

SECTION 10155 - TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes phenolic-core units as follows:
 - 1. Toilet Enclosures: Ceiling hung.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
- C. Samples: For each exposed finish.

PART 2 - PRODUCTS

2.1 PHENOLIC-CORE UNITS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Accurate Partitions Corporation.
 - b. General Partitions Mfg. Corp.
 - c. Global Steel Products Corp.
 - d. Metpar Corp.
 - e. Sanymetal; a Crane Plumbing Company.
- B. Door, Panel and Pilaster Construction: Solid phenolic-core panel material with melamine facing on both sides fused to substrate during panel manufacture (not separately laminated), and with eased and polished edges. Provide minimum 3/4-inch thick doors and pilasters and minimum 1/2-inch thick panels.
 - 1. Facing Sheet Color: One color in each room as selected by Architect from manufacturer's full range of colors.
 - 2. Core Color: Manufacturer's standard dark color.
- C. Pilaster Shoes and Sleeves (Caps): Stainless steel, ASTM A 666, Type 302 or 304.
- D. Brackets (Fittings):
 - 1. Stirrup Type: Ear or U-brackets, stainless steel.
 - 2. Full-Height (Continuous) Type: Manufacturer's standard design; stainless steel.

2.2 ACCESSORIES

- A. Hardware and Accessories: Manufacturer's standard design, heavy-duty operating hardware and accessories.
 - 1. Material: Stainless steel.

- B. Overhead Bracing: Manufacturer's standard continuous, extruded-aluminum head rail with anti-grip profile and in manufacturer's standard finish. Head rail shall be provided to bridge all compartments and brace the end free-standing pilasters to the wall.
- C. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel finished to match hardware, with theft-resistant-type heads. Provide sex-type bolts for through-bolt applications. For concealed anchors, use hot-dip galvanized.

2.3 FABRICATION

- A. Overhead-Braced Units: Provide manufacturer's standard corrosion-resistant supports, leveling mechanism, fasteners, and anchors at pilasters to suit floor conditions. Make provisions for setting and securing continuous head rail at top of each pilaster. Provide shoes at pilasters to conceal supports and leveling mechanism.
- B. Floor-Anchored Units: Provide manufacturer's standard corrosion-resistant anchoring assemblies complete with threaded rods, lock washers, and leveling adjustment nuts at pilasters for structural connection to floor. Provide shoes at pilasters to conceal anchorage.
- C. Doors: Unless otherwise indicated, provide 24-inch wide in-swinging doors for standard toilet compartments and 36-inch wide out-swinging doors with a minimum 32-inch wide clear opening for compartments indicated to be accessible to people with disabilities.
 - 1. Hinges: Manufacturer's standard self-closing type that can be adjusted to hold doors open at any angle up to 90 degrees.
 - 2. Latch and Keeper: Manufacturer's standard surface-mounted latch unit designed for emergency access and with combination rubber-faced door strike and keeper. Accessible stall door hardware shall comply with North Carolina Accessibility Code 11.4.4..
 - 3. Coat Hook: Manufacturer's standard combination hook and rubber-tipped bumper, sized to prevent door from hitting compartment-mounted accessories.
 - 4. Door Bumper: Manufacturer's standard rubber-tipped bumper at out-swinging.
 - 5. Door Pull: Manufacturer's standard unit at out-swinging doors that complies with accessibility requirements of authorities having jurisdiction. Provide units on both sides of doors at compartments indicated to be accessible to people with disabilities.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions. Install units rigid, straight, level, and plumb. Secure units in position with manufacturer's recommended anchoring devices.
 - 1. Maximum Clearances:
 - a. Pilasters and Panels: 1/2 inch.
 - b. Panels and Walls: 1 inch.
 - 2. Brackets: Secure panels to walls and to pilasters with full-length brackets.

3.2 ADJUSTING

- A. Hardware Adjustment: Adjust and lubricate hardware according to manufacturer's written instructions for proper operation. Set hinges on in-swing doors to hold open approximately 30 degrees from closed position when unlatched. Set hinges on out-swinging doors to return doors to fully closed position.

END OF SECTION 10155

SECTION 10500 – LOCKERS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Metal lockers.
- B. Related Documents
 - 1. Division 0 – Bidding and General Conditions, Division 1 – General Requirements, all applicable provisions in the technical specification sections of Divisions 2 through 16 and applicable drawings apply to this section.
- C. Related Sections:
 - 1. Rough Carpentry: Division 6.

