinguishers on mounting brackets.

1.02 REFERENCES

- A. ANSI/NFPA 10 - Portable Fire Extinguishers.
- B. ANSI/UL 92 - Fire Extinguisher and Booster Hose.
- C. ANSI/UL 711 - Rating and Fire Testing of Fire Extinguishers.
- D. UL 299 - Dry Chemical Fire Extinguishers.

1.03 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Provide extinguisher operational features, color and finish and anchorage details.
- C. Manufacturer's Installation Instructions: Indicate special criteria and wall opening coordination requirements.

1.04 OPERATION AND MAINTENANCE DATA

- A. Submit under provisions of Section 01700.
- B. Maintenance Data: Include test, refill or recharge schedules and re-certification requirements.

1.05 QUALITY ASSURANCE

- A. Provide units conforming with ANSI/UL 711 or ANSI/UL 92

1.06 REGULATORY REQUIREMENTS

- A. Conform to applicable code for requirements for extinguishers.

1.07 ENVIRONMENTAL REQUIREMENTS

- A. Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients.

PART 2 - PRODUCTS

2.01 EXTINGUISHERS

- A. Multi-Purpose Dry Chemical Type: UL 299, Cast steel tank, with pressure gage; U.L. rating 2A-10B:C, 5 lb. capacity for Class A, B and C fires.
 - 1 Provide above at all locations except provide 4A-60B:C, 10 lb. capacity at Mechanical Rooms.

2.02 ACCESSORIES

- A. Extinguisher Brackets: Prefinished steel, white enamel finish.

2.03 FINISHES

- A. Extinguisher: Steel, enamel to red color.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install in accordance with manufacturer's printed instructions.
 - 1. Location: As indicated on the Drawings and if not indicated, provide units and install at location directed by the Architect as required by NFPA 10.
 - 2. Mount extinguishers less than 40 lbs. at 5 feet above floor and units more than 40 lbs. shall be mounted at 3-1/2 feet above the floor.
- B. Secure rigidly in place.

END OF SECTION

TOILET ACCESSORIES**SECTION 10800****PART 1 - GENERAL**

1.01 SECTION INCLUDES

- A. Toilet accessories, see schedule and products on the drawings
- B. Attachment hardware.

1.02 PRODUCTS FURNISHED BUT NOT INSTALLED UNDER THIS SECTION

- A. Section 06100 - Carpentry or 09260 Gypsum Board Systems: Installation of concealed anchor devices and backing plate reinforcement.

1.03 RELATED SECTIONS

- A. Section 09260 Gypsum Board Systems: In wall framing and plates for support of accessories.

1.04 REFERENCES

- A. ADA - American with Disabilities Act of 1990, Title III (Accessibility Regulations for Private Entities) and latest amendments (if any).
- B. ANSI A117.1 - Specifications for Making Buildings and Facilities Accessible To and Usable by Physically Handicapped People.
- C. ANSI/ASTM A123 - Zinc (Hot-Dip Galvanized) Coatings on Products Fabricated from Rolled, Pressed, and Forged Steel Shapes, Plates, Bars and Strips.
- D. ANSI/ASTM A366 - Steel, Carbon, Cold-Rolled Sheet, Commercial Quality.
- E. ANSI/ASTM B456 - Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
- F. ASTM A167 - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip.
- G. ASTM A269 - Seamless and Welded Austenitic Stainless Steel Tubing for General Service.

1.05 SUBMITTALS

- A. Submit product data under provisions of Section 01300.
- B. Provide product data on accessories describing size, finish, details of function, attachment methods. Include schedule showing proposed model numbers and mounting heights.

1.06 KEYING

- A. Supply two keys for each accessory to Owner.
- B. Master key all accessories.

1.07 REGULATORY REQUIREMENTS

- A. Conform to applicable code for installing work in conformance with ANSI A117.1.
- B. Comply with requirements of the American with Disabilities Act of 1990, Title III (Accessibility Regulations for Private Entities) and latest amendments (if any).

1.08 SEQUENCING AND SCHEDULING

- A. Coordinate the work of this Section with the placement of internal wall reinforcement and reinforcement of toilet partitions to receive anchor attachments.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. The Drawings and Specifications are based on products manufactured by Bobrick Washroom Equipment, Inc., unless otherwise indicated in the Accessory Schedule, to establish standards of quality and design. The following manufacturers are acceptable to provide products equal to those specified:
 - 1. Bradley Corporation
 - 2. The Charles Parker Company
 - 3. American Specialties, Inc.
 - 4. American Dispenser Company

2.02 MATERIALS

- A. Sheet Steel: ANSI/ASTM A366.
- B. Stainless Steel Sheet: ASTM A167, Type 304.
- C. Tubing: ASTM A269, stainless steel.
- D. Fasteners, Screws, and Bolts: Hot dip galvanized.
- E. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.03 FABRICATION

- A. Weld and grind smooth joints of fabricated components.

