

PLAN - OPTION B SPREAD FOOTING ADJACENT TO SKEWED APPROACH SLAB AND WITH BARRIER WALL INLET (Option A Similar) (Bars S1 Not Shown)

NOTES

- 1. Construct the Spread Footing level transversely; do not construct the spread footing perpendicular to the roadway surface.
- 2. Concrete will be in accordance with Specification Section 346.
 - A. Class II concrete for slightly aggressive environments.
 - B. Class IV concrete for moderately or extremely aggressive environments.
- 3. 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 $\frac{3}{4}$ " Expansion Joints plumb and perpendicular or radial to Gutter Line. Provide at 90'-0" maximum intervals as shown.
- 5. Construct $\frac{1}{2}$ " V-Grooves plumb and provide at 30'-0" maximum intervals as shown. Space V-Grooves equally between $\frac{3}{4}$ " Expansion Joints and/or Begin or End Spread Footing. V-Groove locations are to coincide with V-Groove locations in the Concrete Barrier/Noise Wall.
- 6. Provide and install Preformed Expansion Joint Filler in accordance with Specification Section 932.
- 7. 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 Sheets 2 and 3 for details.
- 8. Spacing shown is along the Gutter Line.
- 9. Work this Index with one or both of the following:
- a. Index 521-510 Concrete Barrier/Noise Wall (8'-0").
- b. Index 521-511 Concrete Barrier/Noise Wall (14'-0").

CROSS REFERENCE:

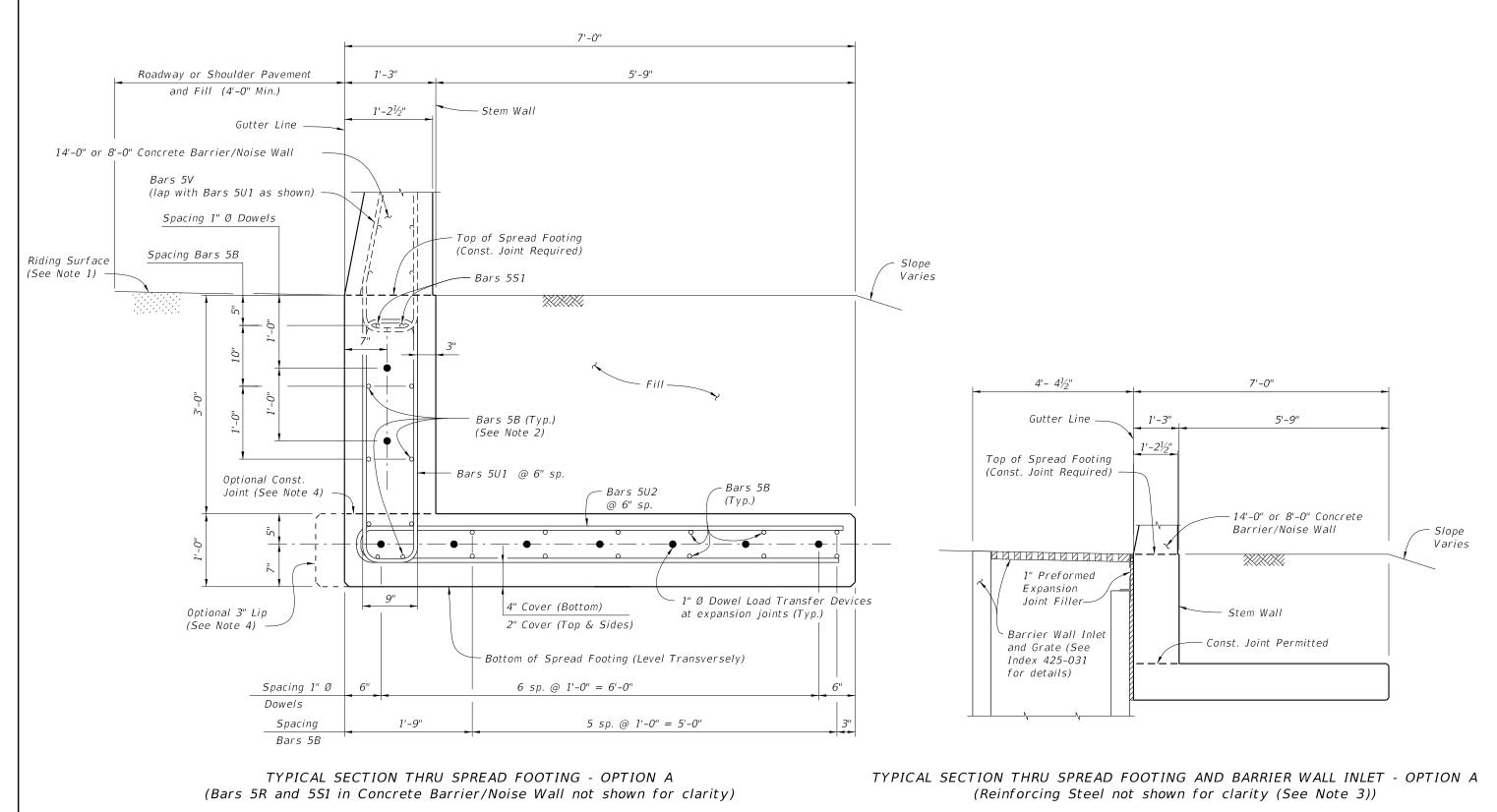
For Detail "A", see Sheet 3. For Section A-A and Estimated Quantities, see Sheet 4.

