



GENERAL NOTES

- (A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE AND ALL PRECAST 15" CONCRETE ENDWALLS (TYPE "U") FOR CROSS DRAINS ONLY. "U" ENDWALL TO BE PLACED AT 90° SKEW TO CENTERLINE. SEE STD. DWG. D-PE-99 FOR SKEWED CONNECTION DETAIL WHEN CROSS DRAIN IS NOT PERPENDICULAR TO CENTERLINE. CAST-IN-PLACE CONCRETE ENDWALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS.
- (B) SEE STD. DWG. D-PE-15B FOR BILL OF STEEL & PRECAST NOTES.
- (C) "-" IN BAR DESIGNATION REPRESENTS 3, 4 OR 6 FOR 3:1, 4:1 OR 6:1 SLOPES, RESPECTIVELY.
- (D) SPLICING OF REINFORCEMENT IS ACCEPTABLE PROVIDED THAT A MINIMUM 21" SPLICE LENGTH IS USED.
- (E) TOEWALL BACK SLOPE MAY BE CONSTRUCTED VARIABLE FROM VERTICAL UP TO 15°.
- (F) OPTIONAL STEPPED HOLE IS ALLOWED PROVIDED THE AMOUNT OF COVER BETWEEN THE PIPE OPENING AND BARS A701 AND A702 IS THE SAME OR GREATER THAN SHOWN ON THIS DRAWING.
- (G) PAYMENT WILL BE MADE UNDER:
  - 611-07.51 15IN ENDWALL (CROSS DRAIN) 3:1 EACH
  - 611-07.52 15IN ENDWALL (CROSS DRAIN) 4:1 EACH
  - 611-07.53 15IN ENDWALL (CROSS DRAIN) 6:1 EACH
- (H) THE CONTRACTOR MAY ELECT TO SUBSTITUTE AN APPROVED ALTERNATIVE DESIGN.
- (I) DIMENSIONAL AND REINFORCING TOLERANCES WILL BE AS SHOWN IN STANDARD OPERATING PROCEDURE (SOP) 5-3.

MINOR REVISION -- FHWA  
APPROVAL NOT REQUIRED.

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 15" PIPE						
SLOPE	CONCRETE ENDWALL DIMENSIONS				ESTIMATED QUANTITIES	
					CLASS "A" CONC. CU. YD.	STEEL BAR REINF. LB.
3:1	2' - 11"	6' - 0"	6' - 3 7/8"	2' - 8"	0.72	68
4:1		8' - 0"	8' - 3"		0.89	85
6:1		11' - 2"	11' - 3 7/8"		1.21	117

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

15"  
CONCRETE ENDWALL  
CROSS DRAIN  
(FOR 3:1, 4:1 & 6:1 SLOPES)

NOT TO SCALE

3-01-12

D-PE-15A