SECTION 10 11 01
VISUAL DISPLAY BOARDS

PART 1 GENERAL

1.01 SECTION INCLUDES

1.02 RELATED REQUIREMENTS
   A. Section 06 10 00 - ROUGH CARPENTRY: Blocking and supports.
   B. Section 09 21 16 - GYPSUM BOARD ASSEMBLIES: Concealed supports in metal stud walls.

1.03 REFERENCE STANDARDS

1.04 SUBMITTALS
   A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
   B. Product Data: Provide manufacturer's data on markerboard, trim, and accessories.
   C. Shop Drawings: Indicate wall elevations, dimensions, joint locations, special anchor details.
   D. Samples: Submit two samples 2 by 2 inch (50 by 50 mm) in size illustrating materials and finish, color and texture of markerboard and trim.

1.05 WARRANTY
   A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
   B. Provide five year warranty for markerboard to include warranty against discoloration due to cleaning, crazing or cracking, and staining.

PART 2 PRODUCTS

2.01 VISUAL DISPLAY BOARDS - EQ-19
   A. Markerboards: Porcelain enamel on steel, laminated to core.
      2. Steel Face Sheet Thickness: 24 gage, 0.0239 inch (0.61 mm).
      3. Core: Particleboard, manufacturer's standard thickness, laminated to face sheet.
      4. Backing: Aluminum foil, laminated to core.
      5. Size: As indicated on drawings.
      8. Accessories: Provide chalk tray and map rail.

2.02 MATERIALS
   A. Porcelain Enameled Steel Sheet: ASTM A424/A424M, Type I, Commercial Steel, with fired-on vitreous finish.
   B. Particleboard: ANSI A208.1; wood chips, set with waterproof resin binder, sanded faces.
   C. Foil Backing: Aluminum foil sheet, 0.005 inch (0.13 mm) thick.

PART 3 EXECUTION

3.01 EXAMINATION
   A. Verify that field measurements are as indicated.
   B. Verify that internal wall blocking is ready to receive work and positioning dimensions are as indicated on shop drawings.
3.02 INSTALLATION
   A. Install boards in accordance with manufacturer's instructions.
   B. Secure units level and plumb.

3.03 CLEANING
   A. Clean board surfaces in accordance with manufacturer's instructions.

END OF SECTION
SECTION 10 21 13.19
SOLID SURFACE TOILET COMPARTMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Solid surface toilet compartments.
B. Urinal screens.

1.02 RELATED REQUIREMENTS
A. Section 10 28 00 - TOILET, BATH, AND LAUNDRY ACCESSORIES.

1.03 DEFINITIONS
A. Solid surface is defined as nonporous, homogeneous material maintaining the same composition throughout the part with a composition of acrylic polymer, aluminum trihydrate filler and pigment.

1.04 REFERENCE STANDARDS
A. General: Refer to most recent edition or edition adopted by authorities having jurisdiction, including all applicable amendments and supplements.
B. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
D. ANSI/IAPMO Z124.3 - Plastic Lavatories.
E. ANSI/IAPMO Z124.6 - Plastic Sinks.

1.05 ADMINISTRATIVE REQUIREMENTS
A. Coordination: Coordinate the work with placement of support framing and anchors in walls and ceilings.

1.06 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Shop Drawings: Indicate partition plan, elevation views, dimensions, large-scale details of wall and floor supports, door swings, attachment devices and other components.
   1. Provide full-size details, edge details, thermoforming requirements, attachments, etc.
   2. Provide locations and sizes of cutouts and holes for plumbing fixtures, soap holders and other items installed in solid surface.
C. Product Data: Provide manufacturer's technical data on panel construction, hardware, and accessories, fabrication information and compliance with specified performance requirements.
D. Samples: Submit four samples of partition panels, 4 x 4 inches (100 x 100 mm) in size illustrating panel finish, color, and sheen.
E. Cut samples and seam together for representation of inconspicuous seam.
   1. Indicate full range of color and pattern variation.
F. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
G. Maintenance Data: Submit manufacturer's care and maintenance data, including repair and cleaning instructions.
   1. Provide one maintenance kit for finishes.
H. Fabricator/Installer Qualifications: Provide copy of certification number.
I. Manufacturer Certificates: Signed by manufacturers certifying compliance with specified requirements.

1.07 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section with minimum five years of documented experience.
B. Installer Qualifications: Company specializing in performing the type of work specified in this section with minimum five years of documented experience and approved by manufacturer.

1.08 DELIVERY, STORAGE AND HANDLING
A. Deliver no components to project site until areas are ready for installation.
B. Store components indoors prior to installation.
C. Handle materials to prevent damage to finished surfaces.
   1. Provide protective coverings to prevent physical damage or staining following installation for duration of project.

PART 2 PRODUCTS
2.01 MANUFACTURERS
A. Solid Surface Toilet Compartments:
   2. Substitutions: Not permitted.
B. Hardware:
   1. Jacknob Corp., Hauppauge, NY, 11788-8032, Tel: (866) 452-3672. www.jacknob.com

2.02 SOLID SURFACE TOILET COMPARTMENTS
A. Toilet Compartments: Factory fabricated doors, pilasters, and divider panels made of solid molded acrylic resin (polymethyl methacrylate or PMMA), aluminum trihydrate (ATH), and pigment, floor-mounted headrail-braced.
   1. Color: As indicated on Drawings.
   2. Gloss: Matte, gloss range of 5-20.
B. Toilet partitions:
   1. Pilasters of 1 inch (25 mm) solid surface material:
      a. Floor mounted- overhead braced.
      b. Provide adjustment for floor variations with screw jack through steel saddles integral with pilaster
      c. All mounting hardware to be internally mounted in panels and pilasters and to be concealed after assembly of partitions.
      d. Solid surface one-piece shoes with radiused edges
C. Urinal Screen: Custom fabricated with concealed stainless steel tee anchor supporting trapezoidal shaped solid surface screen. Refer to drawings for shape and details.
D. Door Dimensions:
   1. Thickness: 1/2 inch (12 mm) thick and laminated to 1 inch (25 mm) thick along vertical edges. Provide 1/4 inch (6 mm) radius on all edges.
   2. Door Width: 24 inch (610 mm), unless indicated otherwise on Drawings.
      a. Except as indicated otherwise on Drawings, bottom edges of doors shall be 12 inches (300 mm) above finished floor.
b. Vertical edge reinforcement: 3 inches (75 mm) wide laminated to 1 inch (25 mm) thick along vertical edges

3. Door Width at Accessible Stalls: 34 inch (863.6 mm), out-swinging, or as indicated on Drawings.
   a. Bottom edges of doors shall be 12 inches (300 mm) above finished floor unless indicated otherwise on Drawings
   b. Vertical edge reinforcement: 4 inches (100 mm) wide laminated to 1 inch (25 mm) thick along vertical edges

E. Partition panel Dimensions:
   1. Thickness: 1/2 inch (12 mm). Provide 1/4 inch (6 mm) radius on all edges.
   2. Height: 58 inch (1473 mm), unless indicated otherwise on Drawings.
   3. Depth: 60 inch (1473 mm), unless indicated otherwise on Drawings.
   4. Bottom edges of panels shall be 12 inches (300 mm) above finished floor unless indicated otherwise on Drawings
   5. Panel connection concealment trim: 3 inches (75 mm) wide x 1/2 inch (12 mm) thick material fully concealing panel connection hardware.

2.03 COMPONENTS

A. Solid Polymer Components: Cast, nonporous, filled polymer, not coated, laminated or of composite construction, with through-body colors meeting ANSI Z124.3 or ANSI Z124.6.
   1. Solid surface is defined as nonporous, homogeneous material maintaining the same composition throughout the part with a composition of acrylic polymer, aluminum trihydrate filler and pigment.
   2. Superficial damage to a depth of 0.010 inch (0.25 mm) shall be repairable by sanding and/or polishing.

B. Components shall have Class A surface burning characteristics, determined by testing identical products per ASTM E 84, with Flame Spread Index of 25 or less, and Smoke Developed Index of 450 or less.

2.04 PARTITION HARDWARE

A. All hardware reference numbers are Jacknob unless identified otherwise.
   1. Attachments, Screws, and Bolts: Stainless steel, type 304. Tamper-proof for all visible fasteners.
      a. For attaching panels and pilasters to brackets: Through-bolts and nuts.
   2. Hinges:
      a. LB 1002-400 by Bommer Industries, Inc.
      b. Self-closing adjustable to hold doors open at any angle up to 90 degrees.
      c. Hinge quantity: Min 3 hinges per compartment door.
      d. Furnish with back-up plate and tamper-resistant, stainless steel fasteners
   3. Latch and keeper:
      a. Surface-mounted latch unit designed for emergency access and with combination rubber-faced door strike and keeper.
      b. Provide units that comply with accessibility requirements of authorities having jurisdiction at compartments indicated to be accessible to people with disabilities.
   4. In-swing door hardware:
      a. Door latch assembly: Jacknob No. 6409 latch with No. 6539 keeper, surface-mount, stamped stainless steel with brush finish.
      b. In-swing door coat hook/bumper: Jacknob No. 4003 surface-mount, cast stainless steel with brush finish and black rubber tip for door stop. Mount unit for inswinging partition doors on inside face of door, at height indicated on Drawings.
   5. Out-swing door hardware:
a. Door latch assembly: Jacknob No. 6309 latch with No. 6569 strike and No. 6539 keeper, surface-mount, stamped stainless steel with brush finish.
b. Out-swing door coat hook - combination bumper: Jacknob No. 4003 surface-mount, cast stainless steel with brush finish and black rubber tip. Mount on sidewall partitions (not doors), at height indicated on Drawings.
c. Out-swing door stop: Jacknob No. 4123 surface, cast stainless steel with black rubber tip, and brush finish. Install on outside of door 6 in. from latch side, at height indicated on Drawings.
d. Out-swing door pull: Custom Solid Surface formed handle per Disney standards as indicated on Drawings. Provide units on both sides of doors at compartments indicated to be accessible to people with disabilities. Install back-to-back with through-bolt studs and barrel nuts.

