**Hardware Note:**

Provide 2 Hardened Steel washers, 2 Hex nuts and one Leveling nut for each bolt. At final position of post, all top and bottom nuts of anchor bolts shall be snug tightened against base plate.

**Gusset Plate Notes:**

Gusset plates shall be placed perpendicular to base plate and post face, and centered between anchor bolt holes. Gusset Plate Details are shown on SD 9.10 (3 of 5).

**Conduit Note:**

If the project plans do not callout for the installation of a conduit, 2½" x 5½" conduit shall be stubbed out 30" below grade. The stubbed conduit shall be perpendicular to traffic direction to the non-traffic side, be a minimum of 12" from edge of foundation cap, and be perpendicular to traffic direction to the non-traffic side.

**Grounding Note:**

A 25 feet long coil of No. 4 AWG bare copper grounding wire shall be installed in the post grounding screw in the hand hole. The grounding wire shall be installed before concrete is poured and shall be connected to the post grounding screw in the hand hole.

**Notes:**

All anchor bolts shall conform to ASTM F1554 Grade 55 Specifications. The upper 1½" and lower 6" shall be threaded. The upper 1½" shall be galvanized in accordance with the requirements of ASTM A153.

**Drilled Shaft Depth to Obtained Total Length of Shaft**

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<tr>
<th>ø</th>
<th>Length L</th>
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<tbody>
<tr>
<td>1</td>
<td>3 ½</td>
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<tr>
<td>2</td>
<td>6 ½</td>
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<tr>
<td>3</td>
<td>10</td>
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<td>4</td>
<td>14</td>
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**PAYMENT FOR CONDUIT AND GROUNDING WIRE IS INCLUDED IN PAY ITEM 8603254, 8605255, 6060256, AND 6060257 FOUNDATION FOR TUBULAR CANTELEVER SIGN STRUCTURE.**

**Drilled Shaft Details**

See Table B and Notes

**Notes:**

Compacted finished grade backfill or embankment shall be in place prior to erecting the post. ½" or ⅝" Spiral shall be cold drawn steel wire conforming to ASTM A335, except with tensile strength in 60,000 psi, ½" turns at top and bottom of spiral.

**GROUT NOTE:**

The grounding wire shall be installed on the outside of the conduit.

**Notes:**

Data on this drawing is based on uniform soils condition with unit weight = 110pcf, friction angle phi = 29 degrees, modulus of subgrade reaction k=50 psi/ft. Depth of design of the drilled shaft shall be revised by the Engineer of Record for weaker soils or rock embankment, and all revision shall be shown on the project plans.