

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 will be in accordance with Specification Section 346.
- 3. DOWELS: Dowel Load Transfer Devices will be ASTM A 36 smooth round bar and hot-dip galvanized in accordance with Specification Section 962. Install Dowel Load Transfer Devices in accordance with Specification Section 350.
- 4. Construct ¾" Expansion Joints plumb and perpendicular or radial to Gutter Line. Provide at 90'-0" maximum intervals as shown.
- 5. Provide and install Preformed Expansion Joint Filler in accordance with Specification Section 932.
- 6. Construct 1/2" V-Grooves plumb and provide at 30'-0" maximum intervals as shown. Space V-Grooves equally between 3/4" Expansion Joints and/or Begin or End Spread Footing. V-Groove locations are to coincide with V-Groove locations in the Railing/Noise Wall.
- 7. FILL REQUIREMENTS: Shoulder or Roadway Pavement and Fill is 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. Fill is 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/Noise Wall (8'-0").
 - b. Index No. 5211 Traffic Railing/Noise Wall (14'-0").

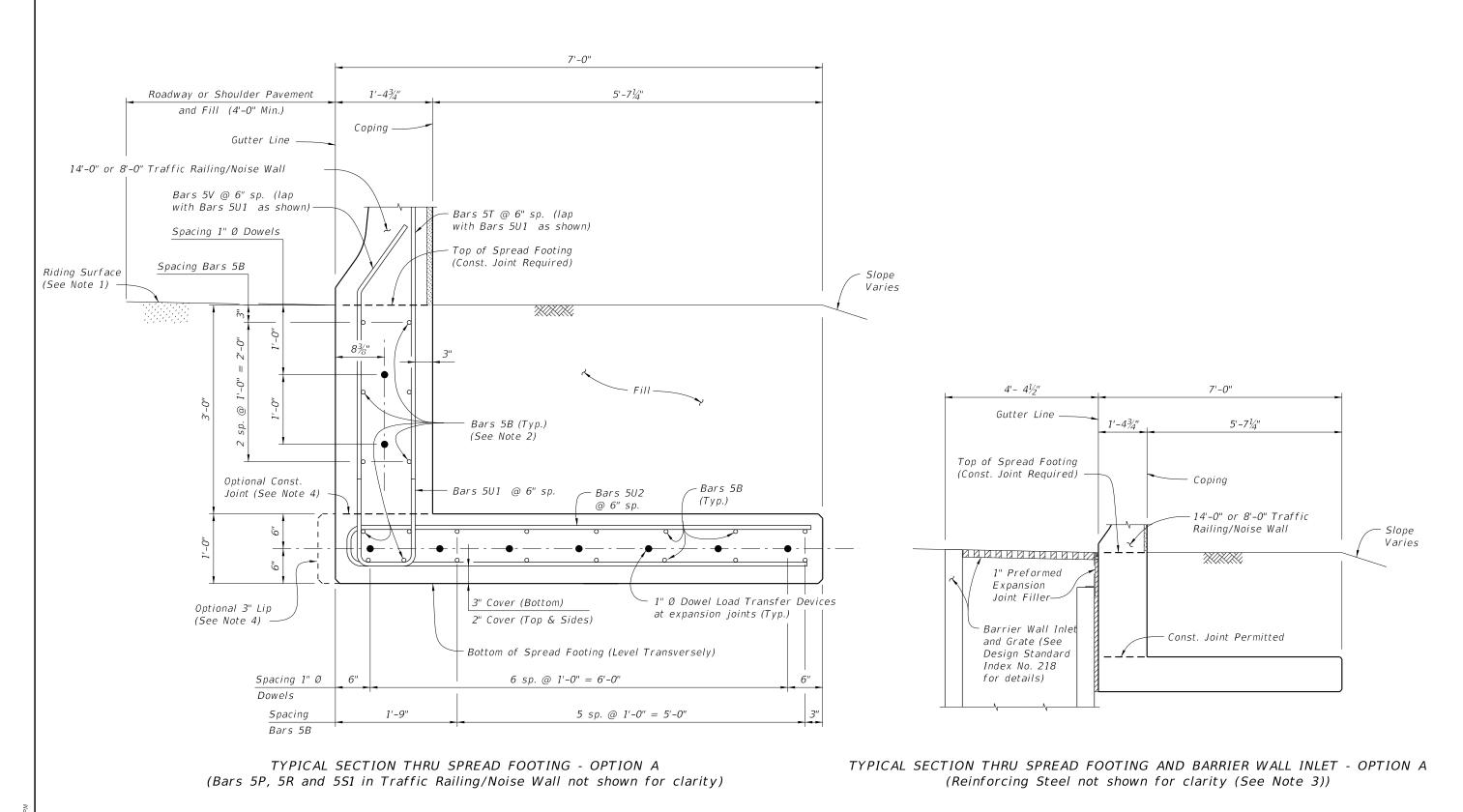
CROSS REFERENCE:

For Detail "A", see Sheet 3. For Section A-A and Estimated Quantities, see Sheet 4.

