

## **SECTION 10 14 00 - SIGNAGE**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. This Section includes the following:
  - 1. Interior painted photo polymer panel signs.
  - 2. Interior vinyl diecut signs.
  - 3. Exterior handicapped parking signs and sign supports

#### **1.3 RELATED WORK**

- A. Related Work of Other Sections:
  - 1. Division 23 Section "Mechanical Identification" for labels, tags, and nameplates for mechanical equipment.
  - 2. Division 26 Sections for electrical service and connections for illuminated signs.
  - 3. Division 26 Section "Electrical Identification" for labels, tags, and nameplates for electrical equipment.
  - 4. Division 26 Section "Interior Lighting" for illuminated Exit signs.

#### **1.4 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."

#### **1.5 SUBMITTALS**

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Show fabrication and installation details for signs.
  - 1. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
  - 2. Provide message list, typestyles, graphic elements, including tactile characters and Braille, and layout for each sign.
  - 3. Wiring Diagrams: Power, signal, and control wiring.
- C. Samples for Initial Selection: Manufacturer's color charts consisting of actual units or sections of units showing the full range of colors available for the following:
  - 1. Acrylic sheet.

- D. Samples for Verification: For each of the following products and for the full range of color, texture, and sign material indicated, of sizes indicated:
  - 1. Panel Signs: Not less than 12 inches (305 mm) square including border.
  - 2. Accessories: Manufacturer's full-size unit.
- E. Sign Schedule: Use same designations indicated on Drawings.
- F. Qualification Data: For Installer and fabricator.
- G. Maintenance Data: For signs to include in maintenance manuals.

#### **1.6 QUALITY ASSURANCE**

- A. Installer Qualifications: An employer of workers trained and approved by manufacturer.
- B. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.
- C. Source Limitations for Signs: Obtain each sign type indicated from one source from a single manufacturer.
- D. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.

#### **1.7 PROJECT CONDITIONS**

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit installation of signs in exterior locations to be performed according to manufacturers' written instructions and warranty requirements.
- B. Field Measurements: Verify recess openings by field measurements before fabrication and indicate measurements on Shop Drawings.

#### **1.8 COORDINATION**

- A. Coordinate placement of anchorage devices with templates for installing signs.

### **PART 2 - PRODUCTS**

#### **2.1 MATERIALS**

- A. Cast Acrylic Sheet: Provide clear cast (not extruded or continuous cast) methacrylate plastic sheet with a minimum flexural strength of 16,000 psi, ASTM D 790, minimum allowable continuous service temperature of 180-degrees F (82-degrees C); in sizes and thicknesses indicated; "Plexiglas" by Rohm and Haas, Acrylite GP by Cyro Industries, or "Lucite L" by General Electric.
- B. Acrylic Sheet: ASTM D 4802, Category A-1 (cell-cast sheet), Type UVA (UV absorbing).

## 2.2 INTERIOR PANEL SIGNS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. ACE Sign Systems, Inc.
  2. Advance Corporation; Braille-Tac Division.
  3. Allen Industries Architectural Signage
  4. Allenite Signs; Allen Marking Products, Inc.
  5. APCO Graphics, Inc.
  6. ASI-Modulex, Inc.
  7. Best Sign Systems Inc.
  8. Bunting Graphics, Inc.
  9. Fossil Industries, Inc.
  10. Gemini Incorporated.
  11. Grimco, Inc.
  12. Innerface Sign Systems, Inc.
  13. InPro Corporation
  14. Matthews International Corporation; Bronze Division.
  15. Mills Manufacturing Company.
  16. Mohawk Sign Systems.
  17. Nelson-Harkins Industries.
  18. Seton Identification Products.
  19. Signature Signs, Incorporated.
  20. Supersine Company (The)
- B. Interior Panel Signs: Provide smooth sign panel surfaces constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch(1.5 mm) measured diagonally from corner to corner, complying with the following requirements:
1. Etched Photo Polymer Panel Signs: Provide photo polymer plaques with Helvetica Medium 5/8-inch high text, 4-inch high symbols and Grade 2 Braille, in sizes, arrangements and colors indicated. Provide panel signs with raised copy, pictorial symbols and Braille characters raised at least 1/32-inch above panel surface and complying with the requirements indicated and with the Americans with Disabilities Act of 1990, with amendments.
  2. Edge Condition: Square cut.
  3. Corner Condition: Round to radius indicated.
  4. Mounting: Unframed.
    - a. Wall mounted with two-face tape and adhesive.
  5. Color: As selected by Architect from manufacturer's full range.
  6. Tactile Characters: Characters and Grade 2 Braille raised 1/32 inch (0.8 mm) above surface with contrasting colors.