1.2 SUBMITTALS

- A. Product Data: Manufacturer's data and installation instructions.
- B. Shop Drawings: Show layouts, dimensions, trim, fillers, and accessories.
 - 1. Indicate installation and anchoring methods.
 - 2. Show verified field measurements.
 - 3. Show locker numbering scheme.
- C. Samples for Color Selection: Locker manufacturer's full range of colors.

1.3 PRODUCT CONDITIONS

- A. Fit lockers neatly to actual construction; take field measurements before fabrication, unless taking of such measurements will delay the work. Where necessary, provide trim and filler panels as required.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver lockers until spaces to receive locker are clean and dry.
- B. Protect lockers from damage.

PART 2 – PRODUCTS

2.1 LOCKER CONFIGURATIONS AND COMPONENTS

- A. Locker:
 - 1. Location:
 - 2. Standard duty.
 - 3. Two-tier
 - 4. Height: 72 inches.
 - 5. Width: 12 inches.
 - 6. Depth: 12 inches
 - 7. Doors: Solid with top and bottom louvers.

8. Sides and vertical dividers: Solid.
9. Top: Sloped.
10. Base: 4" high Z-type base.
11. Door handles.
12. Ceiling hooks.

2.2 STANDARD DUTY LOCKERS

- A. Lockers: Lyon Metal Products, Inc./Scholastic Steel Lockers.
 1. Products of the following other manufacturers or others approved equal, provided they comply with requirements of the contract documents, will be considered for substitution:
 - a. Medart Inc.
 - b. Penco Products
 - c. Republic Storage Systems Company, Inc.
- B. Components:
 1. Frame: 16 gage steel channels or 13 gage steel angles, minimum.
 2. Tops: 24 gage steel sheet, minimum.
 3. Bottoms: 24 gage steel sheet, minimum.
 4. Horizontal dividers: 24 gage steel, minimum.
 5. Sides and vertical dividers: 24 gage steel sheet, minimum.
 6. Exposed ends: 24 gage steel sheet, minimum, without exposed holes.
 7. Backs: 24 gage steel sheet, minimum.
 8. Solid doors: 16 gage steel sheet, minimum.
 9. Louvers: Manufacturer's standard style, size, and quantity.
 10. Door handles: Standard type.
 11. Latching mechanism. Concealed in door, designed so that door can be closed while locked, with spring-loaded latches engaging beveled strikes on frame.
 - a.
 12. Coat hooks: one double prong hook and one single prong hook.
- C. Miscellaneous Components and Trim: 18 gage steel sheet, minimum.
- D. Fabrication: Weld all joints between frame members.
 1. Weld hinges to frame and fasten to door with at least 2 fasteners which are either tamperproof or concealed when door is closed.

2.3 MATERIALS

- A. Sheet Sheet: Cold-rolled, leveled mild steel.
- B. Fasteners: Zinc-, cadmium-, or nickel-plated steel or stainless steel.
 1. Exposed bolt heads: Tamperproof type.
 2. For fastening moving components: Use lock washers or self-locking nuts.
- C. Hinges: 5-knuckle, nonremovable-pin hinges, of loop style with 2 full thicknesses in each leaf, minimum 2 inches high.
 1. Minimum of 2 hinges per door.
- D. Standard Door Handles: Die-cast zinc alloy or chrome-plated steel latch lifter and padlock hasp, designed so that door can be closed while locked; pry-resistant.

- E. Interior Fittings: Cadmium- or zinc-plated steel or cast aluminum, except shelves.
- F. Padlocks: By user.
- G. Number Plates: Aluminum, zinc alloy, or stainless steel; raised or recessed numerals at least 3/8 inch high.
 - 1. Number lockers as directed by the architect.
 - 2. Fasten to doors, centered near the top, using 2 fasteners.

