

# *DIVISION 10*

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SPECIALTIES

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## SECTION 10165

### STAINLESS STEEL TOILET COMPARTMENTS

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. Section Includes:
  - 1. Stainless steel toilet compartments, floor and ceiling anchored.
  - 2. Stainless steel urinal screens, wall hung.
- B. Related Sections:
  - 1. Section 05500 - Metal Fabrications for supports that attach floor-and-ceiling-anchored units to overhead structural system.
  - 2. Section 10800 - Toilet Room Accessories for toilet tissue dispensers, grab bars, purse shelves, and similar accessories.

##### 1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's specifications for materials, fabrication, and installation. Include details of anchors, hardware, fastenings, and accessories.
- B. Shop drawings: Submit dimensioned layout drawings for fabrication and erection of toilet compartment assemblies, templates, and instructions for installation of anchorage devices built into other work.
- C. Samples for Verification: Of each type of color and finish required for units, prepared on 6-inch- (150-mm-) square Samples of same thickness and material indicated for Work.

##### 1.3 QUALITY ASSURANCE

- A. Accessibility: Provide compartments indicated to be accessible, including doors and hardware, that comply with 28 CFR Part 36 "ADA Accessibility Guidelines for Buildings and Facilities". Notify the Authorized Representative and Architect of any observed conflicts between requirements indicated for this Project and the ADA Guidelines.
- B. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication where possible to ensure proper fitting of work. However, allow for adjustments where taking of field measurements before fabrication might delay work.
- C. Coordination: Furnish inserts and anchorages, which must be built into other work for installation of toilet compartments and related items. Coordinate delivery with other work to avoid delay.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products which may be incorporated in the Work include, but are not limited to, the following:
1. Mills/Bradley, Inc.
  2. Accurate Partitions Corp.
  3. Bobrick Washroom Equipment, Inc.
  4. Columbia Partitions (Partitions Systems, Inc.)

### 2.2 MATERIALS

- A. General: Provide materials, which have been selected for surface flatness and smoothness. Exposed surfaces, which exhibit pitting, seam marks, roller marks, stains, discolorations, telegraphing of core material, or other imperfections on finished units are not acceptable.
1. Doors, panels, pilasters, and urinal screens shall be manufactured with a double-faced honeycomb core that is bonded under pressure to the stainless steel with a non-toxic adhesive to ensure solid construction and sound attenuation. All the stainless steel components shall be assembled with a continuous roll-formed interlocking, 22-gauge stainless steel crown molding welded and ground smooth at the corners.
  2. Core Material: Manufacturer's standard sound-deadening honeycomb of resin-impregnated kraft paper in thickness required to provide finished thickness of 1 inch (25 mm) for doors and panels and 1-1/4 inches (32 mm) for pilasters.
  3. Grab-Bar Reinforcement: Provide concealed internal reinforcement for grab bars mounted on units.
- B. Stainless Steel Sheet: ASTM A 666, Type 302 or 304, stretcher-leveled flatness, finished to No. 4 directional polish (as per NAAMM) in the following minimum thickness:
1. Pilaster: 0.0375 inch
  2. Pilasters, Unbraced at One End: Manufacturer's standard thickness, but not less than 0.050 inch
  3. Panels and Screens: 0.040-inch.
  4. Doors: 0.0312 inch
  5. Integral-Flange, Wall-Hung Urinal Screens: Manufacturer's standard thickness, but not less than 0.0312 inch (0.8 mm).
- C. Reinforcement for Metal Partitions:
1. Concealed Anchorage Reinforcement: Minimum 0.105 inch (12 gage), galvanized steel sheet or 3" x 7/8" particle board across panel.
    - a. Concealed Tapping Reinforcement: Minimum 0.075 inch (14 gage) galvanized steel sheet or 3" x 7/8" particle board across panel.

- D. Pilaster Shoes and Caps: ASTM A 167, Type 302/304 stainless steel, not less than 3 inches high, 0.0396 inch thick (20 gage), finished to match hardware.
- E. Stirrup Brackets: Cast brackets for attaching panels to walls and pilasters, either stainless steel or chromium-plated brass alloy.
- F. Hardware and Accessories: Shall be heavy duty cast stainless steel or chromium-plated cast brass alloy.
- G. Pilaster Anchors: Furnish galvanized or zinc-plated steel anchorage devices complete with threaded rods, lock washers, and leveling adjustment nuts at pilasters to provide structural connection at supporting construction. Provide shoe or cap at each pilaster to conceal anchorage.
- H. Overhead Bracing: Continuous extruded aluminum, anti-grip profile, with clear anodized finish.
- I. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel, chromium-plated or zinc-plated steel, or brass, finished to match hardware, with theft-resistant-type heads and nuts. For concealed anchors, use hot-dip galvanized, zinc-plated, or other rust-resistant protective-coated steel.

## 2.3 FABRICATION

- A. General: Furnish standard doors, panels, screens, and pilasters fabricated for compartment system. Furnish units with cutouts, drilled holes, and internal reinforcement to receive partition-mounted hardware, accessories, and grab bars, as indicated.
- B. Door Dimensions: Unless otherwise indicated, furnish 24-inch wide in-swinging doors for ordinary toilet stalls and 32-inch wide (clear opening) out-swinging doors for stalls equipped for use by handicapped.
- C. Panels: The faces of all panels 58" or less in width shall be formed from a single sheet of steel and be free of any seams.
- D. Floor-and-Ceiling-Anchored Units: Provide manufacturer's standard corrosion-resistant anchoring assemblies complete with leveling adjustment at tops and bottoms of pilasters. Provide stainless steel shoes and sleeves (caps) at pilasters to conceal anchorage.
- E. Locking Devices: Furnish flush, screw driver-operated cam locks of number required to hold door in flush, smooth plane when closed.
- F. Hardware: Furnish hardware for each compartment to comply with ANSI A117.1 for handicapped accessibility and as follows:
  - 1. Hinges: Cutout inset type, adjustable to hold door open at any angle up to 90 degrees. Provide gravity type, spring-action cam type, or concealed torsion rod type to suit manufacturer's standards.

