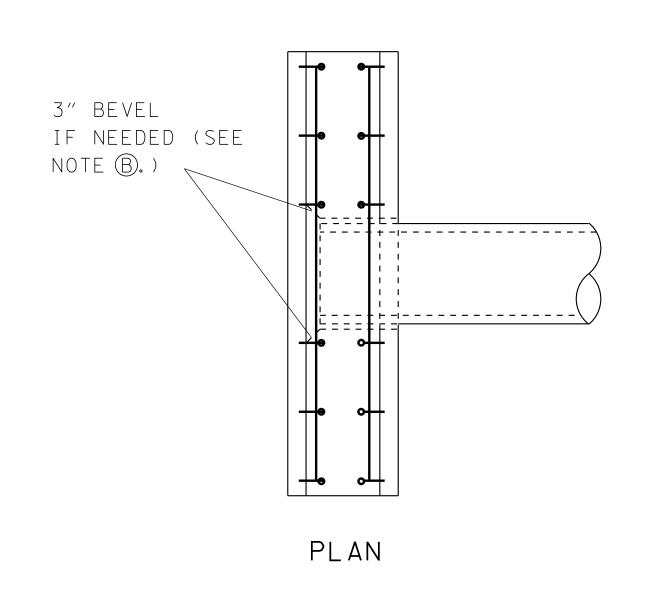
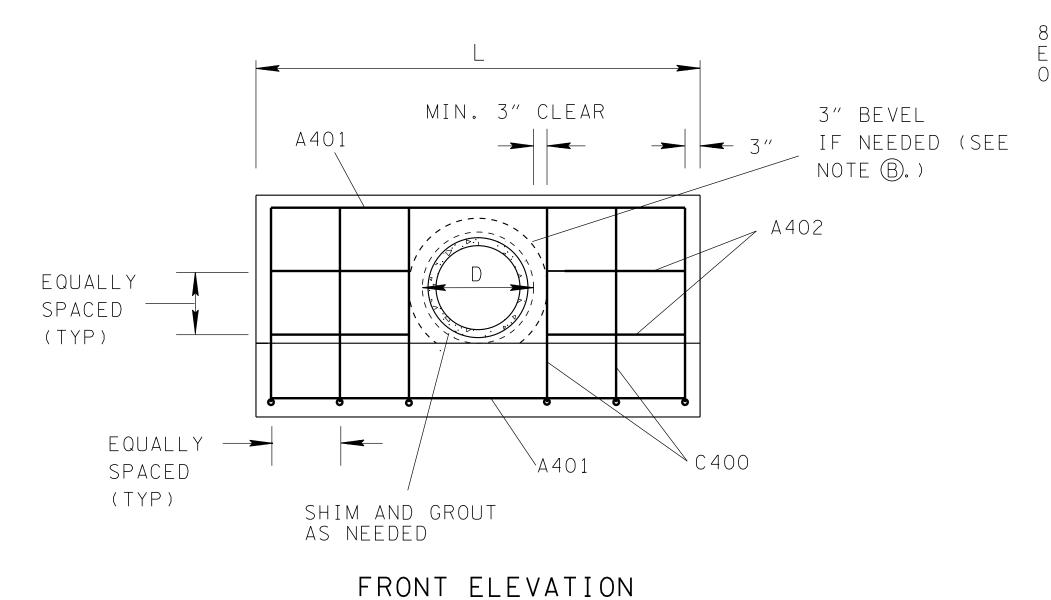
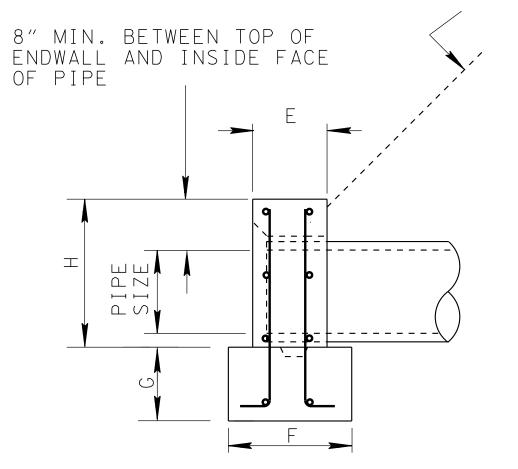
## STRAIGHT TYPE CONCRETE ENDWALL



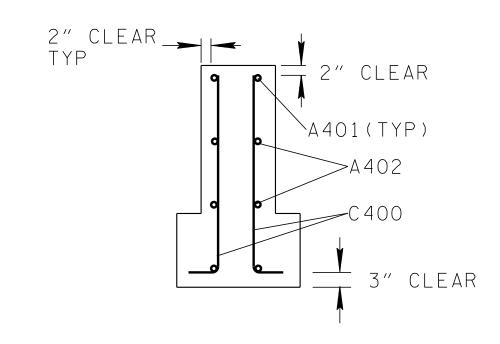


VIEW



FILL SLOPE

SIDE ELEVATION VIEW



REINFORCEMENT DETAILS

R	E I NF ORC I NG	STEEL	LEGEND	
a	A400	b	а	C400

DIMENSIONS AND ESTIMATED QUANTITIES										
FOR STRAIGHT CONCRETE ENDWALL										
PIPE SIZE	HOLE SIZE	WALL			F00 <sup>-</sup>	ΓING	CONC.	REINF. STEEL		
	D	L	Н	E	F	G	С.Ү.	LB		
18"	26"	6′-0″	2′-8″	1'-3"	2′-1″	1'-3"	1.0	45		
24"	33"	8′-0″	3′-3″	1 ′ - 4 ′′	2'-2"	1 ′ - 4 ′′	1.5	70		
30"	40″	10′-0″	3′-10″	1′-6″	2′-4″	1′-6″	2.0	93		

## GENERAL NOTES

- (A) CONCRETE ENDWALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD CONSTRUCTION SPECIFICATIONS, SECTION 611, AND/OR SPECIAL PROVISIONS.
- (B) ALL STRAIGHT CONCRETE ENDWALLS ON THE INLET END OF THE PIPE AND AT 90° SKEW SHALL BE BEVELED AT 3" WITH A 45° ANGLE. BEVEL WILL NOT BE REQUIRED WHEN ENDWALL IS CONSTRUCTED ON THE "BELLED "END OF CONCRETE PIPE.
- © ENDWALL MAY BE MODIFIED TO ACCOMMODATE MULTIPLE PIPES WHEN MORE THAN ONE PIPE IS PROPOSED, THE DISTANCE FROM CENTER TO CENTER OF PIPE SHALL BE D + 1'-0".
- (D) PAYMENT FOR ENDWALLS WILL BE MADE AS FOLLOWS:
  - ITEM 611-07.01 CLASS "A" CONCRETE (PIPE ENDWALLS) PER CUBIC YARD. ITEM 611-07.02 STEEL BAR REINFORCING (PIPE ENDWALLS) PER POUND.
- (E) SEE SECTION 6.04.3.3 IN THE TDOT ROADWAY DRAINAGE MANUAL FOR RIPRAP APRON REQUIREMENT.
- (F) PRECASTING IS ALLOWED.
- G PIPE OPENING TO BE BASED ON TYPE "B" WALL THICKNESS (AASHTO M170).
- (H) PIPE ENDWALLS FOR SLOPES STEEPER THAN 3:1 (PREVIOUSLY TYPE "U") WILL NOW USE TYPE "B" SEE D-PE-9.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

REV. 9-28-83: REDREW AND ADDED TABLE FOR STRAIGHT ENDWALL WHEN

REV. 2-19-88: ADDED SAFETY ADJUSTMENTS " U "

☐ REV. 1-19-94 : REDREW

DRAWING. ELIMINATED

TYPE " U " ENDWALL FOR

TABLE FOR SKEWED PIPE.

PIPE IS SKEWED.

TYPE ENDWALL.

AND REORGANIZED

■ REV. 1-19-97: ADDED UNITS TO HEADING FOR

REV. 6-1-09: ADDED GENERAL NOTE (D.

REV. 7-19-10: REMOVED GENERAL NOTE (D).

REINFORCEMENT AND CHANGED

NOTES. ADDED BILL OF STEEL, REMOVED "U" AND "L" TYPE ENDWALL.

☐ REV. 12-1-14: REVISED

BAR DESIGNATION MINOR EDITING.

REV. 4-23-15: REVISED DIMENSIONS AND ESTIMATED QUANTITIES FOR STRAIGHT CONCRETE ENDWALL.

☐ REV. 2-3-16: REVISED

VIEW.

STEEL.

FRONT AND SIDE ELEVATION

REV. 10-10-16: REVISED 'H' DIMENSIONS IN TABLE

AND REVISED BILL OF

☐ REV. 1-15-13: ADDED

3:1 SLOPE.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STRAIGHT CONCRETE ENDWALL

3-1-94

D-PE-4

					Е	BILL C	F STE	EL				
	18" PIPE				24" PIPE				30" PIPE			
BAR	а	Ь	LENGTH	NUMBER	а	Ь	LENGTH	NUMBER	а	Ь	LENGTH	NUMBER
A401	66	0	66	4	90	0	90	4	114	0	114	4
C400	42	6	48	8	50	6	56	12	59	6	65	12
A402	18.5	0	18.5	8	27	0	27	8	35.5	0	35.5	12
	TOTAL 796 in LB 45			TOTAL LB	1248 i 70	n		TOTAL LB	1662 93	in		