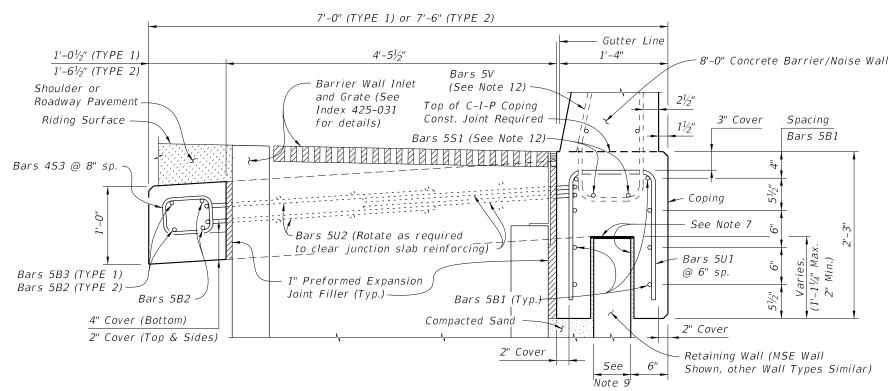


## PLANJUNCTION SLAB ADJACENT TO SKEWED APPROACH SLAB AND WITH BARRIER WALL INLET



SECTION A-A SECTION THRU JUNCTION SLAB, BARRIER WALL INLET AND RETAINING WALL (TYPE 1 Junction Slab Shown, TYPE 2 Similar)

### NOTES

- 1. Work this Index with Index 521-510 Concrete Barrier/Noise Wall (8'-0").
- 2. Concrete will be in accordance with Specification Section 346.
  - A. Use Class II concrete for slightly aggressive environments.
- B. Class IV concrete for moderately or extremely aggressive environments. Construct  $rac{3}{4}$ " Expansion Joints and face of coping plumb, and either perpendicular
- or radial to Gutter Line. Provide at 90'-0" maximum intervals as shown. Dowel Load Transfer Devices will be hot-dip galvanized ASTM A36 smooth
- round bars or GFRP smooth round bars with a minimum shear strength of 22 ksi in accordance with ASTM D7617. Install Dowel Load Transfer Devices in accordance with Specification Section 350.
- Shear Keys in Junction Slab are required when GFRP bars are used for Dowel Transfer Devices and are optional with steel dowel bars. Tongue Slope on Shear Key must be constant and between 5° to 45° from horizontal.
- Construct ½" 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 Junction Slab. V-Groove locations are to coincide with V-Groove locations in the Barrier/Noise Wall.
- Provide Organic Felt bond breaker on top and Expanded Polystyrene ( $\frac{1}{2}$ " thick) on sides of retaining wall.
- Shoulder or Roadway Pavement is required on top of the junction slab for its entire length on the traffic side of the Barrier/Noise Wall. See Section B-B for
- Actual location & width vary depending on type of Retaining Wall used.
- 10. Field cut Bars 5A and 5B2 as required to maintain minimum cover for skewed Approach Slab.
- Spacing shown is along the Gutter Line.
- 12. See Index 521-510 for Bars 5V and 2 ~ Bars 5S1. See Plans for Junction Slab width (TYPE).

CROSS REFERENCE:

For Section B-B and Detail "A", see Sheet 2.

REVISION 11/01/20 DESCRIPTION:

FDOT

FY 2025-26 STANDARD PLANS

CONCRETE BARRIER/NOISE WALL JUNCTION SLAB

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SHEET

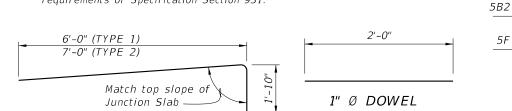
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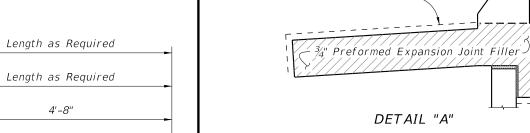
# REINFORCING STEEL BENDING DIAGRAMS (8'-0" Concrete Barrier/Noise Wall) (TYPE 1 and 2)

#### BILL OF REINFORCING STEEL LENGTH MARK SIZE TYPE 1 TYPE 2 5 7'-10" 8'-10" Α В1 5 AS REQD. AS REQD. В2 5 AS REQD. AS REQD. 5 В3 10'-0" N/A5 4'-8" 5'-8" 5 4'-5" 4'-5" 53 4 3'-1" 4'-0" U 1 5 4'-9" 4'-9" U2 5 12'-10" 12'-10" DOWEL | 1" Ø Smooth Bar 2'-0" 2'-0"

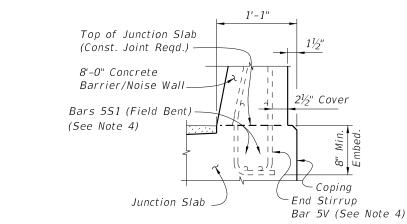
# REINFORCING STEEL NOTES:

- 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. The Contractor may use Deformed WWR when approved by the Engineer. Deformed WWR must meet the requirements of Specification Section 931.