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DESCRIPTION:





NOTES:

- 1. Match Cross Slope of Travel Lane or Shoulder.
- 2. Place 10 ~ Bars 5B inside Bars 5U1 as shown.
- 3. For Reinforcing Steel spacing, see Typical Section Thru Spread Footing - Option A this Sheet.
- 4. Provide 3" lip when optional construction joint is used.

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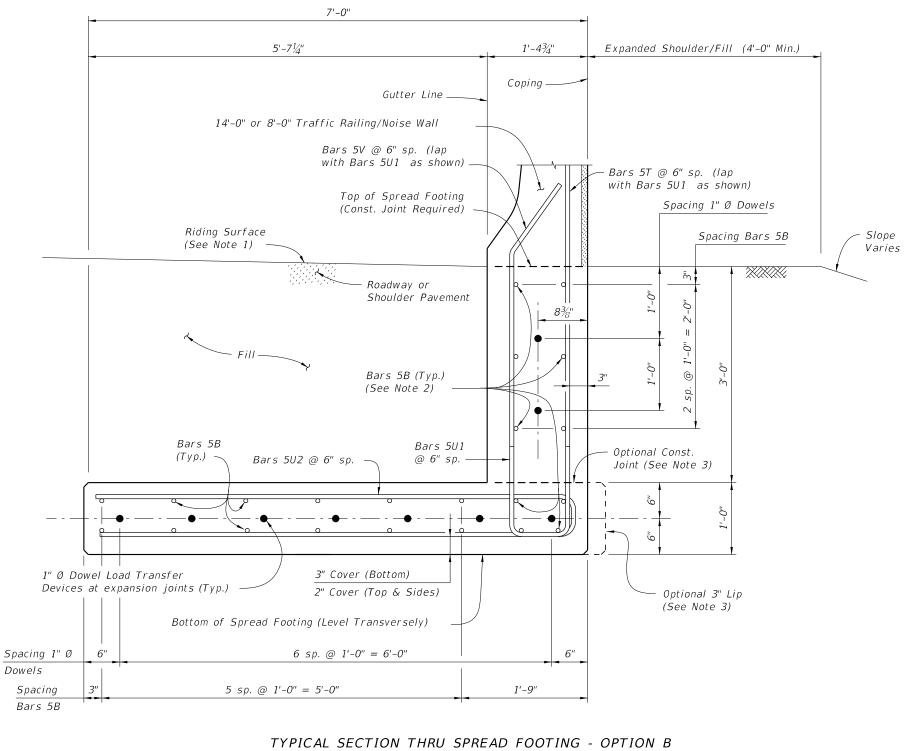
DESCRIPTION:

FY 2016-17 DESIGN STANDARDS

TRAFFIC RAILING/NOISE WALL L-SHAPED SPREAD FOOTING

INDEX NO. 5214

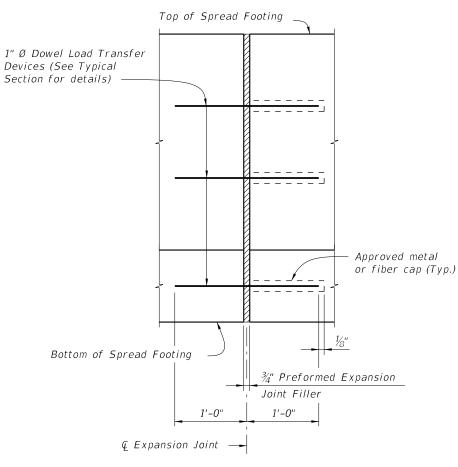
SHEET NO. 2 of 4



(Bars 5P, 5R and 5S1 in Traffic Railing/Noise Wall not shown for clarity)

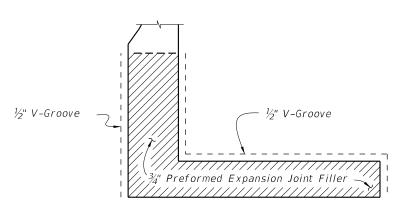
NOTES:

- 1. Match Cross Slope of Travel Lane or Shoulder.
- 2. Place 10 ~ Bars 5B inside Bars 5U1 as shown.
- 3. Provide 3" lip when optional construction joint is used.



