

**SECTION 10 14 00**  
**IDENTIFICATION SIGNS**

**PART 1 - GENERAL**

**1.01 SECTION INCLUDES**

- A. Plastic Signs, raised character, tactile, room identification, exit door signs, and non-tactile signs.

**1.02 REFERENCES**

- A. American Society for Testing and Materials (ASTM)
  - 1. ASTM D4802 - Poly (Methyl Methacrylate) Acrylic Plastic Sheet
- B. ADA – Americans with Disabilities Act of 1990 as amended.
  - 1. ADA/Standards – ADA Title II Regulations and the 2010 ADA Standards for Accessible Design.
- C. CBC - 2013 California Building Code (CBC).
  - 1. CBC 10 - Chapter 10, Egress Requirements
  - 2. CBC 11B– Chapter 11B, Accessibility for Public Buildings, Public Accommodations, Commercial Facilities and Publicly Funded Housing
- D. CFC – 2013 California Fire Code.
- E. California Code of Regulations (CCR)
  - 1. CCR 19-3 - Title 19, Chapter 3
- F. Fed.Stnd - Federal Standard
  - 1. Fed.Stnd 595C, Colors Used in Federal Procurement

**1.03 SUBMITTALS**

- A. Shop Drawings of each sign, indicating lettering styles and locations and overall dimensions.
- B. Three sample, full size, signs, of types, styles and colors specified including method of mounting. If accepted, samples may be installed in Project.
- C. Manufacturer's Installation Instructions
- D. Lettering Samples: 1-inch high, uppercase I, and O letters in each font specified, for required Quality Assurance testing.

#### 1.04 QUALITY ASSURANCE

##### A. Pre-Installation Conference

1. Notify Architect when signs are ready for installation. Arrange for conference at site. Do not proceed with installation until Architect's approval of specific locations and methods of attachment has been obtained.
2. Provide signs from one manufacturer, unless otherwise approved.

#### 1.05 DELIVERY, STORAGE AND HANDLING

- ##### A. Deliver products to site and protect from damage. Store until immediately prior to Notice of Completion.

### PART 2 - PRODUCTS

#### 2.01 REGULATORY REQUIREMENTS

##### A. Signage and Graphics:

1. Raised characters shall comply with CBC Section 11B-703.2
  - a. Depth: It shall be 1/32 inch minimum above their background and shall be sans serif uppercase and be duplicated in Braille.
  - b. Height: It shall be 5/8 inch minimum and 2 inches maximum based on the height of the uppercase letter "I". CBC Section 11B-703.2.5.
  - c. Finish and contrast: Characters and their background shall have a non-glare finish. Character shall contrast with their background with either light characters on a dark background or dark characters on a light background. CBC Section 11B-703.5.1
  - d. Proportions: It shall be selected from fonts where the width of the uppercase letter "O" is 60% minimum and 110% maximum of the height of the uppercase letter "I". Stroke thickness of the uppercase letter "I" shall be 15% maximum of the height of the character. CBC Section 11B-703.2.4 and 11B-703.2.6.
  - e. Character Spacing: Spacing between individual raised characters shall comply with CBC Section 11B-703.2.7 and 11B-703.2.8.
  - f. Format: Text shall be in a horizontal format. CBC Section 11B-703.2.9.
  - g. Braille: It shall be contracted (Grade 2) and shall comply with CBC Sections 11B-703.3 and 11B-703.4. Braille dots shall have a domed or rounded shape and shall comply with CBC Table and Figure 11B-703.3.1.
  - h. Mounting height: Tactile characters on signs shall be located 48" minimum to the baseline of the lowest Braille cells and 60" maximum to the baseline of the highest line of raised characters above the finish floor or ground surface. CBC Section and Figure 11B-703.3.4.1.
  - i. Mounting location: A tactile sign shall be located per CBC Section and Figure 11B-703.4.2 as follows:
    - 1) Alongside a single door at the latch side.
    - 2) On the inactive leaf at double doors with one active leaf.
    - 3) To the right of the right hand door at double doors with two active leaves.

- 4) On the nearest adjacent wall where there is no wall space at the latch side of a single door or at the right side of double doors with two active leaves.
  - 5) So that a clear floor space of 18" x 18" minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.
2. Visual characters shall comply with CBC Section 11B-703.5 and shall be 40" minimum above finish floor or ground.
  3. Pictograms shall comply with CBC Section 11B-703.6.
  4. Symbols of accessibility shall comply with CBC Section 11B-703.7.
  5. Variable message signs shall comply with CBC Section 11B-703.8.

