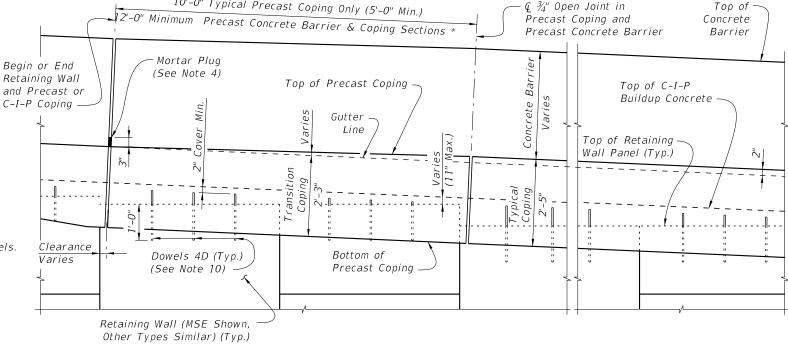


- Provide Class II concrete for slightly aggressive environments or Class IV for moderate or extremely aggressive environments.
- Dowel Load Transfer Devices will be hot-dip galvanized ASTM A 36 smooth round bar, or GFRP smooth round bars with a minimum shear strength of 22 ksi in accordance with ASTM D7617. Install Dowel Load Transfer Devices in accordance with Specification Section 350.
- Construct  $\frac{3}{4}$ " Expansion Joints in junction slabs and C-I-P copings plumb and perpendicular or radial to the Gutter Line. Provide at 90'-0" maximum intervals as shown. Provide 3"x3" Mortar plugs in open joints at the base of Concrete Barriers to contain runoff.
- 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
- Provide and install Preformed Expansion Joint Filler in accordance with Specification Section 932.
- Construct ½" V-Grooves in junction slabs and C-I-P copings 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 Concrete Barrier.
- Shoulder or Roadway Pavement is required on top of the junction slab for its entire length on the traffic side of the Concrete Barrier. See Typical Sections on Sheets 2 and 3 for details.
- Spacing shown is along the Gutter Line.
- For Precast Coping only, provide Dowel Bars 4D embedded 1'-0" and extended 9" above the top of MSE wall panels. Field cut as necessary to maintain 2" minimum cover to the top of the buildup concrete. See Wall Company Drawings for number and spacing of Dowel Bars 4D.
- The following Indexes contain details of the intersection of the retaining wall at approach slabs: Index 400-090 - Approach Slabs (Flexible Pavement Approaches) Index 400-091 - Approach Slabs (Rigid Pavement Approaches)



## PARTIAL ELEVATION VIEW (Precast Coping and Junction Slab Reinforcing not Shown for Clarity)

(Precast Coping Shown, C-I-P Coping Similar)

\* C-I-P End Section must  $be \ge 12'-0''$ .

CROSS REFERENCE: For Detail "A", see Sheet 2.

DESCRIPTION:

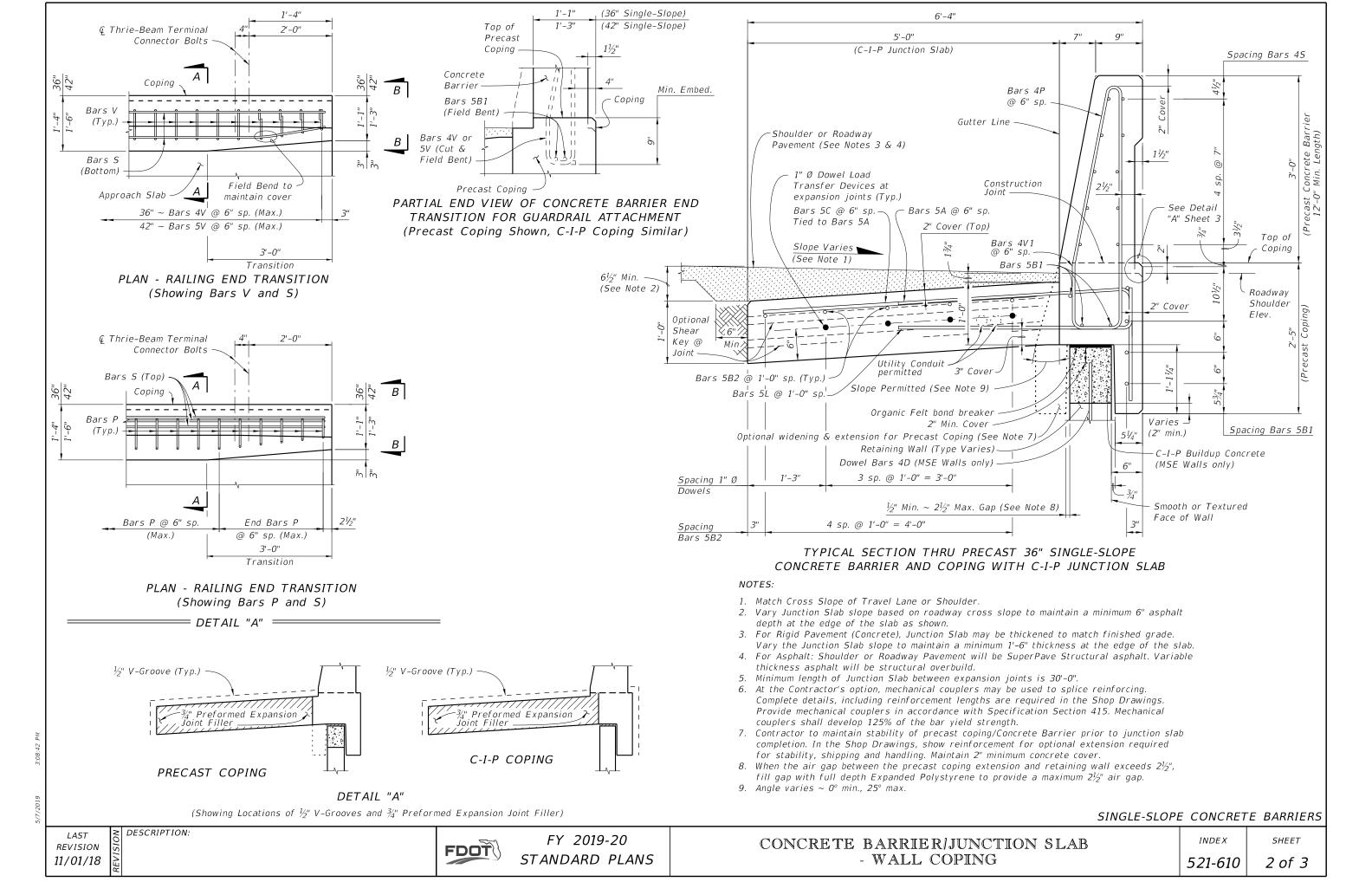
**FDOT** 

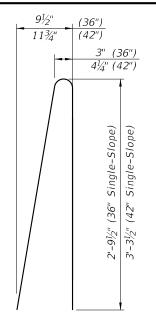
FY 2019-20

CONCRETE BARRIER/JUNCTION SLAB - WALL COPING

SINGLE-SLOPE CONCRETE BARRIERS INDEX SHEET

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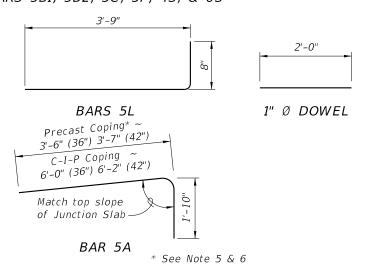


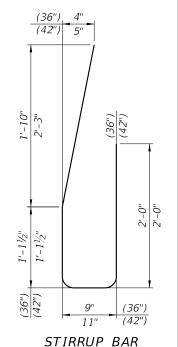
STIRRUP BAR 4P (36") 5P (42")



