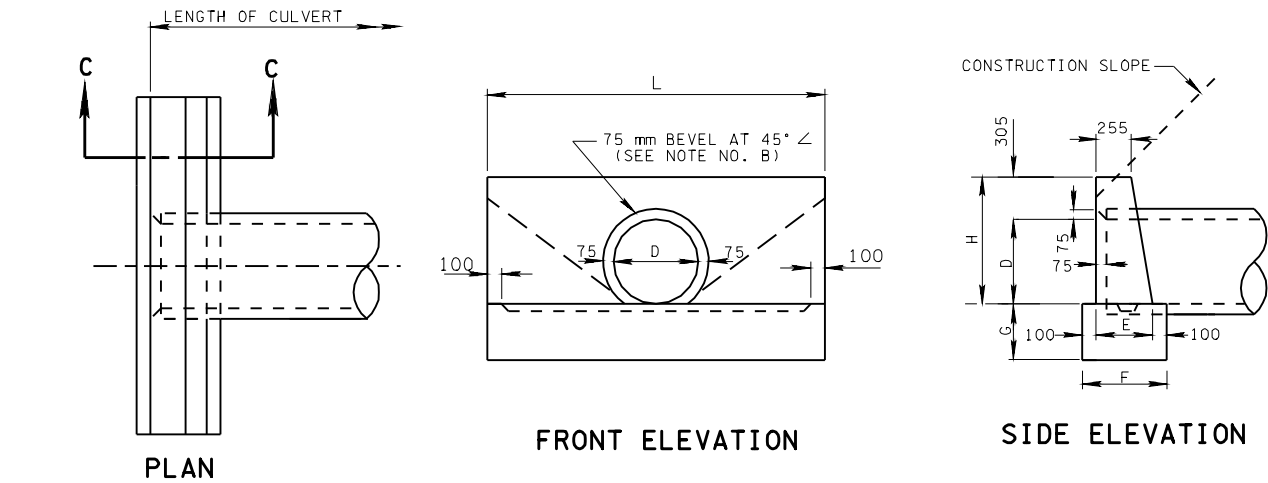
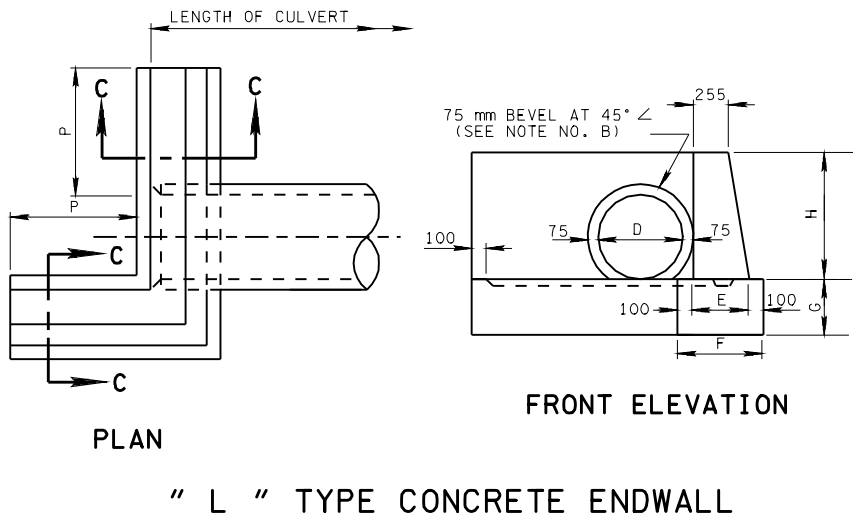


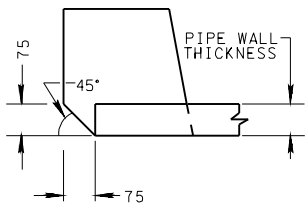


STRAIGHT TYPE CONCRETE ENDWALL

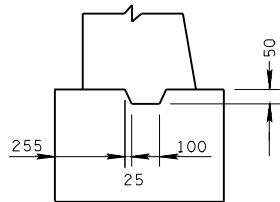


ESTIMATED QUANTITIES FOR ONE " L " TYPE CONCRETE ENDWALL		
DIAMETER	P	CONC. m ³
457	685	0.98
610	915	1.46
762	1145	2.22

NOTE: DIMENSIONS NOT SHOWN ARE SAME AS FOR STRAIGHT ENDWALL.