6. Coat hook with rubber bumper; one per compartment, mounted on panel; Product: 4003 manufactured by Jacknob Corp.: www.jacknob.com.

B. Pilaster anchoring devices: Stainless steel fasteners and accessories, with leveling adjustment, concealed after installation by in-place pilaster shoe.

C. Panel brackets: Single-ear (to inside face of panels), double-leg (to walls and pilasters) design of stamped stainless steel with brush finish, Jacknob No. 1209 Inside Bracket. Provide not less than three brackets at each panel-to-wall or pilaster condition, where grab bars or intersecting panels or pilasters occur on panels. Provide not less than two brackets at other locations. Provide additional brackets at all conditions necessary to maintain rigidity, stiffness, and support of "large" panels (e.g., at accessible compartments) or panels with more-than-normal weight or loading conditions.

D. Attachment fasteners/anchors: Equivalent to Jacknob stainless steel shoulder screws with one-way barrel nuts (with tamper-resistant heads) for through-bolting at compartments, and types as appropriate for wall conditions, as applicable.

1. Urinal screen anchoring devices: As indicated on Drawings

2.05 ACCESSORIES
A. Pilaster Shoes: Formed solid surface material, 3 inches (75 mm) high unless indicated otherwise on Drawings, concealing floor fastenings.

1. Provide adjustment for floor variations with screw jack through steel saddles integral with pilaster.

B. Head Rails: Hollow stainless steel, 1 x 1-1/2 inch (25 x 38 mm) size, with anti-grip profile and cast socket wall brackets.

C. Wall and Pilaster Brackets: Satin stainless steel.

D. Attachments, Screws, and Bolts: Stainless steel, tamper proof type.

1. For attaching panels and pilasters to brackets: Through-bolts and nuts; tamper proof.

E. Hardware: Satin stainless steel:

5. Coat hook with rubber bumper; one per compartment, mounted on panel.
6. Provide door pull for outswinging doors.
F. Joint adhesive:
   1. Manufacturer's standard one- or two-part adhesive kit to create inconspicuous, nonporous joints.

G. Sealant:
   1. Manufacturer's standard mildew-resistant, FDA-compliant, NSF 51-compliant (food zone - any type), UL-listed silicone sealant in colors matching components.

2.06 FABRICATION

A. Exposed surfaces and edges shall be smooth and free of fabrication marks or errors, including saw-cuts, patches, and other visually apparent defects.

B. Position and install face of solid surface material to face outwards towards open area of restrooms. Back side shall face inwards to compartments.

C. Shop Assembly: Fabricate components to greatest extent practical to sizes and shapes indicated, in accordance with accepted shop drawings and manufacturer's printed instructions and technical bulletins.
   1. Form joints between components using manufacturer's standard joint adhesive without conspicuous joints.
      a. Reinforce with strip of solid polymer material, 3 inches (75 mm) wide.
   2. Provide factory cutouts for plumbing fittings and accessories as required or as indicated on Drawings.
   3. Rout and finish component edges with clean, sharp returns. Rout cutouts, radii and contours to template; finish with smooth edges.
   4. Fabricate solid pilaster shoes and heads from solid polymer materials not less than 1/2 inch (12 mm) thick into single-piece unit 3 inches (75 mm) high with no visible seams and radiused exposed edges 1/4 inch (6 mm) minimum.

D. Thermoforming: Comply with manufacturer's technical data.
   1. Heat entire component. Material shall be uniform, between 275 and 325 degrees F (135 and 162 degrees C) during forming.
   2. Form pieces to shape prior to seaming and joining. Cut pieces to finished dimensions.
   3. Sand edges and remove nicks and scratches.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates and conditions, with fabricator present for compliance with requirements for installation tolerances, and other conditions affecting performance of work.