**BARS 5B & 5F** 



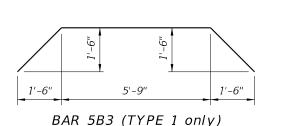
(Showing Locations of  $\frac{1}{2}$ " V-Grooves

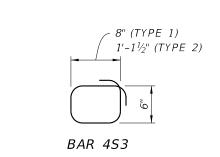
and 3/4" Preformed Expansion Joint Filler)

 $\frac{1}{2}$ " V-Groove (Typ.)

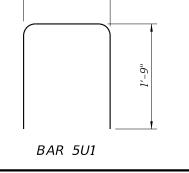
PARTIAL END VIEW OF RAILING END TRANSITION FOR GUARDRAIL ATTACHMENT (Showing Bars 5V and Bars 5B1)

NOTE: See Index 521-510, Detail "A" for details.

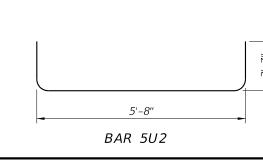




BAR 5A



1'-2"

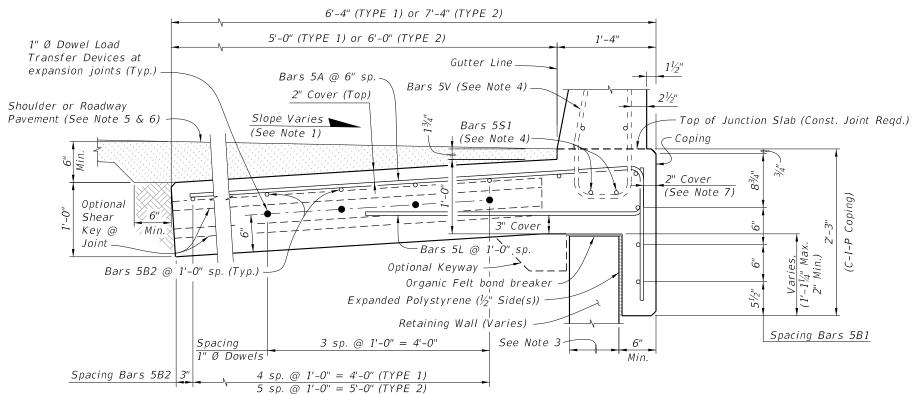


3'-9"

BAR 5L

5B1

5F



#### ESTIMATED JUNCTION SLAB QUANTITIES QUANTITY ITEM UNIT TYPE 1 TYPE 2 Concrete (Junction Slab) CY/FT 0.268 0.305 LB/FT 31.72 34.85 Reinforcing Steel (Typical) Additional Reinf. @ Expansion Joint 21.36 LB 21.36

### NOTES:

- 1. Match Cross Slope of Travel Lane or Shoulder.
- 2. Vary Junction Slab slope based on roadway cross slope to maintain a minimum 6" asphalt depth at the edge of the slab as shown.
- 3. Actual width varies depending on type of Retaining Wall used.
- 4. See Index 521-510 for Bars 5V and Bars 5S1.
- 5. For Rigid Pavement (Concrete), Junction Slab may be thickened to match finished grade. Vary the Junction Slab slope to maintain a minimum 1'-6" thickness at the inside edge of the slab.
- 6. See Roadway Plans for asphalt shoulder, roadway pavement and overbuild.
- 7. If slip forming is used, submit shop drawings for approval showing Expansion Joint support details and  $2\frac{1}{2}$ " side cover with adjusted Typical Section dimensions.
- 8. Bars 5L and 5C are grouped together and placed with every other Bar 5A.
- 9. Bar 5L to lap Bar 5C for minimum wall embedment. Minimum Lap splice length 2'-2".

SECTION B-B TYPICAL SECTION THRU JUNCTION SLAB AND RETAINING WALL (8'-0" Concrete Barrier/Noise Wall)

CROSS REFERENCE:

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

REVISION 11/01/22

DESCRIPTION:



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