SINGLE POST MEDIAN BARRIER MOUNTED SIGN SUPPORT

NOTES:

DESIGN SPECIFICATIONS:

WIND SPEEDS:
See Index 11860, "Wind speeds by County" note.

GEOMETRY:
Maximum Sign Panel Height is 6'-0''.
Edges of Sign Panels must be a minimum of 2'-0'' clear from edge of adjacent Travel Way.

APPLICABILITY:
Work this Index in conjunction with Index No 11860.

SHOP DRAWINGS:
Shop drawings are not required.

PAYMENT:
Include payment for sign support in the cost of the single post sign assembly.

MATERIALS:
Sign Post: ASTM A53 Grade B, NPS Schedule 40 Steel Pipe, sized per Table 1. Maximum post length is 10'-0''.
Snap-In Pole Cap: Provide UV and weather-resistant glass-filled polyester cap.
Steel Plates: ASTM A572 Grade 50 or A709 Grade 50.
Welding: Weld in accordance with American Welding Society Structural Welding Code (Steel), ANSI/DWS D1.1 (current edition). Required weld material is E70XX. Nondestructive testing is not required.
Coatings: Hot dip galvanize all steel, including fasteners, in accordance with Section 962. Galvanize Weldment after fabrication.

INSTALLATION:
Placement: For installations on permanent Median Barriers, locate Sign Support a minimum of 5'-0'' away from open joints or transitions. For installations on Temporary Barriers, locate Sign Support at the midpoint along the length of a single segment. In all cases, shift locations as needed to avoid conflicts with reinforcement.

Bearing Surface: Surface of the railing must be structurally sound and free of cracks and spalls. Base plate must be flush with the concrete surface; grind any high spots to obtain a flat, smooth surface.

Saw Cut: For permanent installations only, saw cut a 4'' deep groove transversely across the top of railing at the centerline of base plate vent hole location.

Anchor Rods: Use ASTM F1554 Grade 36, fully threaded rods with A563 or A194 single self-locking hex nuts and F436 washers. Size anchor rods per Table 2.

Adhesive Bonding Material: Install anchor rods using Type HSHV Adhesive Bonding Material System in accordance with Specification Sections 416 & 937. For temporary sign support installations, the use of a metal detector specifically designed for locating steel in concrete is not required to locate existing reinforcement as stated within Specification Section 416-6. For temporary sign support installations, Specification Section 416-6 is not required. For permanent sign support installations, Specification Section 416-6 applies with the exception of the following: Perform field test on only one anchor per sign support location.

Removal of Signs: Cut anchor rods flush with top of railing and coat surface with Type F-1 epoxy. Minimum thickness of epoxy is 3/8'' extending 2'' beyond the location of steel.

Edge of Travel Way

W'' Saw cut
Groove in Barrier

Steel Sign Post & Base Plate Weldment

© Steel Sign Post & Base Plate Weldment

Sign Panel
See Index 11860

TABLE 1 - SIGN PANEL AND POST SIZING

<table>
<thead>
<tr>
<th>Wind Speed (MPH)</th>
<th>Max. Sign Area (SF)</th>
<th>Post Ø (NPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 &amp; 80 T/L Signs</td>
<td>&lt; 20</td>
<td>9/2</td>
</tr>
<tr>
<td>100 &amp; 130</td>
<td>13.5 &lt; Sign &lt; 20</td>
<td>13/2</td>
</tr>
<tr>
<td>150</td>
<td>13.5 &lt; Sign &lt; 20</td>
<td>13/2</td>
</tr>
</tbody>
</table>

(Adapted from Index 410 Standard "Full Wall" Median Barrier shown; others similar)
TABLE 2 - BASE PLATE TYPE AND ANCHOR ROD SIZING

<table>
<thead>
<tr>
<th>Index No.</th>
<th>Type/Application</th>
<th>Base Plate Type</th>
<th>Anchor Rod Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>410</td>
<td>Full Wall</td>
<td>B</td>
<td>1&quot;</td>
</tr>
<tr>
<td>410</td>
<td>Cantilever or L-Wall</td>
<td>A</td>
<td>1&quot;</td>
</tr>
<tr>
<td>420 &amp; 425</td>
<td>Traffic Railing is &amp; &amp; 4'-0&quot;</td>
<td>A</td>
<td>1&quot;</td>
</tr>
<tr>
<td>421</td>
<td>All Applications</td>
<td>A</td>
<td>1&quot;</td>
</tr>
<tr>
<td>All listed above &amp; Plus 414 &amp; 415</td>
<td>Temporary Signs</td>
<td>C ***</td>
<td>3/8&quot; ***</td>
</tr>
</tbody>
</table>

* See Table 1, Sheet 1.
** See Table 2, this Sheet.
*** Place anchor rods in a staggered or linear pattern as necessary to avoid reinforcing. Use a staggered pattern for all temporary barriers.