

SECTION 101400 - SIGNAGE

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Handicapped Parking Sign: Contractor shall provide handicapped parking sign at each parking space which is federally approved or meets local handicap requirements as well as ADA-ABA Accessibility Guidelines. Mount on building to masonry. Mounting height: +96" @ cars and van (verify).
 - 2. Banners: Contractor shall include the cost of hanging two Owner supplied "Soon Opening" banners and replacing with two "Now Open" banners at grand opening. Banners are 6' x 8' and are roped from the four corners; two over top of canopy and two down to canopy columns. Verify location with Owner representative. Banners shall be removed and returned to the Owner's representative after the "Grand Opening".

1.2 DEFINITIONS

- A. ADA-ABA Accessibility Guidelines: U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines."

1.3 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

PART 2 - PRODUCTS

2.1 All interior signage shall be provided by General Contractor.

2.2 ACCESSORIES

- A. Anchors and Inserts: Provide nonferrous-metal or hot-dip galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion-bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.
- B. Framing: Contractor to provide additional structural framing for the support of (Dimensional illuminated characters) Illuminated Channel Lettering.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Coordinate location of signs and accessories with Owner, using mounting methods 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 of sign without encountering protruding objects or standing within swing of door.
- B. Wall-Mounted Signs: Comply with sign manufacturer's written instructions.

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C. Restore damaged finishes. Clean and protect work from damage.

END OF SECTION 101400

SECTION 102113-19 – PLASTIC TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Solid Plastic (HDPE) toilet compartments configured as toilet enclosures and urinal screens.

1.2 SUBMITTALS

- A. Shop Drawings: For toilet compartments. Include plans, elevations, sections, details, and attachments to other work.

1.3 QUALITY ASSURANCE

- A. Surface-Burning Characteristics: Must pass NFPA 286, or another standard acceptable to authorities having jurisdiction, by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- B. Regulatory Requirements: Comply with applicable provisions in 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 for toilet compartments designated as accessible.

PART 2 - PRODUCTS

2.1 MATERIALS

2.2 SOLID PLASTIC (HDPE) UNITS

A. Manufacturers: Subject to compliance with requirements, provide products by the following:

1. Bradley; Bradmar Floor-Mounted with Overhead-Brace, Bradmar Solid Plastic (HDPE) – Series 400 – Sentenial, 100% Post-Consumer Recycled Material
 - a. Color: #M248 Charcoal Grey
2. Global Partitions; Floor Anchored / Overhead-Braced Toilet Compartments, Polymer (HDPE), 100% Post-Consumer Recycled Material
 - a. Color: #9237 Charcoal

- B. Toilet-Enclosure Style: Overhead braced (55" tall) panels. Mount with 14" clearance below, top at 69".

- C. Urinal-Screen Style: Wall hung. 18" x 42"

- D. Provide minimum 1-inch- thick doors and pilasters and minimum 1-inch- thick panels.

- E. Pilaster Shoes and Sleeves (Caps): Fabricated from stainless-steel sheet, not less than 4 inches high, finished to match hardware.

F. Brackets (Fittings):

1. Full-Height (Continuous) Type: Manufacturer's standard design; stainless steel.

2.3 ACCESSORIES

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

1. Material: Stainless steel
2. Hinges: Manufacturer's standard paired, self-closing type that can be adjusted to hold doors open at any angle up to 90 degrees.

3. Latch and Keeper: Manufacturer's standard surface-mounted latch unit designed for emergency access and with combination rubber-faced door strike and keeper. Provide units that comply with regulatory requirements for accessibility at compartments designated as accessible.
4. Coat Hook: Manufacturer's standard combination hook and rubber-tipped bumper, sized to prevent in-swinging door from hitting compartment-mounted accessories.
5. Door Bumper: Manufacturer's standard rubber-tipped bumper at out-swinging doors.
6. Door Pull: Manufacturer's standard unit at out-swinging doors that complies with regulatory requirements for accessibility. Provide units on both sides of doors at compartments designated as accessible.

B. Overhead Bracing: Manufacturer's standard continuous, extruded-aluminum head rail with antigrip profile and in manufacturer's standard finish.

C. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel or chrome-plated steel or brass, finished to match the 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.

2.4 FABRICATION

A. Overhead-Braced Units: Provide manufacturer's standard corrosion-resistant supports, leveling mechanism, and anchors at pilasters to suit floor conditions. Provide shoes at pilasters to conceal supports and leveling mechanism.

B. Door Size and Swings: 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 designated as accessible.

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.

