

SECTION 10990 – MISCELLANEOUS SPECIALTIES

PART 1 – GENERAL

1.01 RELATED SECTIONS

The General Provisions of the contract, including the General Provisions for Construction Projects (2016), Special Provisions, and General Requirements of the Specifications, apply to the work specified in this section.

1.02 SUMMARY

Provide all labor, materials, equipment, tools, etc. for installation of miscellaneous specialties as indicated on the drawings and/or specified herein.

1.03 GENERAL REQUIREMENTS

Provide all items of building specialties as shown on the drawings, including, but not limited to, the following:

- A. Room signs.

1.04 SUBMITTALS

- A. Manufacturer's Data: Submit manufacturer's descriptive literature and specifications to the Contracting Officer for approval.
- B. Submit six (6) sets of signage schedule, including locations, mounting heights and details, and scaled layout drawings including overall sign dimensions.

1.05 QUALITY ASSURANCE

- A. Single-Source Responsibility: For each separate type of sign required, obtain signs from one source from a single manufacturer.

1.06 ACCESSIBILITY COMPLIANCE

- A. The Americans with Disabilities Act Accessibility Guidelines (ADAAG). Signage shall comply with ADAAG Section 4.1.3(16) and Section 4.1.2(7) for mounting heights, finish, Braille characters and type of characteristics. See DCAB Interpretive Opinions for further clarification.

1.07 PROJECT CONDITIONS

- A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication to ensure proper fitting. Show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. General Requirements: Character proportion, color contrast, dimension, depth, and heights of symbols, Grade II Braille, and letters, location, and mounting heights shall be in accordance with the requirements noted in the Americans with Disabilities Act Accessibility Guidelines (ADAAG) Section 4.1.3(16), Section 4.1.2(7), and Section 4.30.1 and HRS 103.50.
- B. Anchors and Inserts: Use nonferrous metal or hot-dipped galvanized anchors and inserts for installations 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.

2.02 ROOM SIGNS

Room name signs shall be fiberglass, non-corrosive, 3-ply laminate, approximately 3/16" to 1/4" thick with raised, smooth finish letters, characters and braille without borders. Letters, characters and braille shall be raised a minimum 1/32" above the surface of the plate. Background to be weatherproof enamel baked-on with crackled or other acceptable finish, or, non-glare, fiberglass core color. Each sign shall be secured to wall on the latch side of the door as indicated on drawings or as directed by the Contracting Officer. Signs shall be fastened with one-way, tamper-proof, non-corrosive fasteners. Duplicate backer signs with shields shall be provided as required to suit the mounting conditions. The lettering of signs shall be as directed in schedule shown on drawings. All room signage shall conform to the 2010 ADA Standards for Accessible Design, Section 703. Background and letter/character colors shall be contrasting. Colors shall be as selected by the Contracting Officer and coordinated with the school's colors.

- A. Raised Characters: Raised characters shall comply with ADAAG 703.2 and shall be duplicated in Braille complying with ADAAG 703.3. Raised characters shall be installed in accordance with ADAAG 703.4.
 - 1. Depth ADAAG 703.2.1: Raised characters shall be 1/32 inch (0.8 mm) above their background.
 - 2. Case ADAAG 703.2.2: Characters shall be upper case.

3. Style ADAAG 703.2.3: Characters shall be sans serif, Characters shall not be italic, oblique, script, highly decorative or other usual forms.
 4. Character Proportions ADAAG 703.2.4: Characters shall be selected from fonts where the width of the uppercase letter “O” is 55 percent and 110 percent maximum of the height of the uppercase “I”.
 5. Character Height ADAAG 703.2.5: Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase “I”.
 6. Stroke Thickness ADAAG 703.2.6: Stroke thickness of the uppercase letter “I” shall be 15 percent maximum of the height of the character.
 7. Character Spacing ADAAG 703.2.7: Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spaces between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.
 8. Line Spacing ADAAG 703.2.8: Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.
- B. Braille: Braille shall be contracted (Grade 2) and shall comply with ADAAG 703.3 and 703.4.
- C. Acceptable Manufacturers
1. Best Manufacturing Company
 2. Signs, Letter & Nameplates, Inc. (SL & N)
 3. Allen Marking Products, Inc.
 4. Brady Signs, Inc.
 5. Mohawk Sign Systems

2.03 INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) AND PICTOGRAM SIGNS

ISA signs and pictogram signs shall be the same type as room signs except that the ISA and pictogram portion of the signs shall be 6" x 6" with proportionate raised handicap symbol. Conform with 2010 ADA Standards for Accessible Design, Section 703.7.

2.04 FINISHES

- A. Colors and Surface Textures: For exposed sign material that requires selection of materials with integral or applied colors, surface textures or other characteristics related to appearance, provide color matches indicated, or if not indicate, as selected by the Contracting Officer from the manufacturer's standards.
- B. Metal Finishes: Comply with NAAMM "Metal Finishes Manual" for finish designations and applications recommendations.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. General:
 - 1. Installation of all signage shall be in strict accordance with manufacturer's printed instruction and approved shop drawings. Installation shall be accomplished by experienced mechanics and in a workmanlike manner.
 - 2. Locate sign units and accessories where indicated, using mounting methods of the type described and in compliance with the manufacturer's instructions.
 - 3. Install signs level, plumb and at the height indicated, with sign surfaces free from distortion or any other defects in appearance in accordance to 2010 Standards for Accessible Design, Section 703.4.
- B. Wall Mounted Panel Signs: Attach panel signs to wall surfaces using on-way, tamper-proof fasteners. Shields shall be provided as required to suit the mounting conditions. Double-stick tape adhesives shall not be used.

3.02 CLEANING AND PROTECTION

- A. At completion of the installation, clean soiled sign surfaces in accordance with the manufacturer's instructions. Protect units from damage until acceptance by the Contractor Officer. Remove all tools, equipment, debris and surplus materials.

PART 4 – MEASUREMENT AND PAYMENT

4.01 BASIS OF MEASUREMENT AND PAYMENT

- A. Work under this section will not be measured nor paid for separately, but shall be considered incidental to and included in the price bid for the various items of work in this project.

END OF SECTION