

SECTION 10 14 67 - SIGNAGE

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Plastic interior panel signs.
 - 1. Room Identification.
 - 2. Stairs.
 - 3. Restroom.
 - 4. Informational Signage.
 - 5. Directory Signage.

1.2 REFERENCES

- A. ANSI 117.1 – For Buildings and Facilities.
- B. ASTM International (ASTM):
 - 1. PHYSICAL
 - a. ASTM D792 – Specific Gravity
 - b. ASTM D542 – Optical Refractive Index
 - c. ASTM D1003 – Light Trans - Total, Light Trans - Haze
 - d. ASTM D570 – Water Absorption by weight
 - 2. MECHANICAL
 - a. ASTM D638 – Tensile Strength
 - b. ASTM D790 – Tensile Modulus of Elasticity, Flexural Strength, Flexural Modulus of Elasticity
 - c. ASTM D256 – Izod Impact Strength Molded - Milled Notch
 - d. ASTM D785 – Rockwell Hardness
 - e. ASTM D3763 – Drop Dart Impact
 - f. ASTM D732 – Shear Strength
 - g. ASTM D695 – Compressive Strength
 - 3. THERMAL
 - a. ASTM D648 – Deflection Temperature @ 264 psi, Deflection Temperature @ 66 psi
 - b. ASTM D696 – Coefficient of Thermo Expansion
 - c. ASTM D635 – Flammability (Burning Rate)
 - d. ASTM D2843 – Smoke Density Rating
 - e. ASTM D1929 – Self-Ignition Temp
 - f. ASTM E84 – Flame Spread Index

- g. ASTM D84 – Smoke Development Index
 - h. ASTM D3418 – Glass Transition Temperature
 - 4. ELECTRICAL
 - a. ASTM D150 – Dielectric Constant @ 1KHz, Dielectric Constant @ 1MHz
 - b. ASTM D149 – Dielectric Strength
- C. Underwriters Laboratories (UL):
 - 1. UL 94 - Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.
 - 2. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials.

1.3 PERFORMANCE REQUIREMENTS

- A. Provide photopolymer signage that conforms to the requirements of all regulatory agencies holding jurisdiction.
- B. Requirements:
 - 1. Comply with all applicable provisions of the 2010 ADA Standard for Accessible Design.
 - 2. Character Proportion: Letters and numbers on signs must have a width-to-height ratio between 3:5 and 1:1 and a stroke width-to-height ratio between 1:5 and 1:10.
 - 3. Color Contrast: Characters and symbols must contrast with their background - either light characters on a dark background or dark characters on a light background.
 - 4. Raised Characters or Symbols: Letters and numbers on signs must be raised 1/32 in (0.8 mm) minimum and be sans serif characters. Raised characters or symbols must be at least 5/8 in (16 mm) high but no higher than 2 in (50 mm). Symbols or pictograms on signs must be raised 1/32 in (0.8 mm) minimum.
 - 5. Symbols of Accessibility: Accessible facilities required to be identified must use the international symbol of accessibility.
 - 6. Braille: Grade II with accompanying text.
- C. Fire Performance Characteristics:
 - 1. Provide photopolymer signage with surface burning characteristics that consist of a flame spread (ASTM E84) of 85 and a smoke development (ASTM D84) of 450 when tested in accordance to UL 723 (ASTM E84).
 - 2. Self-Extinguishing: Provide photopolymer signage with a CC1 classification for .060 in thick material when tested in accordance with the procedures in ASTM D 635, Standard Test Method for Rate of Burning and/or Extent and Time of Burning Plastics in a Horizontal Position.
 - 3. Vertical Burn: Provide photopolymer material that is classified as 94V-2 for material .118 in thick or greater and 94HB for material .118 in thick or less when tested in accordance with UL 94, Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.
 - 4. Self-Ignition Temperature: Provide photopolymer material that has a self-ignition temperature of 800 degrees F (427 degrees C) when tested in accordance with ASTM D 1929.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Detail drawings showing sizes, lettering and graphics, construction details of each type of sign and mounting details with appropriate fasteners for specific project substrates.
- D. Manufacturer's Installation Instructions: Printed installation instructions for each signage system.
- E. Message List: Signage report indicating signage location, text and sign type.
- F. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and available pictograms, characters, and Braille indications.
- G. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and typical pictograms, characters, and Braille indications.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum two years documented experience in work of this Section.
- B. Installer Qualifications: Minimum two years documented experience in work of this Section.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Furnish signs designated by Architect.
 - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in unopened factory packaging.
- B. Inspect materials at delivery to verify there are no defects or damage.
- C. Store products in manufacturer's original packaging until ready for installation in climate controlled location away from direct sunlight.