2. Latch and Keeper: Recessed latch unit, designed for emergency access, with combination rubber-faced door strike and keeper.
  - a. Latch and Keeper (Handicapped): Recessed latch unit with oversized handle similar to Accurate ADA "Paddle" handle, designed for handicapped accessibility and emergency access, with combination rubber-faced door strike and keeper.
3. Coat Hook: Manufacturer's standard unit, combination hook and rubber-tipped bumper, sized to prevent door hitting mounted accessories.
4. Door Pull: Manufacturer's standard unit for out-swinging doors. Provide pulls on both faces of handicapped compartment doors.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. General: Comply with manufacturer's recommended procedures and installation sequence. Install compartment units rigid, straight, plumb, and level. Provide clearances of not more than ½ inch between pilasters and panels, and not more than 1 inch between panels and walls. Secure panels to walls with not less than two stirrup brackets attached near top and bottom of panel. Locate wall brackets so that holes for wall anchorages occur in masonry or tile joints. Secure panels to pilasters with not less than two stirrup brackets located to align with stirrup brackets at wall. Secure panels in position with manufacturer's recommended anchoring devices.
- B. Floor-Anchored Units: Set pilasters with anchors penetrating not less than 2 inches (50 mm) into structural floor, unless otherwise indicated in manufacturer's written instructions. Level, plumb, and tighten pilasters. Hang doors and adjust so tops of doors are level with tops of pilasters when doors are in closed position.
- C. Floor-and-Ceiling-Anchored Units: Secure pilasters to supporting construction and level, plumb, and tighten. Hang doors and adjust so doors are level and aligned with panels when doors are in closed position.

#### 3.2 ADJUST AND CLEAN

- A. Hardware Adjustment: Adjust and lubricate hardware for proper operation. Set hinges on in-swinging doors to hold open approximately 30 degrees from closed position when unlatched. Set hinges on out-swinging doors (and entrance swing doors) to return to fully closed position.
- B. Cleaning: Clean exposed surfaces of partition systems using materials and methods recommended by manufacturer, and provide protection as necessary to prevent damage during remainder of construction period.

### 3.3 COMPLETION

- A. Workmanship: Compartments shall be securely attached, straight, level and plumb. Surfaces shall be clean, uniform, and undamaged, with plastic laminate fully adhered and without telegraphing. Hardware and fittings shall be complete and rigidly attached. Fasteners shall be snug and free of burred and damaged heads. Remove markings used for locating and installing compartments.
- B. Repairs and Replacements: Remove and replace with new material damaged and defective items. Repair, or remove and replace, other work, which is damaged as a result of toilet partition work.

END OF SECTION



## SECTION 10423

### DIMENSIONAL LETTERS

#### 1 GENERAL

##### 1.1 SUMMARY

- A. Section Includes:
1. Interior/exterior dimensional letters of cut metal construction.

##### 1.2 QUALITY ASSURANCE

- A. Supplier: Obtain all signage products in this and other signage specifications through a single supplier from a single manufacturer.
- B. Regulatory Requirements: Products shall meet requirements of the Americans With Disabilities Act Accessibility Guidelines (ADAAG) and local amendments and modifications.
- C. Installer: Installation shall be performed by installer specialized and experienced in work similar to that required for this project.

##### 1.3 SUBMITTALS

- A. Product Data: Submit product data for specified products. Include material details for each sign specified.
- B. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including dimensions, anchorage, and accessories.
- C. Sample for initial selection: Submit supplier's standard color chart for selection purposes and selected colors for verification purposes. Provide each type of sign, including actual samples of each letter style and size required showing finish, texture and mounting method.
- D. Installation: Submit supplier's installation instructions.
- E. Closeout Submittals:
1. Submit operation and maintenance data for installed products, including precautions against harmful cleaning materials and methods.
  2. Submit warranty documents specified herein.

##### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Comply with the following requirements:
1. Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
  2. Deliver products in manufacturer's original, unopened, undamaged containers with identification labels intact.
  3. Store products protected from weather, temperature, and other harmful conditions as recommended by supplier.
  4. Handle products in accordance with manufacturer's instructions.

5. Sign vendor to provide online reorder website to owner upon completion. Reorder website shall include order forms and sign drawings.

## 1.5 WARRANTY

- A. Manufacturer's Warranty: Submit manufacturer's standard warranty document executed by authorized company official.
  1. Warranty Period: One year from date of substantial completion. Warranty specifically excludes letter mounting substrate.

## 2 PRODUCTS

### 2.1 SIGNAGE SYSTEMS

- A. Manufacturers: Provide one of the following:
  1. ASI Signage Innovations (Basis of design)
    - a) Product: ASI LPS Series Cut Metal Dimensional Letters
  2. Innerface Sign Systems
  3. Metal Graphics Inc.
- C. LPS Series Water Jet Cut Solid Metal Dimensional Letters Cut Solid Bronze in Oxidized Bronze Finish.
  4. Letterstyle: As noted on Drawings.
  5. Letter Cap Height: As noted on drawings.
  6. Letter Depth: 1/4-inch
  7. Mounting Method: Projecting Stud Mount 1/4-inch deep
  8. To Read: See Drawing for Details.

### 2.2 FABRICATION - GENERAL

- A. General: Comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.
- B. Design, fabricate, and install sign assemblies to prevent buckling, opening up of joints, and over-stressing of welds and fasteners.
- C. Mill joints to a tight, hairline fit. Form joints exposed to the weather to exclude water penetration.
- D. Conceal fasteners if possible; otherwise, locate fasteners where they will be inconspicuous.
- E. Create signage to required sizes and layout. Comply with requirements indicated for design, dimensions, finish, color, and details of construction.

## 3 EXECUTION

### 3.1 EXAMINATION

- A. Site Verification of Conditions: Verify installation conditions previously established under other sections are acceptable for product installation in accordance with manufacturer's instructions.

- B. Scheduling of installation by Owner or it's representative implies that substrate and conditions are prepared and ready for product installation. Proceeding with installation implies installer's acceptance of substrate and conditions.

### 3.2 INSTALLATION

- A. Install product in accordance with supplier's instructions.
- B. Install product in locations indicated using mounting methods recommended by sign manufacturer and free from distortion, warp, or defect adversely affecting appearance.
- C. Install product level, plumb, and at heights indicated.
- D. Install product at heights to conform to Americans with Disabilities Act Accessibility Guidelines (ADAAG) and applicable local amendments and regulations.
- E. Install signs within the following tolerances and in accordance with manufacturer's recommendations:
  - 1. Exterior Signs: Within 1 inch vertically and horizontally of intended location.

### 3.3 CLEANING, PROTECTION, AND REPAIR

- A. Repair scratches and other damage which might have occurred during installation. Replace components where repairs were made but are still visible to the unaided eye from a distance of 10 feet.
- B. Remove temporary coverings and protection to adjacent work areas. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project in accordance with provisions in Division 1.

### 3.4 SIGN SCHEDULE

- A. Schedule: Refer to signage schedule and Drawings for sizes, locations, and layout of signage types, sign text copy, and graphics as specified and as indicated on the drawings.

END OF SECTION



## SECTION 10440

### INTERIOR SIGNAGE

#### PART 1 - GENERAL

##### 1.1 SUMMARY

###### A. Section Includes:

1. Interior pictograph signs/inner dot tactile/Braille ADA plaque.
  - a. Signs required as specified and as shown on Drawings.

