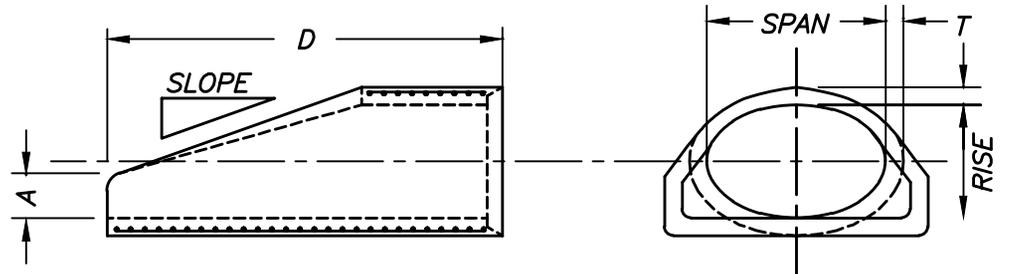
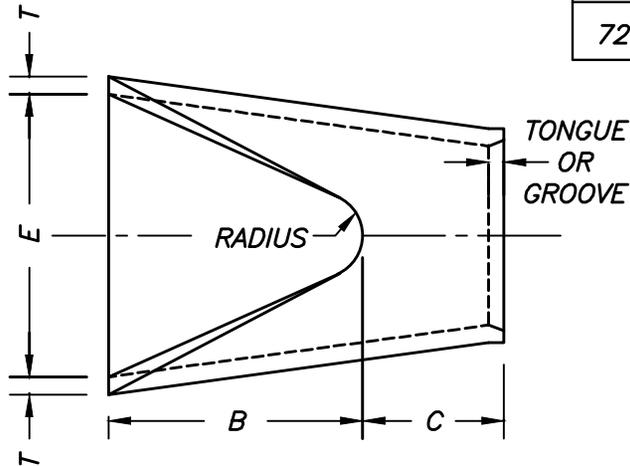


NOTES

REINFORCED CONCRETE ELLIPTICAL APRON ENDWALLS SHALL BE MANUFACTURED WITH REINFORCEMENT AND CONCRETE CONFORMING TO THE PERTINENT REQUIREMENTS FOR CLASS HE III, REINFORCED CONCRETE ELLIPTICAL PIPE, AASHTO DESIGNATION: M 207 OR ASTM DESIGNATION: C 507.

TONGUE END ON INLET ENDWALL.
GROOVE END ON OUTLET ENDWALL.

EQUIV. DIA.	RISE	SPAN	T	TONG. GRV.	A	B	C	D	E	RAD.	SLOPE	APX. WT.
18"	14"	23"	2.75"	2"	9"	3'4"	2'8"	6'0"	3'0"	9.75"	3:1	1,250
24"	19"	30"	3.25"	3"	8.5"	3'0"	4'0"	7'0"	4'0"	7"	3:1	2,300
30"	24"	38"	3.75"	3.25"	9.5"	4'6"	2'6"	7'0"	5'0"	9"	3:1	3,500
36"	29"	45"	4.5"	3.5"	11.25"	5'0"	2'0"	7'0"	6'0"	12"	3:1	3,950
42"	34"	53"	5"	3.75"	14"	5'0"	2'0"	7'0"	6'3"	13"	3:1	5,600
48"	38"	60"	5.5"	4"	18"	5'0"	2'0"	7'0"	6'10"	14"	3:1	6,840
54"	43"	68"	6"	4.5"	32"	5'0"	3'5"	8'5"	7'5"	36"	3:1	9,410
60"	48"	76"	6.5"	5"	36"	5'0"	3'5"	8'5"	7'11"	36"	3:1	11,800
72"	58"	91"	7.5"	6"	36"	5'5"	2'8"	8'1"	8'11"	40"	3:1	18,000



**CITY OF MIDDLETON
STANDARD DETAIL**

**REINFORCED CONCRETE
ELLIPTICAL APRON ENDWALL**

REVISED
DRAWN BY:

08-05-2014
AMK

300-15