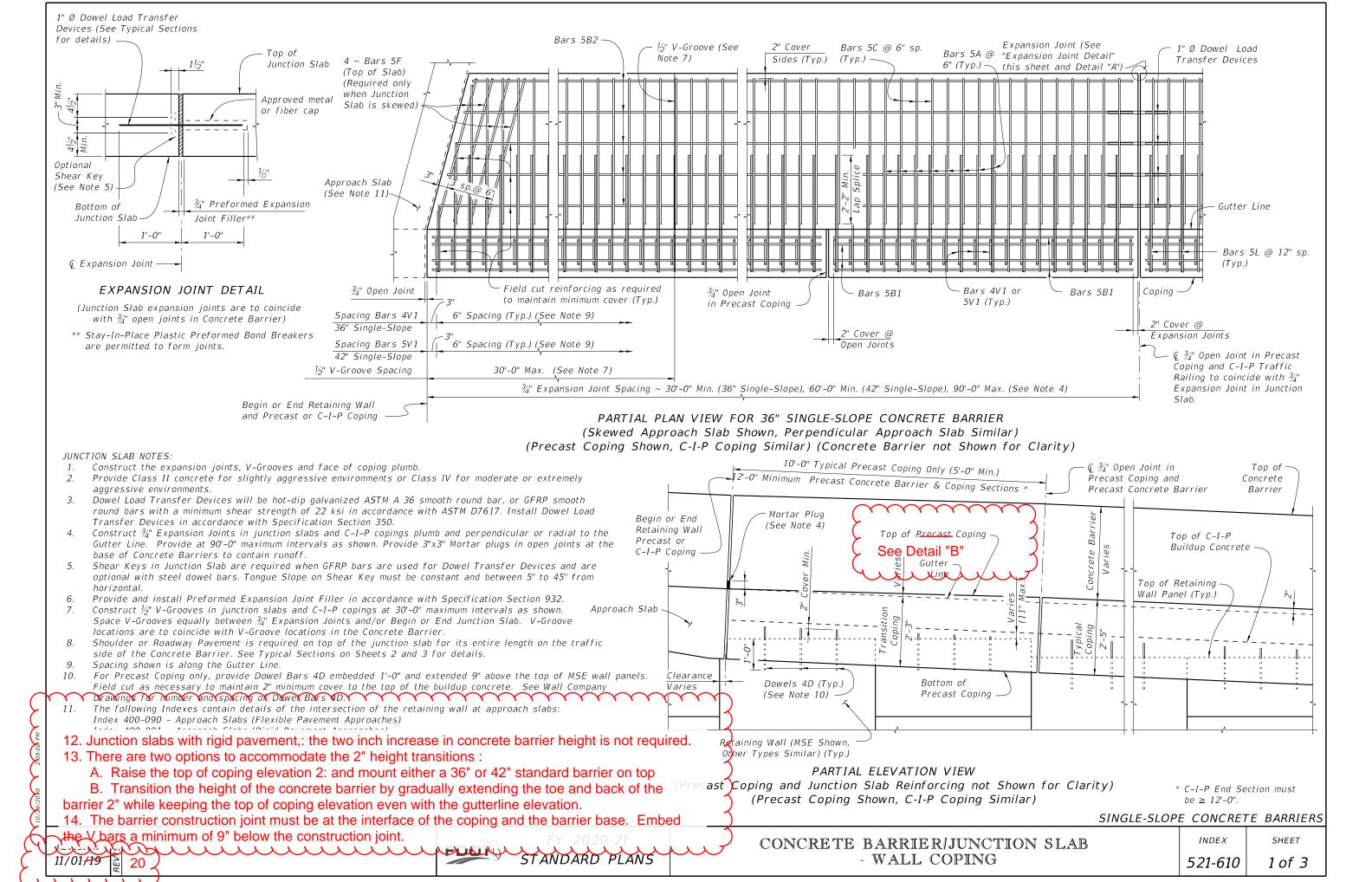
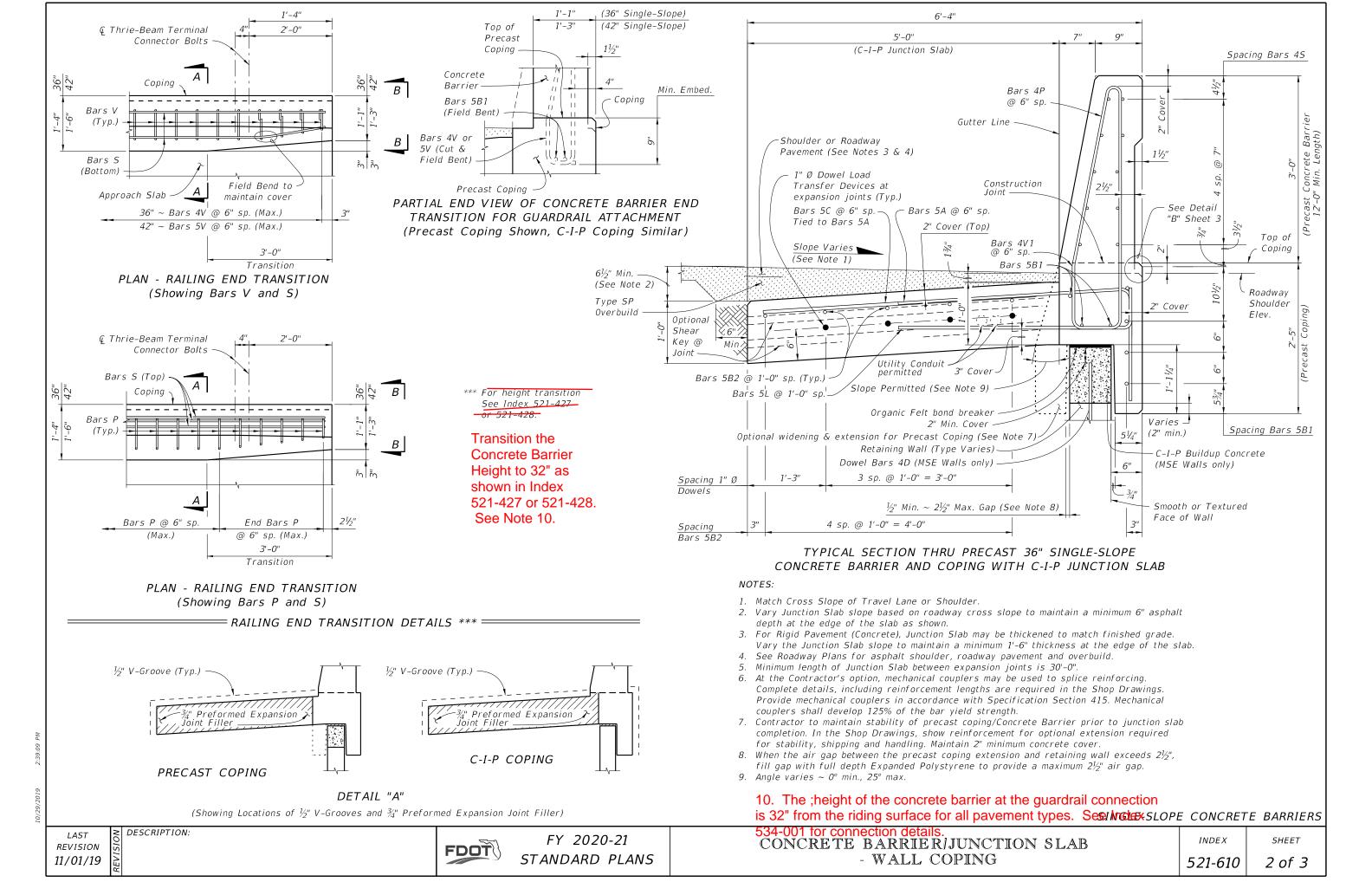
— ORIGINATION FORM ———