###### B. Related Sections:

1. Section 01500 - Temporary Facilities and Controls: Temporary project identification signs.
2. Division 15: For labels, tags, and nameplates for mechanical equipment.
3. Division 16: For labels, tags, and nameplates for electrical equipment and illuminated signs.

##### 1.2 SUBMITTALS

###### A. Product Data: Submit manufacturer's construction details relative to materials, dimensions of individual components, profiles, and finishes for each type of sign required.

###### B. Shop Drawings: Show fabrication and installation details for signs.

1. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
2. Provide message list, typestyles, graphic elements, including tactile characters and Braille, and layout for each sign.

###### C. Samples: For each of the following products and for the full range of color, submit one (1) sample for each sign to show finishes, colors, textures & quality of manufacturer, design of sign including graphics:

###### D. Sign Schedule: Use same designations indicated on Drawings.

##### 1.3 QUALITY ASSURANCE

###### A. Single-Source Responsibility: For each separate type of sign required, obtain signs from one source from a single manufacturer.

###### B. Design Criteria: The drawings indicate size, profiles, dimensional requirements and graphics layout of signs and are based on the specific type and model indicated. Signs by other manufacturers may be considered provided that deviations in dimensions and profiles are minor and do not change the design concept as judged by the Architect. The burden of proof of "equals" is on the proposer.

- C. Regulatory Requirements: Signage shall meet the requirements of the Americans with Disabilities Act - 1990 and ANSI 117.1.

#### 1.4 WARRANTY

- A. Warranty: Provide manufacturer's standard one-year warranty covering manufacturing defects.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide "Interior Signage" by Metal Graphics or a comparable product by one of the following:
1. Metal Graphics
  2. ACE Sign Systems, Inc.
  3. Innerface Sign Systems, Inc.
  4. ASI Signage Innovations; ASI Cast Plaques (Basis-of-design)
  5. Prior approved equal.

#### 2.2 MATERIALS

- A. Interior Panel Signs: Provide smooth sign panel surfaces constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch (1.5 mm) measured diagonally from corner to corner, complying with the following requirements:
1. Sign Material: A minimum of 0.25 inch thick, high impact polyester acrylate resins, pressure molded into a single polymerized component, semi-matte finish.
    - a. Color: Satin Aluminum - Modulex 15.
    - b. Surface Texture: Stipple non-glare background texture.
  2. Sign: As indicated in schedule.
  3. Copy/Symbol: 1/16 inch compressed acrylic, semi-matte finish. Color to be Black-SC-905
  4. Mounting: Unframed.
    - a. Wall mounted with neoprene applied to the entire back of sign.
    - b. Manufacturer's standard anchors for substrates encountered.
  5. Characters: 1 inch high in Helvetica Font. All upper case.
  6. Symbols: 4 inch high - Use internationally recognized symbols only.
  7. Tactile Characters: Characters and Grade 2 Braille raise 1/32 inch (0.8 mm) above surface with contrasting colors.
  8. Window Bar: 2-1/4-inch high by 6-inch clear anodized aluminum extruded window bar with 0.020-inch thick clear lens.
- B. Tactile and Braille Sign: Manufacturer's standard process for producing text and symbols complying with ADA-ABA Accessibility Guidelines and with ICC/ANSI A117.1. Text shall be accompanied by Grade 2 Braille. Produce precisely formed characters with square-cut edges free from burrs and cut marks; Braille dots with domed or rounded shape.
1. Panel Material: Opaque acrylic sheet.
  2. Raised-Copy Thickness: Not less than 1/32 inch (0.8 mm).

- C. Colored Coatings for Acrylic Sheet: For copy and background colors, provide colored coatings, including inks, dyes, and paints, that are recommended by acrylic manufacturers for optimum adherence to acrylic surface and are UV and water resistant for five years for application intended.
- D. Panel Sign Schedule:
1. Sign Type: Provide code compliant signage.
    - a. Sign Size: 8 inch by 8 inch
    - b. Material: Acrylic
    - c. Character Size: 1 inch high
    - d. Character Finish/Color: Satin Aluminum
    - e. Panel Sign Frame Finish/Color: Black
    - f. Text/Message: Womens and/or Mens as indicated on the drawings.
    - g. Location: At restroom location.
    - h. Quantity: 3
  2. Sign Type: Provide Code Compliant signage.
    - a. Sign Size: 8 inch by 8 inch
    - b. Material: Acrylic
    - c. Character Size: 1 inch high
    - d. Character Finish/Color: Satin Aluminum
    - e. Panel Sign Frame Finish/Color: Black
    - f. Text/Message: Elevator
    - g. Location: At elevator location.
    - h. Quantity: 2
  3. Sign Type: Provide Code Compliant signage.
    - a. Sign Size: 8 inch by 8 inch
    - b. Material: Acrylic
    - c. Character Size: 1-inch high
    - d. Character Finish/Color: Satin Aluminum
    - e. Panel Sign Frame Finish/Color: Black
    - f. Text/Message: Stairs
    - g. Location: At stair location.
    - h. Quantity: 6
  4. Sign Type: Provide Code Compliant signage.
    - a. Sign Size: 6-1/4 inch by 6 inch with header.
    - b. Header: 4-inch high by 6-inch wide ASInCast ADA header with 2-1/4-inch high by 6-inch wide ASInfinity Series Clear Anodized Window Bar for Paper Insert.
    - c. Material: Acrylic
    - d. Character Size: As required for signage.
    - e. Character Finish/Color: Satin Aluminum
    - f. Panel Sign Frame Finish/Color: Black
    - g. Text/Message: Room ID names, to be submitted for Architect's approval.
    - h. Location: At room locations.
    - i. Quantity: 17

## 2.3 FABRICATION

- A. General: Provide manufacturer's standard signs of configurations indicated.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify that mounting surfaces are finished and suitable for installation.
- B. Do not install units until surfaces are acceptable. Notify Architect if there are any questions as to suitability of installation surfaces or installation locations.

### 3.2 INSTALLATION

- A. General: Locate units where indicated, using mounting methods in compliance with the manufacturer's instructions.
- B. Mounting Heights: To comply with ADA regulations.
- C. Locate signs and accessories where indicated, using mounting methods of types described and complying with manufacturer's written instructions.
  - 1. Install signs level, plumb, and at heights indicated, with sign surfaces free of distortion and other defects in appearance.
  - 2. Interior Wall Signs: Install signs on walls adjacent to latch side of door where applicable. Where not indicated or possible, such as double doors, install signs on nearest adjacent walls. Locate to allow approach within 3 inches (75 mm) of sign without encountering protruding objects or standing within swing of door.
- D. Wall-Mounted Signs: Comply with sign manufacturer's written instructions except where more stringent requirements apply.
  - 1. Provide double stick tape for temporary adhesive until neoprene covering over entire back of sign cures.