## 2.3 EXTERIOR HANDICAPPED PARKING SIGNS AND VAN ACCESSIBLE SIGNS

- A. Basis of Design Product and Manufacturer: Provide Best Sign Systems, Montrose, CO, (Tel) 800-235-2378, Model SS01 "Reserved Parking with Handicapped Symbol" sign, size 12" x 18", and Model SS52 "Van Accessible" sign, size 12" x 6", each fabricated from minimum 0.042" (1.0 mm) thick bonderized steel with white baked enamel background and silk screened blue

enamel with white symbol, or Bradley B-959 18 x 12 94175 with B-959 6 x 12 91387 distributed by Bauer Visual Graphics, Inc., Pasadena, TX (Tel) 713-473-5241, or equivalent approved. Provide complete with 2-3/8" OD x 10' long galvanized steel posts and brackets for mounting.

- B. Schedule: Refer to Drawings for sign types and locations required.

## **2.4 INTERIOR VINYL DIE-CUT FILM**

- A. Provide 1-inch high, upper case, Helvetica Medium vinyl die-cut letters fabricated from, opaque nonreflective vinyl film, 0.0035-inch minimum thickness, with pressure sensitive adhesive backing, suitable for exterior and interior applications as follows.
  - 1. Entrance Doors: "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS," in white letters, located as directed by Architect adjacent to each entrance door.
  - 2. Exit Doors: "KEEP PUSHING THIS DOOR WILL OPEN IN 20 SECONDS ALARM WILL SOUND," in maroon letters to match Architect's sample, located as directed by Architect on each exterior exit door other than entrance.

## **2.5 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. Adhesives and Tapes: Provide General Electric GE 1200 sealant, translucent SCS 1201 or equivalent translucent silicone sealant accepted by Architect. Provide 1/16-inch thick foam tape for temporary support of sign units.

## **2.6 FABRICATION**

- A. General: Provide manufacturer's standard signs of configurations indicated.
  - 1. Welded Connections: Comply with AWS standards for recommended practices in shop welding. Provide welds behind finished surfaces without distortion or discoloration of exposed side. Clean exposed welded surfaces of welding flux and dress exposed and contact surfaces.
  - 2. Mill joints to tight, hairline fit. Form joints exposed to weather to exclude water penetration.
  - 3. Preassemble signs in the shop to greatest extent possible. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in location not exposed to view after final assembly.
  - 4. Conceal fasteners if possible; otherwise, locate fasteners where they will be inconspicuous.

## **2.7 FINISHES, GENERAL**

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

## **2.8 ACRYLIC SHEET FINISHES**

- A. Colored Coatings for Acrylic Sheet: For copy and background colors, provide colored coatings, including inks, dyes, and paints, that are recommended by acrylic manufacturers for optimum adherence to acrylic surface and that are UV and water resistant for five years for application intended.

## **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 work.
- B. Verify that items, including anchor inserts are sized and located to accommodate signs.
- C. Examine supporting members to ensure that surfaces are at elevations indicated or required to comply with authorities having jurisdiction and are free from dirt and other deleterious matter.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.2 PREPARATION**

- A. Confirm that substrate finishes have been completed and cured sufficiently to receive sign materials.
- B. Confirm that substrates to receive signs are clean, free of deleterious substances that would detract from the neat appearance of high quality sign work, or that would interfere with the durable installation of sign work.
- C. Do not proceed with installation of sign work until unacceptable conditions have been corrected and substrates are ready to receive sign work.

### **3.3 INSTALLATION**

- A. Locate signs and accessories where indicated, using mounting methods of types described and complying with manufacturer's written instructions.
  - 1. Install signs level, plumb, and at heights indicated, with sign surfaces free of distortion and other defects in appearance.

2. Interior Wall Signs: Install signs on walls adjacent to latch side of door where applicable. Where not indicated or possible, such as double doors, install signs on nearest adjacent walls. Locate to allow approach within 3 inches (75 mm) of sign without encountering protruding objects or standing within swing of door.
- B. Wall- and Door-Mounted Signs: Comply with sign manufacturer's written instructions except where more stringent requirements apply.
1. Two-Face Tape: Mount signs to smooth, nonporous surfaces. Do not use this method for vinyl-covered or rough surfaces.
  2. Silicone-Adhesive Mounting: Attach signs to irregular, porous, or vinyl-covered surfaces.
  3. Signs Mounted on Glass: Provide matching opaque plate on opposite side of glass to conceal mounting materials.

### **3.4 CLEANING AND PROTECTION**

- A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner.

### **3.5 SIGN SCHEDULES**

- A. Refer to the Sign Schedule on the Drawings.

**END OF SECTION 10 14 00**