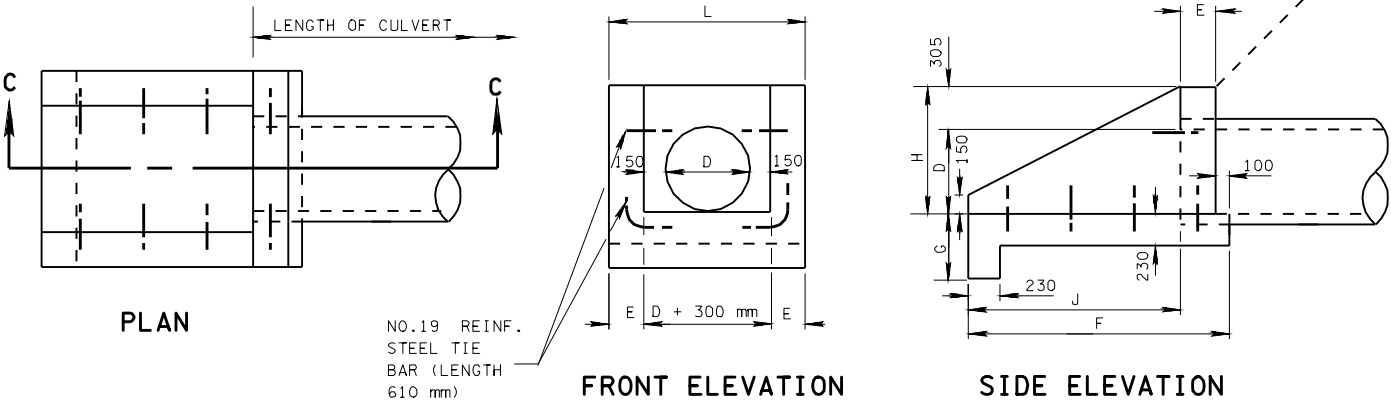


DETAIL OF BEVEL



SECTION C- C
SHOWING CONSTRUCTION JOINT

- GENERAL NOTES**
- (A) CONCRETE ENDWALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATION, SECTION 611, AND/OR SPECIAL PROVISIONS.
 - (B) ALL STRAIGHT AND " L " TYPE CONCRETE ENDWALLS ON INLET END OF PIPE, AND AT 90° SKEW SHALL BE BEVELED AT 75 mm AT 45° ANGLE. BEVEL WILL NOT BE REQUIRED WHEN ENDWALL IS CONSTRUCTED ON THE " BELLED " END OF CONCRETE PIPE.
 - (C) WHEN MORE THAN ONE LINE OF PIPE IS REQUIRED THE DISTANCE FROM CENTER TO CENTER OF PIPE SHALL BE D + 300 mm.
 - (D) PAYMENT FOR ENDWALLS WILL BE MADE FOLLOWS:
ITEM 611M07.01, CLASS "A" CONCRETE (PIPE ENDWALLS)----CUBIC METER.
ITEM 611M07.02, STEEL BAR REINFORCING (PIPE ENDWALLS)----KILOGRAM.



" U " TYPE CONCRETE ENDWALL

TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES FOR ONE " U " TYPE CONCRETE ENDWALL (SLOPE 1.5:1 & 2:1)													
DIMENSIONS								CONC. IN ONE ENDWALL			m³ FOR EACH ADDITIONAL LINE OF PIPE	m³ PER METER OF LENGTH "L"	REINF STEEL kg
OPENING		WALL			FOOTING			m³	m³	m³			
D (mm)	AREA (m²)	L	H	E	J	F	G	WALL	FOOTING	TOTAL			
457	0.164	1217	762	230	1220	1550	380	0.47	0.47	0.94	0.424	0.564	9
610	0.292	1420	915	255	1525	1880	455	0.66	0.69	1.35	0.557	0.690	9
762	0.456	1572	1067	255	1830	2185	455	0.86	0.87	1.73	0.762	0.823	9

NOTE : USE " U " TYPE ENDWALL SHOWN ON STANDARD DRAWINGS DM-PE-3B (FOR 3:1 SLOPES), DM-PE-4B (FOR 4:1 SLOPES) AND DM-PE-6B (FOR 6:1 SLOPE) WITHOUT GRATES OUTSIDE THE CLEAR ZONE.



ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STRAIGHT, " L " & " U " TYPE CONCRETE ENDWALL