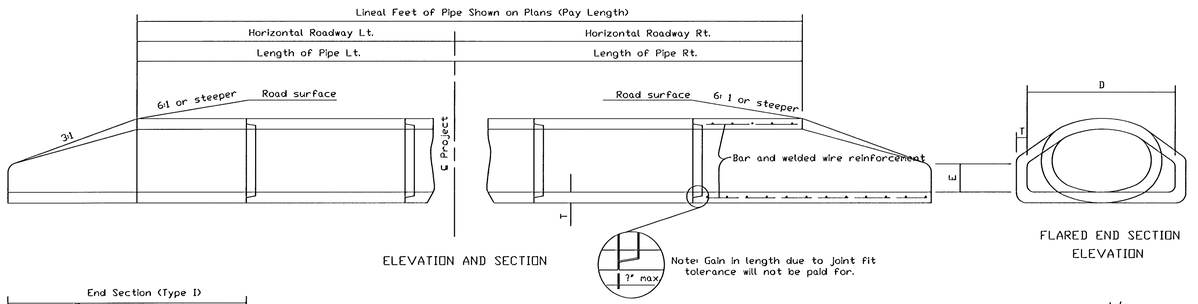
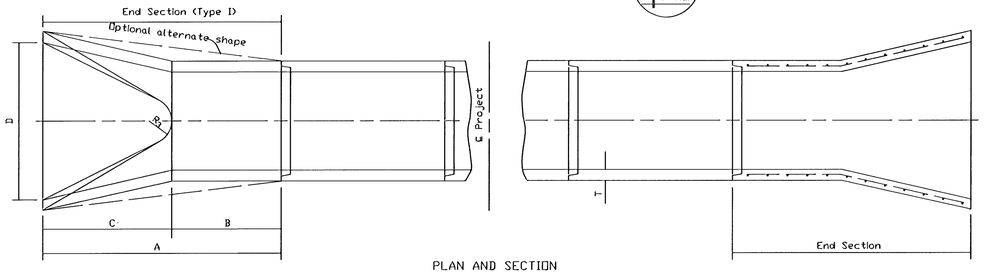
Scale: 1



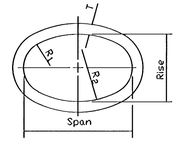
ELEVATION AND SECTION

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

FLARED END SECTION ELEVATION



PLAN AND SECTION



END ELEVATION

Note: The culverts listed on this sheet may or may not indicate that the culvert installed will be reinforced concrete, steel, or aluminum.
Design of end section shall conform to standard reinforced concrete horizontal elliptical pipe. Slight variations in the dimensions specified will be allowed.

END SECTION (TYPE I) NOMINAL DIMENSIONS

Bid Designation Sq. Ft.	Min. W.W. Area Sq. Ft.	Span	Rise	Overall Length A	Barrel Length B	C	D	E	R_1	R_2	R_3	T
1.0 or 1.5	1.8	23"	14"	6'-0"	3'-9"	2'-3"	3'-0"	8"	6"	20"	6"	2 ?"
2.0,2.5 or 3.0	3.3	30"	19"	6'-0"	2'-9"	3'-3"	4'-0"	8 ?"	8 ?"	26 ?"	7"	3 ?"
4.0	4.1	34"	22"	6'-0"	2'-2"	3'-10"	4'-6"	9"	9 ?"	29 ?"	8"	3 ?"
5.0	5.1	38"	24"	6'-0"	1'-6"	4'-6"	5'-0"	9 ?"	10 ?"	32 ?"	9"	3 ?"
6.0	6.3	42"	27"	6'-0"	1'-3"	4'-9"	5'-6"	10 ?"	11 ?"	36 ?"	10 ?"	3 ?"
7.0	7.4	45"	29"	8'-0"	3'-0"	5'-0"	6'-0"	11 ?"	12 ?"	39 ?"	12"	4 ?"
8.5	8.8	49"	32"	8'-0"	3'-0"	5'-0"	6'-3"	12"	13 ?"	42 ?"	12 ?"	4 ?"
10.0	10.2	53"	34"	8'-0"	3'-0"	5'-0"	6'-6"	15 ?"	14 ?"	46"	13"	5"
11.0 or 12.5	12.9	60"	38"	8'-0"	3'-0"	5'-0"	7'-0"	21"	16 ?"	51 ?"	14"	5 ?"
14.0 or 16.5	16.6	68"	43"	8'-0"	3'-0"	5'-0"	7'-6"	25 ?"	18"	58?"	16"	6"

Paid for as separate item of "End Sections".
Included in pay length of pipe.

PIPE CULVERT SUMMARY

Station	Location	Type	Bid Designation Sq. Ft.	Crown Grade Elev.	Flow line Lt.	Flow line Rt.	Horizontal Roadway Lt.	Horizontal Roadway Rt.	Degree of Rotation	Length of Pipe Lt.	Length of Pipe Rt.	Lin.Ft. of Pipe	End Sects. Type I Lt.	End Sects. Type I Rt.	End Sects. Type III Lt.	End Sects. Type III Rt.
			SEE STORM SEWER PLAN AND PROFILE.													

2	4-6-05	Revised reinforcement callout	SVK JDR
1	6-16-95	Revised table & labeling	RJS JDR

CONCRETE END SECTION FOR REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE TYPE I

Harry Street, Meridian to K-42
End Section Detail
Wichita, Kansas

kemiller engineering
516 S. Market, Wichita, KS 67202 316/264-0242

PROJECT NUMBER 472-84001 OCA 716800			
KEM NO. 04050	FILE end section	DATE 11/05	SHEET 29
DESIGN KDOT	DRAWN KDOT	REVISED 11/21/05	OF 58