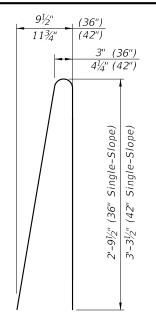
Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)								
Contact In	formation:	Standard Plan	<u>s:</u>					
Date: Febru	uary 12, 2020	Index Number: 5	521-610					
Originator:	Cheryl Hudson	Sheet Number (s):	1 & 2 <mark>& 3</mark>					
Phone: (85	0) 414-5332	Index Title: Conc	rete Barrier/Junction Slab - Wall Coping					
Email: cher	yl.hudson@dot.state.fl.us							
Summary	of the changes:							
Sheet 1: A	Added Notes 12, 13 & 14; Sheet 2: Added Note	10; Sheet 3: Correc	cted note reference					
Clarified	ary / Background: when to use transitions and where to find mor							
Yes No	ected Offices / Documents: (Provide name of	of person contacted)					
	Other Standard Plans — FDOT Design Manual — Basis of Estimates Manual — Standard Specifications — Approved Product List — Construction — Maintenance —							
(Email or ha	on Package Includes: and deliver package to Rick Jenkins)		Implementation: ☐ Design Bulletin (Interim) ☐ DCE Memo					
	Redline Mark-ups Proposed Standard Plan Instruction (SPI) Revised SPI Other Support Documents		☐ Program Mgmt. Bulletin☐ FY-Standard Plans (Next Release)					

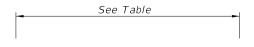
Contact the Roadway Design Office for assistance in completing this form







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



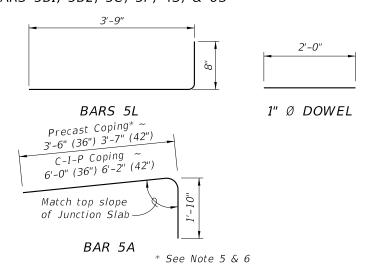
2'-0"

Smooth

1" Ø

Dowel

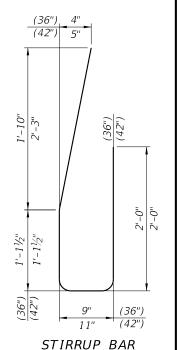
BARS 5B1, 5B2, 5C, 5F, 4S, & 6S



2'-0"

2'-0"

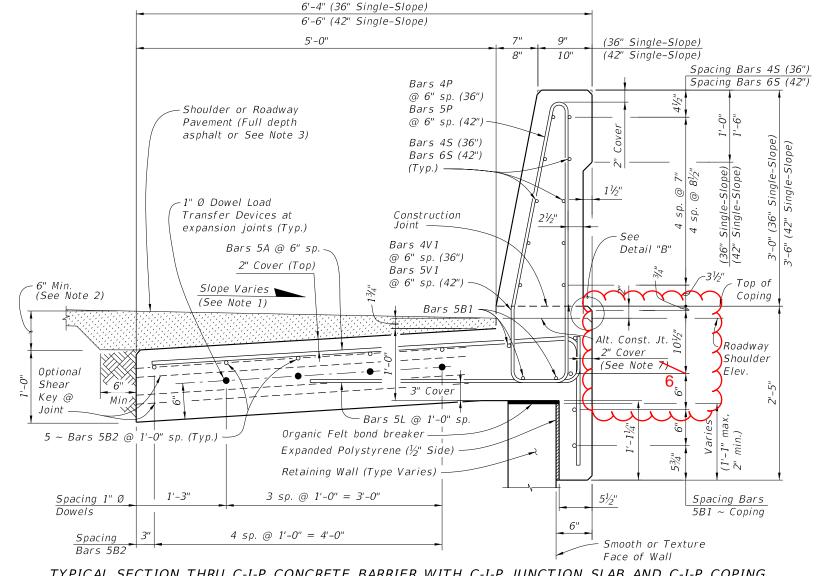
2'-0"



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

REINFORCING STEEL NOTES:

- 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.



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:

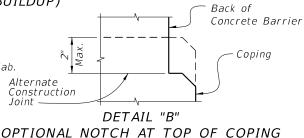
- 1. Match Cross Slope of Travel Lane or Shoulder
- Vary the Junction Slab slope based on the roadway cross slope to maintain a minimum 6" asphalt depth at the edge of the slab.
- 3. For Rigid Pavement (Concrete), Junction Slab may be thickened to match finish grade. Vary the Junction Slab slope to maintain a minimum 1'-6" thickness at the inside edge of the slab.
- 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

4. Minimum length of Junction Slab between expansion joints is 30'-0" for 36" Single-Slope

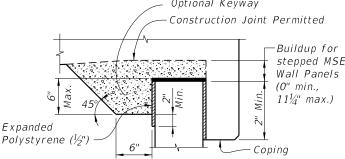
and handling. Maintain 2" minimum concrete cover. 6. If slip forming is used, submit shop drawings for approval showing $2\frac{1}{2}$ side cover with the Typical Section dimensions adjusted.

