GENERAL NOTES

CONCRETE: Concrete for the Traffic Railing (Vertical Face Retrofit) and replacement curb sections shall be Class IV. Concrete for Curb Transition Blocks shall be Class II (Bridge Deck).

REINFORCING STEEL: Reinforcing steel shall be ASTM A615, Grade 60, except Expansion Dowel Bar B which shall be ASTM A36 smooth round bar hot-dip galvanized in accordance with the Specifications.

EXPANSION SLEEVE ASSEMBLY: Pipe sleeve shall be ASTM D2241 PVC pipe, SDR13.5. End Cap shall be ASTM D2466 PVC socket fitting, Schedule 40. End of Sleeve assembly at railing open joint shall be sealed with silicone to prevent concrete intrusion during railing casting. A compressible expanded polystyrene plug is required in the opposite end of the assembly for correct dowel positioning during railing casting. Correct dowel positioning is required in order to provide for thermal movement of the deck.

ADHESIVE-BONDED ANCHORS AND DOWELS: Adhesive Bonding Material Systems for Anchors and Dowels shall comply with Specification Section 937 and be installed in accordance with Specification Section 416. The field testing proof loads required by Specification Section 416 shall be 23,800 lbs. for Dowel Bars 6D on the inside face (traffic side) of the railing (1'-0" embedment) and 18,500 lbs for Dowel Bars 6D along the outside face of the traffic railing (5" min. embedment).

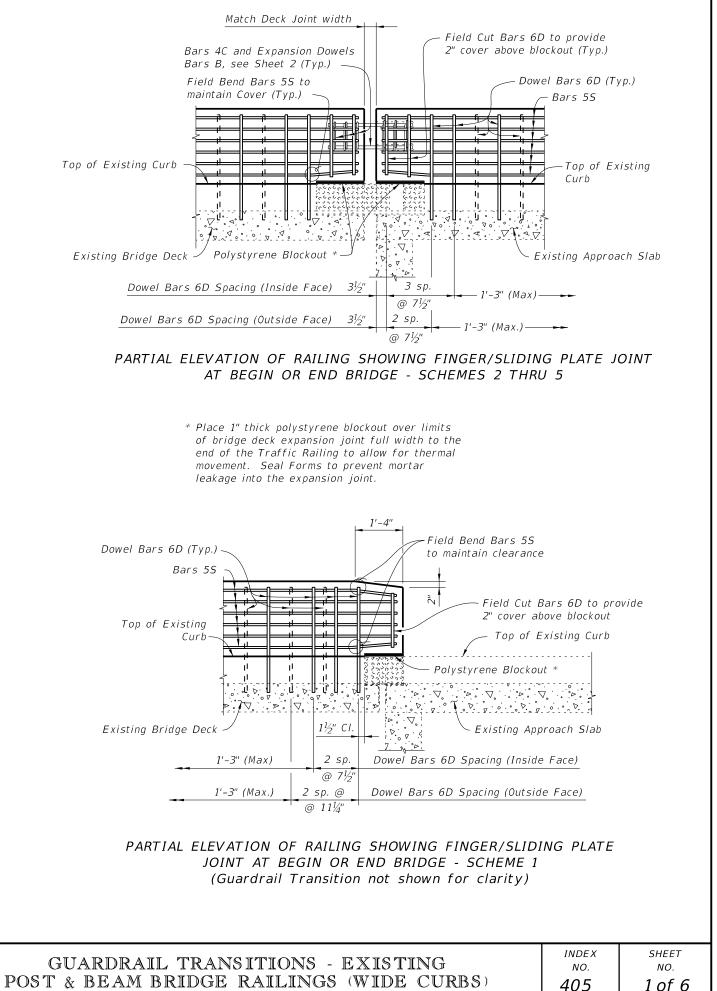
BRIDGES ON CURVED ALIGNMENTS: The details presented in these Standards are shown for bridges on tangent alignments. Details for bridges on horizontally curved alignments are similar.