- D. Store and dispose of solvent-based materials, and materials used with solvent-based materials in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

- A. Install products in an interior climate controlled environment.
- B. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design: Lettermans, 4726 Government Street, Baton Rouge, LA 70806. Tel: (225) 925-2663. Email: info@lettermans.com. Web: <http://www.lettermans.com>.
- B. Best Manufacturing Sign Systems
- C. Mohawk Sign Systems, Inc.

2.2 SIGNAGE - GENERAL

- A. It is the intent of these specifications to establish a sign standard for the Owner including but not limited to, wall-mounted directional signs, primary room identification, restrooms, conference rooms and all code compliant Braille signage.
- B. Comply with all applicable provisions of the 2010 ADA Standard for Accessible Design codes that apply to the State and Local jurisdiction of the project.
- C. If required text and graphics are not indicated in specification or on drawings, obtain Owner's instructions as to text and graphics prior to preparation of shop drawings.
- D. Typography: See Drawings. Copy shall be a clean and accurate reproduction of typeface(s) specified. Upper and lower case and all caps as indicated in Sign Type drawings and Signage Schedule. Letter spacing to be set by manufacturer.
- E. Arrows, symbols and pictograms will be provided in style, sizes, colors and spacing as indicated in drawings for each sign system.
- F. Braille:
 - 1. Grade 2 Braille.

2.3 INTERIOR SIGNAGE

- A. Panel Material: Novacryl PT Series Photopolymer
 - 1. Composition: 0.032 inch (0.8 mm) thick moisture resistant, non-glare interior nylon photopolymer on ultraviolet resistant clear PETG sign base, single piece construction. Laminated photopolymers, added-on characters, and engraved characters are not acceptable.

2. Sustainable Certification: Minimum 40 percent pre-consumer recycled content.
3. Base thickness: 0.236 inch (6.0 mm) Non-glare PETG.
4. Type and Color: To be selected from manufacturer's full color range by Architect.
5. Sizes of letters and numbers shall be as follows:
 - a. Room numbers shall be 5/8" high.
 - b. Lettering for room usage and directional identification shall be 5/8" high.
 - c. Lettering for restroom identification shall be 5/8" high, corresponding symbols shall be 3" high.
6. Surface burning characteristics: Flame spread/smoke developed rating less than 75/120, tested to \approx STM E 84 and UL 723.
7. Rate of burning: Tested to \approx STM D 635 at nominal 0.060 inch (1.5 mm) thickness with resulting Classification CC1.
8. Vertical burning: Tested to UL 94, classified as 94V-2 in thickness of 0.118 inch (3.0 mm) or greater and 94HB in thicknesses less than 0.118 inch (3.0 mm).
9. Self-ignition temperature: 800 degrees F (427 degrees C), tested to ASTM D 1929.
10. Grade 2 braille shall be placed directly below last line of letters or numbers, except for room number signs, where they shall be placed directly behind the last number.
11. Provide one at each door opening, each restroom, and one "Exit" sign at each exterior door and stair door.

B. SIGN TYPES

1. Typical restroom signs with ADA symbol.
2. Typical room identification signs with numerals and names.
3. Typical low-level "Exit" & "Stairs" signs.
4. Offices - Room numbers and applied painted channel slot for occupant's name.
5. Conference 205 to be identification signs with 1" high sliding cover at bottom of sign for "In Use" and "Open" sliding panel designations.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 10 14 67

SECTION 10 21 13.19 - PLASTIC TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Solid-plastic toilet compartments.

B. Related Requirements:

1. Section 09 22 16 "Non-Structural Metal Framing" for blocking.
2. Section 10 28 00 "Toilet, Bath, and Laundry Accessories" for accessories mounted on toilet compartments.

1.2 ACTION SUBMITTALS

A. Product data.

B. Shop Drawings: Plans, elevations, sections, details, and attachment details.

C. Samples: color verification for selection.

D. Delegated Design Submittals: For grab bars mounted on toilet compartment panels, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1. Include structural design calculations indicating compliance with specified structural-performance requirements.