EXPANSION JOINT DETAIL

(Spread Footing expansion joints are required at 3/4" open joints in Traffic Railing/Noise Wall)



DETAIL "A" (Option A Shown, Option B Similar)

(Showing Locations of $\frac{1}{2}$ " V-Grooves and 3/4" Preformed Expansion Joint Filler)

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DESCRIPTION:

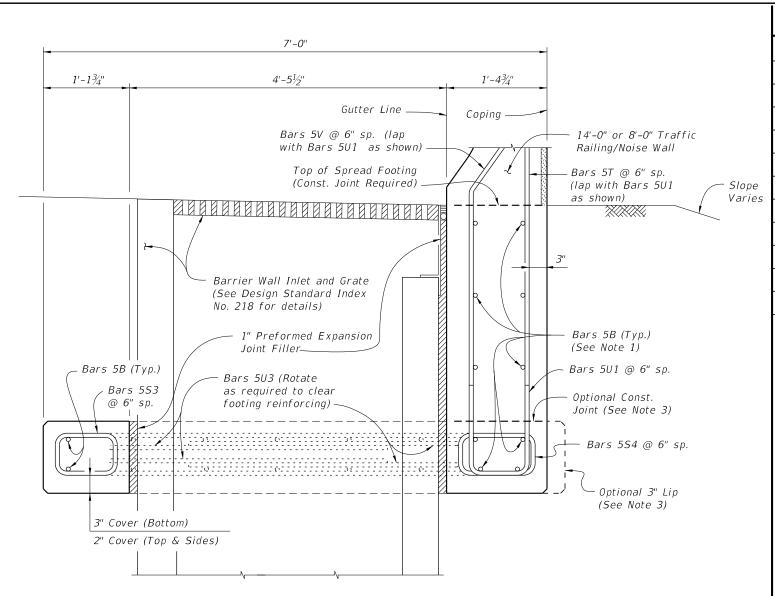
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TRAFFIC RAILING/NOISE WALL L-SHAPED SPREAD FOOTING

INDEX NO. 5214

SHEET NO. 3 of 4



SECTION A-A TYPICAL SECTION THRU SPREAD FOOTING AND BARRIER WALL INLET - OPTION B (Bars 5P, 5R and 5S1 in Traffic Railing/Noise Wall not shown for clarity)

- 1. Place 10 ~ Bars 5B inside Bars 5U1 as shown.
- 2. For Reinforcing Steel spacing, see Typical Section Thru Spread Footing - Option B on Sheet 3.
- 3. Provide 3" lip when optional construction joint is used.

ESTIMATED L-SHAPED SPREAD	FOOTING	QUANTITIES
ITEM	UNIT	QUANTITY
Concrete (Footing)	CY/FT	0.414
Reinforcing Steel (Typical)	LB/FT	85.53
Additional Reinf. @ Expansion Joint	LB	48.06

(Subtract 12.69 lb/ft from typical reinforcing steel quantity shown on Index No. 5210 to account for the absence of Stirrup Bars 5V and 5S1 in L-Shaped Spread Footings.)

CROSS REFERENCE:

For location of Section A-A, see Sheet 1.

REINFORCING STEEL BENDING DIAGRAMS BILL OF REINFORCING STEEL Length as Required SIZE MARK LENGTH В 5 AS REQD. 5'-6" 5 C 5'-6" *S3* 5 3'-10" BARS 5B & 5C 54 5 4'-3" 5 Τ 4'-3" 2'-0" U 1 5 8'-0" U2 5 13'-11" 5 U3 12'-10" 1" Ø DOWEL V 5 3'-10" DOWEL 2'-0" 1" Ø Smooth Bar 6'-8" 5'-8" BAR 5U3 BAR 5U2 10" - 54°30' **BAR 5S3** BAR 5S4 BAR 5T BAR 5V BAR 5U1 REINFORCING STEEL NOTES:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing steel at the open joints will have a 2" minimum cover.
- 3. Lap splices for Bars 5B will be a minimum of 2'-2".
- 4. Lap splices Bars 5T and 5V with 5U1 will be a minimum of 2'-2".
- 5. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.

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DESCRIPTION:

FY 2016-17 DESIGN STANDARDS

TRAFFIC RAILING/NOISE WALL

INDEX NO. 5214

SHEET NO. 4 of 4