BARRIER DELINEATORS: Barrier Delineators shall meet Specification Section 993. Install barrier delineators on top of the Traffic Railing along the entire length of bridge 2" from the face on the traffic side at the spacing shown in the table below. Barrier Delineator color (white or yellow) shall match the color of the near edgeline.

PAYMENT: Concrete Traffic Railing- Bridge Retrofit- Post & Beam Railing (each) includes all materials and labor required to demolish a portion of the existing structure where required and to construct the concrete portion of the retrofit railings. Guardrail Bridge Anchorage Assembly (each) includes all barrier delineators for the entire bridge length, transition blocks, and necessary hardware to complete the Guardrail transitions shown.

	Bars 4C and Expansion Dowels Bars B, see Sheet 2 (Typ.)
	Field Bend Bars 5S to maintain Cover (Typ.)
xisting Curb	

Polystyrene Blockout *-Existing Bridge Deck



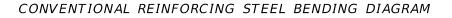
BARRIER DELINEATOR SPACING				
Distance – Edge of Travel Lane to Face of Railing	Spacing (Ft.)			
< 4'	40'			
4' to 8'	80'			
> than 8'	None Required			

ESTIMATED TRAFFIC RAILING QUANTITIES						
ITEM	UNIT	QUANTITY				
	UNIT	9" Curb	Increment			
Concrete	CY/FT	0.064	0.003 per in. height			
Reinforcing Steel	LB/FT	13.27	0.10 per in. length			

(Quantities are based on a 9" curb, no curb cross slope and 1'-0" embedment length of Bars 6D. If the curb height or embedment length differs from that shown, increase or decrease quantity by the given per inch increment.)

DESCRIPTION: LAST REVISION 07/01/13

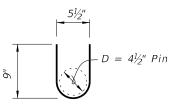
2015 FDOT DESIGN STANDARDS

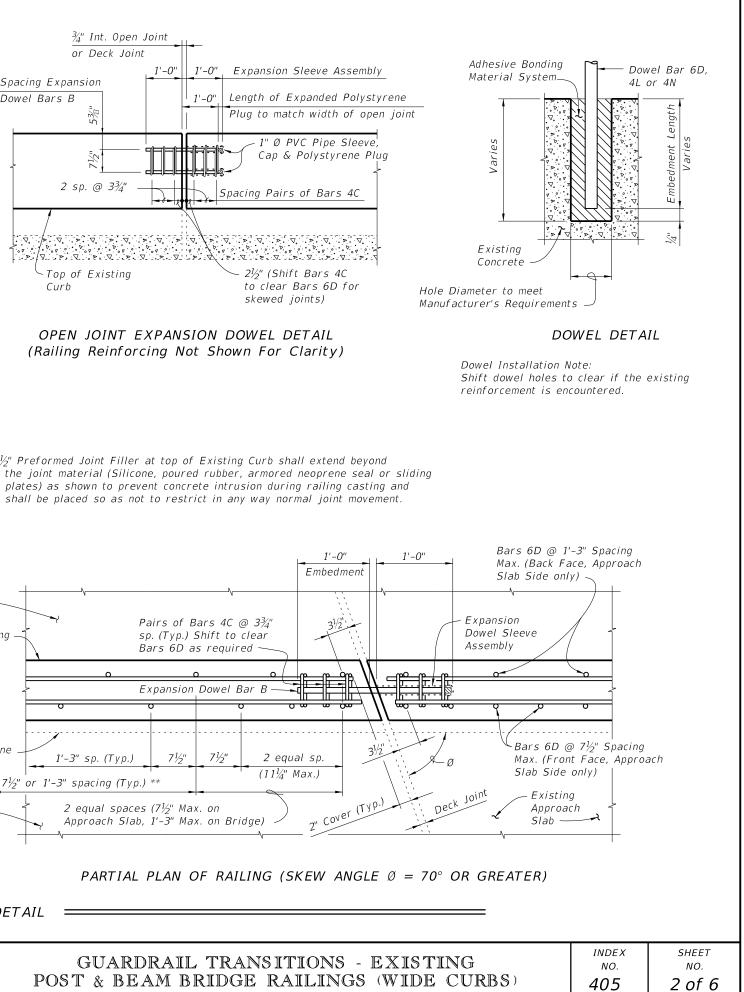


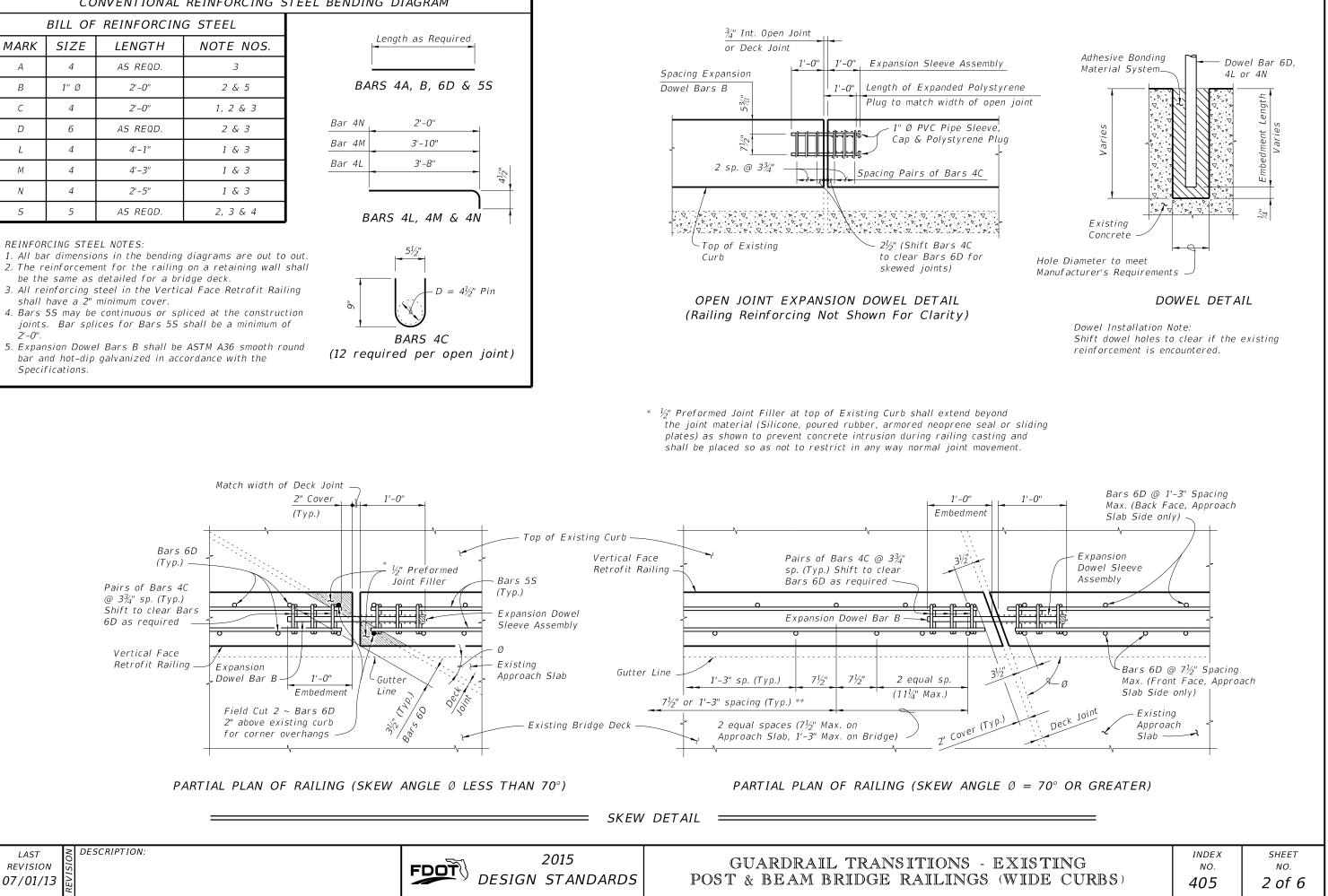
BILL OF REINFORCING STEEL

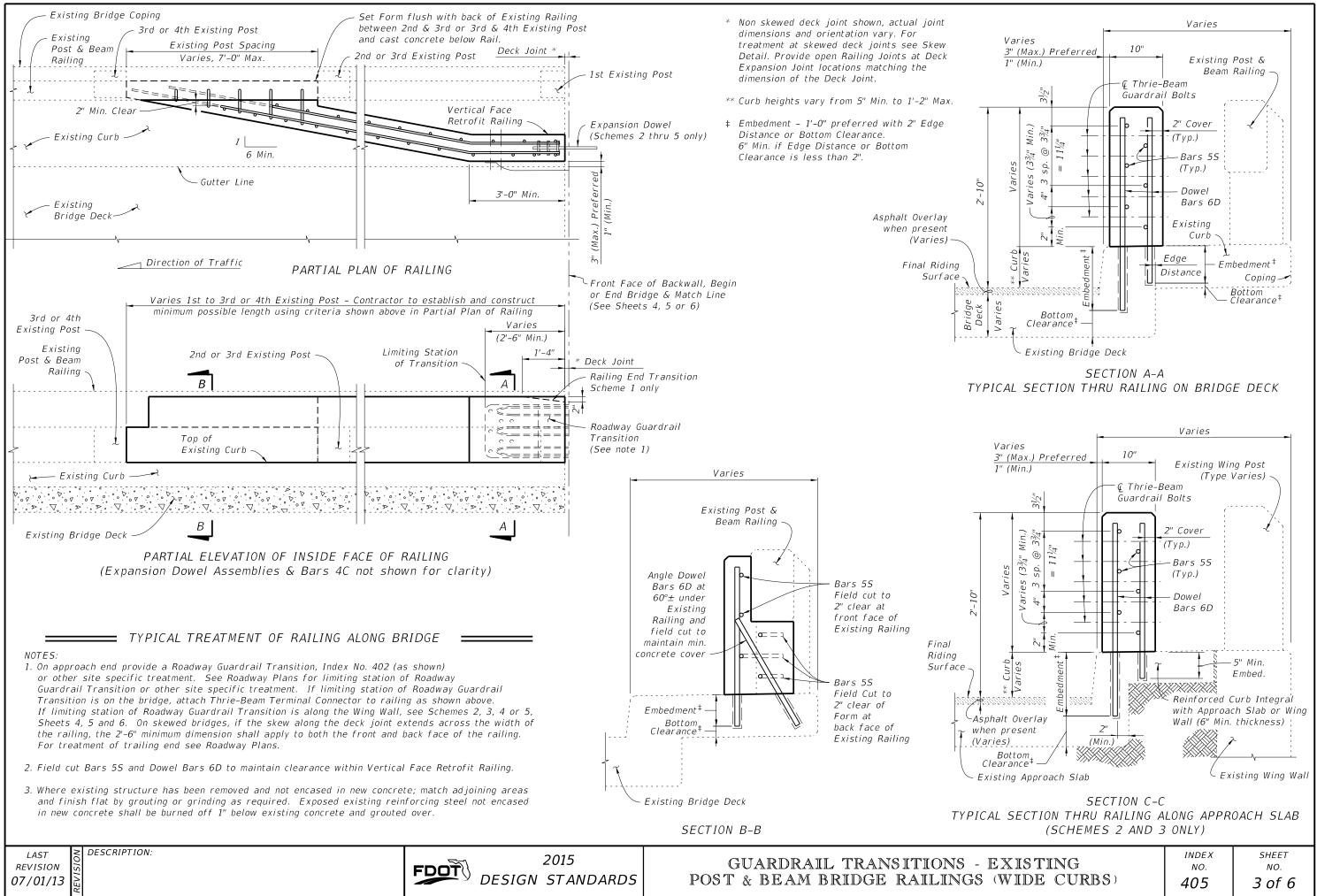
BILL OF REINFORCING STEEL					
MARK	SIZE	LENGTH NOTE NOS			
А	4	AS REQD.	3		
В	1" Ø	2'-0''	2 & 5		
С	4	2'-0''	1, 2 & 3		
D	6	AS REQD.	2 & 3		
L	4	4'-1''	1 & 3		
М	4	4'-3"	1 & 3		
N	4	2'-5"	1 & 3		
5	5	AS REQD.	2,3&4		