B. Examine areas scheduled to receive partitions for correct dimensions, plumbness of walls, and soundness of floor, wall, and ceiling surfaces (including adequacy and correct locations of support/backing) that affect installation of brackets and shoes.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

D. Verify correct spacing of and between plumbing fixtures.

E. Verify correct location of built-in framing, anchorage, and bracing.

3.02 INSTALLATION

A. Install partitions secure, rigid, plumb, and level in accordance with Contract Drawings, approved shop drawings and manufacturer's instructions.
   1. Form field joints using manufacturer's recommended adhesive, with joints inconspicuous in finished work.
      a. Exposed joints/seams shall not be allowed.
2. Reinforce field joints with solid surface strips extending a minimum of 1-1/2 inch (37 mm) on either side of the seam with the strip being the same thickness as the top. (Total 3 inch (75 mm) strip.)
3. Cut and finish component edges with clean, sharp returns.
4. Mortise hinges and backup hardware to depth equal to hinge thicknesses. Limit margins at hardware edges to 1/16 inch (1.6 mm).

B. Maintain 1/4 inch (6 mm) to maximum 3/4 inch (18 mm) space between wall and panels and between wall and end pilasters.
C. Rout radii and contours to template.
D. Extend all stall pilasters to floor and ceiling.
E. Attach panel brackets securely to walls using anchor devices.
1. Conceal panel connection and anchorage hardware with solid surface trim. Secure trim to panel using silicone adhesive only. Do not use solvent to secure trim over connection hardware.
F. Attach panels and pilasters to brackets.
1. Seal joint between pilaster, shoe, and anchorage surface using manufacturers recommended matching sealant
G. All mounting hardware shall be concealed after installation of panels.
H. Field touch-up of scratches or damaged finish will not be permitted. Replace damaged or scratched materials with new materials.
1. Carefully dress joints smooth, remove surface scratches, and clean entire surface.
2. Eliminate all evidence of drilling, cutting, and fitting in the exposed work.
I. Except as may be indicated otherwise on Drawings, align bottom edges of panels with bottom of doors at uniform height 12 inches (300 mm) above finish floor. Install panels using brackets and secure with appropriate fasteners.
J. Mount door bumper for inswinging partition doors on sidewall partition (not door).

3.03 TOLERANCES
A. Maximum Variation From True Position: 1/4 inch (6 mm).
B. Maximum Variation From Plumb: 1/8 inch (3 mm).

3.04 ADJUSTING
A. Adjust and align hardware to uniform clearance at vertical edge of doors, not exceeding 3/16 inch (5 mm).
B. Adjust hinges to position doors in partial opening position when unlatched. Return out-swinging doors to closed position.
C. Adjust adjacent components for consistency of line or plane.

3.05 CLEANING
A. Clean exposed surfaces of partitions, hardware, fittings, and accessories.

3.06 PROTECTION
A. Maintain protective plastic sheeting during subsequent construction activities and remove immediately prior to final completion and acceptance by Owner.

END OF SECTION
SECTION 10 26 01
WALL AND CORNER GUARDS

PART 1 GENERAL
1.01 SECTION INCLUDES
A. Corner guards.

1.02 RELATED REQUIREMENTS
A. Section 06 10 00 - Rough Carpentry.
B. Section 09 22 16 - Non-Structural Metal Framing.

1.03 REFERENCE STANDARDS
A. General: Refer to most recent edition or edition adopted by authorities having jurisdiction, including all applicable amendments and supplements.

1.04 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Indicate physical dimensions, features, wall mounting brackets with mounted measurements, anchorage details, and rough-in measurements.
C. Samples: Submit two sections of corner guard, 12 inch (305 mm) long, illustrating component design, configuration, color and finish.
D. Manufacturer's Instructions: Indicate special procedures, perimeter conditions requiring special attention.

1.05 PROJECT CONDITIONS
A. Coordinate the work with wall or partition sections for installation of concealed blocking or anchor devices.

PART 2 PRODUCTS
2.01 COMPONENTS
A. Corner Guard - Surface Mounted: High impact vinyl/acrulic with extruded aluminum full height retainer and integral impact absorbing device.
   1. Surface Burning Characteristics: Provide assemblies with flame spread index of 25 or less and smoke developed index of 450 or less, when tested in accordance with ASTM E 84, unless noted otherwise.
   2. Size: 3/4 inches (19 mm), or as indicated on Drawings.
   3. Corner: Square, or as indicated on Drawings.
   5. Length: One piece - 48 inches (1219 mm).
B. Coordinate with related sections for supply of blocking for the Work of this section.

