PLAN - OPTION B
SPREAD FOOTING ADJACENT TO SKewed APPROACH SLAB AND WITH BARRIER WALL INLET

(Option A Similar)

NOTES:

1. CONSTRUCTION REQUIREMENTS: Construct the Spread Footing level transversely and expansion joints plumb; do not construct the spread footing perpendicular to the roadway surface. Slab forming is not permitted.

2. CONCRETE: Use Class II concrete for slightly aggressive environments. Use Class IV concrete for moderately or extremely aggressive environments. Concrete will be in accordance with Specification Section 346.

3. REINFORCING STEEL: Provide Grade 60 reinforcing steel in accordance with Specification Section 931. Download Transfer Devices will be in accordance with ASTM A 36 smooth round bar and hot-dip galvanized in accordance with Specification Section 933. Install Download Transfer Devices in accordance with Specification Section 350.

4. Construct V-Groove Expansion Joints plumb and perpendicular or radiate to Gutter Line. Provide at 90° maximum intervals as shown.

5. Provide and Install Preformed Expansion Joint Filter in accordance with Specification Section 332.

6. Construct V-Grooves plumb and provide at 30° maximum intervals as shown. Space V-Grooves equally between Expansion Joints and/or begin and end V-Grooves to coincide with V-Groove locations in the Rolling/Sound Barrier.

7. FULL REQUIREMENTS: Shoulder or Roadway Pavement and Rills required on the traffic side of the spread footing for a distance of 4°-0" and the full length of the spread footing (3°-0" minimum depth) on the backside of the spread footing for Option A. Parts required for a distance of 4°-0" on the backside of the spread footing and the full length of the spread footing (3°-0" minimum depth) on the traffic side of the spread footing for Option B. See Typical Sections on Sheet Nos. 2 and 3 for details.

8. Spacing shown is along the Gutter Line.

9. Work this Standard Drawing with one or both of the following:
   a. Index No. 5210 — Traffic Railing/Screen Barrier (10'-0")
   b. Index No. 5211 — Traffic Railing/Screen Barrier (14'-0")

CROSS REFERENCE:
For Detail 2', see Sheet 3.
For Section A-4 and Estimated Quantities, see Sheet 4.
TYPICAL SECTION THRU SPREAD FOOTING – OPTION B
(Bars 5P, 5R and 5SI in Traffic Railing/Sound Barrier not shown for clarity)

NOTES:
1. Match Cross Slope of Travel Lane or Shoulder.
2. Place 10’-0” Bars 5B inside Bars 5U2 as shown.
3. Provide 3’-0” to when optional construction joint is used.
REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL

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<th>MARK</th>
<th>SIZE</th>
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<tbody>
<tr>
<td>B</td>
<td>5</td>
<td>45' (REO)</td>
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<tr>
<td>C</td>
<td>5</td>
<td>3'-6&quot;</td>
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<tr>
<td>S3</td>
<td>5</td>
<td>3'-10&quot;</td>
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<tr>
<td>S4</td>
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<td>T</td>
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<td>U2</td>
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<td>U3</td>
<td>5</td>
<td>12'-10&quot;</td>
</tr>
<tr>
<td>V</td>
<td>5</td>
<td>3'-10&quot;</td>
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DOWEL: 1" Ø Smooth Bar 2'-0"

SECTION A-A
TYPICAL SECTION THRU SPREAD FOOTING AND BARRIER WALL INLET - OPTION B
(Bars 5P, 5R and 5S) in Traffic Railing/Sound Barrier not shown for clarity

NOTES:
1. Place 10 ~ Bars 5B inside Bars 5U as shown.
2. For Reinforcing Steel spacing, see Typical Section Thru Spread Footing = Option B on Sheet 3.
3. Provide 3" sp when optional construction joint is used.

ESTIMATED L-SHAPED SPREAD FOOTING QUANTITIES

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<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
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<tr>
<td>Concrete (footing)</td>
<td>CY/FT</td>
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<tr>
<td>Reinforcing Steel (Typical)</td>
<td>LB/FT</td>
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<tr>
<td>Additional Rein. Expansion Joint</td>
<td>LB</td>
<td>48.06</td>
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(Cross Reference:
For location of Section A-A, see Sheet 1.)

REINFORCING STEEL NOTES:
1. All bars in the bending diagrams are cut to suit.
2. Keep clear of joints without a 2" minimum cover.
3. Lap splices for Bars 5B will be a minimum of 2'-2".
4. Lap splices for Bars 5T and 5V with 5U will be a minimum of 2'-2''.
5. The Contractor may use Welded Wire Fabric when approved by the Engineer. Welded Wire Fabric will conform to ASTM A-497.