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 Keyway



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

SINGLE-SLOPE CONCRETE BARRIERS

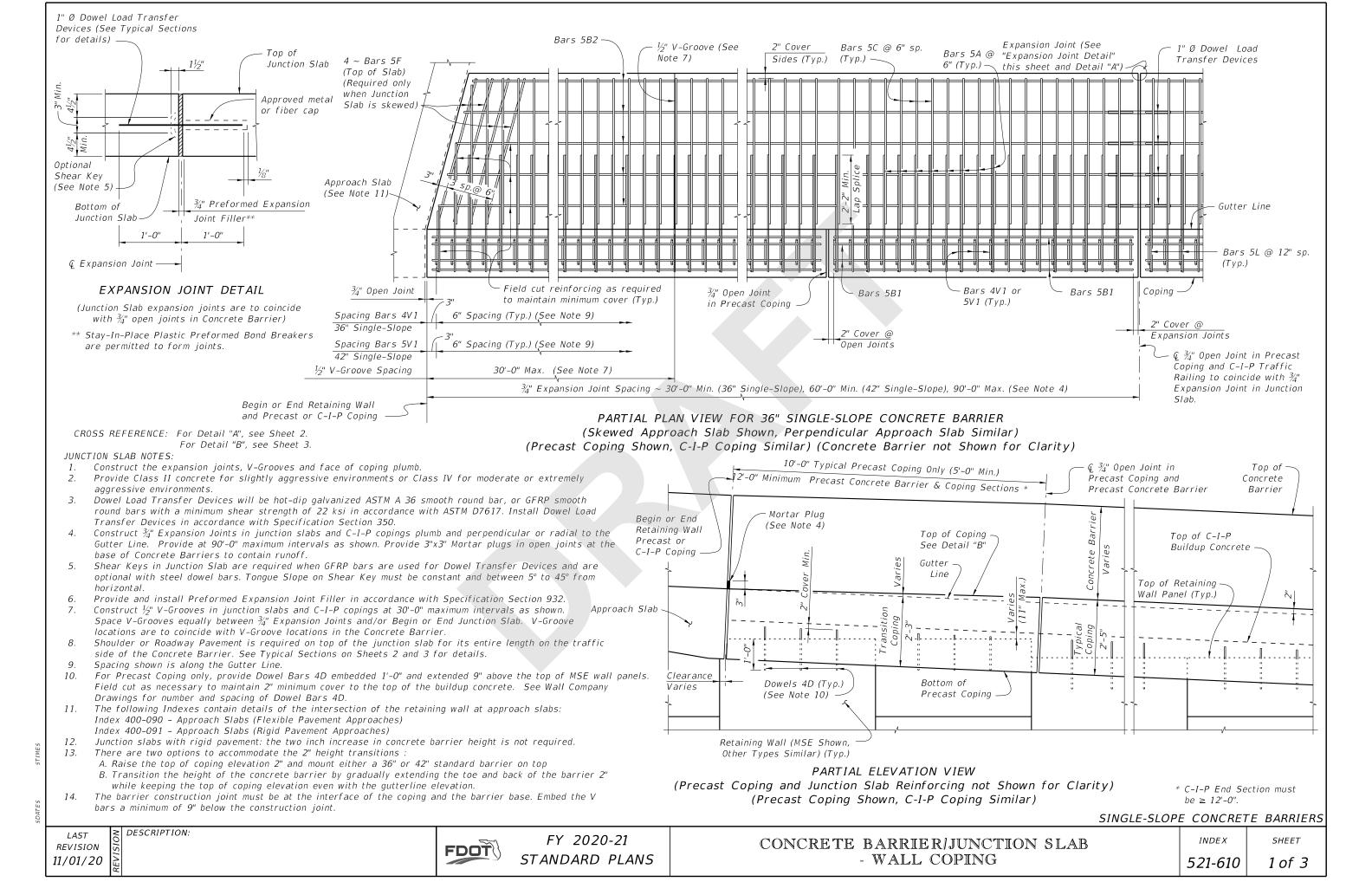
REVISIO∯ 11/01/19

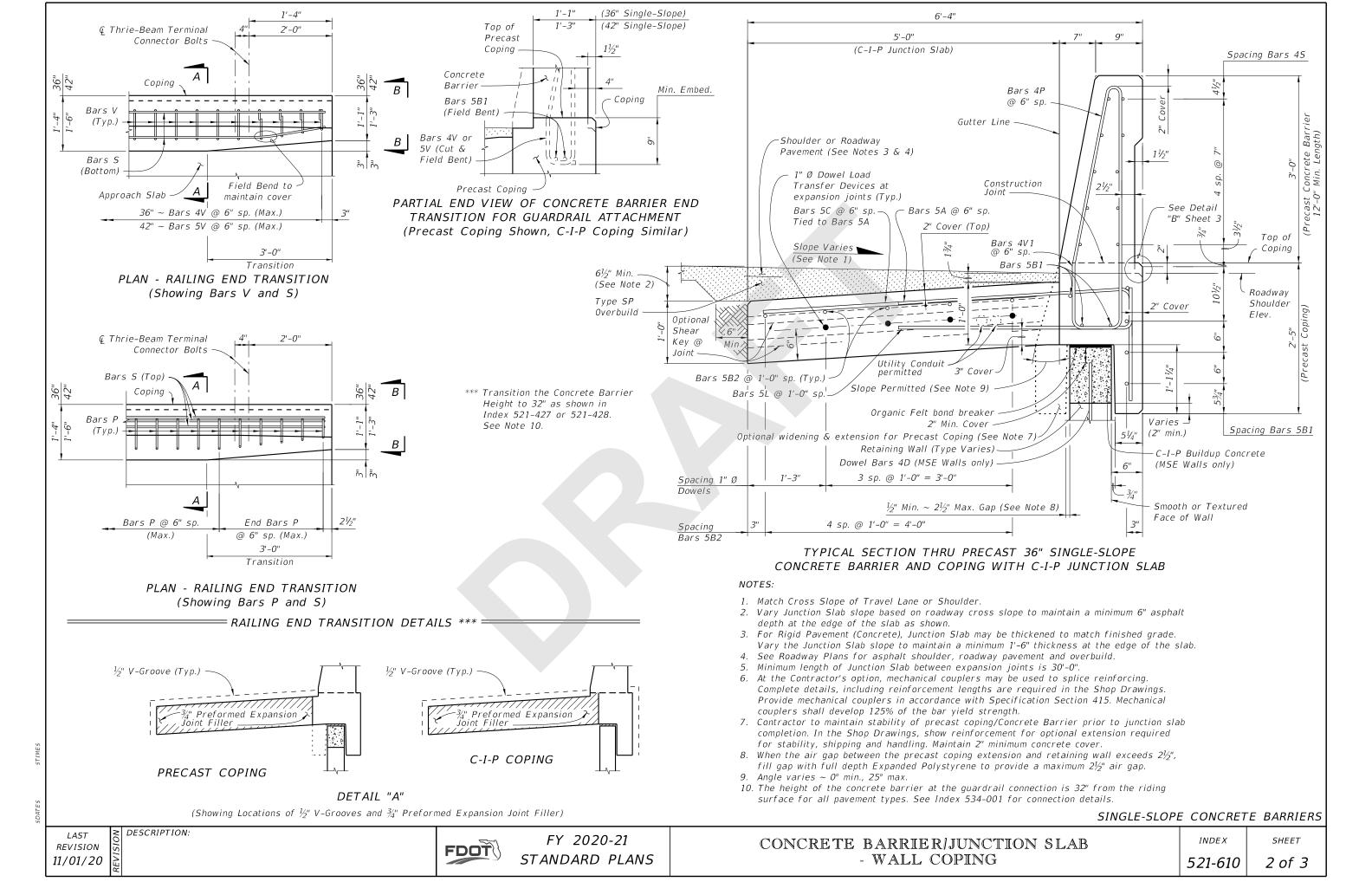


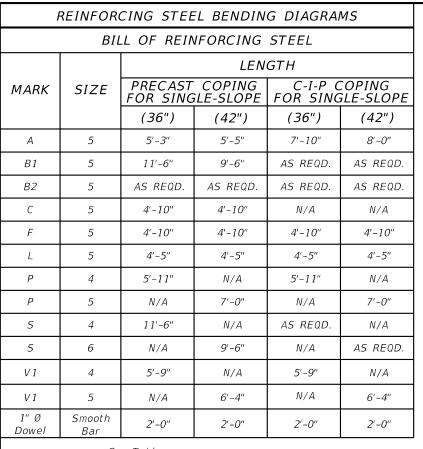
FY 2020-21 STANDARD PLANS

CONCRETE BARRIER/JUNCTION SLAB - WALL COPING

INDEX SHEET





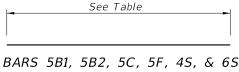


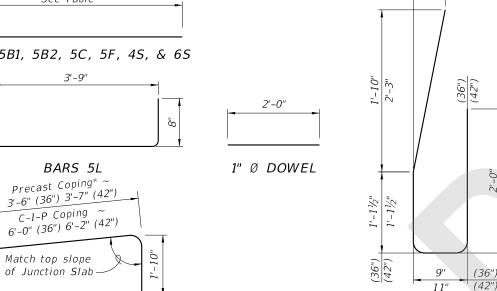
(36") (42") 3" (36") 41/4" (42") -Slope) Single-Single-91/2"

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

(36"), 4"

(42") 5"





REINFORCING STEEL NOTES:

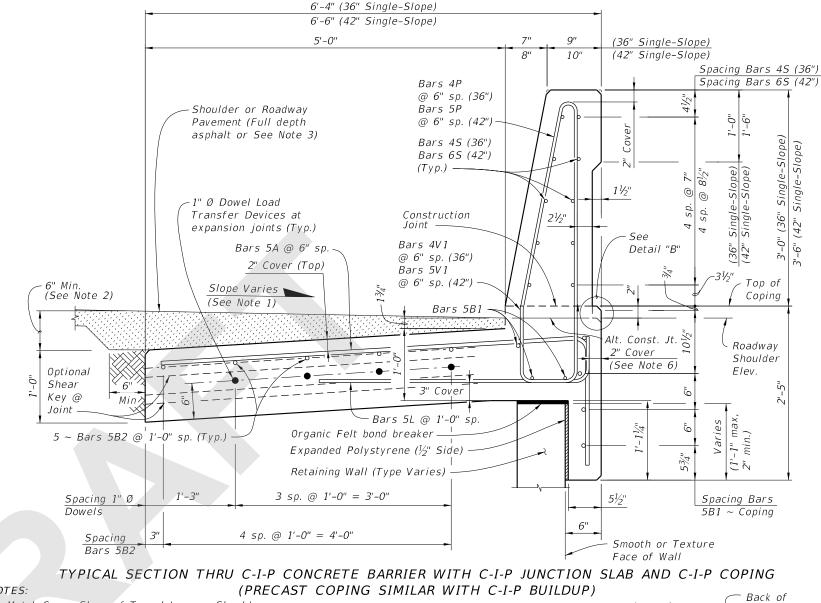
BAR 5A

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.

* See Note 5 & 6

- 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).
- 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.

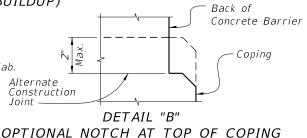


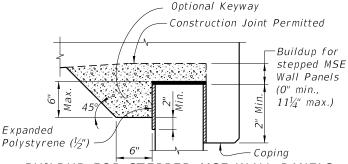
TYPICAL SECTION THRU C-I-P CONCRETE BARRIER WITH C-I-P JUNCTION SLAB AND C-I-P COPING

- 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.
- 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. 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%)





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

SINGLE-SLOPE CONCRETE BARRIERS

LAST **REVISION** 11/01/20



FY 2020-21 STANDARD PLANS

- WALL COPING

INDEX SHEET 521-610 3 of 3

STIRRUP BAR

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