B. Clearances: Maximum 1/2 inch between pilasters and panels; 1 inch between panels and walls.

3.2 ADJUSTING

A. Hardware Adjustment: Adjust and lubricate hardware according to hardware manufacturer's written instructions for proper operation. Set hinges on in-swinging doors to hold doors 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 102113

SECTION 102600 – WALL, DOOR, AND EQUIPMENT PROTECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Bumper guards
 - 2. Floor mounted bumper rail.
 - 3. Security Rail (Guidance Rail).
 - 4. Equipment Guardrail.
 - 5. Equipment Corner Protection

1.2 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by manufacturer.
- B. Preinstallation Conference: Conduct conference at Project site.

PART 2 - PRODUCTS

To acquire order forms for McCue products listed below, contact:

John Romano
National Account Manager
McCue Corp
Cell: 574-532-0221
Main: 800-800-8503
Email: romktg@aol.com

2.1 MATERIALS

- A. PVC Plastic: ASTM D 1784, Class 1, textured, chemical- and stain-resistant, high-impact-resistant PVC or acrylic-modified vinyl plastic with integral color throughout.
- B. Aluminum Extrusions: Alloy and temper recommended by manufacturer for type of use and finish indicated, but with not less than strength and durability properties specified in ASTM B 221 for Alloy 6063-T5.
- C. Stainless Steel: ASTM A 554.
- D. Fasteners: Aluminum, nonmagnetic stainless-steel, or other noncorrosive metal screws, bolts, and other fasteners compatible with items being fastened. Use security-type fasteners where exposed to view.

2.2 WALL GUARDS

- A. Bumper Guards 2" stainless steel; assembly consisting of continuous snap-on stainless steel cover installed over concealed, continuous retainer; designed to withstand impacts.
 - 1. Manufacturer: McCue Corporation.
 - a. Color: stainless steel
 - 2. Mounting: Surface mounted directly to wall. Terminate ends with stainless steel end cap.

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- B. Floor Mounted Bumper Rail (McCue bumper guard) with straight leg: Model CartStop SSR, floor mounted Rail System; designed to withstand impacts.
 - 1. Manufacturers: McCue Corporation.
 - 2. Mounting: Mounted per manufacturer's recommendations, pre-drill mounting holes prior to installation of Hussmann multideck units. Final rail layout provided by ALDI construction representative.
- C. Corner Protector Rail: Model CartStop UG150 12, floor mounted Rail; designed to withstand impacts.
 - 1. Manufacturers: McCue Corporation.
 - 2. Mounting: Mounted per manufacturer's recommendations, pre-drill mounting holes prior to installation of Hussmann multideck units. Final rail locations provided by ALDI construction representative.

2.3 SECURITY RAIL (GUIDANCE RAIL)

- A. Contractor shall install security railings at check-out counters and pre-fabricated sacking counter with expansion anchors into floor at vertical supports approximately 5'-0" o.c.
 - 1. Manufacturers: McCue Corporation.
Model: McCue CartStop GR.

2.4 EQUIPMENT GUARDRAIL

- A. Contractor shall install equipment guardrail at location(s) indicated on drawing with expansion anchors into floor at intervals shown on the drawings for vertical supports.
 - 1. Manufacturers: McCue Corporation.
Model: McCue CartStop System Protector w/ 37" h. posts.

2.5 EQUIPMENT CORNER PROTECTION

- A. Contractor shall install equipment guardrail at location(s) indicated on drawing with expansion anchors into floor at intervals shown on the drawings for vertical supports.
 - 1. Manufacturers: McCue Corporation.
Model: McCue CartStop UG150, 12" h. w/ grey polyethylene top.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install impact-resistant wall protection units level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.
 - 1. Install impact-resistant wall protection units in locations and at mounting heights indicated on Drawings; coordinate with Owner for exact parameters.
 - 2. Provide splices, mounting hardware, anchors, and other accessories required for a complete installation.
 - a. Where splices occur in horizontal runs of more than 20 feet, splice aluminum retainers and plastic covers at different locations along the run, but no closer than 12 inches.
 - b. Adjust end caps as required to ensure tight seams.
- B. Immediately after completion of installation, clean plastic covers and accessories using a standard, ammonia-based, household cleaning agent.