1.3 CLOSEOUT SUBMITTALS

A. Operation and maintenance data.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Fire Performance: Tested in accordance with, and pass the acceptance criteria of, NFPA 286.

B. Structural Performance: Where grab bars are mounted on toilet compartments, design panels to comply with the following requirements:

1. Panels are able to withstand a concentrated load on grab bar of at least 250 lbf (1112 N) applied at any direction and at any point, without deformation of panel.

- C. Regulatory Requirements: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design" for toilet compartments designated as accessible.

2.2 SOLID-PLASTIC TOILET COMPARTMENTS PF-4

- A. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - 1. Scranton Products, Eclipse, color white
- B. Urinal-Screen Style: Wall hung.
- C. Urinal-Screen Construction: Matching panel construction.
- D. Pilaster Shoes: Manufacturer's standard design; stainless steel.
 - 1. Plastic Color: white
- E. Pilaster Sleeves (Caps): Manufacturer's standard design; stainless steel.
- F. Urinal-Screen Post: Manufacturer's standard post design of material matching the thickness and construction of pilasters matching that on the pilaster.
- G. Brackets (Fittings):
 - 1. Full-Height (Continuous) Type: Manufacturer's standard design; stainless steel.

2.3 HARDWARE AND ACCESSORIES

- A. Overhead Bracing: Manufacturer's standard continuous, extruded-aluminum head rail with antigrip profile and in manufacturer's standard finish.
- B. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel, finished to match items they are securing, with theft-resistant-type heads. Provide sex-type bolts for through-bolt applications. For concealed anchors, use stainless steel, hot-dip galvanized steel, or other rust-resistant, protective-coated steel compatible with related materials.

2.4 MATERIALS

- A. Stainless Steel Sheet: ASTM A240/A240M or ASTM A666, Type 304, stretcher-leveled standard of flatness.
- B. Stainless Steel Castings: ASTM A743/A743M.

2.5 FABRICATION

- A. Fabricate toilet compartment components to sizes indicated. Coordinate requirements and provide cutouts for through-partition toilet accessories where required for attachment of toilet accessories.

- B. Overhead-Braced Units: Manufacturer's standard corrosion-resistant supports, leveling mechanism, and anchors at pilasters and walls to suit floor and wall conditions. Provide shoes at pilasters to conceal supports and leveling mechanism.
- C. Urinal-Screen Posts: Manufacturer's standard corrosion-resistant anchoring assemblies at posts and walls, with leveling adjustment nuts at[tops and] bottoms of posts. Provide shoes and sleeves (caps) at posts to conceal anchorage.

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 or Screens: 1/2 inch (13 mm).
 - b. Panels or Screens and Walls: 1 inch (25 mm).
 - 2. Full-Height (Continuous) Brackets: Secure panels or screens to walls and to pilasters with full-height brackets.
 - a. Locate bracket fasteners, so holes for wall anchors occur in masonry or tile joints.
 - b. Align brackets at pilasters with brackets at walls.
- B. Overhead-Braced Units: Secure pilasters to floor and level, plumb, and tighten. Set pilasters with anchors penetrating not less than 1-3/4 inches (44 mm) into structural floor unless otherwise indicated in manufacturer's written instructions. Secure continuous head rail to each pilaster with no fewer than two fasteners. Hang doors to align tops of doors with tops of panels and adjust, so tops of doors are parallel with overhead brace when doors are in closed position.
- C. Urinal Screens: Attach with anchoring devices to suit supporting structure. Set units level and plumb, rigid, and secured to resist lateral impact.

3.2 ADJUSTING

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

END OF SECTION 10 21 13.19

SECTION 10 26 00 PLASTIC WALL & CORNER GUARD SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

- A. Non-PVC Wall & Corner Guard systems for wall protection and decoration

1.02 SECTION INCLUDES

- A. Plastic Wall Guard System
- B. Plastic Corner Guards

1.03 REFERENCES

- A. American National Standards Institute (ANSI)
- B. American Society for Testing and Materials (ASTM)
- C. National Fire Protection Association (NFPA)
- D. Society of Automotive Engineers (SAE)

