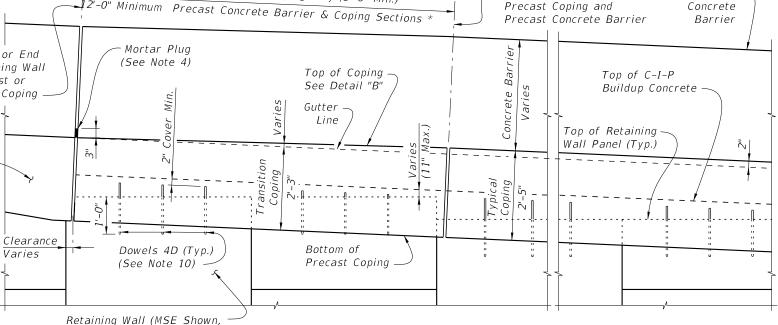


- For Precast Coping only, provide Dowel Bars 4D embedded 1'-0" and extended 9" above the top of MSE wall panels. Field cut as necessary to maintain 2" minimum cover to the top of the buildup concrete. See Wall Company Drawings for number and spacing of Dowel Bars 4D.
- The following Indexes contain 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)
- Junction slabs with rigid pavement: the two inch increase in concrete barrier height is not required.
- There are two options to accommodate the 2" height transitions :
  - A. Raise the top of coping elevation 2" and mount either a 36" or 42" standard barrier on top
  - B. Transition the height of the concrete barrier by gradually extending the toe and back of the barrier 2" while keeping the top of coping elevation even with the gutterline elevation.
- The barrier construction joint must be at the interface of the coping and the barrier base. Embed the V bars a minimum of 9" below the construction joint.
- For embedded conduit and junction boxes, see Index 630-010.



PARTIAL ELEVATION VIEW (Precast Coping and Junction Slab Reinforcing not Shown for Clarity) (Precast Coping Shown, C-I-P Coping Similar)

Other Types Similar) (Typ.)