2.02 FABRICATION
A. Fabricate components with tight joints, corners and seams.
B. Pre-drill holes for attachment.
C. Form end trim closure by capping and finishing smooth.
PART 3 EXECUTION

3.01 EXAMINATION
   A. Verify that rough openings, concealed blocking, and anchors are correctly sized and located.
   B. Verify that field measurements are as indicated on Drawings, accepted submittals, and in accordance with governing Codes.

3.02 INSTALLATION
   A. Install components in accordance with manufacturer's instructions, level and plumb, secured rigidly in position to wall framing members only.
   B. Position corner guard 4 inches (102 mm) above finished floor to 48 inches (1219 mm) high, or as indicated on Drawings.

3.03 TOLERANCES
   A. Maximum Variation From Required Height: 1/4 inch (6 mm).
   B. Maximum Variation From Level or Plane For Visible Length: 1/4 inch (6 mm).

END OF SECTION
PART 1 GENERAL

1.01 SECTION INCLUDES
A. Accessories for toilet rooms, showers, and utility rooms.
B. Electrically operated paper towel dispensers.
C. Grab bars.
D. Custom fabricated accessories.

1.02 RELATED REQUIREMENTS
A. Section 07 90 05 - JOINT SEALERS
B. Section 09 30 00 - Tiling.
C. Section 09 22 16 - NON-STRUCTURAL METAL FRAMING
D. Section 10 21 13.19 - SOLID SURFACE TOILET COMPARTMENTS.
E. Section 12 36 23 - SOLID POLYMER FABRICATIONS; Self-draining lavatory countertops, shower wall panels, and including backsplashes and endsplashes.
F. Division 23 - Heating, Ventilating and Air Conditioning (HVAC)
G. Section 22 40 00 - Plumbing Fixtures.

1.03 REFERENCE STANDARDS
A. General: Refer to most recent edition or edition adopted by authorities having jurisdiction, including all applicable amendments and supplements.
B. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design.
F. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.

1.04 ADMINISTRATIVE REQUIREMENTS
A. Coordinate the Work with the placement of internal wall reinforcement, concealed ceiling supports, and reinforcement of toilet partitions to receive anchor attachments.

1.05 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide Manufacturer's detailed catalog cuts and data sheets on accessories describing size, finish, details of function, attachment methods, and a complete parts list.
C. Samples: Submit one sample of each accessory, illustrating color and finish. Approved samples may be used in the work.
D. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention.
E. Maintenance Data: Provide Manufacturer's maintenance data, operating instructions, and keys required for each type of equipment and lock.

1.06 PRODUCT HANDLING
A. Procedures: In accordance with 01 66 00 - Product Storage and Handling Procedures.
B. Maintain protective coverings on all items until installation has been completed.

1.07 WARRANTY
A. Warrant plate glass mirrors against silver spoilage for 15 years from Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS
A. Basis of Design: As scheduled on Drawings.

2.02 MATERIALS
A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with stainless steel anchors and fittings, steel anchor plates, adapters, and stainless steel anchor components for installation.
1. Grind welded joints smooth and finish to match adjacent surface.
2. Fabricate units made of metal sheet of seamless sheets, with flat surfaces.
3. Eliminate exposed cutting edges.
B. Keys: Provide four keys for each accessory in accordance with Owner's requirements.
1. Coin-operated dispensing units: Key coin boxes separately from dispensing unit.
2. Accessories from the same manufacturer shall be keyed alike.
C. Stainless Steel Sheet: ASTM A666, Type 304.
D. Stainless Steel Tubing: ASTM A269/A269M, Type 304 or 316.
E. Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.
F. Sealant: Mildew-Resistant Silicone Sealant- ASTM C920, Grade NS, Uses A and O; single component, mildew resistant; not expected to withstand continuous water immersion or traffic.
1. Color: White
2. Product:
   a. Dow Corning Corp; 786 Mildew Resistant Silicone Sealant.
   c. Pecora Corporation; 898NST Sanitary Silicone Sealant
   d. BASF Construction Chemicals-Building Systems; Masterseal NP 100.
   e. Tremco, Inc.; Tremsil 200
   f. Sika Corporation; Sikasil GP
G. Fasteners, Screws, and Bolts: Stainless steel; tamper-proof.
H. Expansion Shields: Fiber, or rubber as recommended by accessory manufacturer for component and substrate.

2.03 FINISHES
A. Stainless Steel: No. 4 Brushed finish, unless otherwise noted.
B. Galvanizing for Concealed Mounting Devices: Comply with ASTM A 123/A 123M; galvanize ferrous metal and fastening devices.

C. Shop Primed Ferrous Metals: Pretreat and clean, spray apply one coat primer and bake. Back paint components where contact is made with building finishes to prevent electrolysis.