- B. Form exposed surfaces from single sheet of stock, free of joints.
- C. Form surfaces flat without distortion. Maintain flat surfaces without scratches or dents.
- D. Back paint components where contact is made with building finishes to prevent electrolysis.
- E. Shop assemble components and package complete with anchors and fittings.
- F. Provide stainless steel anchor plates, adapters, and anchor components for installation.
- G. Hot dip galvanize exposed, painted ferrous metal and fastening devices.
- H. Comply with fabrication standards indicated by the established quality standard with attention brought to the following requirements:
 - 1. Grab Bars: Minimum 13 gauge stainless steel tenon plates, bar return of 90 degrees, shot and concealed mounting to withstand loads specified herein and required by ADA.
 - a. Provide 16 gauge stainless steel back plate anchor at toilet partitions.
 - 2. Pulls: Stainless steel pulls; applied plastic pulls are not acceptable.
 - 3. Waste Receptacles: Removable from frame and all edges hemmed, full backs of stainless steel.
 - 4. Towel Dispensers: All exposed edges hemmed, full backs of stainless steel.
 - 5. Trim Flanges: One-piece seamless construction without mitered corners.
 - 6. Hinges: Stainless steel full length piano hinges at all doors and lids.

2.04 GRAB BARS PERFORMANCE REQUIREMENTS

- A. Size and Spacing of Grab Bars: The diameter or width of the gripping surfaces of a grab bar shall be 1-1/4 inch to 1-1/2 inch or the shape shall provide an equivalent gripping surface. If grab bars are mounted adjacent to a wall, the space between the wall and the grab bar shall be 1-1/2 inch.
- B. Structural Strength: The structural strength of grab bars, fasteners, and mounting devices shall meet the following specifications:
 - 1. Bending stress in a grab bar induced by the maximum bending moment from the application of 250 lbf shall be less than the allowable stress for the material of the grab bar.
 - 2. Shear stress induced in a grab bar by the application of 250 lbf shall be less than the allowable shear stress for the material of the grab bar. If the connection between the grab bar and its mounting bracket or other support is considered to be fully

restrained, then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress.

3. Shear force induced in a fastener or mounting device from the application of 250 lbf shall be less than the allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.
4. Tensile force induced in a fastener by a direct tension force of 250 lbf plus the maximum moment from the application of 250 lbf shall be less than the allowable withdrawal load between the fastener and the supporting structure.
5. Grab bars shall not rotate within their fittings.

2.05 FACTORY FINISHING

- A. Galvanizing: ANSI/ASTM A123 to 1.25 oz/sq yd.
- B. Shop Primed Ferrous Metals: Pretreat and clean, spray apply one coat primer and bake.
- C. Enamel: Pretreat to clean condition, apply one coat primer and minimum two coats electrostatic baked enamel.
- D. Chrome/Nickel Plating: ANSI/ASTM B456, Type SC 2 satin finish.
- E. Stainless Steel: No. 4 satin luster finish.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that site conditions are ready to receive work and dimensions are as indicated on shop drawings or as instructed by the manufacturer.
- B. Beginning of installation means acceptance of existing conditions.

3.02 PREPARATION

- A. Deliver inserts and rough-in frames to site at appropriate time for building-in.
- B. Provide templates and rough-in measurements as required.
- C. Verify exact location of accessories for installation.

3.03 INSTALLATION

- A. Install fixtures, accessories and items in accordance with manufacturers' printed instructions.

- B. Install plumb and level, securely and rigidly anchored to substrate with concealed fastening system.
- C. Install concealed mounting devices and fasteners fabricated of the same material as the accessories.
- D. Install exposed mounting devices and fasteners finished to match the accessories.
- E. Provide theft-resistant fasteners for all accessory mountings.
- F. Secure toilet room accessories in accordance with the manufacturer's instructions for each item and each type of substrate construction.
 - 1. Where no mounting height is indicated on the Drawings, install accessories at heights recommended by the manufacturers to comply with ADA requirements which shall be verified with the Architect.

3.04 CLEANING

- A. Remove soil, stain, and extraneous materials caused by accessory installation.
- B. Remove and replace items and materials that cannot be satisfactorily cleaned.

3.05 SCHEDULE

- A. Refer to Schedule on the drawings.

END OF SECTION

