

DIMENSIONS			QUANTITIES ONE HEADWALL	
DIAMETER	H	L	CONCRETE CU. YDS.	REINFORCING STEEL LBS.
15"	5'-2"	7'-0"	1.7	41
18"	5'-5"	8'-4"	2.2	57
21"	5'-8"	9'-8"	2.8	62
24"	5'-11"	11'-0"	3.3	69
30"	6'-5"	13'-8"	4.7	92
36"	7'-0"	16'-4"	6.5	105

L CIRCULAR SECTIONS =  $5D + Rt$   
 L ELLIPTICAL OR PIPE-ARCH =  $4R + 4t + 3$   
 H CIRCULAR SECTIONS =  $D + t + 44$ "  
 H ELLIPTICAL OR PIPE-ARCH =  $R + t + 44$ "

D= DIAMETER OF PIPE  
 R= RISE OF PIPE  
 S= SPAN OF PIPE  
 T= THICKNESS OF BARREL  
 L= LENGTH OF HEADWALL  
 H= HEIGHT OF HEADWALL

**NOTES**

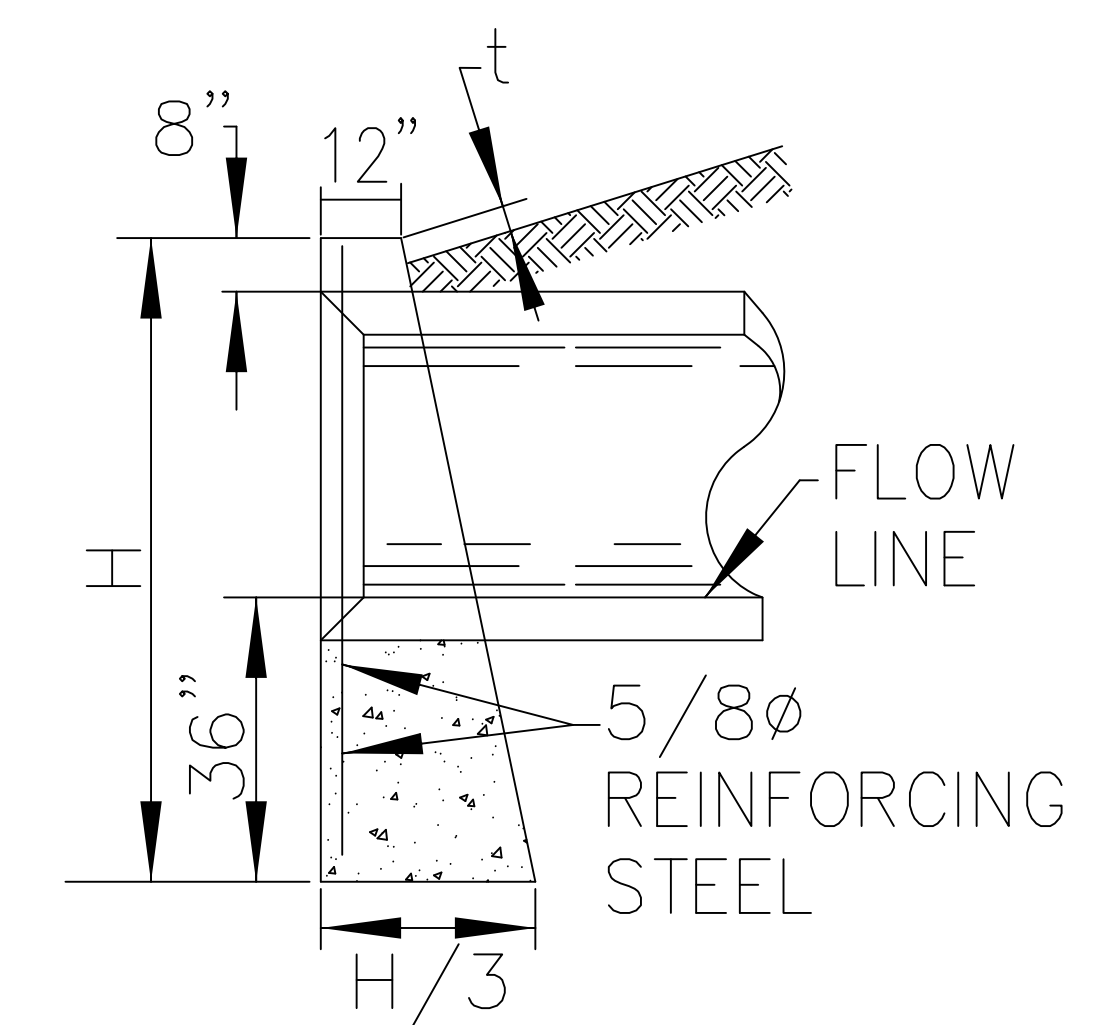
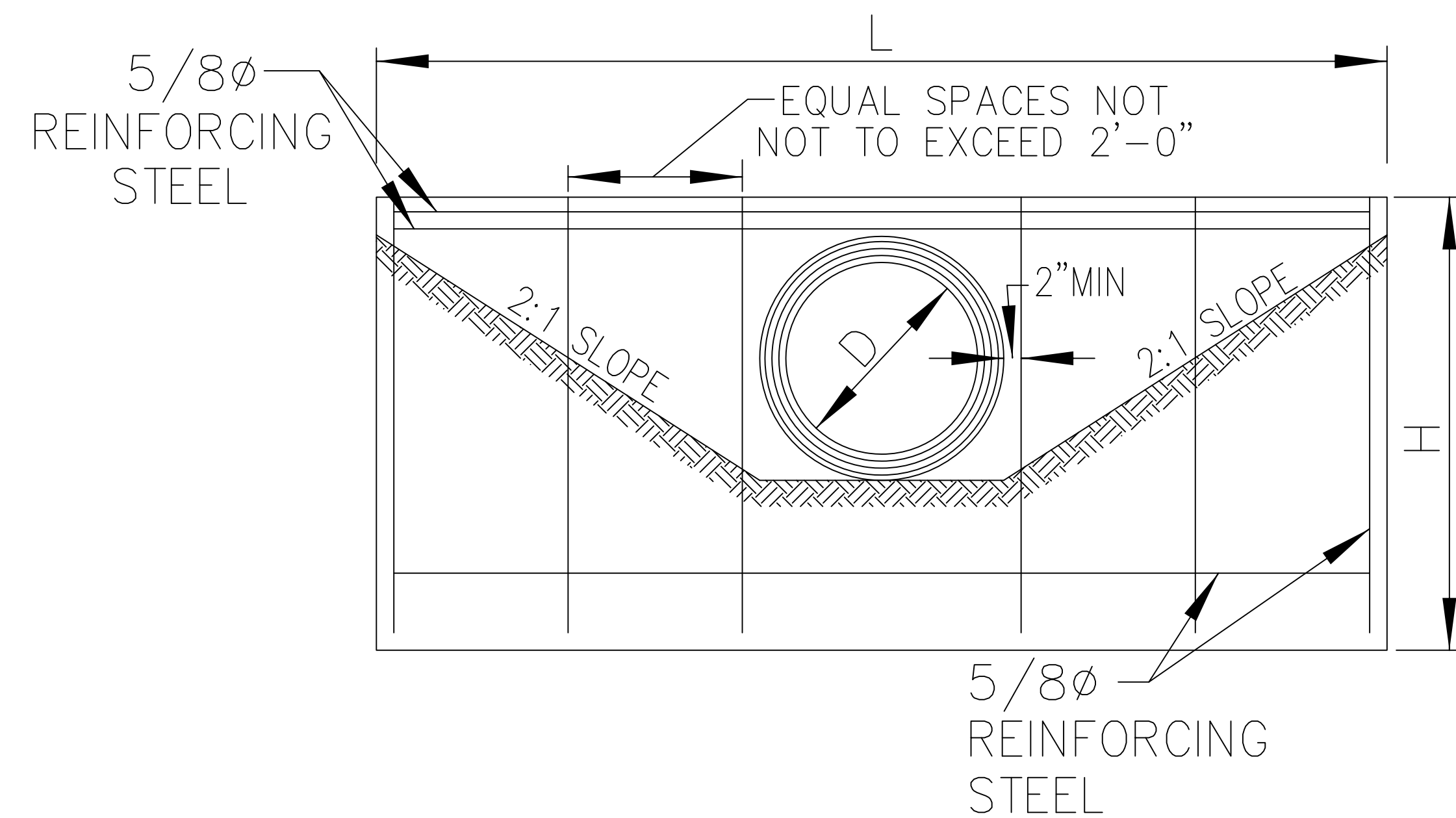
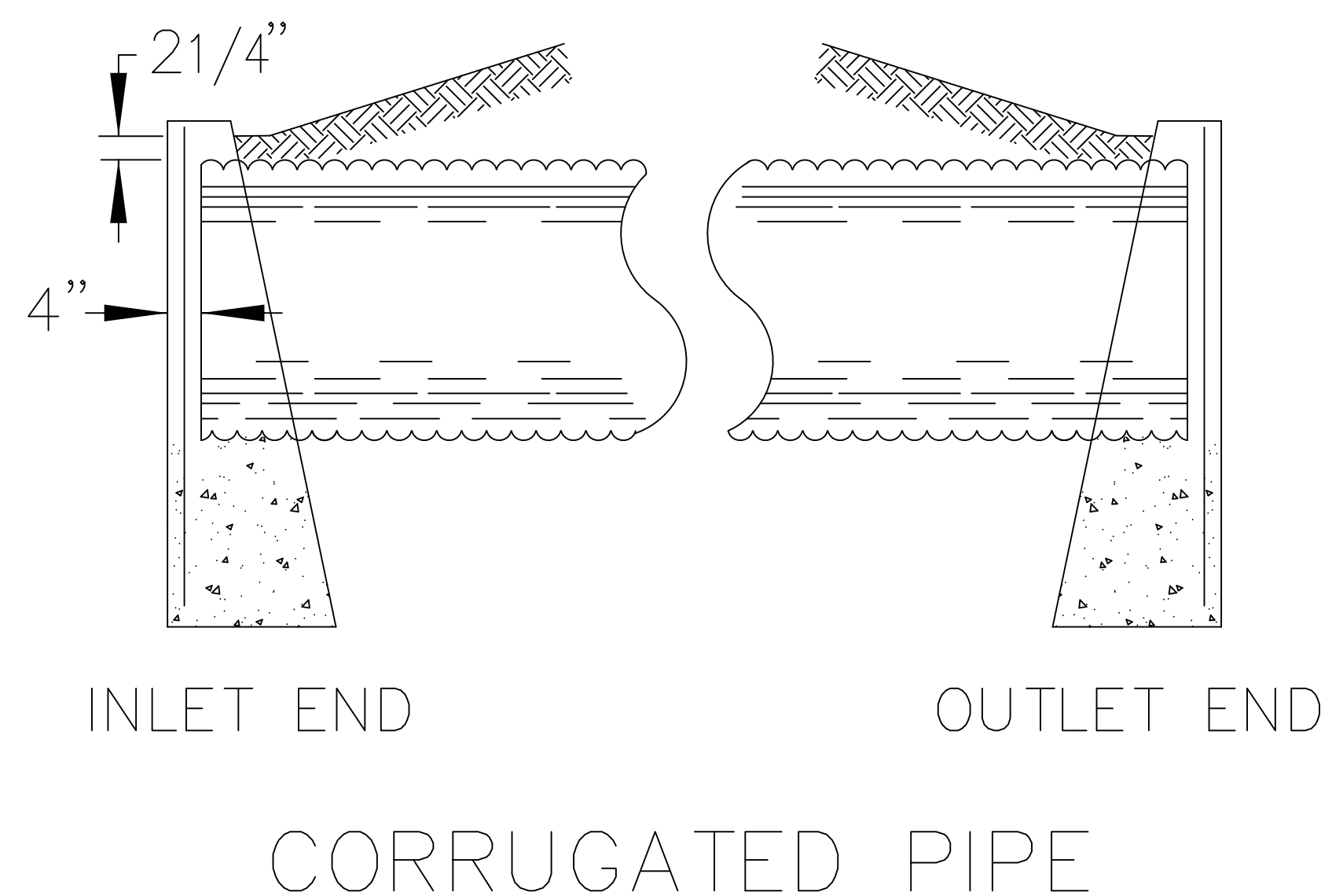
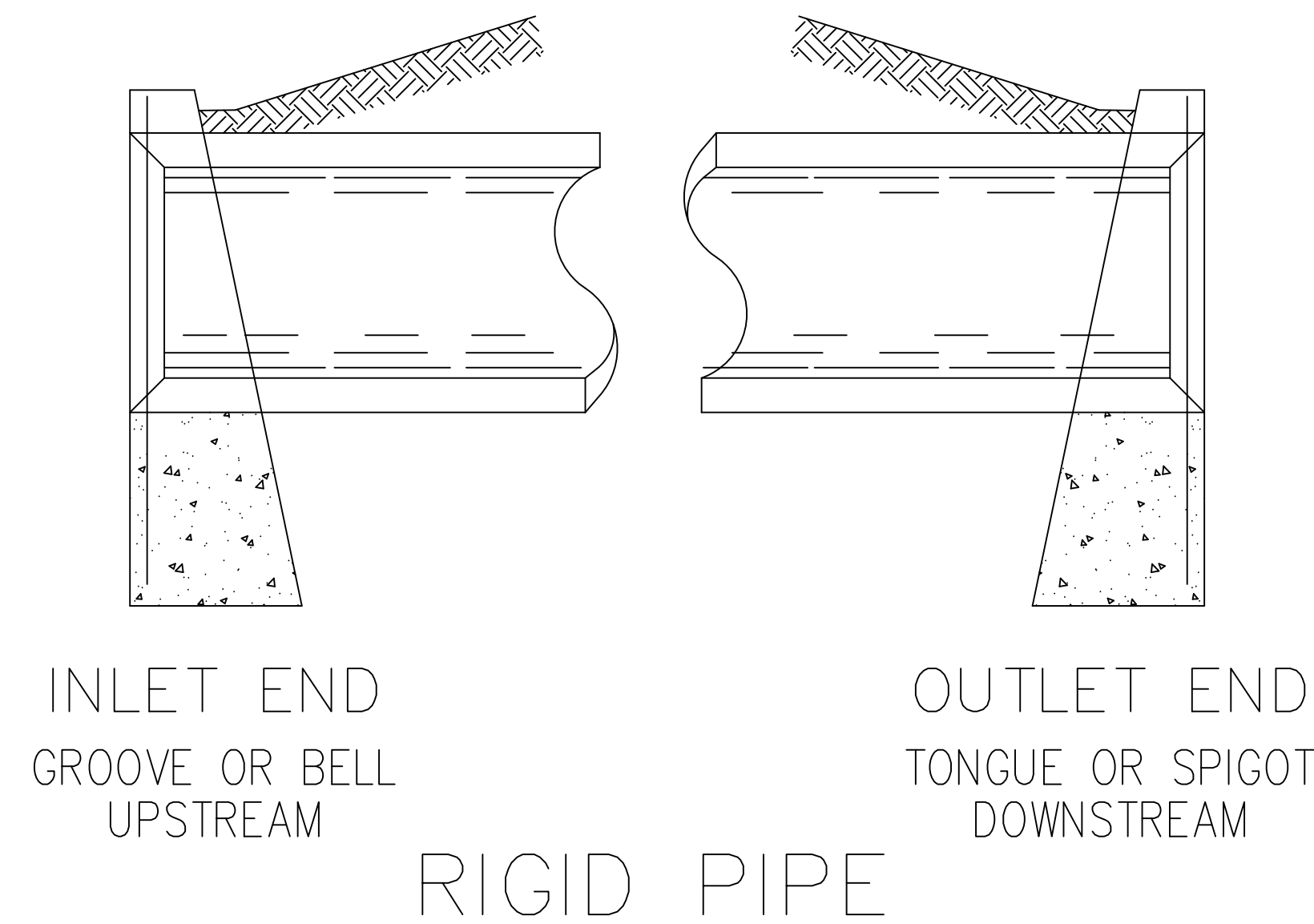
No. 1 HEADWALL Where required will be provided for nonskewed culverts having a diameter or rise of 36 inches or less.

CONCRETE shall be Class "C"

REINFORCING STEEL BARS shall be 5/8 inch round.

DIMENSIONS AND QUANTITIES are shown for circular sections only. It will be necessary to determine dimensions for the No. 1 headwall required for reinforced elliptical concrete pipe or corrugated metal pipe arches in accordance with the equations listed on this drawing. Chamfer all exposed corners 3/4 of an inch.

FOUNDATION. Where the soil borings indicate a bearing capacity of less than 2600 pounds per square foot, it will be necessary to increase the width of the base.



END TREATMENT AT HEADWALL

STANDARD No. 1 HEADWALL