2.4 FABRICATION – ALL LOCKERS

- A. Factory-fabricate and fully assemble lockers; do not knock down for shipping.
- B. Make lockers square with rigid joints, without dents or warped surfaces.
 - 1. Exposed metal edges: Smooth off sharp edges and corners.
 - 2. Exposed welds: Grind flush.
 - 3. Door and frame fronts: No exposed bolts or rivet heads.
 - 4. Where exposed holes for built-in locks are not used, cover holes neatly using permanent materials.
- C. Doors: Fabricate with flanges edges, reinforced if required for stiffness, and designed to open and close without springing.
 - 1. Fabricate sheet steel doors of one piece.
- D. Miscellaneous Components: Provide all parts, filler panels, closures, clips, and fasteners required for a complete installation.
- E. Finishing: Pre-treat and finish all surfaces, both exposed and concealed, except stainless steel, chrome, and aluminum.
 - 1. Factory-finish all accessory components to match.
 - 2. Pretreatment: Remove scale, rust, and contaminants; chemically degrease and phosphatize.
 - 3. Finish: Manufacturer's standard baked-on enamel.
 - 4. Colors: As selected by the architect from manufacturer's standard range.
 - a. Separate colors will be selected for each room and for body, doors and base.

PART 3 – EXECUTION

3.1 PREPARATION

- A. Clean debris from under and behind lockers before installation.

3.2 INSTALLATION

- A. Install lockers plumb, level, rigid and flush according to manufacturers written instructions.
- B. Anchor lockers securely to substrates in manner recommended by manufacturer.
 - 1. Use reinforcing plates and spacers as required to prevent metal distortion.
 - 2. Provide anchors at not more than 48 inches on center.
 - 3. Conceal fasteners wherever possible.

3.3 ADJUSTING

- A. Adjust doors and latches for smooth operation.

3.4 CLEANING

- A. Clean and touch up finishes; if finish cannot be restored to original appearance, replace locker.
- B. Use only cleaning and touch-up materials recommended by manufacturer.

END OF SECTION 10500

SECTION 10522 - FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. This section includes:
 - 1. Portable fire extinguishers.
 - 2. Fire extinguisher cabinets.
- B. Related Documents:
 - 1. Division 0 – Bidding and General Conditions, Division 1 – General Requirements, all applicable provisions in the technical specification sections of Division 2 through 16 and applicable drawings apply to this section.

1.2 SUBMITTALS

- A. Product Data: Manufacturer's data showing compliance with contract documents.
- B. Samples: Finishes of cabinets, on actual or similar material.
- C. Certification: Installer shall submit written certification that the fire extinguishers installed comply with the contract documents and are fully and correctly charged.

1.3 QUALITY ASSURANCE

- A. Provide only fire extinguishers which comply with NFPA 10.
- B. Labels: Provide only fire extinguishers which are listed and labeled by Underwriters Laboratories Inc.

1.4 PROJECT CONDITIONS

- A. Do not deliver or install extinguishers until just before substantial completion.
- B. Do not use permanent fire extinguishers for construction period fire protection.

PART 2 - PRODUCTS

2.1 FIRE EXTINGUISHERS

- A. Manufacturers: Products of the following manufacturers, provided they comply with requirements of contract documents, will be among those considered acceptable:
 - 1. Fire extinguishers:
 - a. Amerex Corporation.
 - b. Ansul Fire Protection/A Grinnell Company.
 - c. General Fire Extinguisher Corporation.
 - d. Walter Kidde, The Fire Extinguisher Co.
 - e. J.L. Industries
 - f. Larsen's Manufacturing Company
- B. Fire Extinguishers:
 - 1. Rating: 4A:60B:C, 10 pounds capacity.
 - 2. Type: Multipurpose dry chemical (ammonium phosphate).
 - a. Stored pressure type.

3. Cabinet mounted.

2.2 CABINETS AND CABINET ACCESSORIES

- A. Manufacturers: Products of the following manufacturers, provided they comply with requirements of contract documents, will be among those considered acceptable:
 1. Cabinets and accessories:
 - a. Larsen's Manufacturing Company.
 - b. J.L. Industries.
 - b. Modern Metal Products, Division of Technico.
 - c. Muckel Manufacturing, Division of Technico, Inc.
 - d. Watrous, Inc.
- B. Cabinets:
 1. Surface mounted: "AL-2409-6R.
- C. Hinges: Provide hinges for each door; concealed or continuous type; allow full 180 degree opening of door.
 1. Exposed hinges: Finish to match door.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Prepare openings for recessed cabinets.