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

SINGLE-SLOPE CONCRETE BARRIERS

REVISION 11/01/21

FDOT

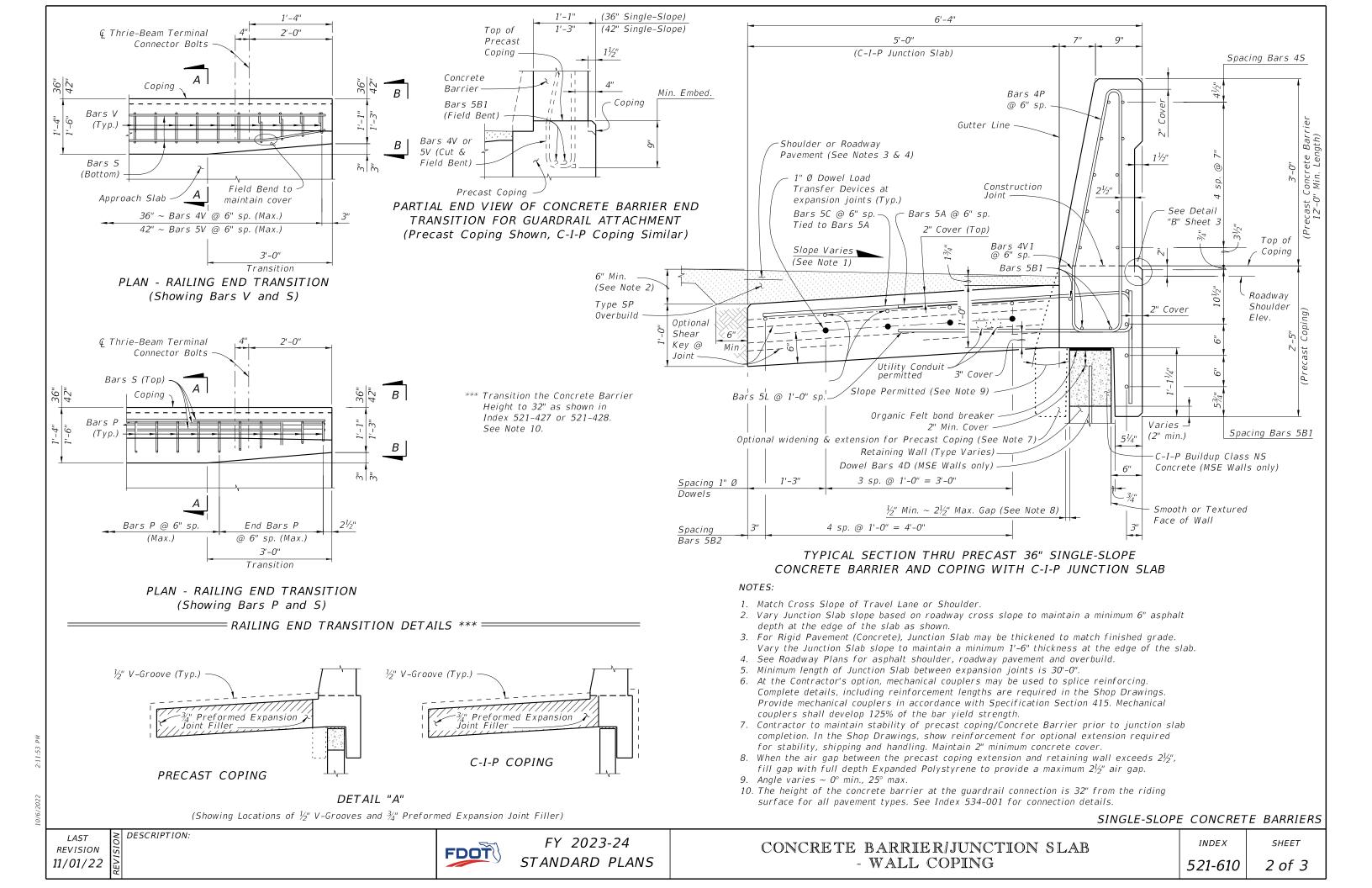
FY 2023-24 STANDARD PLANS

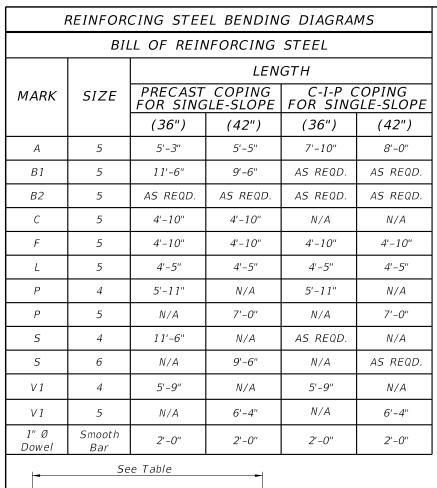
CONCRETE BARRIER/JUNCTION SLAB - WALL COPING

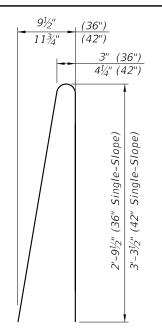
INDEX

521-610 1 of 3

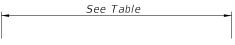
SHEET



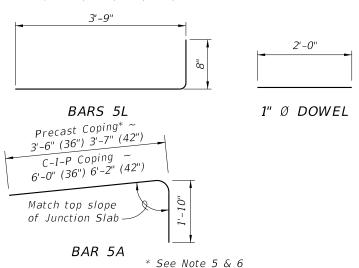


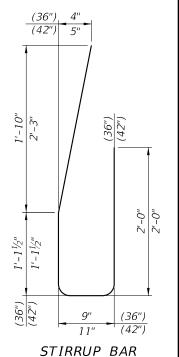


STIRRUP BAR 4P (36") 5P (42")



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



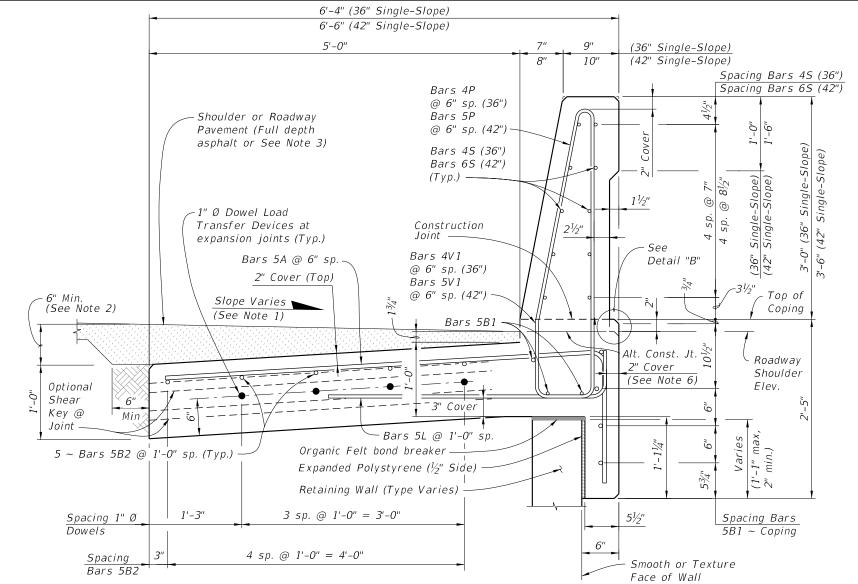


4V1 (36") 5V1 (42")

REINFORCING STEEL NOTES:

DESCRIPTION:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. 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
- 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.
- Contractor may use a single #4 stirrup for Bars 4P and 4V1, or a single #5 stirrup for Bars 5P and 5V1.

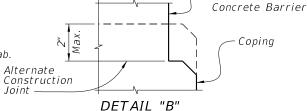


TYPICAL SECTION THRU C-I-P CONCRETE BARRIER WITH C-I-P JUNCTION SLAB AND C-I-P COPING (PRECAST COPING SIMILAR WITH C-I-P BUILDUP)

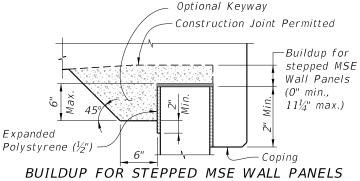
- 1. Match Cross Slope of Travel Lane or Shoulder.
- Vary the Junction Slab slope based on the roadway cross slope to maintain a minimum 6" asphalt depth at the edge of the slab.
- 3. For Rigid Pavement (Concrete), Junction Slab may be thickened to match finish grade. Vary the Junction Slab slope to 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 (36")	QUANTITY (42")
Concrete	CY/LF	0.376	0.420
Reinforcing Steel (Typical) (excludes Bars 5C & 5F)	LB/LF	62.45	82.17
Additional Reinf. @ Expansion Joint (Steel Dowels)	LB	21.36	21.36

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



OPTIONAL NOTCH AT TOP OF COPING



AND C-I-P COPING

SINGLE-SLOPE CONCRETE BARRIERS

LAST REVISION 11/01/22



FY 2023-24 STANDARD PLANS

NOTES: