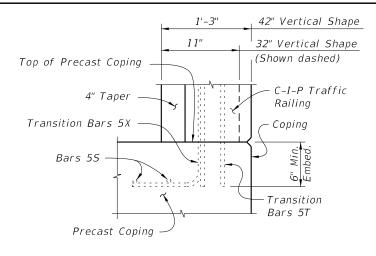


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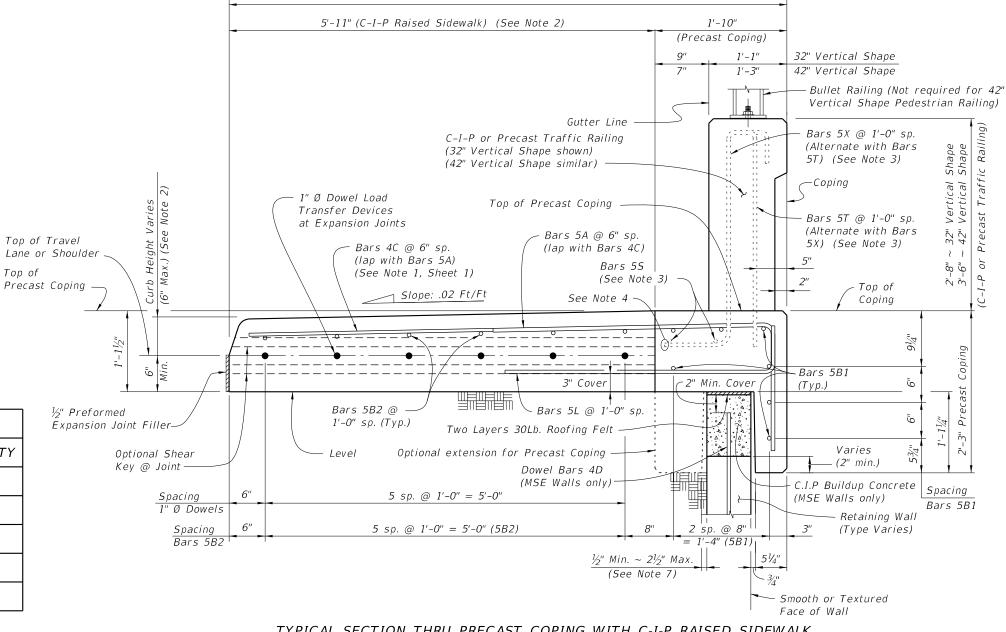


PARTIAL END VIEW OF TRAFFIC RAILING END TRANSITION FOR GUARDRAIL ATTACHMENT (Showing Bars 5S, Bars 5T and Bars 5X) (Precast Coping Shown, C-I-P Coping Similar)

NOTE: See Index No. 422 and Index No. 423, Railing End Detail for details.

ESTIMATED QUANTITIES FOR PRECAST COPING			
ITEM	UNIT	QUANTITY	
Concrete (Precast Coping)	CY/LF	0.095	
Concrete (C-I-P Raised Sidewalk)	CY/LF	0.232	
Reinforcing Steel (Precast Coping) excluding Bars 5T, 5X and 5S (Typ.)	LB/LF	23.90	
Reinforcing Steel (C-I-P Raised Sidewalk) (Typ.)	LB/LF	13.50	
Additional Reinf. @ Expansion Joints (Steel Dowels)	LB	32.04	

The above concrete quantities are based on a Type D Concrete Curb (See Note 2).

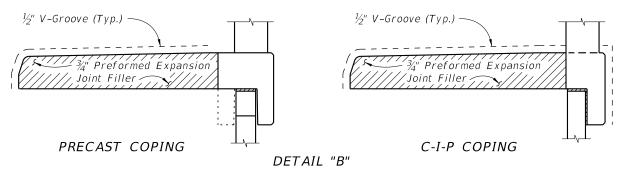


7'-9"

TYPICAL SECTION THRU PRECAST COPING WITH C-I-P RAISED SIDEWALK AND RETAINING WALL AT EXPANSION JOINTS

NOTES:

- 1. Actual width varies depending on type of Retaining Wall used.
- 2. Match roadway curb shape (Type) and height. See Roadway Plans and Index No. 300. 5'-11" dimension is based on a 32" Vertical Shape Traffic Railing with a Type D curb adjacent to a 6'-0" wide sidewalk. Adjust this dimension as required for other curb types or transitions at Begin or End Retaining Wall.
- 3. See Index No. 422 and Index No. 423 for Bars 5S, 5T & 5X and Bullet Railing details. Adjust vertical dimension of Bars 5T and 5X, see Reinforcing Steel Note 5.
- 4. Trim end of Bars 5T and 5X to clear construction joint for 42" Vertical Shape Traffic Railing.
- 5. At the Contractor's option, mechanical couplers may be used to splice reinforcing. Complete details, including reinforcement lengths are required in the Shop Drawings. Mechanical couplers shall develop 125% of the bar yield strength.
- 6. Contractor to maintain stability of precast coping prior to junction slab completion.
- 7. When the air gap between the precast coping extension and retaining wall exceeds $2\frac{1}{2}$ ", fill gap with full depth Expanded Polystyrene to provide a maximum 21/2" air gap.



