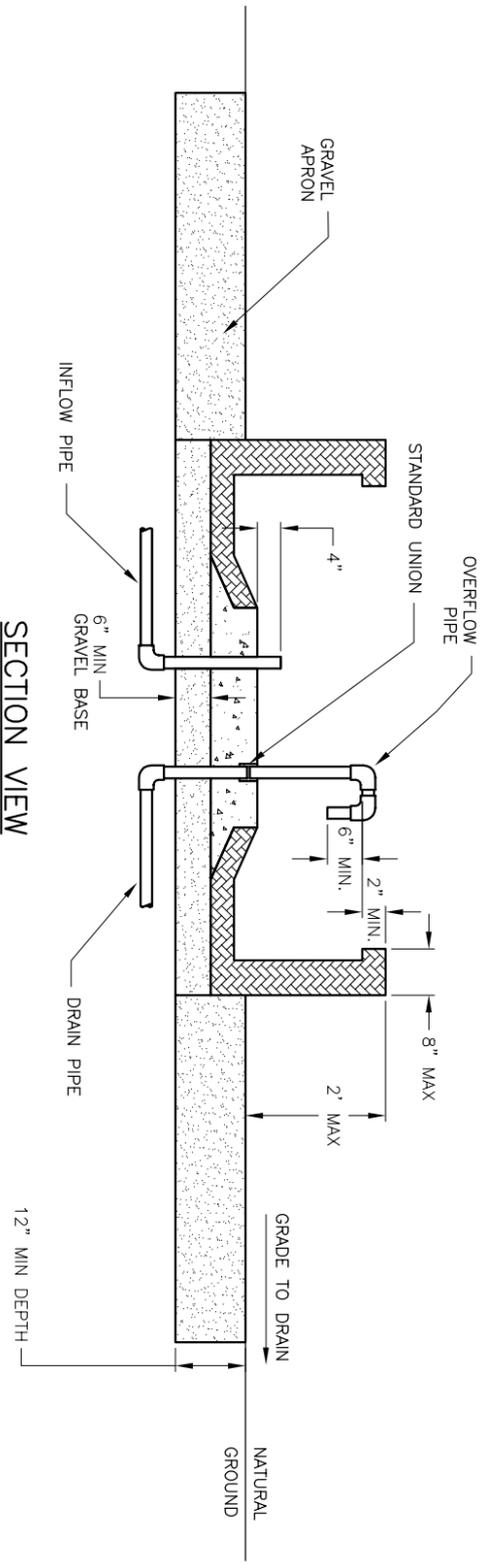


HALF-PLAN VIEW



SECTION VIEW

NOTES:

A GRAVEL BASE IS REQUIRED WHEN THE TROUGH IS LOCATED OVER A CLAY SUBSOIL SUBJECT TO SIGNIFICANT SHRINK AND SWELL. MINIMUM DEPTH OF BASE IS 6 INCHES. THE MATERIALS SHALL MEET THE REQUIREMENTS OF COARSE AGGREGATE IN ASTM C-33.

ALL PIPE IN AND UNDER THE TROUGH SHALL BE SCH 40 PVC OR GALVANIZED STEEL. A STANDARD UNION SHALL BE PLACED IN THE CONCRETE PLUG AS SHOWN ABOVE. THE PIPE CONNECTED TO THE UNION ON THE TROUGH SIDE SHALL NOT BE CEMENTED TO THE UNION.

ALTERNATE METHODS OF PLUMBING MAY BE USED AS APPROVED BY THE NRCS ENGINEER.

THE CONCRETE PLUG SHALL BE REINFORCED WITH 1.5 POUNDS OF SYNTHETIC FIBERS PER CUBIC YARD OF CONCRETE.

