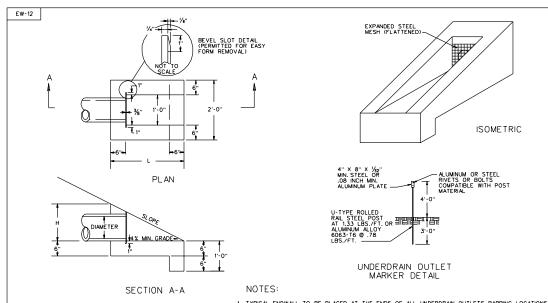
DESION FEATURES RELATING TO CONSTRUCTI OR TO REGULATION AND CONTROL OF TRAFFI MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

RUCTION RAFFIC ED	REVISED	STATE	FEDERAL AID	STATE		SHEET NO.
			PROJECT	ROUTE	PROJECT	SPEEL MU.
		VA.				



	PIPE I.D.	SLOPE	DIMEN	CLASS A3 CONCRETE	
			L	Н	CUBIC YARDS
	4"	2:1	2'-51/2"	1'-2 1/4"	0.17
	4"	4:1	4'-5"	1'-1'/4"	0.28
	6"	2:1	2'-101/2''	1'-51/4"	0.21
	CII	4.4	E1 711	11 - 73/ 11	0.35

- 1. TYPICAL ENDWALL TO BE PLACED AT THE ENDS OF ALL UNDERDRAIN OUTLETS, BARRING LOCATIONS WHERE UNDERDRAIN IS TIED INTO OTHER DRAINAGE STRUCTURES. ENDWALL TO BE INSTALLED PERFENDICULAR TO ROADWAY AND FLUSH WITH THE SLOPE.
- 2. OUTLET PIPES SHALL BE RIGID NONPERFORATED, SMOOTH-BORE PIPE, MEETING THE REQUIREMENTS OF 70 PSITESTED ACCORDING TO ASTM 2412.
- 3. EXPANDED STEEL MESH (FLATTENED) SHALL HAVE OPENINGS OF APPROX. 1/2" X 1" AND WEIGH APPROX. 0.82 LBS. PER SO, FT. MESH SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-123. THE MESH SHALL EXTEND A MINIMUM OF T" ABOVE THE O.D. OF THE PIPE, AND IS A BARRIER FOR RODENTS, ETC. THE SLOT FOR THE STEEL MESH IS TO BE CONSTRUCTED SO THAT THE MESH CAN BE REMOVED FOR CLEANOUT PURPOSES.
- 4. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
- 5. STEEL POSTS AND PLATES TO BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE ROAD AND BRIDGE SPECIFICATIONS. IF PAINTED THE FINAL COAT SHALL BE NO. 13 ALUMINUM PAINT OR NO. 11 WHITE PAINT.
- 6. MARKER TO BE PLACED AT ALL EW-12 UNDERDRAIN INSTALLATIONS.

7. MARKER WILL BE PAID FOR IN ACCORDANCE WITH SECTION 501 OF THE ROAD AND BRIDGE SPECIFICATIONS.

REV. 7/04

101.32

STANDARD ENDWALL FOR PIPE UNDERDRAIN	SPECIFICATION REFERENCE			
STANDARD ENDWALL FOR THE UNDERDRAIN	105			
VIRGINIA DEPARTMENT OF TRANSPORTATION				
	501			

REV. 7/04
SPECIAL DESIGN SECTION
DRAWING NO. 4-57

		DIVAMING NO. A-37			
PLAN NO.	PROJECT	FILE NO.	SHEET NO.		