3.2 INSTALLATION

- A. Perform installation in accordance with the manufacturer's instructions except where more stringent requirements are shown or specified, and except where project conditions require extra precautions or provisions to ensure satisfactory performance of the work.
- B. Install extinguishers in locations indicated.
- C. Install cabinets at locations indicated.
- D. Install with top of cabinet not more than 48 inches above finish floor.
- E. Install extinguishers.

END OF SECTION 10522

SECTION 10810 - TOILET ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Products indicated in separate schedule attached to this section.
- B. Related Documents:
 - 1. Division 0 – Bidding and General Conditions, Division 1 – General Requirements, all applicable provisions in the technical specifications of Divisions 2 through 16 and applicable drawings apply to this section.

1.2 SUBMITTALS

- A. Product Data: Written technical information and instructions for each accessory specified.
- B. Certificates: Submit certification that work complies with requirements of contract documents.

1.3 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: A company regularly engaged in manufacture of products specified in this section, whose products have been in satisfactory use, under similar service conditions, for not less than 5 years.
- B. Installer's Qualifications: A company regularly engaged in installation of products specified in this section, with a minimum of 5 years of experience.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Execute product manufacturer's special instructions to prevent damage to products. Store products in manufacturer's original shipping containers.

1.5 COORDINATION

- A. Use manufacturer's instructions and data to determine anchorage requirements for products specified. In a timely manner, distribute the following to affected installers of related work:
 - 1. Components and anchorage devices provided by toilet accessory manufacturer for incorporation into other work.
 - 2. Coordination data including setting drawings, templates, instructions, etc., for cutouts and installations.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Design is based on products listed in schedule, but comparable products of the following manufacturers will be among those considered:
 - 1. American Specialties, Inc.
 - 2. Bobrick Washroom Equipment, Inc.
 - 3. Bradley Corporation.
 - 4. Watrous, a Division of American Specialties, Inc.

2.2 FABRICATION

- A. Surface Mounted Accessories: Where possible, design accessory to provide concealed anchorage when installed. Precisely-fit seams and joints. Roll exposed edges unless indicated otherwise. Use full-length stainless steel piano-type hinges for access doors and panels.
- B. Recess Mounted Accessories: Design accessories to provide concealed anchorage when closed. Weld all joints. Precisely miter corners where indicated. Use full-length stainless steel piano-type hinges for access doors and panels.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Accessory Locations: Coordinate accessory locations with other work to avoid interference and to ensure proper operation and servicing of accessories. Notify the architect in writing of any conflicts concerning product placement, for resolution. Do not proceed without resolution.
- B. Correct unsatisfactory substrate conditions before start of accessory installation.

3.2 PREPARATION

- A. Clean surfaces to receive accessories. Protect surrounding elements from damage during accessory installation.

3.3 INSTALLATION

- A. Perform installation in accordance with manufacturer's instructions, except where more stringent requirements are shown or specified, and except where project conditions require extra precautions or provisions to ensure satisfactory performance of the work.
- B. Provide plumb, level accessory installations.
- C. Securely attach accessories to substrate.
- D. Accessories Installed for Use by Handicapped Persons: Install as indicated on drawings.

3.4 ADJUSTING

- A. Adjust accessories as required to provide smooth operation and trouble free servicing.

3.5 CLEANING

- A. Clean and polish exposed surfaces of accessories using accessory manufacturer's recommended procedures and cleaning agents.

3.6 PROTECTION

- A. Provide coverings as required to protect installed accessories.

Toilet Accessories: (See Drawings for Schedule)

(TA designation refers to identification on drawings. Model numbers are for washroom accessories manufactured by Bobrick Washroom Equipment, Inc., unless indicated otherwise, and listed as standard of quality.)

TA-1: Mirror: (B-293) 24" x 36".

TA-2: Soap Dispenser: (B-2111).

TA-3: Toilet Paper Dispenser: (B2730).

TA-4: 42" Grab Bar: (B-806x42) with concealed mounting with snap flange.

TA-5: 36" Grab Bar (B-6806x36) with concealed mounting with snap flange.

TA-6: Paper Towel Dispenser: (B-38616).

TA-7: Dog Wash: Stainless steel dog wash tub and cabinet set by Petedge TP 5700 (submit shop drawing for approval)

END OF SECTION 10810