LAST REVISION 11/01/18

ST O DESCRIPTION:



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IOTES:

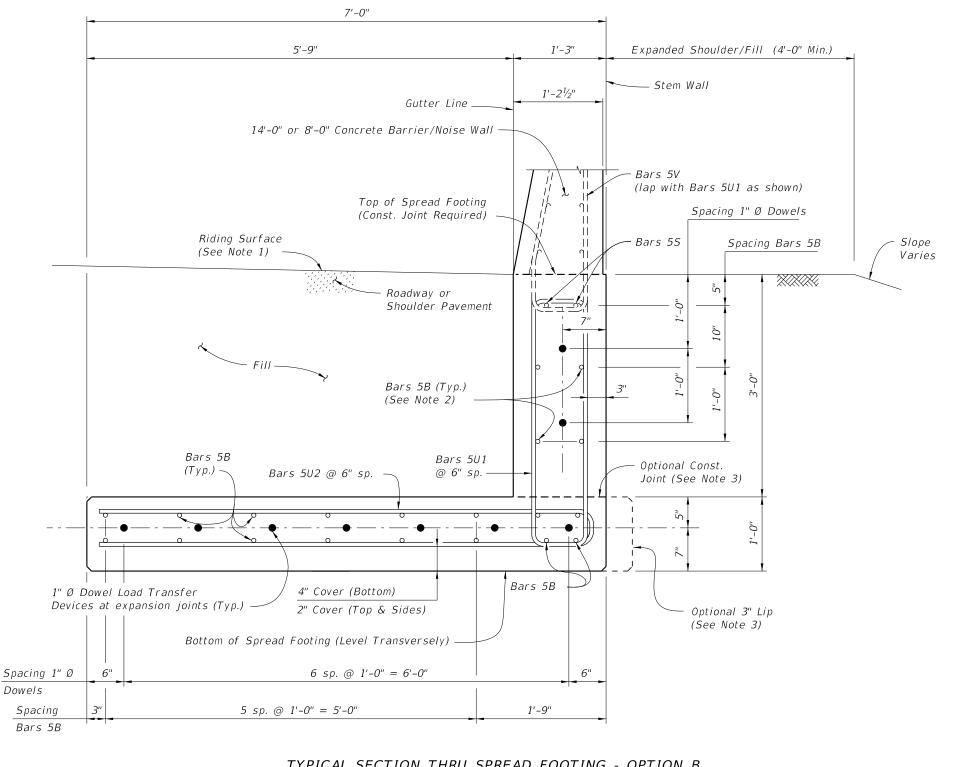
- 1. Match Cross Slope of Travel Lane or Shoulder.
- 2. Place $10 \sim Bars$ (8 $\sim Bars$ 5B and 2 $\sim Bars$ 5S1) inside Bars 5U1 as shown, (2 $\sim 5S1$ Bars are included in 521-510 or 521-511 quantities)
- 3. For Reinforcing Steel spacing, see Typical Section Thru Spread Footing - Option A this Sheet.
- 4. Provide 3" lip when optional construction joint is used.

