

**ITEM 0340400**

**SIGN POSTS AND SUPPORTS**

**DESCRIPTION**

This work shall consist of furnishing and installing sign posts and supports in the locations shown on the plans and as described herein and detailed in the drawings inclusive of all materials and labor required to complete the work.

**REFERENCED ITEMS**

None

**REQUIRED SUBMITTALS**

Shop Drawings:

Submit 5 copies of shop drawings for Sign posts and supports in accordance with the contract general requirements.

**MATERIALS**

Ironwork:

Support Posts: 2" O.D., Square 11 gauge steel tubing.

Sign Supports: 0.25" steel plate

Ball Caps: Cap model 5325, cast iron designed to fit over a 2" square post, as manufactured by Julius Blum & Co., Inc. Carlstadt, N.J. 1-800-526-6293

Securing Hardware: Stainless Steel screws to secure the sign plates & 1/4" stainless steel bolts and nuts to secure the post to the sleeve.

Ground Support: 1.75" O.D., Square, 11 gauge steel tubing.

Paint: Shall be as manufactured by the Tnemec Company, Inc., P.O. Box 411749, Kansas City, MO 64141 or approved equal.

- a. Shop Primer: 90-97 Tnemec-Zinc Aromatic Urethane, Zinc Rich primer; 2.5-3.5 mils DFT (Dry Film Thickness).
- b. Second Coat: Series 27 F.C. Typoxy Polyamid epoxy, 5 mils DFT (Dry Film Thickness)

- c. Third Coat: Provide Aliphatic Urethane 75 (semi-gloss), 2.0-5.0 mils DFT (Dry Film thickness)
- d. Color: The color shall be as noted on the drawings or as required by the engineer.

Concrete:

Provide concrete for foundation conforming to the requirements of Article M.03.01, Form 816 and shall be Class "A". The concrete shall not contain less than five nor more than seven percent entrained air at the time the concrete is placed.

**FABRICATION**

The sign posts and supports shall be shop fabricated according to the drawings with the support plate being welded to the post and the welds ground smooth and edges rounded to remove sharpness prior to priming and painting. The contractor shall verify with the manufacturer that the outside and inside post dimension sizes will allow the sign post to fit over the sleeve to the satisfaction of the engineer.

**SHOP PAINTING**

Shop paint metal work, except members or portions of members to be field welded.

Prepare the iron surface to SP6 Specifications, Commercial blast cleaning.

Remove oil, grease and similar contaminants.

Immediately after surface preparation, brush or spray on primer in accordance with manufacturer's instructions, and at a rate to provide uniform dry film thickness of 2.5 - 3.5 mils. Use painting methods which will result in full coverage of joints, corners, edges and exposed surfaces.

Apply one shop coat to fabricated metal items, except apply 2 coats of paint to surfaces inaccessible after assembly or erection.

**INSTALLATION**

Install the ground support as detailed & at a 45 degree angle to the curb. The top of the concrete footing shall be held 4" below finish grade to allow for installation of the modular concrete pavers over the top. Once the pavers have been set, install the finished sign over the ground support and secure with 2 stainless steel bolts and nuts as detailed.

**PROTECTION, ADJUSTMENT, AND CLEANING**

Protection: Protect finishes from damage during construction. Restore finishes damaged during installation and construction period so that no evidence remains of corrective work. Return items which cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units as required.

Adjustment: Touch-up painting of chips, scratches or abraded areas shall occur immediately to prevent rusting or further damage.

**METHOD OF MEASUREMENT**

Work under these items will be measured for payment by the actual number of Sign Posts and Supports, of the type specified, installed and accepted in place at each pole with necessary appurtenances.

**BASIS OF PAYMENT**

This work will be paid for at the contract unit price for each "SIGN POST AND SUPPORT", which price shall include all materials, tools, equipment, labor and work incidental thereto.

<b><u>PAY ITEM</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>PAY UNIT</u></b>
0340400	Sign Posts and Supports	EA