Dowel

BARS 5B1, 5B2, 5C, 5F, 4S, & 6S



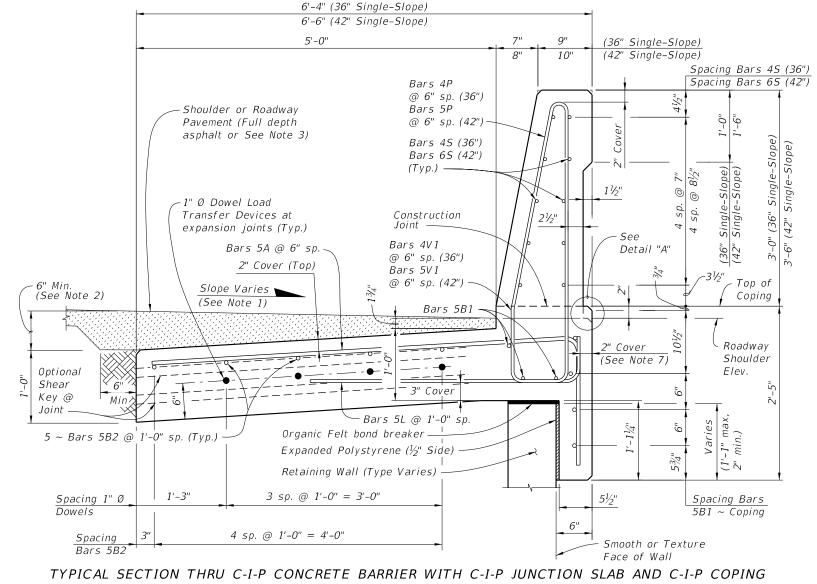


4V1 (36") 5V1 (42")

## REINFORCING STEEL NOTES:

DESCRIPTION:

- 1. All bar dimensions in the bending diagrams are out to out.
- All reinforcing steel at expansion and open joints will have a 2" minimum cover.
- 3. Lap splices for Bars 5B & 5S will be a minimum of 2'-2".
- 4. For Precast Copings only, lap splice Bars 5A with Bars 5C. Lap splices will be a minimum of 2'-2".
- 5. The Contractor may use either full length Bars 5A or lap splice with Bars 5C at Bars 5A for C-I-P Copings.
- 6. Dimension shown is for lap splice option. For mechanical coupler option, this dimension is 1'-2\frac{1}{2}'' (36" Single-Slope) or  $1'-4\frac{1}{2}$ " (42" Single-Slope).
- 7. Dimension shown is for lap splice option. For mechanical coupler option, this dimension is 4'-8".
- 8. When approved by the Engineer, the Contractor may use deformed Welded Wire Reinforcement (WWR) meeting the requirements of Specification Section 931.
- 9. Contractor may use a single #5 stirrup in lieu of two bars for 4P and 4V1.

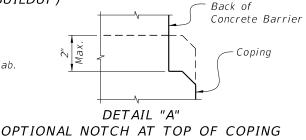


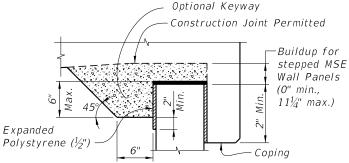
## (PRECAST COPING SIMILAR WITH C-I-P BUILDUP) NOTES:

- 1. Match Cross Slope of Travel Lane or Shoulder
- 2. Vary the Junction Slab slope based on the roadway cross slope to maintain a minimum 6" asphalt depth at the edge of the slab.
- 3. For Rigid Pavement (Concrete), Junction Slab may be thickened to match finish grade. Vary the Junction Slab slope to maintain a minimum 1'-6" thickness at the inside edge of the slab.
- 4. Minimum length of Junction Slab between expansion joints is 30'-0" for 36" Single-Slope or 60'-0" for 42" Single-Slope.
- Contractor to maintain stability of precast coping prior to junction slab completion. In the Shop Drawings, show reinforcement for optional extension required for stability, shipping and handling. Maintain 2" minimum concrete cover.
- 6. If slip forming is used, submit shop drawings for approval showing  $2\frac{1}{2}$  side cover with the Typical Section dimensions adjusted.

|  | ESTIMATED QUANTITIES FOR C-I-P                         |       |                   |                   |
|--|--|-------|-------------------|-------------------|
|  | ITEM   | UNIT  | QUANTITY<br>(36") | QUANTITY<br>(42") |
|  | Concrete   | CY/LF | 0.376             | 0.420             |
|  | Reinforcing Steel (Typical)<br>(excludes Bars 5C & 5F) | LB/LF | 62.45             | 82.17             |
|  | Additional Reinf. @ Expansion<br>Joint (Steel Dowels)  | LB    | 21.36             | 21.36             |

(The above concrete quantities are based on a max. superelevation of 6.25%)





BUILDUP FOR STEPPED MSE WALL PANELS AND C-I-P COPING

SINGLE-SLOPE CONCRETE BARRIERS

REVISION 11/01/17



FY 2019-20 STANDARD PLANS

CONCRETE BARRIER/JUNCTION SLAB - WALL COPING

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