10/0/2022

LAST REVISION 11/01/17

DESCRIPTION:

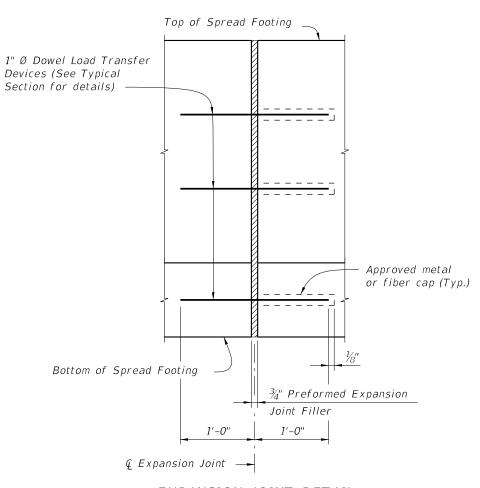
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TYPICAL SECTION THRU SPREAD FOOTING - OPTION B (Bars 5P, 5R and 5S1 in Concrete Barrier/Noise Wall not shown for clarity)

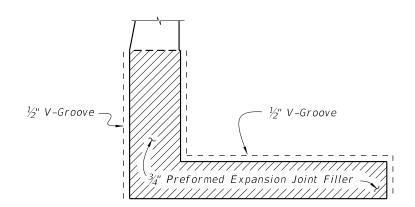
NOTES:

- 1. Match Cross Slope of Travel Lane or Shoulder.
- 2. Place 10 ~ Bars (8 ~ Bars 5B and 2 ~ Bars 5S1) 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 $\frac{3}{4}$ " open joints in Concrete Barrier/Noise Wall)



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

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

10/0/2022

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DESCRIPTION:

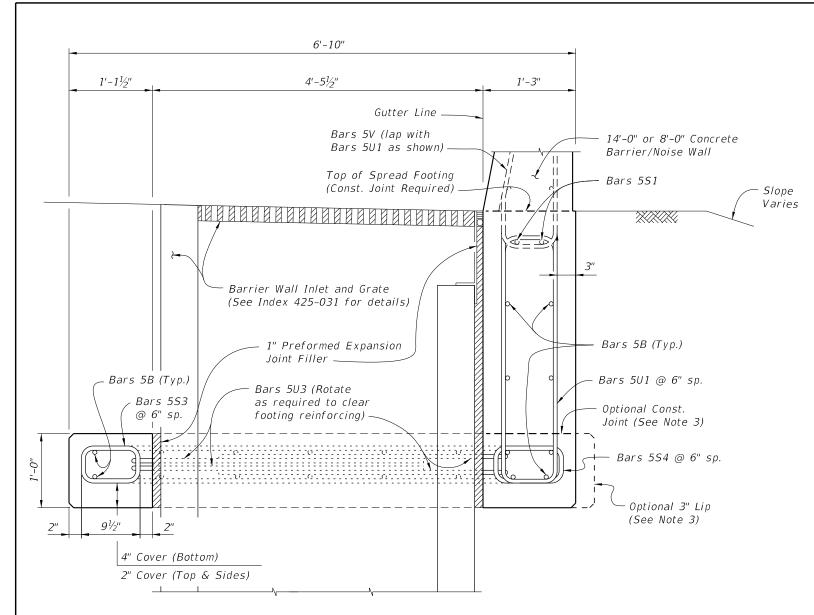
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CONCRETE BARRIER/NOISE WALL L-SHAPED SPREAD FOOTING

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3 of 4



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

- 1. Place 8 ~ Bars 5B and 2 Bars S1 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	0.398
Reinforcing Steel (Typical) *	LB/FT	68.84
Additional Reinf. @ Expansion Joint	LB	48.06

* Bars 5V and 5S1 are included in Index 521-510 or 521-511 quantities.

DESCRIPTION:

CROSS REFERENCE:

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

REINFORCING STEEL BENDING DIAGRAMS BILL OF REINFORCING STEEL Length as Required MARK SIZE LENGTH AS REQD. В 5 5'-6" F 5 5'-6" *S3* 5 3'-7" BARS 5B & 5F 54 5 3'-10" 5 9'-2" U 1 2'-0" U2 5 13'-10" UЗ 5 12'-10" DOWEL 1" Ø Smooth Bar 2'-0" 1" Ø DOWEL 6'-8" 5'-8" BAR 5U2 BAR 5U3 **BAR 5S3** 11" **BAR 5S4** 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.

LAST REVISION 11/01/17

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SHEET