

ITEM 644

SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES

644.1. Description.

- **Installation.** Furnish, fabricate, and erect small roadside sign assemblies consisting of the signs, sign supports, foundations, and associated mounting hardware.
- **Relocation.** Relocate existing small roadside sign assemblies, and furnish and fabricate materials as required.
- **Removal.** Remove existing small roadside sign assemblies.

644.2. Materials. Furnish all materials unless otherwise shown on the plans. Furnish only new materials. Furnish and fabricate materials in accordance with the following Items and with details shown on the plans:

- Item 421, "Hydraulic Cement Concrete"
- Item 440, "Reinforcing Steel"
- Item 441, "Steel Structures"
- Item 442, "Metal for Structures"
- Item 445, "Galvanizing"
- Item 634, "Plywood Signs"
- Item 636, "Aluminum Signs"
- Item 643, "Sign Identification Decals"
- Item 656, "Foundations for Traffic Control Devices."

Use galvanized steel, stainless steel, dichromate sealed aluminum, or other materials shown on the plans for pipe, bolts, nuts, washers, lock washers, screws, and other sign assembly hardware. When dissimilar metals are used, select or insulate the metals to prevent corrosion.

644.3. Construction. Install foundations in accordance with Item 656, "Foundations for Traffic Control Devices." Plumb sign supports. Do not spring or rake posts to secure proper alignment. Use established safety practices when working near underground or overhead utilities. Consult the appropriate utility company before beginning work.

A. Fabrication. Fabricate sign supports in accordance with Item 441, "Steel Structures." Ensure that all components fit properly.

Verify the length of each post for each sign before fabrication to meet field conditions and sign-mounting heights shown on the plans.

Galvanize fabricated parts in accordance with Item 445, "Galvanizing." Punch or drill any holes in steel parts or members before the parts or members are galvanized.

Repair any steel part or member on which the galvanizing has been damaged during assembly, transit, erection, or welding in accordance with Section 445.3.D, "Repairs."

B. Installation. Locate sign supports as shown on the plans, unless directed to shift the sign supports within design guidelines to secure a more desirable location or to avoid conflict with utilities and underground appurtenances. Stake sign-support locations for verification by the Engineer.

Install stub posts of the type, spacing, orientation, and projection shown on the plans. Remove and replace posts damaged during installation at the Contractor's expense.

Connect the upper post sections to the stub post sections as shown on the plans.

Torque connection bolts as shown on the plans.

Attach signs to support assemblies in accordance with the plans and pertinent Items.

C. Relocation. Unless otherwise shown on the plans, reuse the existing supports and shorten or lengthen them as required. Obtain approval before lengthening existing supports. Furnish and install new breakaway stub posts in new foundations for relocated signs. Erect the supports on the new breakaway stub posts, and attach the signs to the supports. Attach signs to support assemblies in accordance with the plans and pertinent Items. Remove existing foundations to be abandoned in accordance with Section 644.3.D, "Removal."

D. Removal. Remove existing concrete foundations that are to be abandoned to 2 ft. below finish grade. Backfill the remaining hole with material equal in composition and density to the surrounding area. Replace any surfacing with like material to equivalent condition.

E. Handling and Storage. Handle and store existing signs or portions of signs removed so that they are not damaged. Prevent any damage to the various sign assembly components. Replace any portion of the sign damaged by the Contractor designated for reuse or salvage, including messages removed.

Stockpile all removed sign components that will be reused or that become the property of the Department at designated locations. Accept ownership of unsalvageable materials, and dispose of them in accordance with federal, state, and local regulations.

F. Cleaning. After the sign has been installed, wash the entire sign with a biodegradable cleaning solution acceptable to the sheeting and screen ink manufacturers to remove dirt, grease, oil smears, streaks, finger marks, and other foreign materials.

644.4. Measurement. This Item will be measured as each small roadside assembly installed, removed, or relocated.

644.5. Payment. The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Install Small Roadside Sign Supports and Assemblies" of the type specified, "Relocate Small Roadside Sign Supports and Assemblies" of the type specified, or "Remove Small Roadside Sign Supports and Assemblies."

A. Installation. This price is full compensation for furnishing, fabricating, galvanizing, and erecting the supports; constructing foundations including concrete (when required); furnishing complete signs including sign connections and all hardware; attaching the signs to the supports; washing and cleaning the signs; and equipment, materials, labor, tools, and incidentals.

B. Relocation. This price is full compensation for furnishing and installing new breakaway stubs and new sign supports (when required); constructing foundations including concrete (when required); removing existing signs and related materials;

new signs (when required); modifying existing sign supports; reinstallation of signs and sign assemblies; preparing and cleaning; salvaging; disposal of unsalvageable material; hauling, excavating, backfilling, and surface placement; new hardware; and equipment, materials, labor, tools, and incidentals.

- C. Removal.** This price is full compensation for removing existing sign assemblies and related materials; salvaging; disposal of unsalvageable material; hauling, excavating, backfilling, and surface placement; and equipment, materials, labor, tools, and incidentals.