NOTES:
1. Work with Index 700-010.
2. Shop Drawings: Not required.
3. Materials:
   A. Steel Plate: ASTM A 36 or ASTM A709 Grade 36
   B. Steel Pipe (Support Post): ASTM A53 Grade B Schedule 40
   C. Galvanized U-Bolts, Nuts and Plate Washer
      a. U-Bolts: ASTM A499
      b. Hex Nuts: ASTM A 563 Lock Nuts
      c. Plate Washer: ASTM A 563 or ASTM A709 Grade 36 or 50
   D. Galvanized Anchor Bolts, Nuts and Washers:
      a. Anchor Rod: ASTM F 1554 Grade 55 Fully Threaded (for Adhesive Anchors)
      b. Anchor Rod: ASTM F 1554 Grade 50 Grade A Hex
      c. Nuts: ASTM A 325 Heavy Hex Locking
      d. Washers: ASTM F 1567
   E. Adhesive Anchor Bonding Material: Specification 937 Type IV Adhesive
   F. Weld Material: E70XX
   G. Snap-In Post Cap: UV and weather-resistant glass-filled polyester cap
4. Coating:
   A. U-Bolts, Threaded Rods, Nuts and Washers: ASTM F2329
   B. Other Steel: ASTM A132
5. Fabrication:
   A. Weld, Specification 460-6.6
   B. Hot Dip galvanize after fabrication
6. Construction:
   A. Locate Sign Support a minimum of 5 feet from an open joint or transition (sign stationing may be adjusted to accommodate this requirement)
   B. Anchor Bolts must be flush with top of Railing
   C. Anchors in Traffic Railings:
      a. Install Adhesive Anchors in accordance with Specification 446 except perform field testing on one anchor per sign support location
      b. Use模板和tie anchors as necessary to maintain correct placement of C-F-P Embedded Anchors
      c. Do not drill into existing reinforcing
   D. Temporary Signs on Permanent Traffic Railings, Same as Permanent except field testing of anchors is not required
   E. Temporary Signs on Temporary Railings/Barriers:
      a. Install Sign Supports at the midpoint along the length of a single segment
      b. Avoid drilling through existing reinforcement; use of metal detector not required.
      c. Field testing of anchors is not required
7. Removal of Temporary Signs on Permanent Traffic Railings:
   A. Cut anchor rods flush with the top of the railing
   B. Coat anchors with Type F-1 epoxy to prevent corrosion
      a. Exceed coating 2 inches beyond edge of cut anchor rods
      b. Epoxy coating 1/16"thick minimum
8. Payment:
   Include the cost of all materials and labor in the cost of the single post sign assembly.

**TABLE 1 - SIGN PANEL AND POST SIZING**

<table>
<thead>
<tr>
<th>Type</th>
<th>Max. Sign Area (SF)</th>
<th>Post (NPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temporary</td>
<td>≤ 135</td>
<td>≤ 20</td>
</tr>
<tr>
<td>Permanent</td>
<td>&gt; 135 ≤ Sign ≤ 20</td>
<td>&gt; 30</td>
</tr>
</tbody>
</table>

(Sign Panel (See Index 700-010)

ELEVATION
NOTES:
1. Place anchor rods in a staggered or linear pattern as necessary to avoid reinforcing.
2. Use a staggered pattern for all temporary barriers.

TABLE 2 - BASE PLATE TYPE AND ANCHOR ROD SIZING

<table>
<thead>
<tr>
<th>Index</th>
<th>Type/Application</th>
<th>Base Plate Type</th>
<th>Anchor Rod Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>521-001</td>
<td>Full Wall</td>
<td>A</td>
<td>1&quot;</td>
</tr>
<tr>
<td>521-002</td>
<td>Cantilever or L-Wall</td>
<td>C</td>
<td>3/4&quot;</td>
</tr>
</tbody>
</table>

Not applicable for all listed above plus 102-110 & 102-100.

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