(Showing Locations of $\frac{1}{2}$ " V-Grooves and $\frac{3}{4}$ " Preformed Expansion Joint Filler)

DESCRIPTION:

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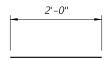
VERTICAL SHAPE TRAFFIC RAILINGS

Top of

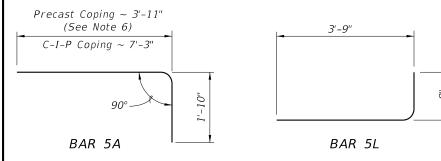
07/01/15

<u>5B1</u>	Precast Coping ~ 9'-6" Precast Traffic Railing/Coping ~ 11'-6"
5B2	Length as Required
4C	Precast Coping Option ~ 5'-5"
	(See Note 7)
5F	5'-0"

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



1" Ø DOWEL



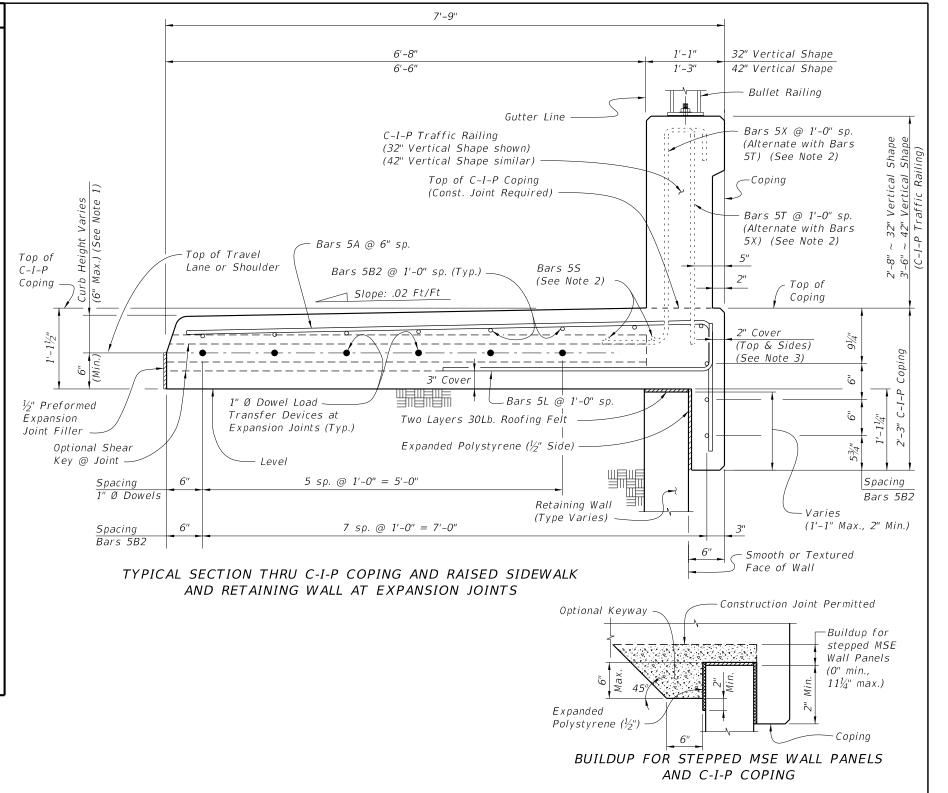
REINFORCING STEEL NOTES:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing steel at expansion joints will have a 2" minimum cover.
- 3. Lap splices for Bars 5B will be a minimum of 2'-0".
- 4. Lap splice Bars 5A with Bars 4C. Lap splices will be a minimum of 2'-0".
- 5. See Index No. 422 and Index No. 423 for Bars 5S, 5T and 5X. Adjust vertical dimensions of Stirrup Bars 5T and 5X to 3'-0" for 32" Vertical Shape or 3'-10" for 42" Vertical Shape.
- 6. Dimension shown is for lap splice option. For mechanical coupler option, this dimension
- 7. Dimension shown is for lap splice option. For mechanical coupler option, this dimension is 5'-8", and reinforcing size must be increased to #5 bars (Bars 5C).
- 8. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of deformed wire meeting the requirements of Specification Section 931.

ESTIMATED QUANTITIES FOR C-I-P COPING				
ITEM	UNIT	QUANTITY		
Concrete	CY/LF	0.326		
Reinforcing Steel (Typical) excluding Bars 5T, 5X and 5S (Typ.)	LB/LF	35.03		
Additional Reinf. @ Expansion Joints (Steel Dowels)	LB	32.04		

The above concrete quantities are based on a Type D Concrete Curb on a level Retaining Wall (See Note 1).

DESCRIPTION:



- 1. Match roadway curb shape (Type) and height. See Roadway Plans and Index No. 300. 6'-8" dimension is based on a 32" Vertical Shape Traffic Railing with a Type D curb adjacent to a 6'-0" wide sidewalk. Adjust this dimension as required for other curb types or transitions at Begin or End Retaining Wall.
- 2. See Index No. 422 and Index No. 423 for Bars 5S, 5T & 5X and Bullet Railing details. Adjust vertical dimension of Bars 5T and 5X, see Reinforcing Steel Note 5.
- 3. If slip forming is used, submit shop drawings for approval showing 3" side cover with the Typical Section dimensions adjusted.

VERTICAL SHAPE TRAFFIC RAILINGS

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