### 3.3 CLEANING

- A. Cleaning and Protection: At completion of the installation, clean soiled sign surfaces in accordance with the manufacturer's instructions. Protect units from damage until acceptance by the Owner.

END OF SECTION

## SECTION 10500

### METAL LOCKERS

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. Section Includes:
  - 1. All-welded steel personnel garment dispensers lockers; double-tier unit, 15" wide by 78-inches high.
- B. Related Sections:
  - 1. Section 06100 - Rough Carpentry: Wood furring and grounds.

##### 1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product specifications and installation instructions for personnel duty locker units.
- B. Shop Drawings: Show personnel garment lockers in dimensioned relation to adjacent surfaces. Show lockers in detail, method of installation, fillers, trim, base, and accessories. Include locker numbering sequence information.
- C. Samples for Initial Selection: Submit manufacturer's color charts showing the full range of colors available for units with factory-applied color finishes. Submit full range of available colors, for Architect's selection.
- D. Warranty: Sample of special warranty.

##### 1.3 QUALITY ASSURANCE

- A. Uniformity: Provide metal lockers that are standard products of single manufacturer, with interchangeable like parts. Include necessary mounting accessories, fittings, and fastenings.
- B. Regulatory Requirements: Where metal lockers and benches are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities" and ICC/ANSI A117.1.

##### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver lockers until spaces to receive them are clean, dry, and ready for locker installation.

- B. Protect lockers from damage during delivery, handling, storage, and installation.
- C. Deliver master keys, control keys, and combination control charts to Owner.

#### 1.5 COORDINATION

- A. Coordinate sizes and locations of concrete masonry bases for metal lockers.
- B. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of work specified in other Sections to ensure that metal lockers can be supported and installed as indicated.

#### 1.6 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal lockers that fail in materials or workmanship, excluding finish, within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Structural failures.
    - b. Faulty operation of latches and other door hardware.
  - 2. Damage from deliberate destruction and vandalism is excluded.
  - 3. Warranty Period for All-Welded Metal Lockers: 10 years from date of Substantial Completion.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Approved Products/Manufacturers (All-Welded Garment Dispenser Lockers):
  - 1. ASI Storage Solutions; Garment Dispensers
  - 2. Prior approved equal

#### 2.2 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1008, Commercial Steel (CS) Type B, suitable for exposed applications.
- B. Expanded Metal: ASTM F 1267, Type II (flattened), Class I, 3/4-inch (19-mm) steel mesh, with at least 70 percent open area.
- C. Fasteners: Zinc- or nickel-plated steel; slotless-type exposed bolt heads; self-locking nuts or lock washers for nuts on moving parts.

#### 2.3 ALL-WELDED LOCKERS

- A. Locker Sizes/Types: Provide lockers with flat tops.

1. All-welded steel personnel garment dispensers lockers; double-tier unit, 15" wide by 78-inches high.
  2. Arranged lockers as shown on the Drawings
  3. Lockers bases shall be Zee base.
- B. Body: Fabricate from 16 gauge galvanized/galvannealed steel, flanged to give double thickness of metal at back vertical corners. Form backs from 18 gauge galvanized steel.
- C. Door Frame: 16 gauge formed steel channels. Vertical members shall have an additional flange to form continuous door strike. Corners shall be lapped and welded into a rigid assembly. In addition, bottom cross members shall have tang at each end that fits through slot in rear flange of upright frame member to prevent twisting out of alignment. Top and bottom cross members shall provide support for front edge of locker top and locker bottom.
- D. Doors: One-piece, minimum 14-gage sheet steel, flanged at all edges, constructed to prevent springing when opening or closing. Fabricate to swing 180 degrees.
1. Ventilation: Provide manufacturer's standard louvered vents in door face
  2. Hinges: Steel, full-loop, 5-knuckle, tight pin not less than 2" high. Weld to inside of frame and secure to door with not fewer than 2 factory-installed fasteners that are completely concealed and tamperproof when door is closed. Provide at least 3 hinges for each door over 42 inches high; at least 2 hinges for each door 42 inches high or less.
- E. Recessed Handle and Latch: Manufacturer's standard housing, formed from 0.0359-inch (0.90-mm) thick nickel-plated steel or stainless steel, with integral door pull, recessed for latch lifter and locking devices; nonprotruding latch lifter; and automatic, prelocking, pry-resistant latch, as follows:
1. Provide minimum three-point latching for each door more than 42 inches (1067 mm) high; minimum two-point latching for each door 42 inches(1067 mm) high or less.
  2. Provide padlock latch for Owner's personal padlocks.
- F. Shelves: Provide standard interior shelving with three 16 gauge steel sheet shelves starting approximately 12" below top, flanged on all four sides.
- G. Hanger rod as in standard interior.
- H. Lockable security compartment as in standard interior.
- I. Number Plates: Manufacturer's standard etched, embossed, or stamped, nonferrous metal number plates with numerals not less than 3/8 inches high. Number lockers in sequence as directed by Architect. Attach plates to each locker door, near top, centered, with at least 2 fasteners of same finish as number plate.
- J. Filler Panels: Provide filler panels where indicated, of not less than 16-gage steel sheet, factory fabricated and finished to match locker units.

## 2.4 FABRICATION, GENERAL

- A. Unit Principle: Fabricate each locker with an individual door and frame, individual top, bottom, back and shelves, and common intermediate separating components.
- B. All-Welded Construction: Preassemble lockers by welding all joints, seams, and connections, with no bolts, screws, or rivets used in assembly. Grind exposed welds flush. No bolts, screw, or rivets shall be used in the assembly of the locker bodies.
- C. Fabricate lockers square, rigid, and without warp, with metal faces flat and free of dents or distortion. Make exposed metal edges free of sharp edges and burrs, and safe to touch. Weld frame members together to form a rigid, one-piece structure.
  - 1. Form locker-body panels, doors, shelves and accessories from one-piece steel sheet, unless otherwise indicated.

## 2.5 STEEL SHEET FINISHES

- A. Powder-Coated Finish: Immediately after cleaning and pretreating, electrostatically apply manufacturer's standard baked-polymer finish consisting of a thermosetting powder topcoat. Comply with paint manufacturer's written instructions for applying and baking to achieve a minimum dry film thickness of 2 mils (0.05 mm).
  - 1. Color and Gloss: As selected by Architect from manufacturer's full range. Concealed parts may be manufacturer's standard neutral color.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Locker Bases: Examine CMU bases for suitable conditions where metal lockers are to be installed.
- B. Examine walls, floors, and support bases, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. General: Install metal lockers at locations shown in accordance with manufacturer's instructions for plumb, level, rigid, and flush installation.
- B. Attachment: Space fastenings at intervals not greater than 36 inches o.c., unless otherwise recommended by manufacturer. Install anchors through back-up reinforcing plates where necessary to avoid metal distortion, using concealed fasteners. Attach lockers to each other and to floor and walls, to prevent shifting.

- C. All-Welded Metal Lockers: Connect groups together with standard fasteners, with no exposed fasteners on face frames.
- D. Equipment and Accessories: Fit exposed connections of trim, fillers, and closures accurately together to form tight, hairline joints, with concealed fasteners and splice plates.
  - 1. Attach hooks with at least two fasteners.
  - 2. Attach door locks on doors using security-type fasteners.
  - 3. Identification Plates: Identify metal lockers with identification indicated on Drawings.
    - a. Attach plates to each locker door, near top, centered, with at least two aluminum rivets.
  - 4. Attach recess trim to recessed metal lockers with concealed clips.
  - 5. Attach filler panels with concealed fasteners. Locate filler panels where indicated on Drawings.
  - 6. Attach sloping-top units to metal lockers, with closures at exposed ends.
  - 7. Attach finished end panels with fasteners only at perimeter to conceal exposed ends of nonrecessed metal lockers.

### 3.3 ADJUSTING, CLEANING, AND PROTECTION

- A. Adjust doors and latches to operate easily without binding. Verify that integral locking devices are operating properly.
- B. Protect lockers from damage, abuse, dust, dirt, stain, or paint. Do not permit locker use during construction.
- C. Touch up marred finishes, but replace units that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by locker manufacturer.

END OF SECTION



## SECTION 10520

### FIRE EXTINGUISHERS AND CABINETS

#### PART 1 - GENERAL

##### 1.1 SUMMARY

###### A. Section Includes:

1. Fire extinguishers.
2. Fire extinguisher cabinets; non-fire-rated.
3. Fire extinguisher mounting brackets.

###### B. Related Sections:

1. Section 04200 - Unit Masonry: Fire extinguisher cabinets installed in CMU partitions.
2. Section 07840 - Firestopping: Firestopping sealants at fire-rated cabinets.
3. Section 09250 - Gypsum Board: Fire extinguisher cabinets installed in drywall partitions.

##### 1.2 REFERENCES

###### A. Industry Standards: The Industry Standards listed below refer to the latest date of issue or editions, unless otherwise indicated.

1. NFPA 10 - Standard for Portable Fire Extinguishers; National Fire Protection Association.
2. UL (FPED) - Fire Protection Equipment Directory; Underwriter's Laboratories, Inc.
3. ADA Accessibility Guidelines - Criteria for wall projection of fire extinguisher cabinets
4. ASTM E-814 - Test Method for Fire Tests of Through-Penetration Fire Stops.

##### 1.3 SUBMITTALS

###### A. Product Data: Submit construction details, material descriptions, dimensions of individual components and profiles, and finishes for fire-protection specialties:

1. Fire Extinguishers: Include rating and classification.
2. Cabinets: Include roughing-in dimensions, details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type, trim style, and panel style.

###### B. Samples: Submit samples for verification purposes of each type of metal finish required, prepared on metal samples of same thickness and alloy indicated for final unit of Work. Where finishes involve normal color and texture variations, include sample sets showing full range of variations expected.

#### 1.4 QUALITY ASSURANCE

- A. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Standard for Portable Fire Extinguishers".
- B. Fire Extinguishers: Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction.
- C. Single-Source Responsibility: Obtain fire extinguishers and cabinets from one source from a single manufacturer.
- D. Fire Resistance: Comply with ASTM E-814 for fire-resistive wall performance where necessary.
- E. ADAAG Compliance: Comply with ADAAG on maximum cabinet projection of 4" in corridors where necessary.

#### 1.5 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace fire extinguishers that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Failure of hydrostatic test according to NFPA 10.
    - b. Faulty operation of valves or release levers.
  - 2. Warranty Period: Six years from date of Substantial Completion.

### PART 2 - PRODUCTS

#### 2.1 FIRE EXTINGUISHERS

- A. Multipurpose Dry-Chemical Type: UL-rated 4-A;60-B:C, 10-lb nominal capacity, with monoammonium phosphate-based dry chemical in manufacturer's standard enameled container.

#### 2.2 FIRE EXTINGUISHER CABINETS

- A. Non-Fire-Rated, Semi-Recessed Cabinets:
  - 1. Cabinet Type: Semi-recessed type, lockable doors.
  - 2. Tub: Manufacturer's standard stainless steel with #4 satin finish.
  - 3. Trim and Door Material: Stainless Steel, #4 finish; continuous hinge.
  - 4. Door Type: Contemporary V with SA-T-LOK with clear acrylic glazing.
  - 5. Die cut lettering: In red, with type A lettering.
  - 6. Trim Projection: 1-1/2-inch Rolled edge
- B. Approved Products/Manufacturers:
  - 1. LARSEN'S MANUFACTURING COMPANY.
  - 2. J.L. INDUSTRIES; C1036W10
  - 3. POTTER ROEMER, INC.

## 2.3 MOUNTING BRACKETS

- A. Wall-Mounted Fire Extinguisher Brackets: Provide brackets designed to prevent accidental dislodgement of extinguisher, of sizes required for type and capacity of extinguisher indicated.
  - 1. Location: Provide brackets for extinguishers not located in cabinets where indicated on Drawings.
  - 2. Finish: Manufacturer's standard baked enamel.
  - 3. Location of Use: Provide brackets for each extinguisher not located in an extinguisher cabinet.
  - 4. Identify extinguisher locations with red lettering "FIRE EXTINGUISHER" applied to mounting surface. Letter size, style, and location as selected by the Architect.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Install items in locations and at mounting heights indicated, or if not indicated, at heights to comply with applicable regulations of governing authorities.
- B. Prepare recesses in walls for fire extinguisher cabinets as required by type and size of cabinet and style of trim and to comply with manufacturer's instructions.
- C. Securely fasten mounting brackets and fire extinguisher cabinets to structure, square and plumb, to comply with manufacturer's instructions.
- D. Bracket-Mounted Extinguishers: Where exact location of bracket-mounted fire extinguishers is not indicated, locate as directed by Architect.

### 3.2 COMPLETION

- A. Extinguishers: Keep extinguishers in locked storage until just prior to inspection for acceptance; obtain signed receipt from Owner's representative and place extinguishers in designated locations, unless instructed to maintain in storage.
  - 1. Verify that certification tags are attached to each extinguisher.
  - 2. Replace or recharge, and recertify, extinguishers that were discharged during construction period, either accidentally or in an emergency.
- B. Cabinets: All cabinets shall be properly located and rigidly secured, plumb and level. Clean exposed surfaces inside and outside. Remove and replace items, which are damaged and defective and which cannot be acceptably repaired.
- C. Other Work: Clean and repair other surfaces damaged, soiled or marred by work of this Section; remove and replace items which cannot be acceptably cleaned or repaired.

### 3.3 ADJUSTING, CLEANING, AND PROTECTION

- A. Adjust cabinet doors that do not swing or operate freely.
- B. Refinish or replace cabinets and doors damaged during installation.
- C. Provide final protection and maintain conditions that ensure that cabinets and doors are without damage or deterioration at the time of Substantial Completion.

END OF SECTION



## SECTION 10710

### HURRICANE SHUTTER SYSTEM

#### PART 1 - GENERAL

##### 1.1 SUMMARY

###### A. Section Includes:

1. Labor, equipment, materials and services to furnish, coordinate with aluminum curtain wall and entrance manufacturer and install hurricane protection fabric screen system and correlated components as specified herein and as shown on the drawings.

##### 1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Submit scaled shop drawings including all conditions of construction, location diagrams including identification of and spacing of anchorage, framing members inclusive of any installer notations.
- C. Samples: For each exposed product and for each color and texture specified.
  1. Any cost that may occur for samples will be the responsibility of the contractor.
- D. Material Certification to show compliance with the design requirements.
- E. Provide structural information and calculations for anchoring methods by a licensed engineer in the State of Louisiana.

##### 1.3 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by manufacturer.
- B. Installer Requirements: 10 years minimum experience of successful installation in similar size and complexity.
- C. To the extent possible, obtain all hurricane protection fabric screen system for the entire project from one single source manufacturer.
- D. Provide independent laboratory test reports from a certified International Building Code accredited laboratory.
- E. All hurricane shutter systems shall be resistant to penetrations and comply with the large missile testing, SSTD 12-99. The system shall be designed with static air pressure loads.
- F. Test Procedures and Performance:
  1. Impact Test - TAS 201-94
  2. Uniform Static Air Pressure - TAS 202-94.
  3. Cyclic Wind Pressure Loading - TAS 203-94.

##### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Handle and store hurricane protection fabric screen system and accessories in strict compliance with the manufacturer's specific instructions.

## 1.5 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of the hurricane protection screen system that fail(s) in materials or workmanship within specified warranty period.
  - 1. Warranty Period: Ten (10) years from date of Substantial Completion.
  - 2. The contractor shall assume full responsibility for one year on the proper usage, design, handling, installation and anchorage as it relates to the structural attachment as outlined on the approved shop drawings and specifications.

## PART 2 - PRODUCTS

### 2.1 HURRICANE PROTECTION FABRIC SCREEN SYSTEM

- A. Material: Woven fabric hurricane protection system constructed of 100 percent polypropylene basket woven fabric.
- B. Manufacturers: Subject to compliance with requirements, provide the following products by one of the following:
  - 1. Phoenix Architectural Products, Inc; Force 12 Protection High Impact Wind Screen.
  - 2. Prior approved equal.
- C. Location: At the aluminum entrance doors
- D. Anchorage: Each unit shall have proper anchorage for each type of substrate. Anchors shall be installed in accordance with manufacturer's recommendations.

## PART 3 - EXECUTION

### 3.1 INSPECTION

- A. Job Conditions: Verify that openings are dimensionally within allowable tolerances, plumb, level and clean. Provide a solid anchoring surface in accordance with approved shop drawings.

### 3.2 INSTALLATION

- A. After verification of field conditions and properly prepared openings, install hurricane protection fabric screen system in strict accordance with approved submittal drawings and in agreement with the International Building Code.
- B. Adequately anchored to maintain positions permanently when subjected to normal thermal and building movement and specified wind loads.
- C. Provide additional field bracing as necessary for a rigid, secure installation.

### 3.3 CLEANING AND PROTECTION

- A. Clean surfaces of hurricane protection fabric screen system promptly after installation, exercising care to avoid damage to finishes of new and existing surfaces.
- B. Remove all protective coverings and dispose of all rubbish and surplus. Store unit as recommended per manufacturer and in accordance with Owner's requirements.

END OF SECTION

## SECTION 10750

### FLAGPOLES

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. This Section includes ground-set flagpoles made from aluminum.

##### 1.2 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide flagpoles capable of withstanding the effects of wind loads, determined according to NAAMM FP 1001, "Guide Specifications for Design of Metal Flagpoles."
  - 1. Base flagpole design on polyester flags of maximum standard size suitable for use with flagpole.
  - 2. Wind Load (unflagged): 130 mph.

##### 1.3 SUBMITTALS

- A. Product Data: For each type of flagpole required.

#### PART 2 - PRODUCTS

##### 2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. American Flagpole; a Kearney-National Inc. Company.
  - 2. Concord Industries, Inc.
  - 3. Eder Flag Manufacturing Company, Inc.
  - 4. Flagpole Warehouse; ECH35 (Basis-of-design)
  - 5. Lingo Inc.; Acme Flagpole Division.
  - 6. Michigan Flagpole Inc.
  - 7. Morgan-Francis Div.; Original Tractor Cab Co., Inc.
  - 8. Pole-Tech Company Inc.

##### 2.2 FLAGPOLES

- A. Flagpole Construction, General: Construct flagpoles in one piece if possible. If more than one piece is necessary, provide flush hairline joints using self-aligning, snug-fitting, internal sleeves.
- B. Exposed Height: 35 feet (10.7 m).
- C. Aluminum Flagpoles: Provide cone-tapered flagpoles fabricated from seamless extruded tubing complying with ASTM B 241/ (B 241M), Alloy 6063, with a minimum wall thickness of 3/16 inch (4.8 mm). Heat treat after fabrication to comply with ASTM B 597, Temper T6.

- D. Foundation Tube: Galvanized corrugated-steel foundation tube, 0.064-inch- (1.6-mm-) minimum nominal wall thickness. Provide with 3/16-inch (4.8-mm) steel bottom plate and support plate; 3/4-inch- (19-mm-) diameter, steel ground spike; and steel centering wedges all welded together. Galvanize steel parts, including foundation tube, after assembly. Provide loose hardwood wedges at top of foundation tube for plumbing pole. Provide flashing collar of same material and finish as flagpole.

