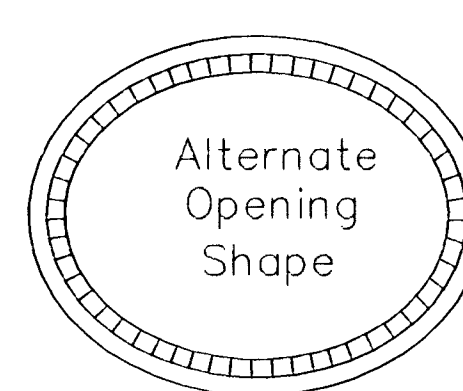
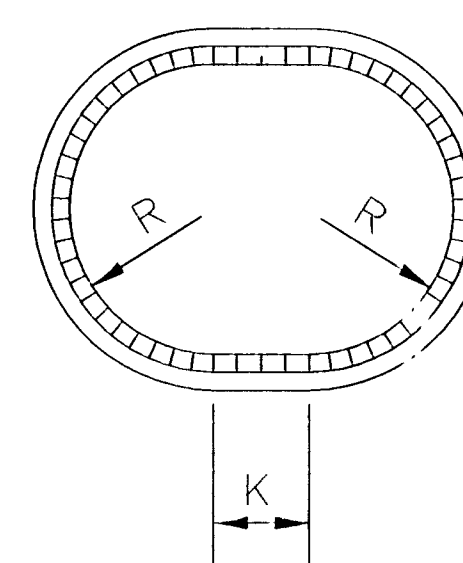




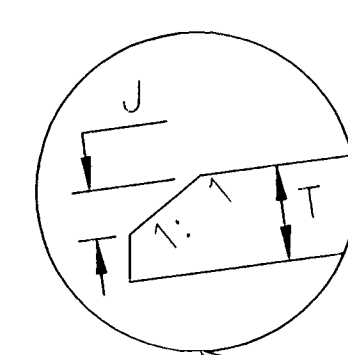
END ELEVATION (TYPE I)



SECTION A-A

Showing rounding of inside edge
of end section.

END ELEVATION
(TYPE III)



Ø Transition to round pipe.

Paid for as separate item of End Section, except when structures shall bid as alternates. In that case End Sections shall be subsidiary to bid item. Drainage Structure No. _____ Included in pay length of pipe. Minimum waterway area is calculated at the inside of the bevel.