## 2.02 MANUFACTURERS

- A. Products of following manufacturers form basis for design and quality intended.
  1. Apco Signs, Atlanta, GA.
  2. Mohawk Sign Systems, Inc., Schenectady, NY.
  3. Roemer Industries, Masury, OH.
  4. ASI Modulex, Inc., Dallas, TX.
  5. Vomar Products.
  6. Nelson-Harkins Industries, Inc.
  7. Mathews International Corporation
  8. Vista System
- B. Or approved equal in accordance with Division 01 General Requirements for substitutions.

## 2.03 PLASTIC SIGN MATERIALS

- A. Tactile Plastic Sign Materials: Thermosetting high pressure laminate.
- B. Non-Tactile Signs: Acrylic Plastic Sheet: ASTM D4802, Category A-1, 1/4 inch overall thickness, laminated acrylic plastic sheets.

## 2.04 SIGN FABRICATION - GENERAL

- A. Plastic Signs
  1. APCO IM System plaque signage system consisting of holder unit mounted to substrate, Model BH-66.
  2. Materials:
    - a. Holder:
      - 1) Material: Integrally colored injection molded high impact UV resistant, colorfast, plastic alloy with mounting system.
      - 2) Corners: Square Corners.
      - 3) Edge Detail: Bevel Edge.
    - b. Mounting: As recommended by manufacturer.
    - c. Size: 6" x 6"
    - d. Color: as selected by Architect.

- e. Finish: as selected by Architect.
- 3. Insert:
  - a. Non-Tactile signs: Integrally colored injection molded high impact plastic with computer generated photographic silkscreen process surface printing chemically bonded to self-aligning reveal insert material; insert corner same type as holder.
  - b. ADA Tactile Signs: 1/32" thickness computer generated photo-etched rubberized surface material chemically bonded to self-aligning reveal insert material; insert corner same type as holder; silkscreen colors surface applied.
- B. Fasteners: As recommended by manufacturer.
- C. Lettering Type Style: Helvetica Regular, uppercase letters only, refer to QUALITY ASSURANCE for letter-proportion compliance.
- D. Colors: As selected by Architect.

## 2.05 ROOM IDENTIFICATION SIGNS

- A. Room Identification Signs: raised character, tactile plastic signs in as selected by the Architect from the manufacturer's full range of available colors.
  - 1. ADA Tactile and Braille Signs: Thermosetting high pressure-laminate using Graphic Process Sand-Carved signs.
  - 2. Non-Tactile Signs: Acrylic Plastic Sheet: ASTM D4802, Category A-1.
- B. Size: 2-1/2 inches high, minimum, by 8 inches long, with 7/8 inch high, letters minimum 1/32 inch thick, minimum 3/32 inch thick for metal signs, fully tactile, with BRAILLE indicator.
  - 1. Provide one sign with up to 13 letters for each door.
  - 2. Provide one sign with up to 3 numerals for each door.

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Verify that surfaces are ready to receive Work.
- B. Beginning of installation means installer accepts existing surfaces.

### 3.02 INSTALLATION

- A. Install signs only after surfaces are finished, install at all rooms.
  - 1. At single-leaf doors, locate signs on wall adjacent to latch side of applicable door opening, centered horizontally within 18-inch space adjacent to latch side of door, 60 inches from finish floor to center line of sign. Mounting location shall be located so that a clear space of 18" minimum by minimum by 18" minimum,

centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position. CBC Section 11B-703.4.2.

- B. Mounting
  - 1. Tactile Plastic Signs: As recommended by manufacturer.
  - 2. Non-tactile Plastic Signs: As recommended by manufacturer.
- C. Clean and polish signs following manufacturer's instructions.

### 3.03 FIELD QUALITY CONTROL

- A. DSA Inspections: Signs and identifications or other information shall be field inspected after installation and approved by Division of the State Architect prior to the issuance of a final certificate of occupancy, or final approval where no certificate of occupancy is issued. The inspection shall include, but not limited to, verification that Braille dots and cells are properly spaced and the size, proportion and type of raised characters are in compliance with CBC, Section 11B-703.1.1.2.

### 3.04 SIGN TYPES AND SCHEDULE

- A. As indicated on Drawings.

**END OF SECTION**