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- C. Remove excess adhesive using methods and materials recommended in writing by manufacturer.
- D. Contractors doing work for **Batavia, Denton, Dwight, Faribault, Goodyear, Greenwood, Hinckley, Moreno Valley, Oak Creek, O'Fallon, Olathe, Valparaiso and Webberville** divisions shall determine quantity of material and coordinate with Owner's Representative to order through ***KPI Concepts, Inc., Burlington, Iowa. Phone: (319) 754-5922.***
- E. Contractors doing work for **Center Valley, Frederick, Jefferson, Loxley, Mt. Juliet, Haines City, Salisbury, Saxonburg, South Windsor, Springfield and Tully** divisions shall determine quantity of material and coordinate with Owner's Representative to order through ***Riddley Cabinet Co., Kings Mountain, NC. Phone: (704) 435-8829.***

END OF SECTION 102600

SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

Section Includes:

1. Public-use washroom accessories.
2. Warm-air dryers.
3. Under-lavatory guards.
4. Custodial Accessories.

1.2 SUBMITTALS

Product Data: For each type of product indicated.

Maintenance data.

Warranty: Sample of special warranty.

1.3 QUALITY ASSURANCE

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.

1.4 WARRANTY

Special Mirror Warranty: Manufacturer's standard form in which manufacturer agrees to replace mirrors that develop visible silver spoilage defects and that fail in materials or workmanship within specified warranty period.

1. Warranty Period: 15 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PUBLIC-USE WASHROOM ACCESSORIES

AC1 – Baby Changing Station:

1. Manufacturers: Koala Kare Products.
2. Basis-of-Design Product: Koala Kare KB200-01.
3. Description: Horizontal Baby Changing Station.
4. Mounting: Wall mounted.
5. Operation: Unit shall be equipped with a pneumatic cylinder for controlled opening and closing of bed.
6. Capacity: Interior dispenser holds approximately 50 bed liners.
7. Material and Finish: Injection-molded polypropylene, color to be "Grey" (01).
8. Provide 500 liners for changing station: Koala Kare KB150-99.
9. This unit is available at a preferred rate through Aldi's national account. Call Bobrick Washroom Equipment at 818-764-1000 or email to customerservice@koalabear.com to obtain current preferred rate order form.

AC2 - Paper Towel (Roll) Dispenser:

1. Manufacturers: Subject to compliance with requirements, provide products indicated on Drawings or comparable product by one of the following:
 - a. Simplehuman
2. Basis-of-Design Product: Simplehuman Wall mount Paper Towel Holder, Stainless Steel; Available through Simplehuman.com, Amazon or Uline.
3. Description: Spring-actuated mechanism permits controlled delivery of paper rolls.
4. Mounting: Surface mounted.
5. Minimum Capacity: Standard core paper towels to 6" diameter.
6. Material and Finish: Die cast metal bracket with stainless steel rod.

AC3 - Grab Bar:

1. Manufacturers: Subject to compliance with requirements, provide products indicated on Drawings or comparable product by one of the following:
 - a. Bobrick Washroom Equipments, Inc.
 - b. Bradley Corporation.
2. Basis-of-Design Product: Bobrick Washroom Equipment, Inc.; Model B-6806
3. Mounting: Flanges with concealed fasteners.
4. Material: Stainless steel, 0.05 inch thick.
 - a. Finish: Smooth, No. 4 finish (satin) on ends and slip-resistant texture in grip area.
5. Outside Diameter: 1-1/2 inches.
6. Configuration and Length as follows:
 - a. Straight, 36 inches long.
 - b. Straight, 18 inches long.
 - c. Straight, 42 inches long.

AC4 - Mirror Unit:

1. Manufacturers: Subject to compliance with requirements, provide products indicated on Drawings or comparable product by one of the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Bradley Corporation.
2. Basis-of-Design Product: Bobrick Washroom Equipment, Inc.; Model B-2908 2436
3. Frame: Type 304 stainless steel angle with satin finish; beveled frame edge
 - a. Corners: Heliarc welded, ground and polished smooth
4. Hangers: Produce rigid, tamper- and theft-resistant installation, using method indicated below.
 - a. One-piece, galvanized-steel, wall-hanger device with spring-action locking mechanism to hold mirror unit in position with no exposed screws or bolts.
 - b. Wall bracket of galvanized steel, equipped with concealed locking devices requiring a special tool to remove.
5. Glass: 1/4" tempered

AC5 - Warm-Air Dryer with Wall Guard:

1. Manufacturers: Excel Dryer, Inc, 357 Chestnut Street, P.O. Box 365; East Longmeadow, MA 01028. ASD. Tel: 413-525-4531; Fax: 413-525-2853; Email: Sales@exceldryer.com. Web: www.exceldryer.com.
2. Basis-of-Design Product: Excel Dryer, Inc.; ThinAir #TA-SB 120v.
3. Mounting: Surface mounted, ADA Compliant Hand Dryers
4. Operation: Electronic-sensor activated with timed power cut-off switch.
 - a. Operation Time: 35 sec run on time, with a 60 sec vandal shut off.
5. Cover Material and Finish: Brushed Stainless Steel.
6. Electrical Requirements: 115 V, 7.7 A, 915 W.
7. Provide Xlerator Hand Dryer Wall Guard Part ID #89S; Install per manufacturer's recommendations.
8. NOTE: ALDI has a national account rate with Excel Dryer. Contact Curt Scott at 888-611-9711 or curt@gsact.com for the special pricing.

AC6 - Underlavatory Guard:

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

2.2 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.

- B. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to ASTM F 446.

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END OF SECTION 102800

SECTION 102813 - MISCELLANEOUS ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Coat hooks.
 - 2. Shelves.
 - 3. Hooks.
 - 4. Roller shades, to be installed at office window.
 - 5. Vertical louver blinds, PVC vanes, to be installed at break room window.

1.2 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: Provide products passing flame-resistance testing according to NFPA 701 by a testing agency acceptable to authorities having jurisdiction.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, CS (Commercial Steel), Type B.
- B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, CS (Commercial Steel), Type B; with G60 zinc (galvanized) coating designation.
- C. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
- D. Concealed Bolts: ASTM A 307, Grade A unless otherwise indicated.

2.2 HOOKS

- A. Heavy-Duty Coat Hooks: Stanley 752380- 3" heavy-duty coat hooks, zinc coated finish, in Backroom as indicated on the drawings; provide 4.
- B. Hooks: Provide office clip board hanging hooks; Stanley No. 752840- 1 ½" screw hook, bright zinc plated. (4) hooks per 1 x 4 @ 10" o.c.
- C. Hooks: provide two Stanley No. 8332 vinyl coated storage hooks at +6'-0" adjacent to each battery charger shelf to hang ends of charger cables. Verify exact location with Aldi representative.
- D. Hooks: Provide two Stanley No. 756105 coat hooks at 48" a.f.f. in coat closet in break room.
- E. Hooks: Provide two Stanley No. 756105 coat hooks at 48" a.f.f. on restroom side of restroom doors.
- F. Mop Hooks: Provide seven Stanley Hardware # 752001-Zinc Plated Giant Tool storage clips within each mop sink enclosure; three spaced equally on each side wall and one on back wall located 4" to the left side of faucet. Provide solid wood blocking within wall. Locate all hooks at 66" A.F.F.

2.3 FABRICATION

- A. Provide for anchorage of type indicated; coordinate with supporting structure. Fabricate and space anchoring devices to secure detention toilet accessories rigidly in place and to support expected loads. Build in straps, plates, and brackets as needed to support and anchor fabricated items to adjoining construction. Reinforce formed-metal units as needed to attach and support other construction.

2.4 ROLLER SHADES

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Draper Inc.; Manual FlexShade.
 - 2. Hunter Douglas, Inc.; Hunter Douglas Window Fashions Division; Designer Roller Shades.
 - 3. Levolor; Levolor-Kirsch Window Fashions; a Newell Rubbermaid Company; Roller Shades.
 - a. Basis of design Levolor Roller Shade; color #303GY021 Tempest Blockout Gray. Provide pull down or cord loop operation and standard matching valance.
- B. Installation Location: Interior side of office window.
- C. Unit Sizes: Obtain units fabricated in sizes to fill window and other openings as follows, measured at 74 deg F:
 - 1. Shade Units Installed between (Inside) Jambs: Edge of shade not more than 1/4 inch from face of jamb. Length equal to head to sill dimension of opening in which each shade is installed.
- D. Installation Brackets: Designed for easy removal and reinstallation of shade, for supporting roller, and operating hardware and for hardware position and shade mounting method indicated.
- E. Installation Fasteners: No fewer than two fasteners per bracket, fabricated from metal noncorrosive to shade hardware and adjoining construction; type designed for securing to supporting substrate; and supporting shades and accessories under conditions of normal use.