### 2.3 FITTINGS

- A. Finial: Provide gold anodized aluminum ball at top with standard flush-seam design. Size shall be butt diameter of 7-inches. Finished to match flagpole.
- B. External Halyard: Ball-bearing, nonfouling, revolving truck assembly of cast metal with continuous 5/16-inch- (8-mm-) diameter, braided polypropylene halyard and 9-inch (228-mm) cast-metal cleats with fasteners. Finish exposed metal surfaces to match flagpole.
- C. Halyard Flag Snaps: Provide two swivel snap hooks per halyard.
- D. Elastomeric Joint Sealant: Single-component urethane or single-component neutral-curing silicone joint sealant complying with requirements in Division 07 Section "Joint Sealants" for Use NT (nontraffic) and for Use M, G, A, and, as applicable to joint substrates indicated, O joint substrates.

### 2.4 FINISHES

- A. Aluminum: Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
  - 1. Class I, Clear Anodic Finish: AA-M12C22A41 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class I, clear coating 0.018 mm or thicker) complying with AAMA 611.

## PART 3 - EXECUTION

### 3.1 FLAGPOLE INSTALLATION

- A. General: Install flagpoles where shown and according to manufacturer's written instructions.
- B. Prepare uncoated metal flagpoles that are set in foundation tubes by painting below-grade portions with a heavy coat of bituminous paint.
- C. Foundation-Tube Installation: Install flagpole in foundation tube, seated on bottom plate between steel centering wedges. Plumb flagpole and install hardwood wedges to secure flagpole in place. Place and compact sand in foundation tube and remove hardwood wedges. Seal top of foundation tube with a 2-inch (50-mm) layer of elastomeric joint sealant and cover with flashing collar.
- D. Baseplate Installation: Install baseplate on washers placed over leveling nuts on anchor bolts and adjust until flagpole is plumb. After flagpole is plumb, tighten retaining nuts and fill space under baseplate solidly with nonshrink, nonmetallic grout. Finish exposed grout surfaces smooth and slope 45 degrees away from edges of baseplate.

END OF SECTION

## SECTION 10800

### TOILET ROOM ACCESSORIES

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. Section Includes: Toilet and bath accessories (as scheduled at the end of this Section).
- B. Related Sections:
  - 1. Section 10811 - Undersink Lavatory Pipe Insulation.
  - 2. Division 15 Mechanical Sections - Plumbing fixtures.
  - 3. Division 16 Electrical Sections - Electrical power and control wiring.

##### 1.2 SUBMITTALS

- A. Product Data: Submit product data for each toilet accessory item specified, including construction details relative to materials, dimensions, gages, profiles, mounting method, specified options, and finishes.
- B. Shop Drawings: Submit setting drawings where cutouts are required in other work, including templates, substrate preparation instructions, and directions for preparing cutouts and installing anchorage devices.
- C. Maintenance Instructions: Submit maintenance instructions including replaceable parts and service recommendations.

##### 1.3 QUALITY ASSURANCE

- A. Inserts and Anchorages: Furnish accessory manufacturers' standard inserts and anchoring devices that must be built into masonry or other work. Coordinate delivery with other work to avoid delay.
- B. Single-Source Responsibility: Provide products of same manufacturer for all toilet accessories of each different finish required, unless otherwise acceptable to Architect.
- C. Regulatory Requirements: Toilet room accessories shall comply with the Americans with Disability Act (ADA) Accessibility Guidelines.

##### 1.4 PROJECT CONDITIONS

- A. Coordination: Coordinate accessory locations, installation, and sequencing with other work to avoid interference with and ensure proper installation, operation, adjustment, cleaning, and servicing of toilet accessory items.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Approved Products/Manufacturers: The following manufacturers are approved:
  - 1. BOBRICK.
  - 2. BRADLEY.
  - 3. Prior approved equal.
- B. Basis of specification: BRADLEY (as scheduled).
- C. Refer to the Schedule at the end of this Section for approved toilet accessory products and manufacturer.

### 2.2 MATERIALS, GENERAL

- A. Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 0.034-inch (22-gage) minimum thickness.
- B. Sheet Steel: Cold-rolled, commercial quality ASTM A366, 0.04-inch (20-gage) minimum. Surface preparation and metal pretreatment as required for applied finish.
- C. Galvanized Steel Sheet: ASTM A527, G60.
- D. Chromium Plating: Nickel and chromium electro-deposited on base metal, ASTM B456, Type SC 2.
- E. Galvanized Steel Mounting Devices: ASTM A153, hot-dip galvanized after fabrication.
- F. Fasteners: Screws, bolts, and other devices of same material as accessory unit, or of galvanized steel where concealed.
- G. Locks: Accessory manufacturer's standard tumbler type recessed lock. Unless specified otherwise, all locks for all units provided for the project shall be keyed alike. Provide a minimum of six universal keys for access to toilet accessory units requiring internal access for servicing, resupply, etc.

### 2.3 FABRICATION

- A. General: Fabricate units using welded construction in accordance with manufacturer's standard practice. Form components straight, and square, free from warp and twist, with snug, flush, uniform joints and seams in full contact for their complete length. Panel and flange surfaces shall be free from waves and oil-canning. All edges and corners which are subject to contact by users and maintenance personnel (dispenser openings, flanges, panel edges and similar exposed and semi-exposed sheet metal edges) shall be hemmed or ground smooth and slightly eased to prevent injury to persons and snagging of cleaning cloths.

- B. Product Identification: Only an unobtrusive stamped logo of manufacturer, as approved by Architect, is permitted on exposed face of toilet or bath accessory units. On either interior surface not exposed to view or back surface, provide additional identification by means of a printed, waterproof label or a stamped nameplate, indicating manufacturer's name and product model number.
- C. Surface-Mounted Toilet Accessories: Except where otherwise indicated, fabricate units with tight seams and joints, exposed edges rolled. Hang doors or access panels with continuous stainless steel piano hinge. Provide concealed anchorage wherever possible.

## 2.4 FACTORY FINISHING

- A. Galvanizing: ANSI/ASTM A123 and A386 to 1.25 oz/sq yd.
- B. Shop Primed Ferrous Metals: Pretreat and clean, spray-apply one coat primer and bake.
- C. Chrome/Nickel Plating: ANSI/ASTM B456, Type SC 2, polished finish.
- D. Stainless Steel: No. 4 satin luster finish, unless otherwise indicated.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Install accessory units according to manufacturers' instructions, using fasteners appropriate to substrate as recommended by unit manufacturer. Install units plumb and level, firmly anchored in locations and at heights indicated.
  - 1. Mounting heights for installation of toilet accessories shall comply with requirements of Uniform Federal Accessibility Standards and Americans with Disabilities Act Accessibility Guidelines.

### 3.2 ADJUSTING AND CLEANING

- A. Adjust toilet accessories for proper operation and verify that mechanisms function smoothly. Replace items that are damaged or defective.
- B. Clean and polish all exposed surfaces of accessory items according to manufacturer's recommendations after removing temporary labels and protective coatings.