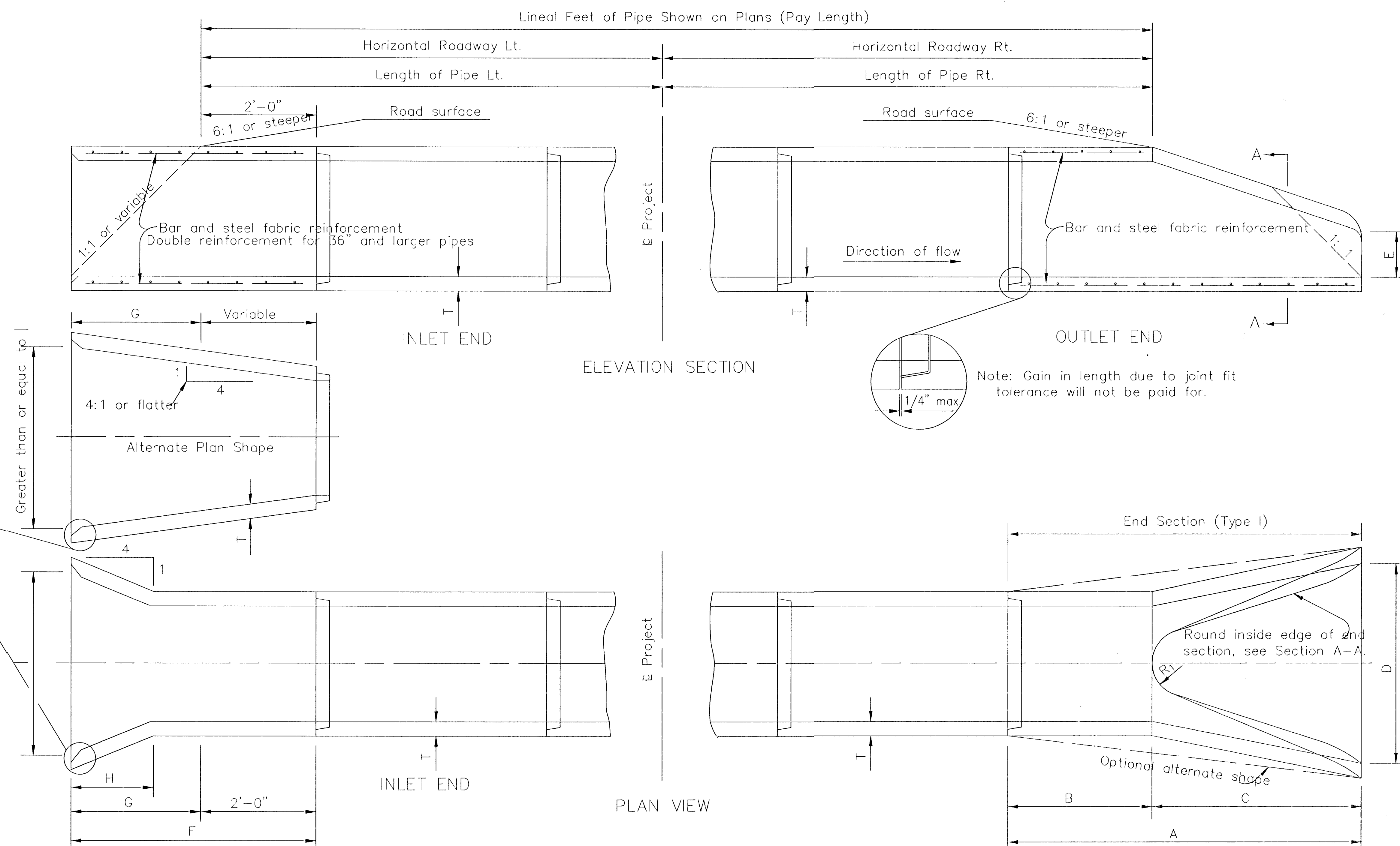
END SECTION (TYPE I) NOMINAL DIMENSIONS

Diam.	A	B	C	D	E	R ₁	Slope	T
12"	6'-0 $\frac{0}{8}$ "	4'-0 $\frac{0}{8}$ "	2'-0"	2'-0"	4"	9	3: 1	2'
15"	6'-1"	3'-10"	2'-3"	2'-6"	6"	11	3: 1	2 $\frac{1}{4}$ '
18"	6'-1"	3'-10"	2'-3"	3'-0"	9"	12	3: 1	2 $\frac{1}{2}$ '
24"	6'-1 $\frac{1}{2}$ "	2'-6"	3'-7 $\frac{1}{2}$ "	4'-0"	9 $\frac{1}{2}$ "	14	3: 1	3"
30"	6'-1 $\frac{3}{4}$ "	1'-7 $\frac{3}{4}$ "	4'-6"	5'-0"	1'-0"	15	3: 1	3 $\frac{1}{2}$ '
36"	8'-1 $\frac{3}{4}$ "	2'-10 $\frac{3}{4}$ "	5'-3"	6'-0"	1'-3"	20	3: 1	4"
42"	8'-2"	2'-11"	5'-3"	6'-6"	1'-3"	22	3: 1	4 $\frac{1}{2}$ '
48"	8'-2"	2'-2"	6'-0"	7'-0"	2'-0"	22	3: 1	5"
54"	8'-2 $\frac{1}{4}$ "	2'-9 $\frac{1}{4}$ "	5'-5"	7'-6"	2'-3"	24	2.4 :	5 $\frac{1}{2}$ '
60"	8'-3"	3'-3"	5'-0"	8'-0"	2'-11"	24	2 :	6"
72"	8'-3"	1'-9"	6'-6"	9'-0"	3'-0"	24	1.86 :	1' 7"
84"	9'-3 $\frac{3}{8}$ "	1'-9"	7'-6 $\frac{3}{8}$ "	10'-0"	3'-0"	24	1.6 :	1' 8"

SIDE TAPERED INLET SECTION (TYPE III)—NOMINAL DIMENSIONS

Diam.	Min. W.W. Ared Sq.Ft.	F	G	H	I	J	K	R	T
24"	4.5	4'-3"	2'-3"	1'-5 $\frac{3}{8}$ "	2'-8"	1 $\frac{1}{2}$ "	8"	1'-0"	3"
30"	7.0	4'-9 $\frac{1}{2}$ "	2'-9 $\frac{1}{2}$ "	1'-9 $\frac{1}{2}$ "	3'-4"	2"	10"	1'-3"	3 $\frac{1}{2}$ "
36"	10.1	5'-4"	3'-4"	2'-1 $\frac{1}{2}$ "	4'-0"	2"	1'-0"	1'-6"	4"
42"	13.7	5'-10 $\frac{1}{2}$ "	3'-10 $\frac{1}{2}$ "	2'-5 $\frac{3}{8}$ "	4'-8"	2 $\frac{1}{2}$ "	1'-2"	1'-9"	4 $\frac{1}{2}$ "
48"	17.9	6'-5"	4'-5"	2'-10 $\frac{3}{8}$ "	5'-4"	3"	1'-4"	2'-0"	5"
54"	22.7	6'-11 $\frac{1}{2}$ "	4'-11 $\frac{1}{2}$ "	3'-2 $\frac{1}{2}$ "	6'-0"	3 $\frac{1}{2}$ "	1'-6"	2'-3"	5 $\frac{1}{2}$ "
60"	28.0	7'-6"	5'-6"	3'-6 $\frac{3}{8}$ "	6'-8"	4"	1'-8"	2'-6"	6"
72"	40.3	8'-7"	6'-7"	4'-3 $\frac{5}{8}$ "	8'-0"	5"	2'-0"	3'-0"	7"
84"	54.8	9'-8"	7'-8"	5'-0 $\frac{3}{8}$ "	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.



OUTLET END

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

[illegible]

NO.	DATE	REVISIONS		BY	APP.
KANSAS DEPARTMENT OF TRANSPORTATION CONCRETE END SECTIONS FOR CONCRETE PIPES TYPE I & SIDE TAPERED RD662 INLET SECTION (TYPE					
FHWA APPROVAL	1- 8-92(III)	APP'D	James O. Brewer		
DESIGNED	DETAILED	QUANTITIES	TRACED	BOW	
APPROCK	DETAIL CK	CUAN CK	TRACD CK	CK	5F