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. Slip 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 slab in accordance with Specification Section 346.
3. REINFORCING STEEL: Provide Grade 60 reinforcing steel in accordance with Specification Section 932. Use smooth round bar and hot-dip galvanized in accordance with Specification Section 562. Install Dowel Load Transfer Devices in accordance with Specification Section 350.
4. Construct 1/2" Expansion Joints plumb and perpendicular or radii to Gutter Line. Provide at 30'-0" intervals as shown.
5. Provide and Install Preformed Expansion Joint Filler in accordance with Specification Section 932.
6. Construct 1/2" V-Grooves and provide at 30'-0" intervals as shown. Space 1/2" V-Grooves equally between Expansion Joints and/or Begin or End Spread Footing. V-Groove locations are to coincide with V-Groove locations in the Railing/Sound Barrier.
7. FILL REQUIREMENTS: Shoulder or Roadway pavement and Fills required on the traffic side of the spread footing for a distance of 4'-0" and the full length of the spread footing (13'-0") minimum depth on the backside of the spread footing for Option A. Fills required for a distance of 4'-0" on the backside of the spread footing and the full length of the spread footing (13'-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. 5220 - Traffic Railing/Sound Barrier (8'-0")
   b. Index No. 5221 - Traffic Railing/Sound Barrier (14'-0")

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

NOTES:
1. Match Cross Slope at Travel Lane or Shoulder.
2. Place 10 - Bars 5L inside Bars 5U as shown.
3. For Reinforcing Steel spacing, see Typical Section Thru Spread Footing - Option A this Sheet.
4. Provide 3" ip when optional construction joint is used.

TYPICAL SECTION THRU SPREAD FOOTING AND BARRIER WALL INLET - OPTION A
(Reinforcing Steel not shown for clarity (See Note 3))
TYPICAL SECTION THRU SPREAD FOOTING - OPTION B
(Bars 5P, 5R and 5S in Traffic Railing/Sound Barrier not shown for clarity)

NOTES:
1. Match Cross Slope of Travel Lane or Shoulder.
2. Place 10 in. Bars 5R inside Bars 5U as shown.
3. Provide 3 in. lip when optional construction joint is used.
**SECTION A-A**

**TYPICAL SECTION THRU SPREAD FOOTING AND BARRIER WALL INLET - OPTION B**
(Bars 5P, 5R and 5S1 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" top when optional construction joint is used.

**BILL OF REINFORCING STEEL**

<table>
<thead>
<tr>
<th>MARK</th>
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<th>LENGTH</th>
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<tr>
<td>B</td>
<td>5</td>
<td>45 SPEC.</td>
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<tr>
<td>C</td>
<td>5</td>
<td>5-6'</td>
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<tr>
<td>S1</td>
<td>5</td>
<td>5'-10&quot;</td>
</tr>
<tr>
<td>S4</td>
<td>5</td>
<td>4'-3&quot;</td>
</tr>
<tr>
<td>T</td>
<td>5</td>
<td>4'-5&quot;</td>
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<tr>
<td>U4</td>
<td>5</td>
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<td>5</td>
<td>13'-11&quot;</td>
</tr>
<tr>
<td>U3</td>
<td>5</td>
<td>12'-10&quot;</td>
</tr>
<tr>
<td>V</td>
<td>5</td>
<td>3'-10&quot;</td>
</tr>
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</table>

**REINFORCING STEEL NOTES:**
1. All bar dimensions in the bending diagrams are cut to size.
2. All reinforcing steel in the open joints will have a 2" minimum cover.
3. Lap splices for Bars 5B will have a minimum of 2'-2".
4. Lap splice Bars 5T and 5V with 5S1, will have 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.

**CONCRETE PAINTING:**
Gray - Top, Bottom, and Trench
Black - Bottom, and Trench

**ESTIMATED L-SHAPED SPREAD FOOTING QUANTITIES**

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<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
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<tr>
<td>Concrete (Poured)</td>
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<tr>
<td>Reinforcing Steel (Typical)</td>
<td>Lb/Pr</td>
<td>0.002</td>
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<tr>
<td>Additional Reinforcing Joint</td>
<td>Lb</td>
<td>48.06</td>
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(Subtract 12.69 lb/Pr from typical reinforcing steel quantity shown on Index No. 5210 to account for the absence of 5In Bar 5V and 5S1 in L-Shaped Spread Footings.)

**CROSS REFERENCE:**
For location of Section A-A, see Sheet 1.