### 3.3 COMPLETION

- A. Installed accessories shall be straight, plumb, level and at proper locations and mounting heights. Units shall be rigidly attached, tight to wall and free of movement. Surfaces shall be clean, uniform and without damage. All accessible edges and fastener heads shall be smooth and even, without burrs and sharp edges and corners. Repair acceptably or remove and replace non-conforming items.
- B. Repair or remove and replace with new material other items, which are damaged as a result of accessories installation. Clean other work, which is marked and soiled in the course of accessories installation.

- C. Deliver keys, tagged and identified with durable labels, to Owner's representative.

### 3.4 SCHEDULE OF TOILET ROOM ACCESSORIES

- A. Toilet Accessory Legend below uses same numbers as shown on drawings:

ACCESSORY - 01: Mirror: BRADLEY Model 780-1836, Angle Frame, Welded Corners, Theft-Resistant Mounting, 18" x 36".

ACCESSORY - 02: Towel Dispenser/Waste Receptacle: BRADLEY Model 235-11, Surface Mounted, Stainless Steel, No.4 Satin finish.

ACCESSORY - 03: Touch Free Foam Soap Dispenser: Parish Maintenance Supply.

ACCESSORY - 04: 1-1/2" Diameter Concealed Mounting Heavy Duty Grab Bar: BRADLEY Model 812, 36" long.

ACCESSORY - 05: 1-1/2" Diameter Concealed Mounting Heavy Duty Grab Bar: BRADLEY Model 812, 42" long.

ACCESSORY - 06: Toilet Tissue Dispenser- Surface mounted, single roll toilet tissue dispenser with theft resistant spindle. Bradley Model: 5402.

ACCESSORY - 07: Recessed Seat Cover Dispenser: BRADLEY Model 584.

ACCESSORY - 08: Frameless Mirror, size varies, see drawings, see specifications Section 08800.

ACCESSORY - 09: Mounted Hooks and Racks: Artform/Peter Pepper Products; Model No. 214XL, Natural Anodized aluminum with 5 hooks.

ACCESSORY - 10: Surface Mounted Napkin/Tampon Disposal: BRADLEY Model 4781-15.

ACCESSORY - 11: Lavatory Mounted Soap Dispenser: BRADLEY Model 6326.

ACCESSORY - 12: Reversible Folding Shower Seat: BOBRICK Model B-5181.

ACCESSORY - 13: Towel Dispenser/Waste Receptacle: BRADLEY Model 235, Recessed, Stainless Steel, No.4 Satin finish.

ACCESSORY - 14: 1-1/2" Diameter Concealed Mounting Heavy Duty Grab Bar: BRADLEY Model 812, 48" long.

ACCESSORY - 15: Mop and Broom Holder: BRADLEY Model 9953, with 3 holders.

ACCESSORY - 31: Shower Curtain Rod: BRADLEY Model 9539, 1-1/4" Diameter, concealed mounted, field verify length.

ACCESSORY - 32: Surface Mounted Towel Dispenser: BRADLEY Model 2442-11.

END OF SECTION

## SECTION 10811

### UNDERSINK LAVATORY PIPE INSULATION

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. Section Includes: ADA compliant, undersink protective lavatory pipe insulation for "accessible" lavatories to prevent burns.
- B. Related Sections:
  - 1. Division 15: Lavatories, piping, and pipe insulation (for applications other than accessible lavatory exposed pipes).

##### 1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product specifications and application recommendations for type of insulation product proposed.

##### 1.3 QUALITY ASSURANCE

- A. Fire Performance Characteristics: Provide insulation materials, which are self-extinguishing within 5 seconds with average 10 mm. extent of burning per the ASTM D 635 test method.
- B. Single-Source Responsibility: Obtain lavatory pipe insulation from a single source to provide products of consistent appearance and physical properties.
- C. ADA Compliance: Pipe insulation shall comply with applicable requirements of the American Disabilities Act.

##### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Protection: Protect insulation from physical damage and deterioration. Store inside and in a dry location. Comply with manufacturer's recommendations for handling, storage, and protection during installation.

#### PART 2 - PRODUCTS

##### 2.1 UNDERSINK LAVATORY PIPE INSULATION

- A. Manufacturer: Subject to compliance with requirements, provide "Handi Lav-Guard" insulation products of Truebro, Inc., Ellington, Connecticut; (203) 875-2868, or approved equal.
- B. Description: Universal assemblies for installation on standard plumbing piping assemblies, consisting of molded closed cell vinyl with the following characteristics:
  - 1. Nominal Wall Thickness: 3/16 inch.

2. Hardness: 55 to 65 Shore A durometer.
  3. Ultra Violet Protection: Integral barrier.
  4. Color: Manufacturer's standard paintable white or gray integral color, as selected by the Architect.
  5. Thermal Conductivity:  $k = 1.17$ .
- C. Configuration: Provide manufacturer's standard insulation kit for the following components; coordinate with Division 15 for piping configuration:
1. P-trap assembly, cast brass or tubular, 1-1/4" or 1-1/2" dia.
  2. 1-1/4" or 1-1/2" dia. tailpiece.
  3. Hot water angle valve assembly, 3/8" or 1/2" size.
  4. Cold water angle valve assembly, 3/8" or 1/2" size.
  5. Offset wheelchair strainer assembly (McGuire).
- D. Fasteners: Provide manufacturer-furnished or -recommended fasteners for securing the insulating assemblies in position.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION AND PREPARATION

- A. Examining: Examine substrates and conditions for compliance with requirements of the Sections in which substrates and related work are specified and to determine if other conditions affecting performance of insulation are satisfactory. Do not proceed with installation of insulation until piping is complete and tested, pipe escutcheons are secured in position, other finishing work in space is complete and unsatisfactory conditions have been corrected.
- B. Preparing: Clean substrates of substances harmful to insulations including removal of projections and foreign materials.

#### 3.2 INSTALLATION

- A. General: Comply with insulation manufacturer's instructions applicable to products and application indicated. If printed instructions are not available or do not apply to project conditions, consult manufacturer's technical representative for specific recommendations before proceeding with installation of insulation.
- B. Application: Extend insulation full thickness as indicated to envelop entire piping assembly to be insulated. Cut and fit as necessary to fully cover as-installed piping. Secure installed insulation as recommended by the insulation manufacturer.

#### 3.3 COMPLETION

- A. Insulation: Completed application shall form a continuous insulating barrier without gaps. Each insulating component shall be secured against dislodgement incidental to use of the lavatory by wheelchair occupants or by cleaning personnel.
- B. Protection: Protect installed insulation until acceptance from damage. Remove and replace with new material insulation components, which are damaged or defective.

END OF SECTION