

## **SECTION 10 1400**

### **SIGNAGE**

#### **PART 1 GENERAL**

##### **1.1 SUMMARY**

- A. Work of this Section includes but is not limited to the following:
  - 1. Interior statutory signage as required by local authorities having jurisdiction and as scheduled herein.
  - 2. Luminous egress path marking.
- B. Related Documents and Sections: Examine Contract Documents for requirements that directly affect or are affected by Work of this Section. Other Documents and Sections that directly relate to work of this Section include, but are not limited to:
  - 1. General provisions of the Contract, including General and Supplementary Conditions, and Division 01 General Requirements Specification Sections.
  - 2. Section 05 5000 - METAL FABRICATIONS.
  - 3. Section 09 2116 - GYPSUM BOARD ASSEMBLIES.
  - 4. Section 09 9100 - PAINTING.

##### **1.2 SUBMITTALS**

- A. Shop Drawings: Submit fabrication and assembly drawings indicating materials, piece quantities and dimensions, each piece surface finish, assembly configuration, erection sequence, piece numbering, specific attachments and attachment requirements.
  - 1. Signage schedule.
- B. Product Data:
  - 1. Manufacturer's product specifications, anchor details and installation instructions for products used in sign fabrication.
  - 2. Qualification data for firms and persons specified in "Quality Assurance" article to demonstrate their capabilities and experience. Include list of completed projects identifying project name, address, Designer and Owner.
  - 3. Include printed statement of VOC content for applicable products.
- C. Samples
  - 1. Typefaces: Submit photocopy of full typographic alphabets for each typeface as indicated on the drawing.
  - 2. Evacuation Signage: Two sets of 10.75" x 15" and two sets of 8.5" x 11" drawings.
  - 3. Artwork: Submit full size paper proofs for special graphics including arrows, symbols and logos.
  - 4. Materials and Finishes: Submit samples of each sign component material showing finishes, colors and surface textures.
  - 5. Sign Layouts: Submit layout to scale for each sign scheduled including exact text. In addition submit full size representative sign layouts for each sign type.
  - 6. Templates: Submit half-size paper spacing templates for each individual set of dimensional letters. Layouts shall display characters in solid form, not outline.
  - 7. Completed Product Samples: Upon approval of all material and finish samples, submit full-

size sample units of completed product for the following sign types. Samples will be retained by the Architect unless noted otherwise.

### 1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products, or 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.
- E. Pre-installation Meeting: Purpose is to review installation procedures and warranty requirements.

### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Inspect materials at delivery to assure that specified product have been received.
- B. Store products in manufacturer's original packaging, in a climate controlled environment away from direct sunlight, until ready for installation.
- C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local AHJ.

## PART 2 PRODUCTS

### 2.1 SIGNAGE – GENERAL

- A. Comply with applicable provisions of the ADAAG, ANSI A117.1, and State and local AHJ.
- B. 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.
- C. Tactile and Braille Sign: Manufacturer's standard process for producing text and symbols complying with ADA-ABA Accessibility Guidelines and with ICC/ANSI A117.1. Text shall be accompanied by Grade 2 Braille. Produce precisely formed characters with square-cut edges free from burrs and cut marks; Braille dots with domed or rounded shape.
- D. Use manufacturer's standard pictograms wherever applicable.
- E. Graphic Design:
  - 1. As selected by Architect

### 2.2 INTERIOR SIGNS

- A. Laminated Sheet: High-pressure engraved stock with contrasting color face laminated to acrylic core as selected by Architect from manufacturer's full range.
  - 1. Tactile Characters: Grade 2 Braille raised 1/32 inch above surface with contrasting colors.
  - 2. Colors: As selected by the Architect from manufacturer's full line of PMS and Scotchcal

colors.

## 2.3 LUMINOUS EGRESS PATH MARKINGS

### A. General: Furnish stair markers and guidance strips as indicated, with the following modification:

1. Photoluminescent strips shall recharge in 1 foot-candle environments.
2. Luminous egress path markings delineating the exit path must be provided in high-rise buildings as required by Section 1025 of the IBC.
3. Luminous egress path markings must comply with the requirements of authorities having jurisdiction.

### B. Photoluminescent Material Requirements:

1. Photoluminescent material shall absorb and storing energy from ambient light, and not require any external power supply.
2. Markings shall be non-toxic, non-radioactive, and free from vinyl and polyvinyl chloride compounds.
3. Markings shall be low-VOC high solid epoxy coatings.
4. UL approved for use in interior locations with fluorescent lighting.
5. Markings shall be listed to UL1994 and UL410.
6. Markings shall be tested to meet ASTM E2072 or E2073 luminance requirements.

## 2.4 MISCELLANEOUS PRODUCTS AND MATERIALS

### A. Adhesives:

1. Foam Tape: Double faced pressure sensitive foam tape, 3M Company, product in width and thickness as recommended by manufacturer for type of use, materials and fabrication; or accepted.

## 2.5 FABRICATION

### A. Graphic Components And Processes

1. All graphics, including text, symbols and arrows shall be executed in such as manner that all edges and corners are true and clean.
2. Type Sizes: As indicated on Drawings for particular units.
3. Typefaces: Work shall precisely replicate the typefaces as indicated on Drawings.
4. Typographic Spacing: Match letter, word and line spacing as indicated on Drawings for all text configurations.
5. Symbols and Arrows: Match artwork as indicated on the Drawings.

## PART 3 EXECUTION

### 3.1 EXAMINATION

#### A. Carefully examine installation areas with Installer present, for compliance with requirements affecting Work performance.

1. Verification of Conditions: Verify that field measurements, surfaces, substrates, structural support, utility connections, tolerances, levelness, plumbness, humidity, moisture content level, cleanliness and other conditions are as required by the manufacturer, and ready to receive Work.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Prepare substrate(s) in accordance with manufacturer's instructions, which may include the following:
  - 1. Remove coating to allow for proper bonding.
  - 2. Texture surface to allow for proper bonding.
  - 3. Clean surfaces.
  - 4. Coat substrate when necessary to protect from galvanic action, separating dissimilar metal materials.
  - 5. Framing, blocking or other necessary structural reinforcement.

### 3.3 INSTALLATION

- A. Install in strict accordance with applicable accessibility code and law, the approved shop drawings, and manufacturer's written instructions and recommendations.
- B. Foam Tape Mounting: Use 3M product as specified for mounting signs to smooth, non porous surfaces as indicated on the Drawings. Do not use this method for vinyl-covered or rough surfaces. Position tape at back of sign for optimum performance and hidden from view.

**END OF SECTION**