1.04 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide wall & corner guard systems that conform to the following requirements of regulatory agencies:
 - 1. Fire Performance Characteristics: Provide wall guard conforming with the NFPA Class A fire rating. Surface burning characteristics, as determined by ASTM E-84, shall be flame spread of 25 or less and smoke development of 450 or less.
 - 2. Impact Strength: Provide materials that have been tested in accordance with the applicable provisions of ASTM D-256, Impact Resistance of Plastics.
 - 3. System Impact Resistance: Provide a wall guard system that resists impact when tested in accordance with applicable provisions of ASTM F-476.
 - 4. Chemical and Stain Resistance: Provide material that shows resistance to stain when tested in accordance with applicable provisions of ASTM D-543.
 - 5. Fungal and Bacterial Resistance: Provide material that does not support fungal or bacterial growth as tested in accordance with ASTM G-21 and ASTM G-22.
 - 6. GREENGUARD Certified: Provide GREENGUARD Certified profiles. Profiles shall meet the requirements of GREENGUARD Certification Standards for Low-Emitting Products and GREENGUARD Product Emission Standard for Children & Schools.
 - 7. Color Consistency: Provide components matched in accordance with SAE J-1545 - (Delta E) with a color difference no greater than 1.0 units using CIE Lab, CIE CMC, CIE LCh, Hunter Lab or similar color space scale systems.

1.05 SUBMITTALS

- A. Product Data: Manufacturer's printed product data for each product indicated in this section.
- B. Detail Drawings: Mounting details with the appropriate fasteners for specific project substrates.
- C. Samples: Verification samples of wall and corner guards, 8" (203mm) long, in full size profiles of each type indicated (provide in architect's color selection if requested).

- D. Manufacturer's Installation Instructions: Printed installation instructions for each wall guard.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in unopened factory packaging to the jobsite
- B. Inspect materials at delivery to assure that specified products have been received.
- C. Store in original packaging in a climate controlled location away from direct sunlight.

1.07 PROJECT CONDITIONS

- A. Environmental Requirements: Install products in an interior climate-controlled environment.

1.08 WARRANTY

- A. Limited Lifetime Warranty against material and manufacturing defects.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Acceptable Manufacturer:
 - 1. InPro Corporation, noted herein as standard of quality and configuration
 - 2. Wallguard
 - 3. Pawling Corporation
- B. Provide all wall guard and wall protection from a single manufacturer.

2.02 MANUFACTURED UNITS

- A. Wall Guard Profile
 - 1. InPro 2500 System Wall Guard, 2" height x 1" depth, and continuous aluminum retainer.
- B. Corner Guard Profile
 - 1. InPro 150 Series (4'-0" high with 3" wings) with top and bottom caps and continuous aluminum retainer.

2.03 MATERIALS

- A. Reformulated PETG with Biopolymer Blend: Snap on cover of .080" (2mm) thickness shall be extruded from chemical and stain resistant PETG. Inner snap-on impact bumper of .070" (1.8mm) thickness shall be extruded from chemical and stain resistant PETG.
- B. Aluminum: 2" Aluminum retainer clips of .080" (2mm) thickness shall be fabricated from 6063-T5 aluminum with a mill finish.

2.04 COMPONENTS

- A. End, top and bottom caps shall be made of injection molded thermoplastics.
- B. Fasteners: All mounting system accessories appropriate for substrates indicated on the drawing shall be provided.

2.05 FINISHES

- A. Wall and Corner Guard Covers: Wall & corner guard color: InPro #0238 Feather, velvet surface finish texture.
- B. Molded components: End, top and bottom caps, shall be of a color matching the main element of the wall or corner guards. Velvet surface finish texture.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine areas and conditions in which the wall guard system will be installed.
 - 1. Complete all finishing operations, including painting, before beginning installation of wall guard system materials.
 - 2. Wall surface shall be dry and free from dirt, grease and loose paint.

3.02 PREPARATION

- A. General: Prior to installation, clean substrate to remove dust, debris and loose particles.

3.03 INSTALLATION

- A. General installation of wall guards: Locate as indicated on approved detail drawings for the appropriate substrate and in compliance with Manufacturer's installation instructions. Install wall guards level and plumb at the height indicated on the drawings.
- B. Installation of Wall Guards: corner-to-corner with recommended clearance allowance at corner guards.
- C. General: Locate corner guards as indicated on the approved detail drawings for the appropriate substrate and in compliance with Manufacturer's installation instructions. Install corner guards level and plumb at the height indicated on drawings.
- D. Bottom of corner guards installed at top of wall base and to height indicated.

