

SECTION 10431 - SIGNS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Post and panel Age-Appropriate and Playground signs.
 - 2. Play Equipment Signs

1.2 SUBMITTALS

- A. Product Data: For each product indicated.
- B. Shop Drawings: Include plans, elevations, sections of components, and installation details.
- C. Samples: For each material, finish, and color.
 - 1. Include a sample of graphic-image process.

1.3 WARRANTY

- A. Warranty Period: Minimum of one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Subject to compliance with requirements, provide the signs by Engraphix Architectural Signage, Inc., 132 Hanley Industrial Court, St. Louis, MO 63144. The Contractor is not restricted to any specific sign manufacturer. The sign manufactured must comply with drawings and specifications.
 - 1. Sign graphics, text layout and color shall be as shown on the drawings.

2.2 MATERIALS

- A. Aluminum Sheet and Plate: ASTM B 209, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with at least the strength and durability properties of alloy 5005-H15.
- B. Vinyl Film: Opaque, nonreflective vinyl film, 0.0035-inch minimum thickness, with pressure-sensitive adhesive backing, suitable for exterior applications.

- C. Colored Coatings for Plastic Sheet: Nonfading coatings, including inks and paints for copy and background colors. Use coatings that are recommended by manufacturers for optimum adherence to type of plastic used.
- D. Concrete for Postholes: Comply with requirements in Division 3 Section "Cast-in-Place Concrete."
- E. Hardware: Hot-dipped galvanized or stainless steel.

2.3 POSTS

- A. General: Fabricate posts to lengths required for mounting method indicated.
 - 1. Direct-Burial Method: Provide posts 36 inches longer than height of sign to permit direct embedment in concrete foundations.
 - 2. Steel Posts:
 - 1. Size: As indicated on the drawings.
 - 2. Color: As shown on the drawings.

2.4 SIGN PANELS

- A. Unframed Single-Sheet Panels: Provide unframed single-sheet sign panels with edges mechanically and smoothly finished.
 - 1. Panel Material: 0.125-inch- thick aluminum sheet.
 - 2. Panel Finish: Baked enamel.

2.5 TEXT

- A. Sign text shall read as shown on the drawings.

2.6 GRAPHICS

- A. Graphic Content and Style: Provide sign copy that complies with requirements indicated in Drawings for size, style, spacing, content, mounting height and location, material, finishes, and colors of signage.
- B. Surface-Applied, Die-Cut Vinyl Copy: Provide die-cut characters from nonreflective vinyl film with pressure-sensitive adhesive backing. Apply copy to exposed face of sign panel.

2.7 ALUMINUM FINISHES

- A. Baked-Enamel Finish: Cleaned with inhibited chemicals; acid-chromate-fluoride-phosphate conversion coating; thermosetting, modified-acrylic enamel primer/topcoat system complying with AAMA 2603, medium gloss.

1. Color: As selected by Architect from manufacturer's full range.

2.8 ACCESSORIES

- A. Mounting Methods: Use fasteners fabricated from materials that are not corrosive to sign material and mounting surface.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Excavation: In firm, undisturbed or compacted soil, drill or (using a post-hole digger) hand-excavate holes for posts to diameters and spacing indicated.
 1. Excavate hole depths as indicated on the drawings.
- B. Setting Posts: Center and align posts in holes 3 inches above bottom of excavation, unless otherwise indicated. Place concrete and vibrate or tamp for consolidation. Check for alignment and hold in position until concrete has achieved its initial set.
- C. Install signs level, plumb, and at height indicated, with surfaces free from distortion.
- D. Use nonremovable mechanical fasteners placed through predrilled holes. Attach signs with fasteners and anchors suitable for secure attachment to substrate as recommended in writing by sign manufacturer.

END OF SECTION 10431