NOTES:
1. Work with Index 700-010.
2. Shop Drawings: Not required.
3. Materials:
   A. Steel Plate: ASTM A36 or ASTM A709 Grade 36
   B. Steel Pipe (Support Post): ASTM A500 Schedule 40
   C. Galvanized U-Bolts, Nuts and Plate Washer
      a. U-Bolts, ASTM A499
      b. Hex Nuts, ASTM A 563 Grade A
      c. Plate Washer: ASTM A241 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 55 Grade A Hex
      c. Nuts: ASTM A193 Heavy Hex Locking
      d. Washers: ASTM F436
   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 Nuts, Nuts and Washers: ASTM F3329
   B. Other Steel: ASTM A325

5. Fabrication:
   A. Weld, Specification 460-6.4
   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 Rod to be installed flush with top of Railing
   C. Anchors in Traffic Railings:
      a. Install Adhesive Anchors in accordance with Specification 416 except perform field
         test on one anchor per sign support location
      b. Use template and tie anchors as necessary to maintain correct placement of C-L-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
   F. Anchors in Traffic Railings:
      a. Install Adhesive Anchors in accordance with Specification 416 except perform field
         test on one anchor per sign support location
      b. Use template and tie anchors as necessary to maintain correct placement of C-L-P
         Embedded Anchors
      c. Do not drill into existing reinforcing
   G. Temporary Signs on Permanent Traffic Railings, Same as Permanent except field
      testing of anchors is not required
   H. 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 I-1 epoxy to prevent corrosion
   C. Extend coating 2 inches beyond edge of cut anchor rods
   D. Epoxy coating 1/16" 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>Temporary Signs</th>
<th>Max. Sign Area (SF)</th>
<th>Post Ø (NPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>≤ 135</td>
<td>≤ 20</td>
</tr>
<tr>
<td>Permanent Signs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>135 &lt; Sign ≤ 200</td>
<td>30</td>
</tr>
</tbody>
</table>

(Plot 52-001 Median Barrier shown; others similar)
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>
<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>521-001</td>
<td>Full Wall</td>
<td>A</td>
<td>1&quot;</td>
</tr>
<tr>
<td>521-001</td>
<td>Cantilever or L-Wall</td>
<td>C</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>All listed above Plus 102-110 &amp; 102-100</td>
<td>Temporary Signs</td>
<td>C</td>
<td>3/4&quot;</td>
</tr>
</tbody>
</table>

**TABLE 2 - BASE PLATE TYPE AND ANCHOR ROD SIZING**

**BASE PLATE TYPE A**
(Linear Anchor Rod Pattern)

**BASE PLATE TYPE B**
(Staggered Anchor Rod Pattern)

**BASE PLATE TYPE C**
(Staggered Anchor Rod Pattern shown)