TUBULAR CANTILEVER DATA FOR SIGN PANEL SUPPORT

<table>
<thead>
<tr>
<th>Frame Type</th>
<th>Max Height</th>
<th>Max Width</th>
<th>Nominal Pipe Dia</th>
<th>Post</th>
<th>Elbow</th>
<th>Mast Arm</th>
<th>Max Area Sq. Ft.</th>
<th>Max Depth</th>
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CANTILEVER SIGN STRUCTURE FOUNDATION

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<th>Measurement</th>
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<tr>
<td>6060113</td>
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GENERAL NOTES:


All tubular structural cantilever pipe shall be welded or seamless steel pipe and shall conform to ASTM Specification A53, Grade B, Type E or S.

All other structural steel shall conform to ASTM Specification A36 unless noted otherwise.

All bolts shall conform to AASHTO Specification F3125 or A257.

All bolts, nuts, and washers shall be galvanized in accordance with the requirements of A153. All other steel shall be galvanized after fabrication in accordance with A153.


Welding shall be continuous unless noted otherwise. All butt welds shall be full penetration using prequalified welding procedures that shall be tested by ultrasonic testing after fabrication. All butt welds shall be ground flush, full width.

All reinforcing steel shall conform to ASTM A615. All reinforcement shall be turned at Grade 60.

All bars and hooks shall meet the requirements of AASHTO 8th Edition (2017) Article 5.10.2. All bolt dimensions for reinforcing steel shall be out-of-bounds. All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise.

Dimensions shall not be scaled from drawings.

Drilled shaft elevation and top of drilled shaft shall be field verified by the contractor prior to fabrication of post.
Post 38" Dia

Note to Designer:
The information presented in this Standard Drawing has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

HARDWARE NOTE:
base plate be snug tightened against nuts of anchor bolts shall of post, all top and bottom nuts of anchor bolts shall be snug tightened against base plate.

DRILLED SHAFT DETAILS

See TABLE A

3"C lr

** Minimum Drilled Shaft Depth = 20'0

SECTION A-A

Anchor plate with double hex nuts

Gusset Plate Details are shown on SD 9.10 (3 of 5).

GUSSET PLATE NOTES:
Gusset plates shall be placed perpendicular to base plate and post face, and centered between anchor bolt holes.

CONDUIT NOTE:
All anchor bolts shall conform to ASTM A1554 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.

GROUNDING NOTES:
Drilled shaft shall be formed to 1'0 below ground surface. Top of drilled shaft concrete shall be class 'S' and shall be placed within undisturbed material or compacted embankment. Top of drilled shaft shall be formed to 1'0 below ground surface.

CONDUIT END NOTE:
The conduit ends shall be capped. The stubbed conduits shall be stubbed out 30" below grade. The stubbed conduits shall be mock up. The mock up shall be removed prior to erecting the post.

NOTE:
Grounding wire shall be installed on the outside of the conduit.

GROUT 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.

** Payment for conduits and grounding wire is included in pay items 6060254, 6060255, 6060256, and 6060257 Foundation for Tubular Cantilever Sign Structure.

TABLE A

<table>
<thead>
<tr>
<th>Type</th>
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<tbody>
<tr>
<td>1C</td>
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<td>6'0</td>
</tr>
<tr>
<td>2C</td>
<td>6&quot;</td>
<td>6'0</td>
</tr>
<tr>
<td>3C</td>
<td>6&quot;</td>
<td>6'0</td>
</tr>
<tr>
<td>4C</td>
<td>6&quot;</td>
<td>6'0</td>
</tr>
</tbody>
</table>

** See Grouting Notes

** See Grounding Notes

** See 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:
The project plans do not callout for the installation of a conduit, 2½" diameter non-metalic 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 the conduit ends shall be capped.

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

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

GROUT NOTE:
Space to be filled with non-shrink grout after tubular structure is permanently erected.