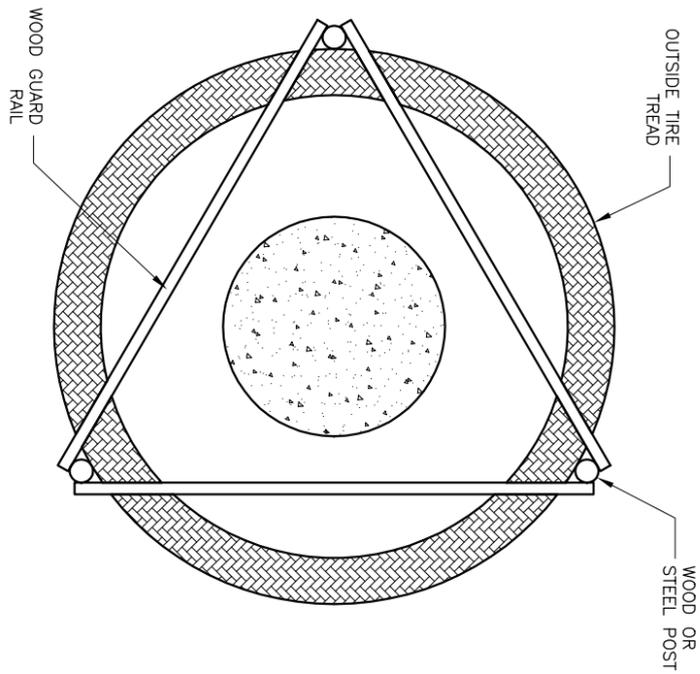
A REINFORCED CONCRETE APRRON 4 INCHES IN THICKNESS MAY BE USED IN PLACE OF THE GRAVEL APRRON. THE MINIMUM REQUIRED REINFORCEMENT SHALL BE 10 GA. 6"x6" WIRE MESH.

THE CONCRETE SHALL NOT HAVE LESS THAN 5 SACKS OF CEMENT PER CUBIC YARD AND NOT MORE THAN 6 GALLONS OF WATER PER SACK OF CEMENT. A 5 SACK MIX REQUIRES 0.3 POUNDS OF SYNTHETIC FIBERS PER SACK.

THE OVERFLOW IS CONSTRUCTED USING A DOUBLE ELBOW WITH A 1/4 INCH HOLE IN THE TOP OF THE PIPE.

THE DRAIN PIPE MUST DRAIN TO A FREE OUTLET A MINIMUM OF 10 FEET FROM THE EDGE OF THE TROUGH.

WARNING: IT IS THE RESPONSIBILITY OF THE LANDOWNER/OPERATOR TO DETERMINE THE PRESENCE OF TOXIC CHEMICALS IN THE TIRE AND TAKE ALL NEEDED ACTION TO PROTECT THE HEALTH OF THE LIVESTOCK. OPERATOR SHOULD BE CAUTIONED ABOUT INGESTION OF RUBBER BY HORSES.

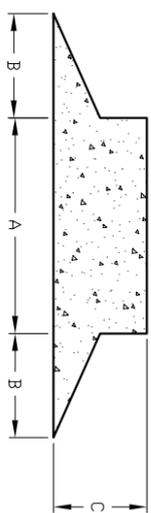


CATTLE GUARD PLAN (OPTIONAL)

NOTES:

POSTS FOR THE CATTLE GUARD SHOULD BE 4 INCH DIAMETER WOOD OR 1-1/2 INCH DIAMETER GALVANIZED STEEL. POSTS SHOULD BE SET 3 FEET BELOW THE ORIGINAL GROUND LINE.

WOOD GUARD RAIL SHOULD BE A 2" X 8" WOODEN PLANK BOLTED TO THE POST.



CONCRETE PLUG DETAIL

TIRE DETAILS

DIA FT	MIN PLY	VOL GAL	A IN	B IN	C IN
5	23	190	24	14	8
6	24	250	23	9	9
8	38	450	38	17	10
10	50	700	50	25	17

DRAWING NO. TX-EN-0423  
REVISIONS DATE



HEAVY EQUIPMENT TIRE TROUGH

DESIGNED BY: RFB & JPR  
DRAWN BY: JOSH RODE  
APPROVED BY: JWM  
FILE NAME: WSF-Tire.dwg  
DATE PLOTTED: 08/02