

ITEM 646

ROADSIDE TRAFFIC SIGN SUPPORTS

- 646.1 Description. This item shall govern for supports of steel pipe which are used for traffic signs normally erected to a minimum height of seven (7) feet from top of pavement edge to the bottom of the lowest sign on the support, in accordance with the "Texas Manual on Uniform Traffic Control Device" (TMUTCD). Placement of roadside traffic sign supports shall also provide appropriate lateral clearance to signs in accordance with the TMUTCD.
- 646.2 Materials. High visibility yellow coated galvanized pipe sign posts shall be as shown in Table I:

Table I

Outside Diameter:	2.375" (2 3/8")
Wall Thickness:	0.065"
Weight Per Foot:	1.604 lbs.
Nominal Pipe Size:	2"
Length:	10 or 11 feet, as specified
Holes:	12, 3/8-inch holes punched as <u>required</u>

Posts shall be welded steel tubing conforming to ASTM A513, manufactured from hot dipped galvanized steel sheeting, conforming to ASTM A525, or the tube may be hot dipped galvanized to obtain a zinc weight of 1.25 ounces per square foot of sheet.

Coating color shall be high visibility traffic yellow. Yellow coating shall be applied over the galvanized post to an average minimum dry mil thickness of 2.0. The tubing shall be properly cleaned and pre-treated to achieve the coating properties below as shown in Table II. Galvanizing shall be done after fabrication and punching or drilling of any holes.

Table II

Coating Properties

Damage Resistance:	Coating flexibility shall conform to ASTM D522, 1/8 - inch mandrel, with no cracking.
Corrosion Resistance:	Sale spray tested, scribed to meet ASTM B117, 500 hours, salt spray 1/8-inch creepage.
Humidity Cabinet:	Coating shall meet the requirements of ASTM D 1735, 500 hours - no blisters.
Weathering Resistance:	QUV weathering, 50% gloss at 60% after 500 hours.

There shall be no loss of fill in integrity of adhesion. Color retainage shall be with a minimum of chalking. There shall be no effect on the coating for the following substances:

- A. Gasoline
- B. Motor Oil
- C. Alcohol
- D. Thirty-percent Sodium Hydroxide
- E. Thirty-percent Hydrochloric Acid
- F. Thirty-percent Nitric Acid
- G. Thirty-percent Sulfuric Acid

646.3 Measurement and Payment. Roadside Traffic Sign Supports shall not be paid for directly, but shall be incidental to Item 624, titled "Aluminum Signs".

There are line code(s), description(s), and unit(s) for this item.

Note: This specification requires a drawing that shall be incorporated into the proposed standard construction drawings.

END OF ITEM 646