2.5 VERTICAL LOUVER BLINDS, PVC VANES

- A. Installation Location: Interior side of break room window.
- B. Basis-of-Design Product: Subject to compliance with requirements, provide Levolor, A Newell Rubbermaid Company; LouverDrape or a comparable product.
- C. Rail System: Headrail.
 - 1. Rails: Extruded aluminum; long edges returned or rolled; channel-shaped, enclosing operating mechanisms.
 - a. Anodized aluminum, clear anodized.
- D. Vanes: Lead-free, UV-stabilized, integrally colored, opaque, permanently flexible, extruded PVC that will not crack or yellow; with flat profile and not less than 3/8-inch overlap when vanes are rotated fully closed.
 - 1. Nominal Vane Width: **4 inches**.
- E. Vane Directional Control: Manual.
- F. Traversing Control: Manual.
- G. Draw and Stack Position: Coordinate with Owner.
- H. Louver Bottom: Connecting or spacing chains.
- I. Mounting: End mounting.
- J. Stack Release: Permitting stacked vanes to be moved away from stacking position for total access to glazed opening.
- K. Colors, Textures, Patterns, and Gloss: Squirrel Gray, verify with Owner prior to ordering.

2.6 INSTALLATION

- A. Provide for anchorage of type indicated; coordinate with supporting structure. Fabricate and space anchoring devices to secure detention toilet accessories rigidly in place and to support expected loads. Build in straps, plates, and brackets as needed to support and anchor fabricated items to adjoining construction. Reinforce formed-metal units as needed to attach and support other construction.

2.7 VERTICAL LOUVER BLIND FABRICATION

- A. Product Description: Vertical louver blind consisting of equally spaced, synchronized vanes and rail system with self-aligning carrier mechanisms, carriers, traverse and vane directional mechanisms and controls, and installation hardware.
- B. Concealed Components: Noncorrodible or corrosion-resistant-coated materials.
 - 1. Louver Directional and Traversing Control Mechanisms: With permanently lubricated moving parts.
- C. Unit Sizes: Obtain units fabricated in sizes to fill window and other openings as follows:
 - 1. Blind Units Installed between (inside) Jamb: Width equal to 1/4 inch per side or 1/2 inch total less than jamb-to-jamb dimension of opening in which each blind is installed. Length equal to 1/4 inch, plus or minus 1/8 inch, less than head-to-sill dimension of opening in which each blind is installed.
- D. Installation Brackets: Designed for easy removal and reinstallation of blind, for supporting headrail, valance, and operating hardware, and for hardware position and blind mounting method indicated.
- E. Installation Fasteners: No fewer than two fasteners per bracket, fabricated from metal noncorrosive to blind hardware and adjoining construction; type designed for securing to supporting substrate; and supporting blinds and accessories under conditions of normal use.
- F. Color-Coated Finish: For metal components exposed to view, unless anodized or plated finish is indicated. Apply manufacturer's standard baked finish complying with manufacturer's written instructions for surface preparation including pretreatment, application, baking, and minimum dry film thickness.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of detention toilet accessories. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of detention toilet accessories.

3.2 INSTALLATION

- A. Fastening to In-Place Construction: Provide anchorage devices and fasteners where necessary for securing accessories to in-place construction
- B. Jamb Mounted: Install headrail flush with face of opening jamb and head.
- C. Head Mounted: Install headrail on face of opening head.
- D. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions, and located so shade band is not closer than **2 inches** to interior face of glass. Allow clearances for window operation hardware.

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- E. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.
- F. Clean roller shade surfaces after installation, according to manufacturer's written instructions.

END OF SECTION 102813

SECTION 104416 - FIRE EXTINGUISHERS

PART 1 - GENERAL

1.1 SUMMARY

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

1.2 QUALITY ASSURANCE

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

1.3 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 PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS

- A. Fire Extinguishers: Type, size, and capacity for each mounting bracket indicated.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. J. L. Industries, Inc.; a division of Activar Construction Products Group.
 - b. Larsen's Manufacturing Company.
 - c. Potter Roemer LLC.
 - d. Approved equal.
 - 2. Instruction Labels: Include pictorial marking system complying with NFPA 10, Appendix B and bar coding for documenting fire extinguisher location, inspections, maintenance, and recharging.
- B. Multipurpose Dry-Chemical Type: UL-rated, 4-A:60-B:C (10 lb) nominal capacity, with mono-ammonium phosphate-based dry chemical in manufacturer's standard enameled container.

2.2 MOUNTING BRACKETS

- 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 red baked-enamel finish.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. J. L. Industries, Inc.; a division of Activar Construction Products Group.
 - b. Larsen's Manufacturing Company.
 - c. Potter Roemer LLC.

- d. Approved equal.
- 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.
- C. Mounting Brackets: Fasten mounting brackets to surfaces, square and plumb, at locations indicated.

END OF SECTION 104416