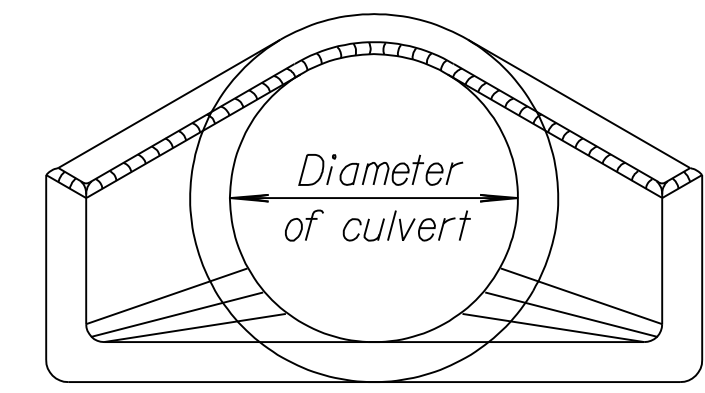
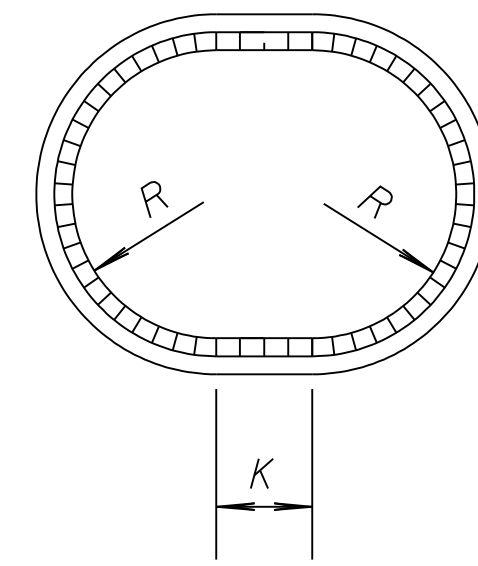
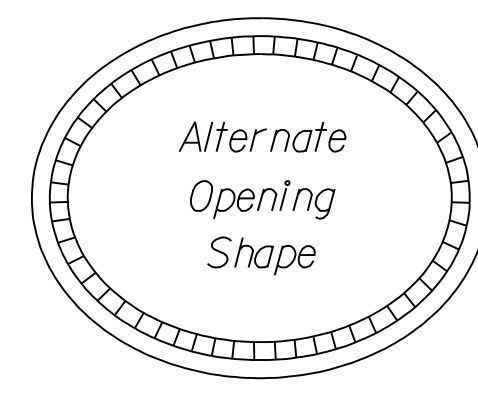


STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0386-01	2009	98	255

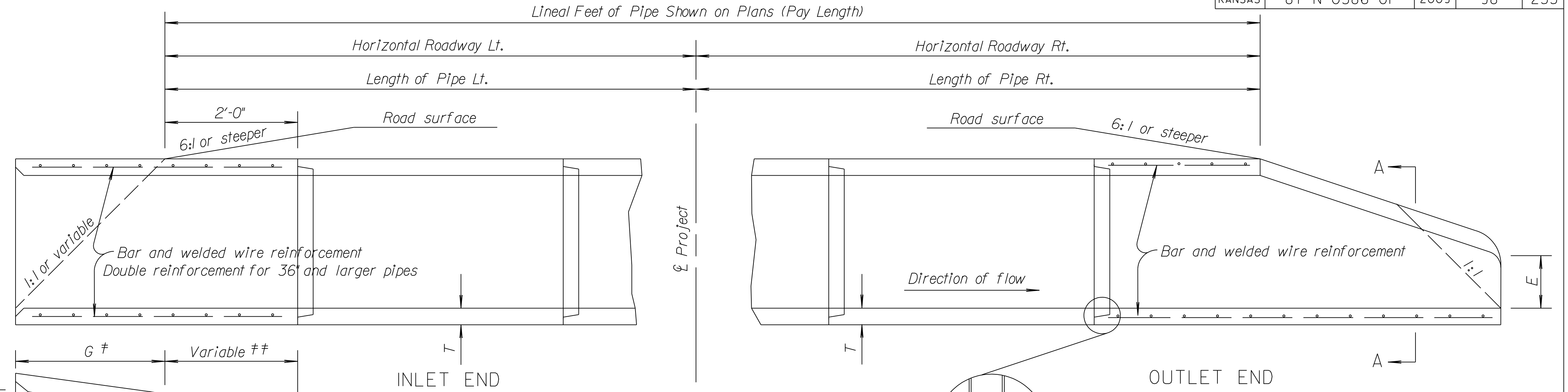


END ELEVATION (TYPE I)

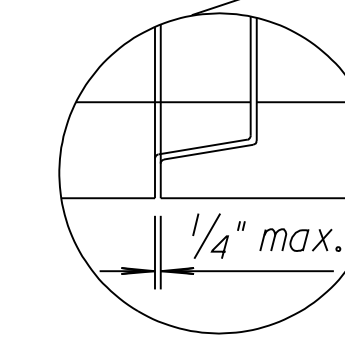


SECTION A-A
Showing rounding of inside edge of end section.

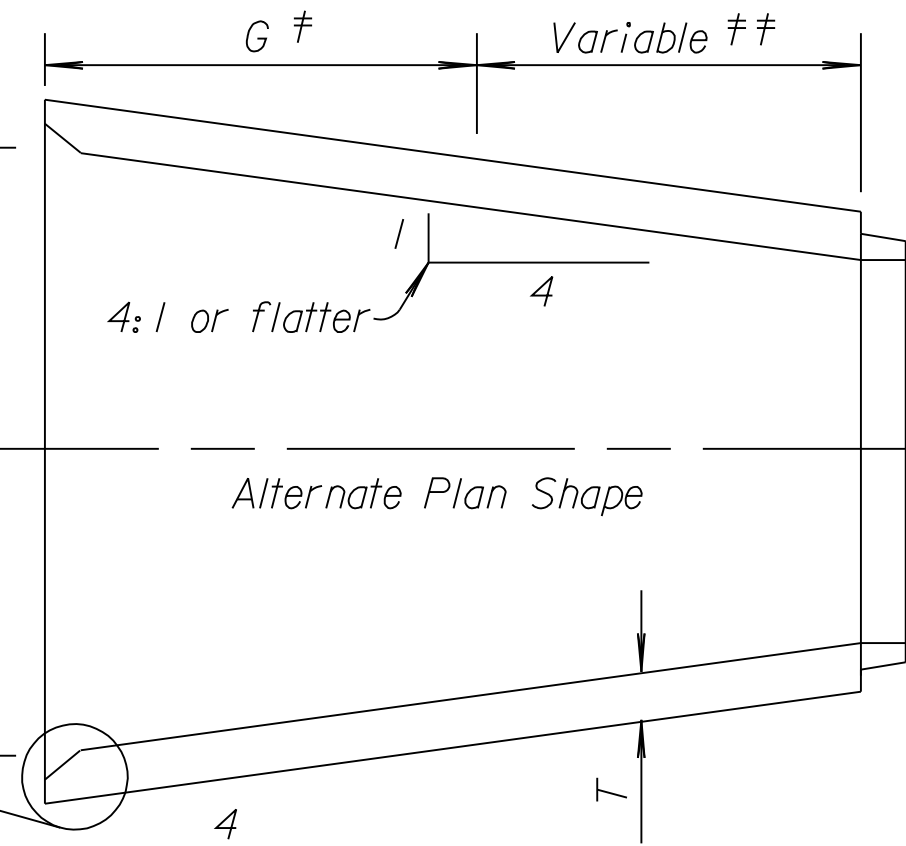
END ELEVATION (TYPE III)



ELEVATION SECTION

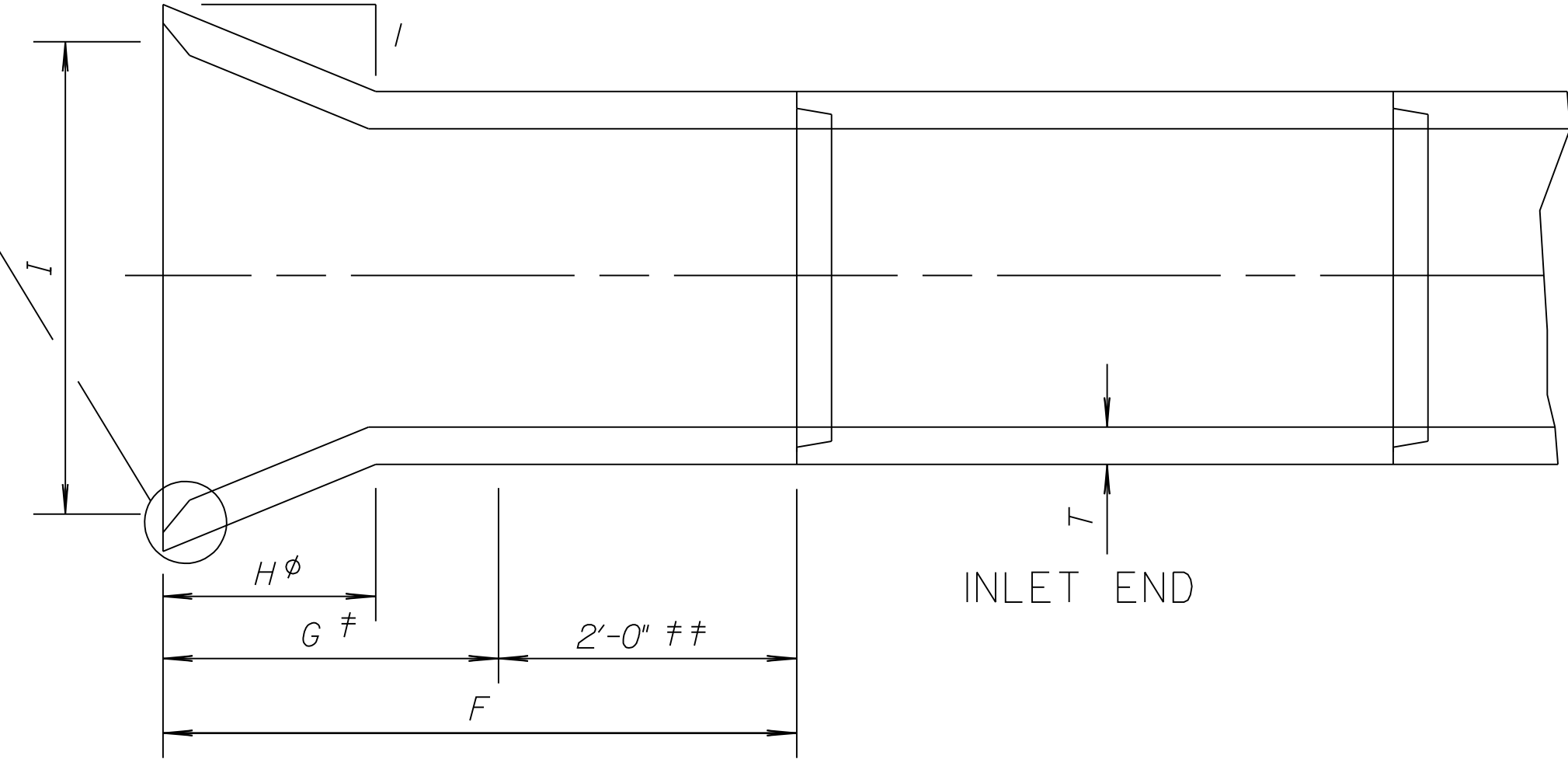


Note: Gain in length due to joint fit tolerance will not be paid for.

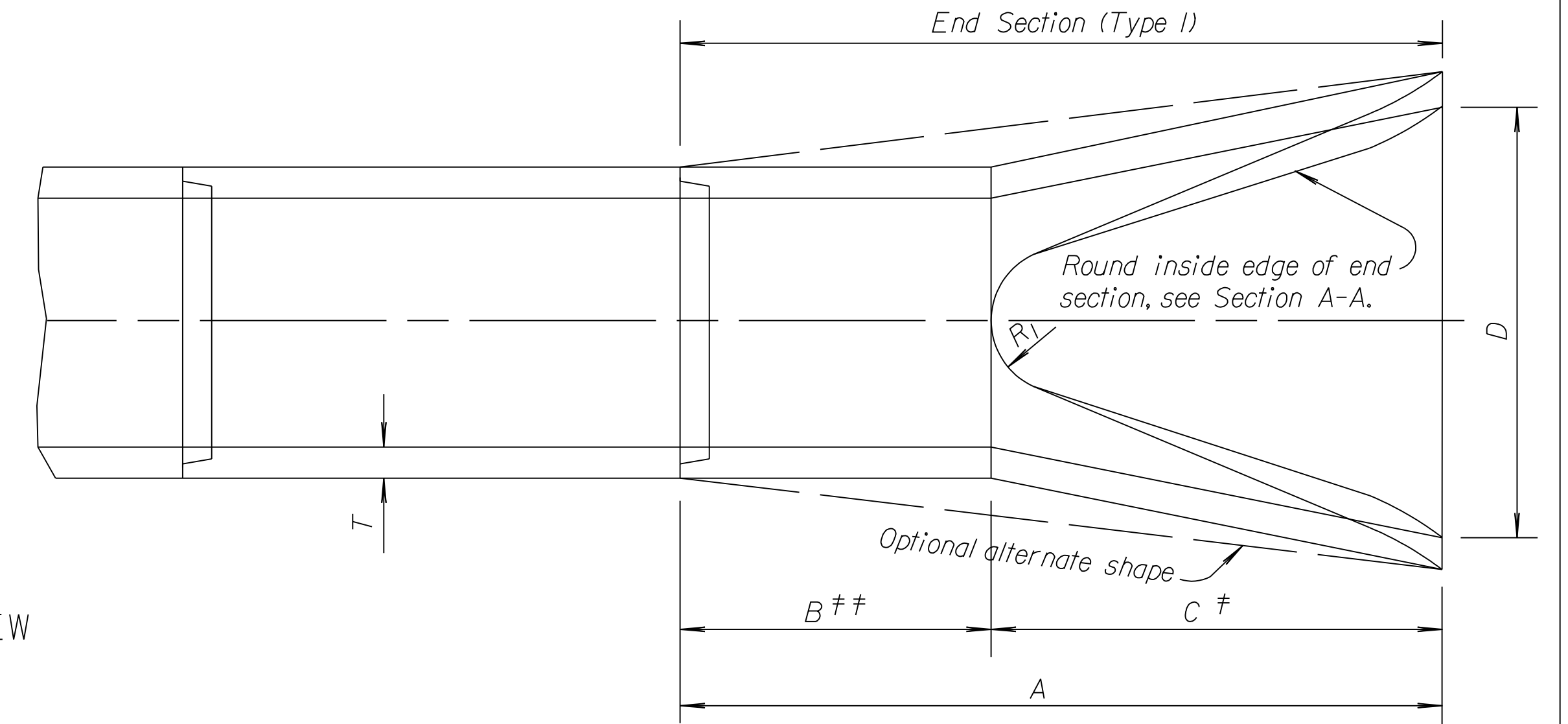


Alternate Plan Shape

Greater than or equal to I



PLAN VIEW



OUTLET END

END SECTION (TYPE I) NOMINAL DIMENSIONS								
Diam.	A	B [#]	C [#]	D	E	R ₁	Slope	T
12"	6'-0 7/8"	4'-0 7/8"	2'-0"	2'-0"	4"	9	3:1	2"
15"	6'-1"	3'-10"	2'-3"	2'-6"	6"	11	3:1	2 1/4"
18"	6'-1"	3'-10"	2'-3"	3'-0"	9"	12	3:1	2 1/2"
24"	6'-1 1/2"	2'-6"	3'-7 1/2"	4'-0"	9 1/2"	14	3:1	3"
30"	6'-1 3/4"	1'-7 3/4"	4'-6"	5'-0"	1'-0"	15	3:1	3 1/2"
36"	8'-1 3/4"	2'-10 3/4"	5'-3"	6'-0"	1'-3"	20	3:1	4"
42"	8'-2"	2'-11"	5'-3"	6'-6"	1'-9"	22	3:1	4 1/2"
48"	8'-2"	2'-2"	6'-0"	7'-0"	2'-0"	22	3:1	5"
54"	8'-2 1/4"	2'-9 1/4"	5'-5"	7'-6"	2'-3"	24	2.4 : 1	5 1/2"
60"	8'-3"	3'-3"	5'-0"	8'-0"	2'-11"	24	2:1	6"
72"	8'-3"	1'-9"	6'-6"	9'-0"	3'-0"	24	1.86 : 1	7"
84"	9'-3 1/2"	1'-9"	7'-6 1/2"	10'-0"	3'-0"	24	1.6 : 1	8"

SIDE TAPERED INLET SECTION (TYPE III)-NOMINAL DIMENSIONS									
Diam.	Min. W.W.* Area Sq.Ft.	F	G	H	I	J	K	R	T
24"	4.5	4'-3"	2'-3"	1'-5 1/8"	2'-8"	1 1/2"	8"	1'-0"	3"
30"	7.0	4'-9 1/2"	2'-9 1/2"	1'-9 1/2"	3'-4"	2"	10"	1'-3"	3 1/2"
36"	10.1	5'-4"	3'-4"	2'-1 1/2"	4'-0"	2"	1'-0"	1'-6"	4"
42"	13.7	5'-10 1/2"	3'-10 1/2"	2'-5 7/8"	4'-8"	2 1/2"	1'-2"	1'-9"	4 1/2"
48"	17.9	6'-5"	4'-5"	2'-10 1/8"	5'-4"	3"	1'-4"	2'-0"	5"
54"	22.7	6'-11 1/2"	4'-11 1/2"	3'-2 1/2"	6'-0"	3 1/2"	1'-6"	2'-3"	5 1/2"
60"	28.0	7'-6"	5'-6"	3'-6 7/8"	6'-8"	4"	1'-8"	2'-6"	6"
72"	40.3	8'-7"	6'-7"	4'-3 5/8"	8'-0"	5"	2'-0"	3'-0"	7"
84"	54.8	9'-8"	7'-8"	5'-0 3/8"	9'-4"	6"	2'-4"	3'-6"	8"

Dimensions for alternate shapes shall be equal to or greater than those shown in the table, unless otherwise shown.

PIPE CULVERT SUMMARY																
Station	Location	Type	Size	Crown Grade Elev.	Flow line		Horizontal Roadway		Degree of Rotation	Length of Pipe		End Sects.				
					LT.	RT.	LT.	RT.		LT.	RT.	LT.	RT.	LT.	RT.	
56+68.60	Harry Rt.	RCP	18"	1338.06	-	-	-	-	30° Lt.	-	-	35	-	-	-	-
58+61.64	Harry Rt.	RCP	18"	1335.84	-	-	-	-	-	-	-	26	-	-	-	-
59+30.76	Harry Rt.	RCP	18"	1335.14	-	-	-	-	-	-	-	26	-	-	-	-
60+60.90	Harry Rt.	RCP	18"	1334.32	-	-	-	-	-	-	-	30	-	-	-	-
61+65.47	Harry Rt.	RCP	18"	1333.42	-	-	-	-	-	-	-	29	-	-	-	-
62+18.98	Harry Rt.	RCP	18"	1332.84	-	-	-	-	-	-	-	26	-	-	-	-
62+82.05	Harry Rt.	RCP	18"	1332.33	-	-	-	-	-	-	-	29	-	-	-	-

Note: The culverts listed on this sheet may or may not indicate that the culvert installed will be reinforced concrete, steel, or aluminum.

KANSAS DEPARTMENT OF TRANSPORTATION			
CONCRETE END SECTIONS FOR CONCRETE PIPES			
TYPE I & SIDE TAPERED INLET SECTION (TYPE III)			
RD662			
DESIGNED	6-10-05	APP'D.	James O. Brewer
DESIGNED	6-10-05	QUANTITIES	TRACED Bowser
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK. Selfz