Length as Required BARS 4A, B, 6D & 5S Bar 4N 2'-0" 3'-10" Bar 4M

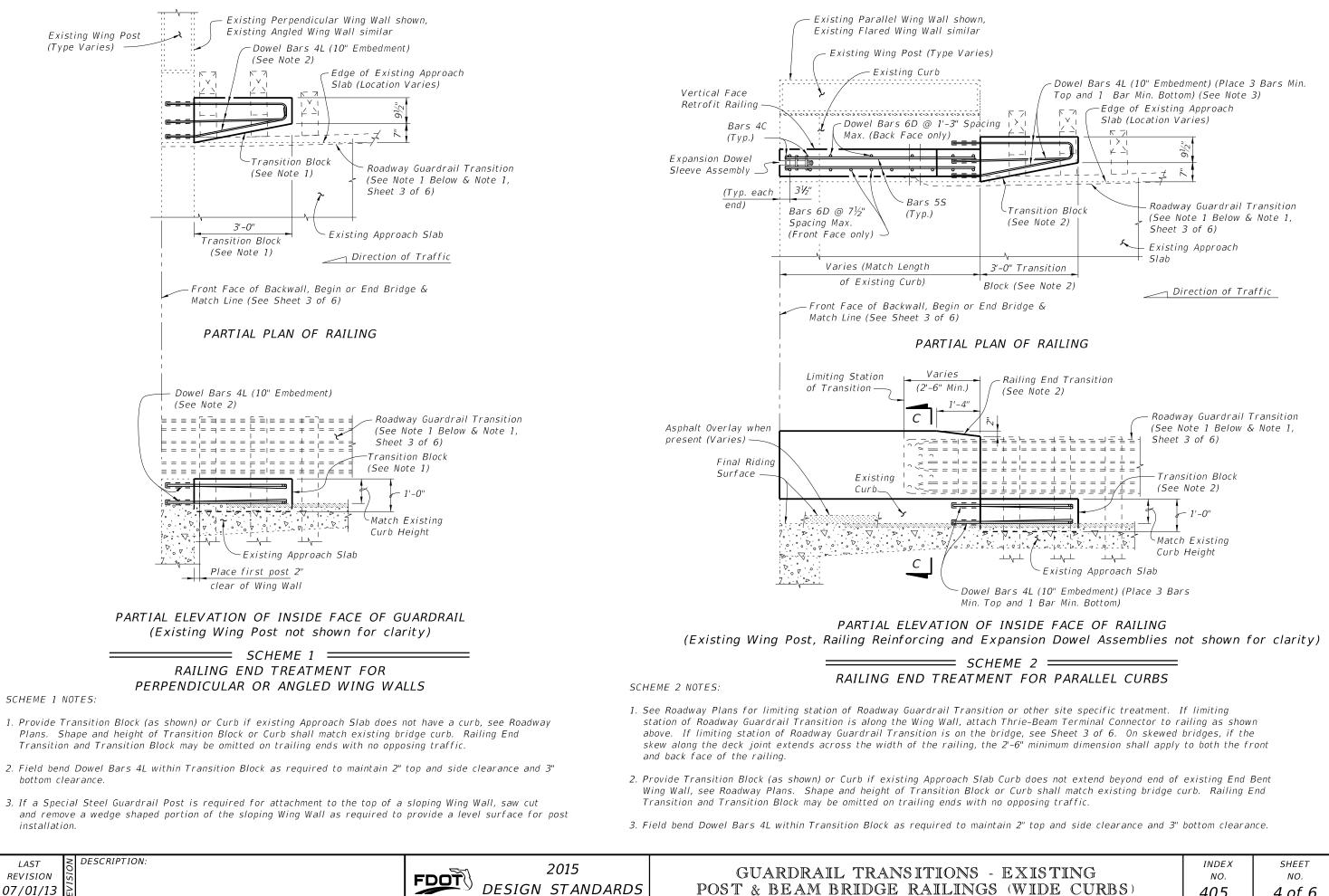




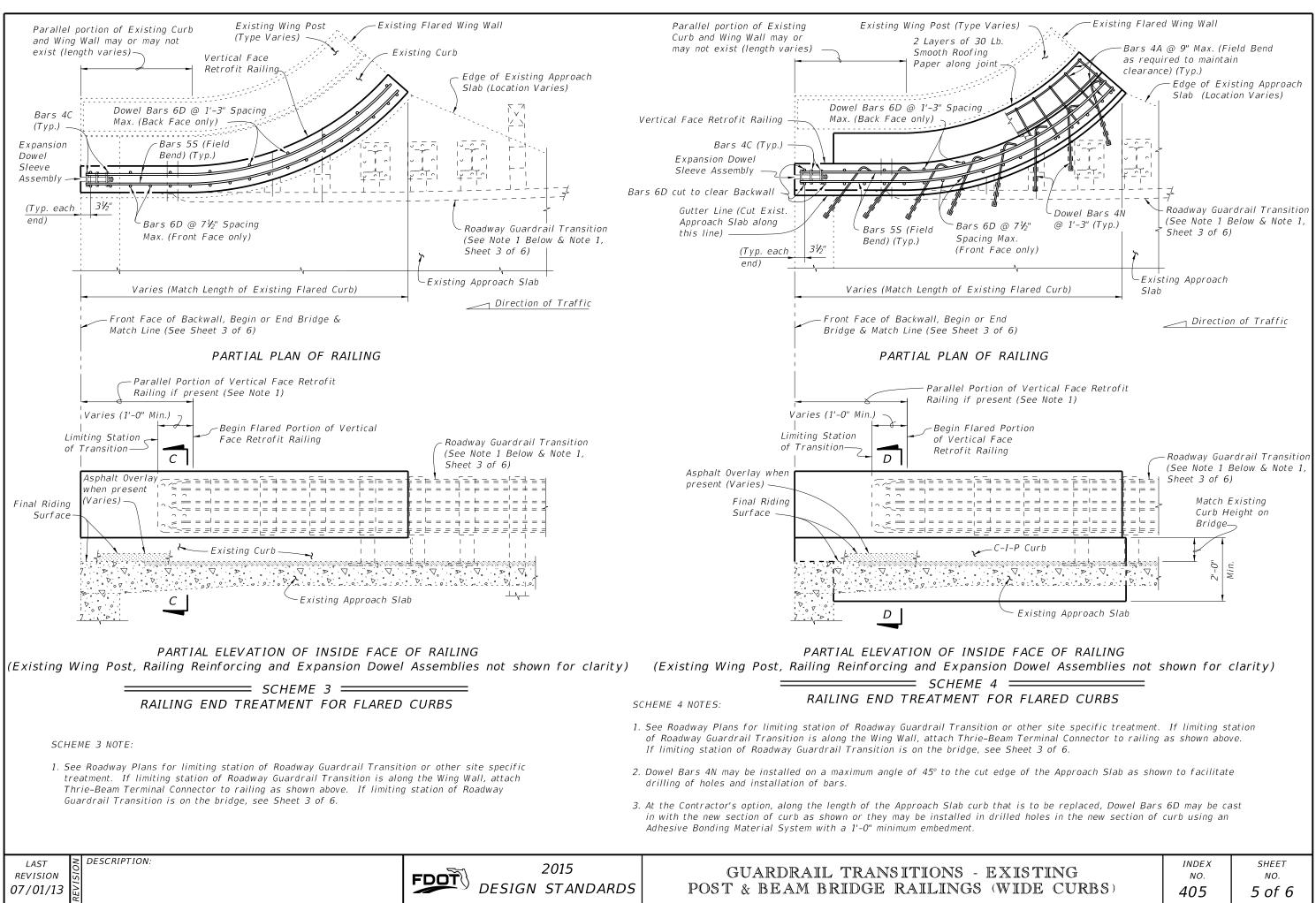




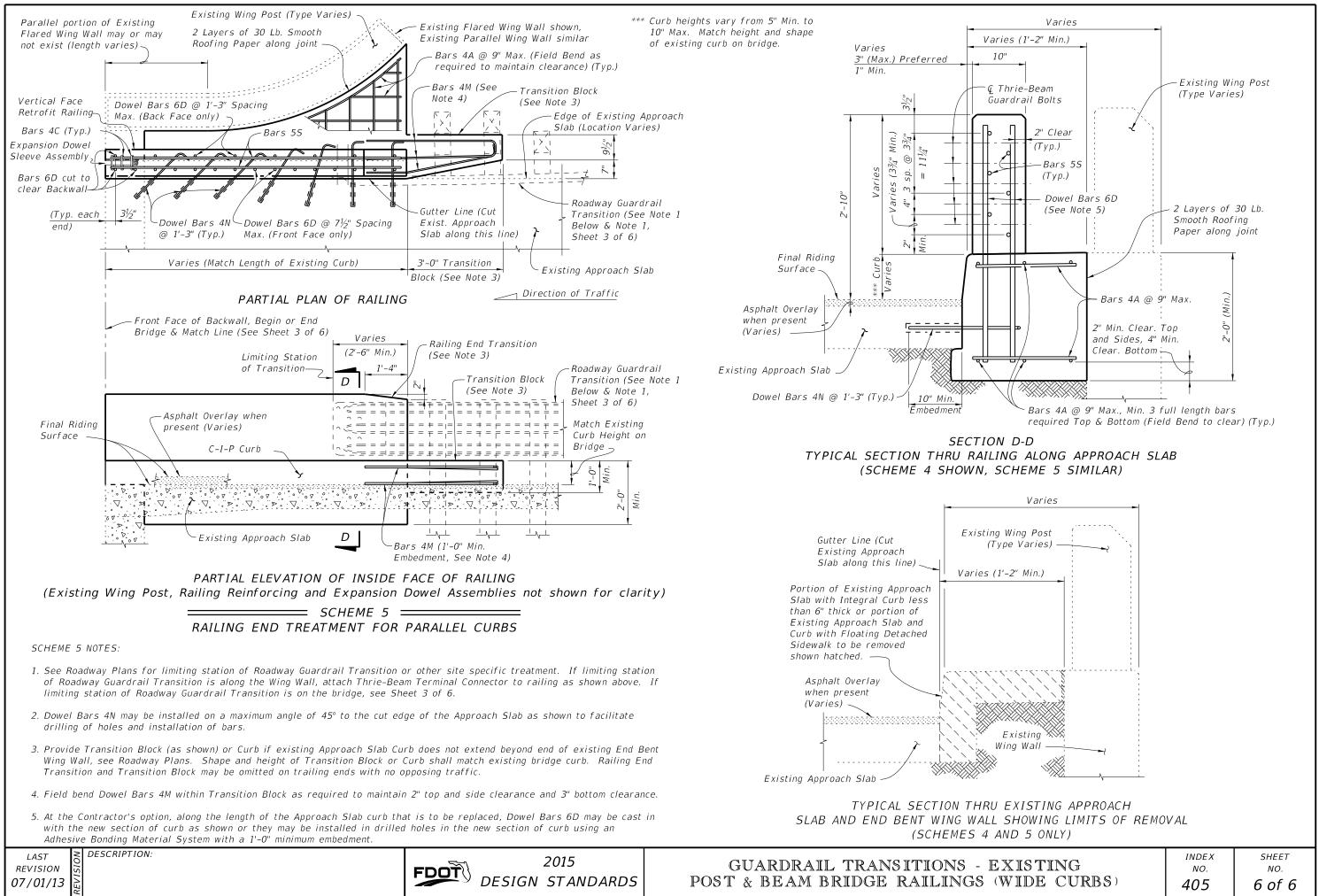
5/29/20



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