3.04 CLEANING

- A. At completion of the installation, clean surfaces using acceptable products contained in Manufacturer's printed instructions for clean-up and maintenance.

END OF SECTION 10 26 00

SECTION 10 28 00 - TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Private-use bathroom accessories.
 - 2. Healthcare accessories.
 - 3. Childcare accessories.
 - 4. Underlavatory guards.
 - 5. Custodial accessories.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each exposed product and for each finish specified, full size.
 - 1. Approved full-size Samples will be returned and may be used in the Work.
- C. Delegated Design Submittal: For grab bars.
 - 1. Include structural design calculations indicating compliance with specified structural-performance requirements.

1.3 INFORMATIONAL SUBMITTALS

- A. Sample warranties.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.5 WARRANTY

- A. Manufacturer's Special Warranty for Mirrors: Manufacturer agrees to repair or replace mirrors that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Structural Performance: Design accessories and fasteners to comply with the following requirements:
 - 1. Grab Bars: Installed units are able to resist **250 lbf (1112 N)** concentrated load applied in any direction and at any point.
- C. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - 1. Bradley Corporation.

2.2 PRIVATE-USE BATHROOM ACCESSORIES

- A. Grab Bar AGB:
 - 1. Bradley
 - 2. Model:
 - 3. Mounting: Flanges with concealed fasteners.
 - 4. Material: Stainless steel, **0.05 inch (1.3 mm)** thick.
 - a. Finish: Smooth, ASTM A480/A480M No. 4 finish (satin).
 - 5. Outside Diameter: **1-1/2 inches (38 mm)**.
 - 6. Configuration and Length: As indicated on Drawings.
- B. Tissue (Roll) Dispenser PF-8:
 - 1. Bradley
 - 2. Model 5402 - Bradex
 - 3. Description: Dual Roll
 - 4. Mounting: Surface mounted.
 - 5. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
- C. Seat-Cover Dispenser PF-5:
 - 1. Bradley
 - 2. Model: 5831
 - 3. Mounting: Surface mounted
 - 4. Minimum Capacity: 250 seat covers.
 - 5. Exposed Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
 - 6. Lockset: Tumbler type.
- D. Mirror Unit PF-11:
 - 1. Bradley
 - 2. Model: 740-018300

3. Glass: tempered
 4. Frame: Stainless steel angle (Satin Finish), 0.05 inch (1.3 mm) thick.
 - a. Corners: Welded and ground smooth.
 5. Size: 18" x 36".
 6. Hangers: Manufacturer's standard rigid, tamper and theft resistant.
- E. Automatic Soap Dispenser SD:
1. [Bradley](#)
 2. [Model 6B1-119373T-SS](#)
 3. Description: Automatic dispenser with infrared sensor to detect presence of hands; battery powered; designed for dispensing soap in foam form.
 4. Mounting: Surface mounted.
 5. Capacity: 40 ounce.
 6. Materials: Stainless Steel.
 7. Refill Indicator: LED indicator.
 8. Low-Battery Indicator: LED indicator.
- F. Combination Towel (Folded) Dispenser/Waste Receptacle PF-9:
1. [Bradley](#)
 2. [Model 2297 Bradex](#)
 3. Description: Combination unit for dispensing C-fold or multifold towels, with removable waste receptacle.
 4. Mounting: recessed.
 - a. Designed for nominal 4-inch (100-mm) wall depth.
 5. Minimum Towel-Dispenser Capacity: 350 C-fold or 475 multifold paper towels.
 6. Minimum Waste-Receptacle Capacity: 1.7 gal.
 7. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
 8. Liner: Reusable, vinyl waste-receptacle liner.
 9. Lockset: Tumbler type for towel-dispenser compartment and waste receptacle.
- G. Towel (Folded) Dispenser PT:
1. [Bradley](#)
 2. [Model 2297 Bradex](#)
 3. Description: Combination unit for dispensing C-fold or multifold towels, with removable waste receptacle.
 4. Mounting: recessed.
 - a. Designed for nominal 4-inch (100-mm) wall depth.
 5. Minimum Towel-Dispenser Capacity: 350 C-fold or 475 multifold paper towels.
 6. Minimum Waste-Receptacle Capacity: 1.7 gal.
 7. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
 8. Liner: Reusable, vinyl waste-receptacle liner.
 9. Lockset: Tumbler type for towel-dispenser compartment and waste receptacle.
- H. Robe Hook RH:
1. [Bradley Accessories](#)

2. [Model 915](#)
3. Description: Combination door bumper and coat hook.
4. Mounting: Exposed.
5. Material and Finish: Polished chrome-plated brass.

2.3 CHILDCARE ACCESSORIES

A. Diaper-Changing Station PF-10:

1. [Koala Kare](#)
2. [Model KB 111 - SSRE](#)
3. Description: Horizontal unit that opens by folding down from stored position and with child-protection strap.
 - a. Engineered to support minimum of **250-lb (113-kg)** static load when opened.
4. Mounting: Recessed, with unit projecting not more than **1 inch (25 mm)** from wall when closed.
5. Operation: By pneumatic shock-absorbing mechanism.
6. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin), exterior shell with rounded plastic corners; HDPE interior in manufacturer's standard color.
7. Liner Dispenser: Provide built-in dispenser for disposable sanitary liners.

2.4 UNDERLAVATORY GUARDS

A. Underlavatory Guard:

1. [Manufacturers: Subject to compliance with requirements, provide products by one of the](#)
2. [following:](#)
 - a. [Buckaroos, Inc.](#)
 - b. [Plumberex Specialty Products, Inc.](#)
 - c. [Truebro by IPS Corporation.](#)
3. Description: Insulating pipe covering for supply and drain piping assemblies that prevents direct contact with and burns from piping; allow service access without removing coverings.
4. Material and Finish: Antimicrobial, molded plastic, white.

2.5 CUSTODIAL ACCESSORIES

A. Custodial Mop and Broom Holder MH:

1. [American Specialties, Inc. Model – 0796-3](#)
2. [Bobrick Model – B-223x24](#)
3. Description: Unit with mop holders.
4. Length: min. 24”.
5. Mop/Broom Holders: Three, spring-loaded, rubber hat, cam type.

2.6 FABRICATION

- A. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
 - 1. Remove temporary labels and protective coatings.
- B. Grab Bars: Install to comply with specified structural-performance requirements.

END OF SECTION 10 28 00

SECTION 10 44 13 - FIRE PROTECTION CABINETS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Fire-protection cabinets for portable fire extinguishers.

1.2 PREINSTALLATION CONFERENCE

- ##### A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

- ##### A. Product Data: For each type of product.
- ##### B. Shop Drawings: For fire-protection cabinets.
- ##### C. Samples: For each type of exposed finish required.

1.4 CLOSEOUT SUBMITTALS

- ##### A. Maintenance data.

1.5 COORDINATION

- ##### A. Coordinate size of fire-protection cabinets to ensure that type and capacity of fire extinguishers indicated are accommodated.
- ##### B. Coordinate sizes and locations of fire-protection cabinets with wall depths.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- ##### A. Fire-Rated Fire-Protection Cabinets: Listed and labeled to comply with requirements in ASTM E814 for fire-resistance rating of walls where they are installed.

2.2 FIRE-PROTECTION CABINET: FP-1

- ##### A. Cabinet Type: Suitable for fire extinguisher.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Fire-End & Croker Corporation.
 - b. Guardian Fire Equipment, Inc.
 - c. Larsens Manufacturing Company.
 - d. Modern Metal Products, Division of Technico Inc.
 - e. Nystrom.
 - f. Strike First Corporation of America (The).
- B. Cabinet Construction: Nonrated.
 1. Fire-Rated Cabinets: Construct fire-rated cabinets with double walls fabricated from ~~0.043-inch-~~ (1.09-mm-) thick cold-rolled steel sheet lined with minimum ~~5/8-inch-~~ (16-mm-) thick fire-barrier material. Provide factory-drilled mounting holes.
- C. Cabinet Material: Stainless steel sheet.
- D. Semirecessed Cabinet: One-piece combination trim and perimeter door frame overlapping surrounding wall surface, with exposed trim face and wall return at outer edge (backbend).
 1. Rolled-Edge Trim: ~~2-1/2-inch~~ (64-mm) backbend depth.
- E. Cabinet Trim Material: Stainless steel sheet.
- F. Door Material: Stainless steel sheet.
- G. Door Style: Center glass panel with frame.
- H. Door Glazing: Clear float glass.
- I. Door Hardware: Manufacturer's standard door-operating hardware of proper type for cabinet type, trim style, and door material and style indicated.
- J. Accessories:
 1. Mounting Bracket: Manufacturer's standard steel, designed to secure fire extinguisher to fire-protection cabinet, of sizes required for types and capacities of fire extinguishers indicated, with plated or baked-enamel finish.
 2. Lettered Door Handle: One-piece, cast-iron door handle with the word "FIRE" embossed into face.
 3. Door Lock: Cam lock that allows door to be opened during emergency by pulling sharply on door handle.
 4. Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as indicated.
 - a. Identify fire extinguisher in fire-protection cabinet with the words "FIRE EXTINGUISHER."
 - 1) Location: Applied to cabinet door.
 - 2) Application Process: Pressure-sensitive vinyl letters.

- 3) Lettering Color: Black.
- 4) Orientation: Vertical.

K. Materials:

- 1. Stainless Steel: ASTM A240/A240M or ASTM A666, Type 304.
 - a. Finish: ASTM A480/A480M No. 4 directional satin finish,.
- 2. Clear Float Glass: ASTM C1036, Type I, Class 1, Quality q3, 3 mm thick.

2.3 FABRICATION

- A. Fire-Protection Cabinets: Provide manufacturer's standard box (tub) with trim, frame, door, and hardware to suit cabinet type, trim style, and door style indicated.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Prepare recesses for semirecessed fire-protection cabinets as required by type and size of cabinet and trim style.
- B. Install fire-protection cabinets in locations and at mounting heights indicated or, if not indicated, at heights acceptable to authorities having jurisdiction.
- C. Fire-Protection Cabinets: Fasten cabinets to structure, square and plumb.
- D. Identification: Apply vinyl lettering at locations indicated.
- E. Adjust fire-protection cabinet doors to operate easily without binding. Verify that integral locking devices operate properly.

END OF SECTION 10 44 13

SECTION 10 44 16 - FIRE EXTINGUISHERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes portable, hand-carried fire extinguishers and mounting brackets for fire extinguishers.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1.4 INFORMATIONAL SUBMITTALS

- A. Warranty: Sample of special warranty.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.6 COORDINATION

- A. Coordinate type and capacity of fire extinguishers with fire-protection cabinets to ensure fit and function.

1.7 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. Warranty Period: Six years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Portable Fire Extinguishers."
- B. Fire Extinguishers: Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction.

2.2 PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS

- A. Fire Extinguishers: Type, size, and capacity for each fire-protection cabinet and mounting bracket indicated.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Amerex Corporation.
 - b. Ansul; brand of Johnson Controls International plc, Building Solutions North America.
 - c. Guardian Fire Equipment, Inc.
 - d. Kidde; Carrier Global Corporation.
 - e. Larsens Manufacturing Company.
 - f. Pyro-Chem; brand of Johnson Controls International plc, Building Solutions North America.
 - g. Strike First Corporation of America (The).
 - 2. Instruction Labels: Include pictorial marking system complying with NFPA 10, Appendix B.
- B. Unit 1: Multipurpose Dry-Chemical Type ABC: UL-rated 10 lb. nominal capacity, with monoammonium phosphate-based dry chemical in manufacturer's standard enameled container.

2.3 MOUNTING BRACKETS: FP-2

- A. Mounting Brackets: Manufacturer's standard galvanized steel, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated, with plated or black baked-enamel finish.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Amerex Corporation.
 - b. Ansul; brand of Johnson Controls International plc, Building Solutions North America.
 - c. Guardian Fire Equipment, Inc.
 - d. Kidde; Carrier Global Corporation.
 - e. Larsens Manufacturing Company.

- f. Pyro-Chem; brand of Johnson Controls International plc, Building Solutions North America.
 - g. Strike First Corporation of America (The).
- B. Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as indicated by Architect.
 - 1. Identify bracket-mounted fire extinguishers with the words "FIRE EXTINGUISHER" in red letter decals applied to mounting surface.
 - a. Orientation: Vertical.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Examine fire extinguishers for proper charging and tagging.
 - 1. Remove and replace damaged, defective, or undercharged fire extinguishers.
- B. Install fire extinguishers and mounting brackets in locations indicated and in compliance with requirements of authorities having jurisdiction.
 - 1. Mounting Brackets: Top of fire extinguisher to be at 42 inches (1067 mm) above finished floor.
- C. Mounting Brackets: Fasten mounting brackets to surfaces, square and plumb, at locations indicated.

END OF SECTION 10 44 16