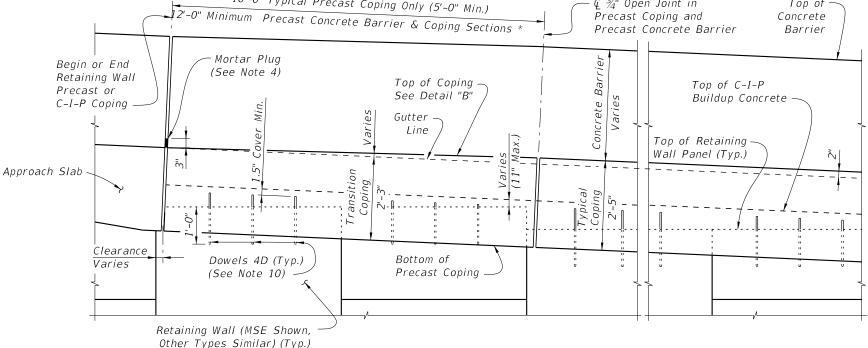


- the Gutter Line. Provide at 90'-0" maximum intervals as shown. Provide 3"x3" Mortar plugs in open joints at the base of Concrete Barriers to contain runoff.
- Shear Keys in Junction Slab are required. Tongue Slope on Shear Key must be constant and between 5° to 45° from horizontal.
- Provide and install Preformed Expansion Joint Filler in accordance with Specification Section 932.
- Construct 1/3" V-Grooves in junction slabs and C-I-P copings at 30'-0" maximum intervals as shown. Space V-Grooves equally between  $rac{3}{4}$ " 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.

DESCRIPTION:

- 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.
- 15. 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)

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

SINGLE-SLOPE CONCRETE BARRIERS

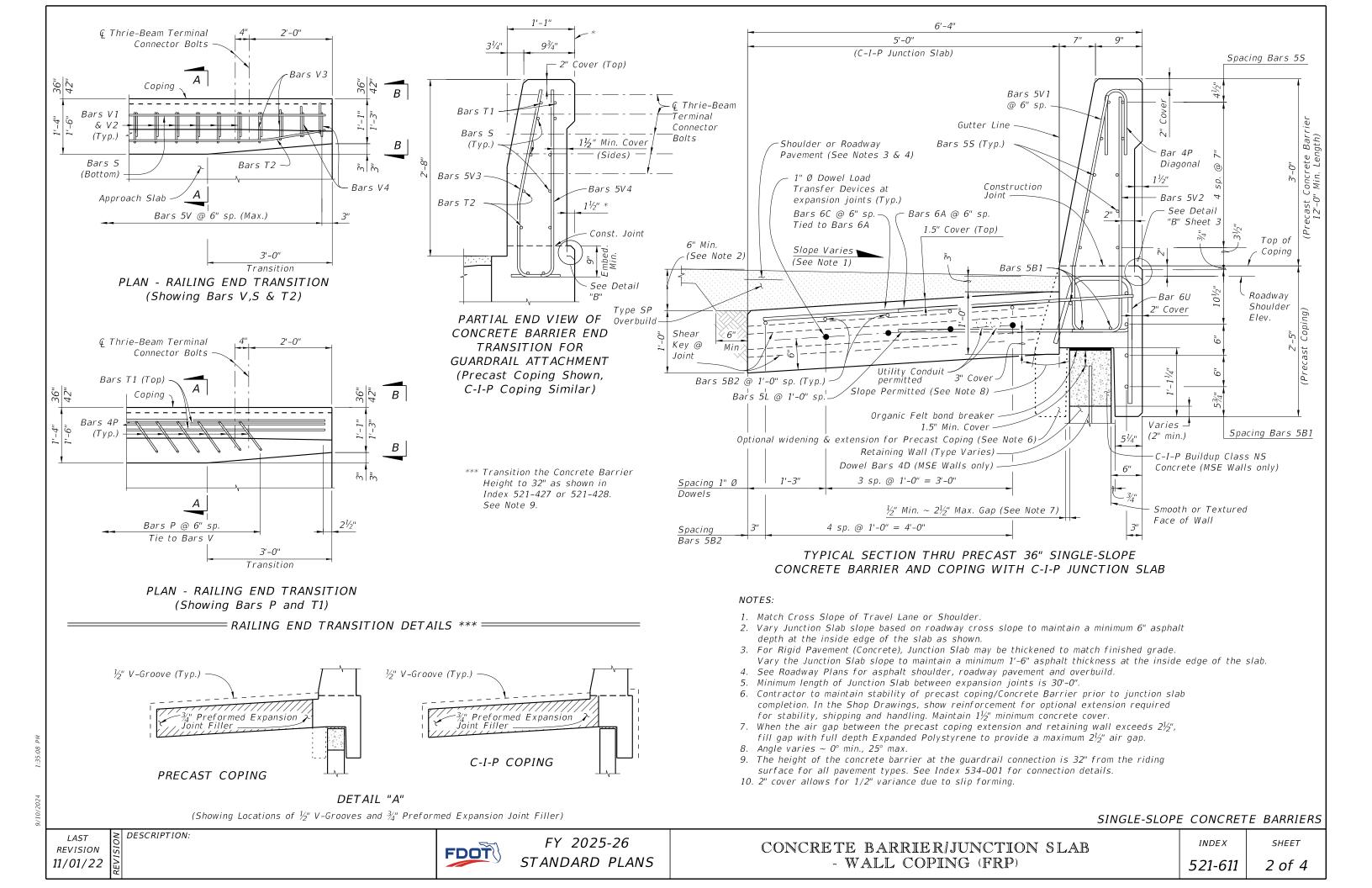
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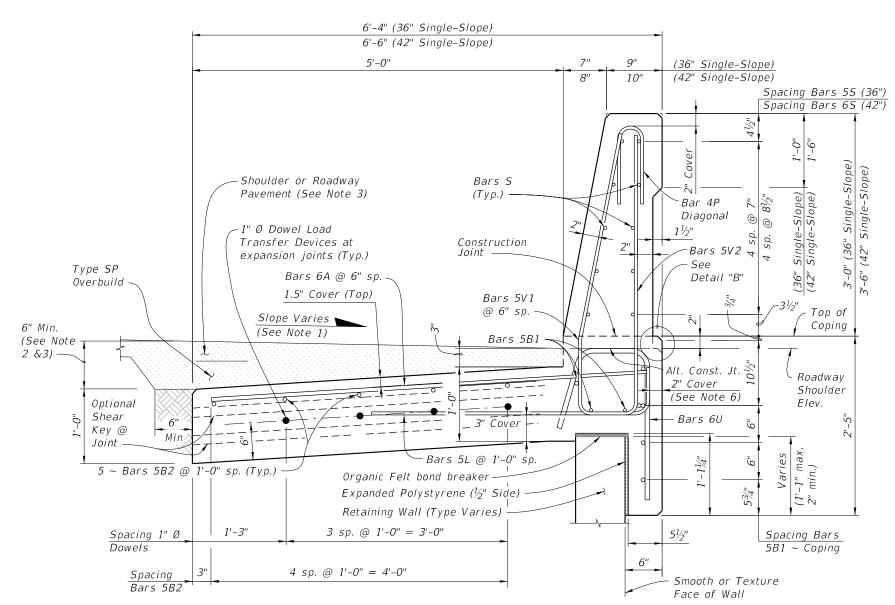
CONCRETE BARRIER/JUNCTION SLAB - WALL COPING (FRP)

INDEX SHEET

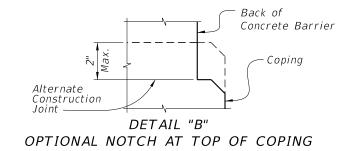
> 521-611 1 of 4

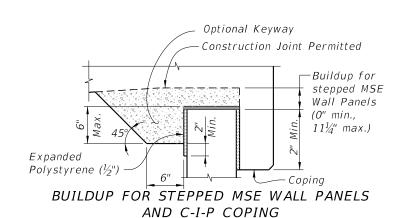






TYPICAL SECTION THRU C-I-P CONCRETE BARRIER WITH C-I-P JUNCTION SLAB AND C-I-P COPING (PRECAST COPING SIMILAR WITH C-I-P BUILDUP)





## 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 inside 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.
- 5. 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 1.5" minimum concrete cover.
- 6. 2" cover allows for 1/3" variance due to slip forming.

ESTIMATED QUANTITIES FOR C-I-P					
ITEM	UNIT	QUANTITY (36")	QUANTITY (42")		
Concrete	CY/LF	0.376	0.420		
GFRP (excludes Bars 6C & 6F)	LF/LF	69.42	72.41		
Additional Reinf. @ Expansion Joint (Dowels)	LF	8.00	8.00		

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

SINGLE-SLOPE CONCRETE BARRIERS

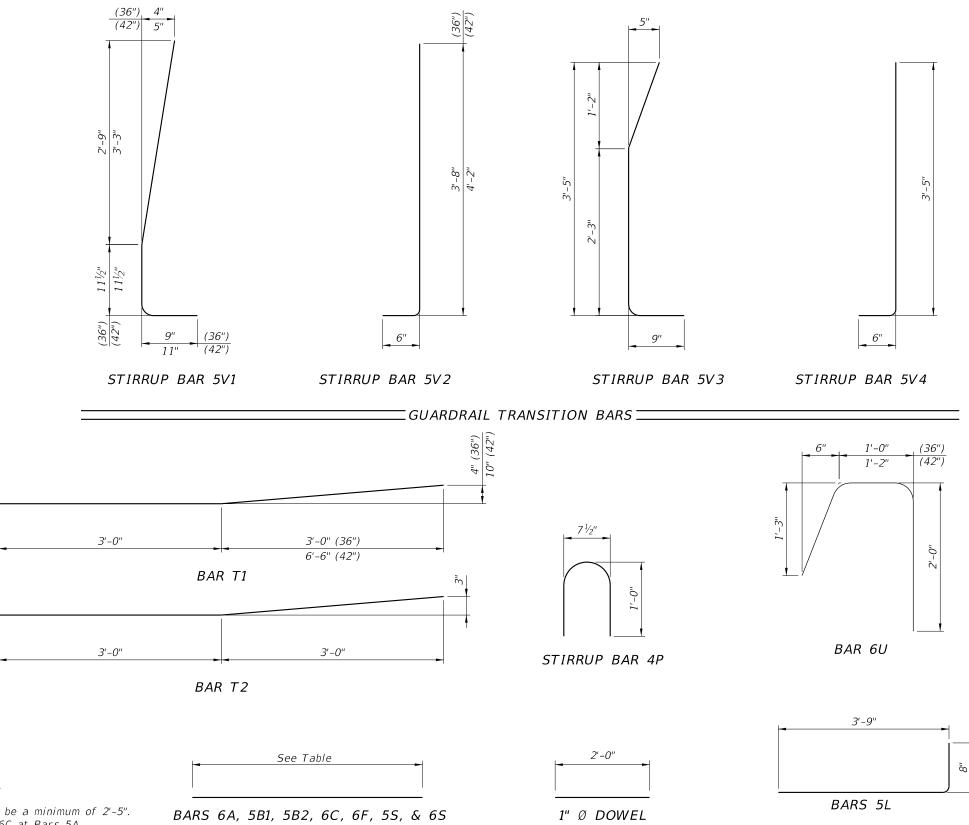
DESCRIPTION: REVISION 11/01/20

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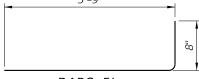
		FRP RE	INFORCING	3		
		THE NL				
MARK SIZI		LENGTH PRECAST COPING C-I-P COPING				
	SIZE	FOR SINGLE-SLOPE		FOR SINGLE-SLOPE		
		(36")	(42")	(36")	(42")	
Α	6	5'-3"	5'-5"	7'-10''	8'-0"	
B1	5	11'-6"	9'-6"	AS REQD.	AS REQD.	
B2	5	AS REQD.	AS REQD.	AS REQD.	AS REQD.	
С	6	4'-10"	4'-10''	N/A	N/A	
F	6	4'-10''	4'-10''	4'-10"	4'-10"	
L	5	4'-5"	4'-5"	4'-5"	4'-5"	
Р	4	2'-7"	2'-7"	2'-7"	2'-7"	
S	5	11'-6"	N/A	AS REQD.	N/A	
S	6	N/A	9'-6"	N/A	AS REQD.	
T 1	5	6'-1"	N/A	6'-1"	N/A	
T 1	6	N/A	9'-6"	N/A	9'-6"	
Т2	5	6'-1"	N/A	6'-1"	N/A	
Т2	6	N/A	6'-1"	N/A	6'-1"	
U	7	4'-4"	4'-6"	4'-4"	4'-6"	
V 1	5	4'-6"	5'-2"	4'-6"	5'-2"	
V2	5	4'-3''	4'-8"	4'-3"	4'-8"	
V3	5	4'-2"	4'-2"	4'-2"	4'-2"	
V4	5	3'-11"	3'-11"	3'-11"	3'-11"	
1" Ø Dowel	Smooth Bar	2'-0"	2'-0"	2'-0"	2'-0"	



## REINFORCING STEEL NOTES:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing at expansion and open joints will have a 1.5" minimum cover.
- 3. Lap splices for Bars 5B & 5S will be a minimum of 2'-2".
- 4. For Precast Copings only, lap splice Bars 6A with Bars 6C. Lap splices will be a minimum of 2'-5".
- 5. The Contractor may use either full length Bars 7A or lap splice with Bars 6C at Bars 5A for C-I-P Copings.
- 6. Contractor may use a single #5 stirrup in lieu of two bars for 5P and 5V1.
- 7. FRP Bars can not be field bent.

DESCRIPTION:



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CONCRETE BARRIER/JUNCTION SLAB - WALL COPING (FRP)

INDEX

SHEET