2.04 TOILET ROOM ACCESSORIES

A. Toilet Paper Dispenser - Item 07: Single roll, surface-mounted, stainless steel unit with pivot hinge.

B. Toilet Paper Dispenser in Accessible Locations - Item 06: Double roll, surface-mounted, stainless steel.
   1. Product:
      a. Bradley; 5241-50
      b. Spindle:
         1) Bradley; P10-550

C. Paper Towel Dispenser Item - 11: Electric, Surface mounted, sensor operated, roll paper type.
   1. Product: As scheduled.
   2. Cover: Stainless steel.
   5. Mounting: Surface mounted.

D. Waste Receptacle - Item 01: Wall-mounted, stainless steel, continuously welded and seam exposed surfaces.
   1. Liner: Removable, heavy-duty vinyl liner, attached at a minimum of 4 points with stainless steel grommets and hooks.
   2. Waste receptacle capacity: 12 gallon
   3. Product: As scheduled.

E. Soap Dispenser - Item 08: Liquid soap dispenser, wall-mounted, recessed, stainless steel cover, stainless steel receptacle and working parts. Refer to Drawings for specific locations.
   1. Minimum capacity: 40 ounces.

F. Soap Dish Custom SSM - Item 09: Custom fabricated drip dish soap dish from solid surface material.
   2. Joint/Seam Adhesive: Bonding material recommended by solid surface material manufacturer.

G. Mirrors - Item 03: Frameless, 1/4 inch (6 mm) thick annealed float glass; ASTM C1036.
   1. Annealed Float Glass: Silvering, protective and physical characteristics in compliance with ASTM C1503.
   2. Size: As indicated on Drawings.

H. Mirrors - Item 02: Stainless steel framed, 1/4 inch (6 mm) thick annealed float glass; ASTM C1036.
   1. Annealed Float Glass: Silvering, protective and physical characteristics in compliance with ASTM C1503.
   2. Size: As indicated on Drawings.
   3. Frame: 0.05 inch (1.3 mm) angle shapes, with mitered and welded and ground corners, and tamperproof hanging system; No.4 finish unless indicated otherwise on Drawings.
4. Backing: Full-mirror sized, minimum 0.03 inch (0.8 mm) galvanized steel sheet and nonabsorptive filler material.

I. Seat Cover Dispensers - Item 14: Stainless steel, recessed.

J. Seat Cover Dispensers - Item 15: Stainless steel, surface mounted.

K. Sharps Container - Item 12: Surface mounted. Confirm specifications and required model numbers with Owner prior to purchase.

L. Grab Bars - Items 04 & 05: Stainless steel, nonslip grasping surface finish.
   1. Standard Duty Grab Bars:
      a. Push/Pull Point Load: 1,000 pounds, minimum.
      b. Dimensions: 1-1/2" outside diameter, minimum 0.05 inch (1.3 mm) wall thickness, concealed flange mounting, 1-1/2 inch (38 mm) clearance between wall and inside of grab bar.
      c. Length and Configuration: As indicated on drawings.

M. Combination Sanitary Napkin/Tampon Dispenser - Item 13: Stainless steel, recessed.
   1. Door: Seamless 0.05 inch (1.3 mm) door with returned edges. Door tumbler lock keyed alike with other accessories.
   2. Cabinet: Fully welded, 0.03 inch (0.8 mm) thick sheet.
   3. Operation: 25 cent coin required to operate dispenser. Provide locked coin box, separately keyed.
   4. Identify dispensers slots without using brand names.

N. Sanitary Napkin Disposal Unit at Facility Walls - Item 16: Stainless steel, recessed, self-closing door.

O. Sanitary Napkin Disposal Unit at Toilet Partitions - Item 17: Stainless steel, surface-mounted below the grab bar, self-closing door.

2.05 SHOWER ACCESSORIES

A. Shower Curtain Rod - Item 20: Provided as part of shower unit.

B. Shower Curtain - Item 20:
   1. Material: Opaque vinyl, 0.008 inch (0.2 mm) thick, matte finish, with antibacterial treatment, flameproof and stain-resistant.
   3. Size: 36 by 72 inches (914 by 1830 mm), hemmed edges.
   4. Grommets: Stainless steel; pierced through top hem on 6 inch (150 mm) centers.
   6. Shower curtain hooks: Chrome-plated or stainless steel spring wire designed for snap closure.

C. Robe Hook - Item 10: Heavy-duty stainless steel, single-prong, rectangular-shaped bracket and backplate for concealed attachment, satin finish.

D. Accessible Bench - Item 21: Solid wood butcher block seat with stainless steel "T" support legs. Provide with stainless steel anchors for attachment to floor.

2.06 UTILITY ROOM ACCESSORIES

A. Mop Rack - Item 18: 0.05 inch (1.3 mm) thick stainless steel, Type 304, hat-shaped channel.
   1. Holders: With spring-loaded rubber cam holders.
   2. Length: 24 inches (610 mm).

B. Utility Shelf - Item 19: 0.047 inch (1.2 mm) thick stainless steel, Type 304, 5 inch (125 mm) x 24 inch (610 mm).
PART 3 EXECUTION

3.01 EXAMINATION
A. Verify existing conditions before starting work. Check openings scheduled to receive recessed units for correct dimensions, plumbness of blocking, backing plates or frames, and preparation that would affect installation of accessories.
B. Verify exact location of accessories for installation.
C. For electrically-operated accessories, verify that electrical power connections are ready and in the correct locations.
D. Verify that field measurements are as indicated on drawings and instructed by the Manufacturer. Verify spacing of plumbing fixtures and toilet partitions that affect installation of accessories.
E. Do not begin installation of toilet accessories until openings and surfaces are acceptable.

3.02 PREPARATION
A. Deliver inserts and rough-in frames to site for timely installation.
B. Provide templates and rough-in measurements as required.

3.03 INSTALLATION
A. Install accessories in accordance with manufacturers’ instructions in locations indicated on the drawings.
B. Install plumb and level, securely and rigidly anchored to substrate.
C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.
D. Drill holes to correct size and application that is concealed by item, with 1/8 inch tolerance.
E. Mount recessed accessories into wall openings with sheet metal screws into metal frames.
F. Plumb, align, and mount surface-mounted accessories to backup with fasteners appropriate for fastening conditions.
G. Set accessories with continuous bead of sanitary sealant.
H. Mounting Heights and Locations: As required by accessibility regulations and as indicated on drawings.

3.04 ADJUST AND CLEAN
A. Adjust accessories for proper operation.
B. After completion of installation, clean and polish all exposed surfaces.
C. Remove protective covers at final cleaning of installation and immediately prior to acceptance by Owner.
D. Deliver keys and instruction sheets to Owner.

END OF SECTION
SECTION 10 44 00
FIRE PROTECTION SPECIALTIES

PART 1 GENERAL

1.01 SECTION INCLUDES
   A. Fire extinguishers.
   B. Fire extinguisher cabinets.
   C. Accessories.

1.02 RELATED REQUIREMENTS
   A. Section 09 91 23 - Interior Painting: Field paint finish.

1.03 REFERENCE STANDARDS
   A. General: Refer to most recent edition or edition adopted by authorities having jurisdiction, including all applicable amendments and supplements.
   B. NFPA 10 - Standard for Portable Fire Extinguishers.
   C. UL (DIR) - Online Certifications Directory.

1.04 PERFORMANCE REQUIREMENTS
   A. Conform to NFPA 10 and UFC Standard 10-1.
   B. Provide extinguishers classified and labeled by Underwriters Laboratories Inc. for the purpose specified and indicated.

1.05 SUBMITTALS
   A. See Section Division 1 - Administrative Requirements, for submittal procedures.
   B. Shop Drawings: Indicate locations of cabinets and cabinet physical dimensions.
   C. Product Data: Provide extinguisher operational features, color and finish, and anchorage details.
   D. Manufacturer's Installation Instructions: Indicate special criteria and wall opening coordination requirements.
   E. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
   F. Maintenance Data: Include test, refill or recharge schedules and re-certification requirements.

1.06 PRODUCT HANDLING
   A. Procedure: In accordance with Division 1.
   B. Wrap, crate, bundle, box, or otherwise package, handle transport, and store manufactured products as necessary to provide protection from damage by every cause, including transit to installation location.
   C. Store and protect materials and equipment:
      1. In accordance with manufacturer's instructions.
      2. Above grade on non-staining supporting materials, protected from weather and construction activities.
      3. Store Materials in enclosed areas protected from physical damage, humidity, and extreme temperature exposures.
   D. Remove from Project site materials or equipment in broken, damaged, rusted, deteriorated, unlabeled, or similar conditions unacceptable to Owner.
1.07 FIELD CONDITIONS
   A. Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients.

PART 2 PRODUCTS

2.01 MANUFACTURERS
      1. Size: 5 gallon (18 L) and 10 gallon (36 L).

2.02 FIRE EXTINGUISHERS
   A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.
      1. Provide extinguishers labeled by Underwriters Laboratories Inc. for the purpose specified and indicated.
   B. General: In accordance with UFC Standard 10-1.
   C. Types: The following item number correspond with item numbers indicated on Drawings.
      1. Item A5: 5 lb. multi-purpose dry chemical, Amerex Model B500.

2.03 FIRE EXTINGUISHER CABINETS
   A. Cabinet Construction: Non-fire rated.
      1. Formed primed steel sheet; 0.036 inch (0.9 mm) thick base metal.
   B. Cabinet and door: Cold-rolled steel with white epoxy or polyester coating, tempered glass door, and lever handle with cam latch, Potter-Roemer Alta Series or J.L. Industries Ambassador Series.

<table>
<thead>
<tr>
<th>FIRE EXTINGUISHERS</th>
<th>CABINETS</th>
<th>SEMI-RECESSED (SR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITEM A5 5 LB. MULTI-PURPOSE DRY CHEMICAL</td>
<td>OR P-R</td>
<td>7022-DV-VAR OR 1017V17-VAR</td>
</tr>
<tr>
<td>ITEM A10 10 LB. MULTI-PURPOSE DRY CHEMICAL</td>
<td>OR P-R</td>
<td>7028-DV-VAR OR 2018V17-VAR</td>
</tr>
</tbody>
</table>

SECTION 10 44 00
FIRE PROTECTION SPECIALTIES
2.04

A. Cabinet Configuration: Semi-recessed type.
   1. Size to accommodate accessories.
B. Door: 0.036 inch (0.9 mm) metal thickness, reinforced for flatness and rigidity with nylon catch.
   Hinge doors for 180 degree opening with two butt hinge.
C. Door Glazing: Tempered glass, clear, 1/8 inch (3 mm) thick, and set in resilient channel glazing gasket.
D. Cabinet Mounting Hardware: Appropriate to cabinet, with pre-drilled holes for placement of anchors.
E. Weld, fill, and grind components smooth.
F. Finish of Cabinet Exterior Trim and Door: No. 4 - Brushed stainless steel.
G. Finish of Cabinet Interior: White colored enamel.

2.05 ACCESSORIES

A. Manufacturer’s standard hook (SH) mounting bracket, finished to match fire extinguisher.
B. Extinguisher Brackets: Formed steel, chrome-plated.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.
B. Verify rough openings for cabinet are correctly sized and located. Do not proceed with work until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Install in accordance with manufacturer’s instructions.
B. Install cabinets plumb and level in wall openings, according to approved shop drawings and manufacturers directions.
C. Mounting heights:
   1. Place surface hook mounted fire extinguishers: 42 in. above finish floor to top of extinguisher.
   2. Install cabinets: 48 in above finish floor to top of cabinet.

3.03 ADJUST AND CLEAN

A. Cleaning: Immediately clean exposed surfaces of staining foreign materials. Do not use cleaning materials or processes which alter exposed finishes.
B. Adjust operating mechanisms.
C. Secure rigidly in place.
D. Place extinguishers in cabinets.

END OF SECTION
PART 1 GENERAL

1.01 SECTION INCLUDES
A. Polycarbonate lockers.

1.02 REFERENCE STANDARDS

1.03 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Manufacturer’s published data on locker construction, sizes and accessories.
C. Shop Drawings: Indicate locker plan layout, numbering plan and key codes.
D. Full Size Sample: Submit 2 full-size locker (12 by 15 inch (305 by 380 mm)) in size, of each color specified for evaluation of construction.

PART 2 PRODUCTS

2.01 MANUFACTURERS
A. Polycarbonate Lockers:
   1. Lockup w/ Funtion E locks; www.lockup.com.
   2. Substitutions: See Section 01 60 00 - PRODUCT REQUIREMENTS.

2.02 LOCKER APPLICATIONS
A. Personal Effects Lockers: Six tier Polycarbonate lockers, wall mounted with matching closed base.
   1. Width: 12 inches (300 mm).
   2. Depth: 15 inches (380 mm).
   3. Height: 78 inches (2 m).

2.03 POLYCARBONATE LOCKERS
A. Lockers: Factory assembled, made of polycarbonate panels, tested in accordance with NFPA 286, homogenous color throughout, with mortise and tenon joints with stainless steel fasteners or heat fused joints. Provide with 6 inch metal base/toe kick.
   1. Doors: Full overlay without frame.
   2. Door Color: To be selected by Architect.
B. Polycarbonate Panels: Polycarbonate plastic formed under high pressure into solid polycarbonate components.
   1. Surface Burning Characteristics: Flame spread index of 75 or less, and smoke developed index of 450 or less; when tested in accordance with ASTM E84.
C. Hinges: Full height of locker doors, manufacturer’s standard heavy duty type.
D. Locks: Locker manufacturer's standard electronic keypad type of style indicated above.

PART 3 EXECUTION

3.01 INSTALLATION
A. Install in accordance with manufacturer's instructions.
B. Install lockers plumb and square.
D. Install end panels, filler panels, and sloped tops.
E. Replace components that do not operate smoothly.

3.02 CLEANING
A. Clean locker interiors and exterior surfaces.

END OF SECTION