

ANTI-SEEP COLLAR DIMENSION TABLE		
Pipe Diam.	No. Used	W (inches)

Anti-Seep Collars for 18" to 48" corrugated metal pipe to be connected with two 1/2" diameter rods with tank lugs.  
 Anti-Seep Collars for 8" to 15" corrugated metal pipe to be connected with angles riveted or spot welded to band and connected with bolts.

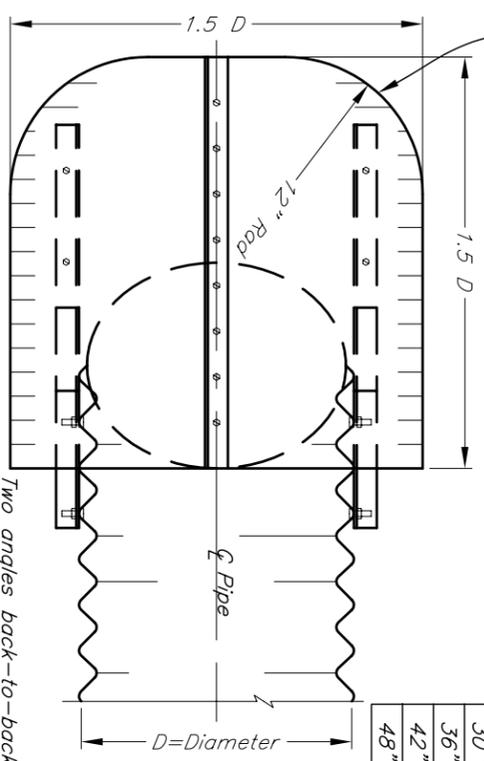
**Materials and Fabrication Requirements**

- Materials and fabrication shall be in accordance with Construction Specification 514 or IA 51 and the following:
  - Sheet material for the anti-seep collar and connection bands shall conform to the requirements specified for the pipe material itself.
  - The anti-seep collar sheets shall be corrugated as specified for the spillway pipe.
  - The anti-seep collar and connection bands shall be of equal thickness. They may be the next thickness lighter than that of the pipe to which attached, but not lighter than nominal 16 gage nor heavier than nominal 12 gage.
  - Metal sheets shall be fastened together to form anti-seep collar halves with either rivets or resistance spot welds as specified for fabrication of pipe; and as shown on this drawing.
  - Anti-seep collar connection bands shall be as shown on this drawing. Bands with annular corrugations shall be corrugated as specified for annular pipe. Bands with helical corrugations shall be corrugated as specified for helical pipe.
  - Connection angles and connection bolts shall be as specified for coupling bands except,
    - The length of each angle shall be 1/2 the band width minus 1".
    - 4 bolts (2 each side) are required.
    - Integral formed flanges instead of angles may be used on 6", 8", 10" and 12" diameter helical pipe anti-seep collar connection bands.
  - Connection rods with lugs shall be used where specified on this drawing. The rods shall be made from structural quality steel and shall be galvanized. The lug may be standard tank type or other commercial type.
  - The anti-seep collar halves shall be welded to the connection band as shown on this drawing. All welds shall be treated as specified for "Repair of Damaged Coatings".
  - The anti-seep collar halves shall be slotted as shown on this drawing for connecting together with 3/8" diameter bolts. The bolts shall be of quality equal to the connection bolts and shall be galvanized or cadmium plated.
- Shop assemble match and mark anti-seep collar halves.
- Apply heavy coating of bituminous mastic or 3/8" x 7" neoprene gasket between the anti-seep collar halves to produce a watertight joints. Bituminous mastic shall also be applied between the connecting band and pipe to produce a watertight connection.

STANDARD DWG. IA-1223

DATE July 2008 SHEET 1 OF 1

Metal Baffle shall have the same coating as the pipe to which it is attached. Where Metal Baffle is fabricated of more than one piece of metal, the separate pieces shall be securely fastened to each other. Sharp corners shall be removed. At contractor option, Metal Baffle may be made of corrugated or sheet metal and shaped circular, square or as shown.



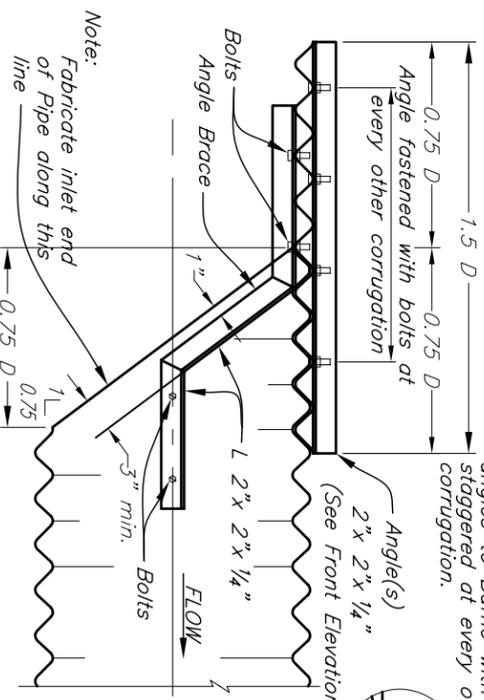
Diam. of Pipe, D	GAGE OF METAL BAFFLE AND DIMENSIONS OF ANGLE BRACE		Angle Brace Dimensions (Inches)				
	Steel	Al.	a	b	c	d	e
18"	.064	.135	10	6	9	8	5 1/3
21"	.064	.135	10	7 1/8	9	9 1/2	5 1/3
24"	.079	.135	13	8 1/4	12	11	8
30"	.079	.164	13	10 1/2	12	14	8
36"	.109	.164	13	12 3/4	12	17	8
42"	.109	.164	17	15	15	20	10 2/3
48"	.109	.164	17	17 1/4	15	23	10 2/3

**PLAN**

**ANGLE BRACE DETAIL**

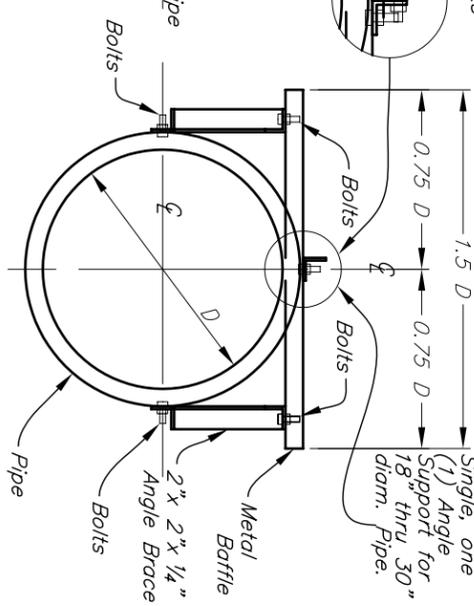
Two angles back-to-back for support of Metal Baffle for 36" to 48" diam. Pipe. Bolt angles to each other with 3 bolts. Bolt staggered at every other corrugation.

Single, one (1) Angle Support for 18" thru 30" diam. Pipe.



**SIDE ELEVATION**

**FRONT ELEVATION**



**Notes:**

- USE ALUMINUM BAFFLE AND ANGLES WITH ALUMINUM PIPE.
- USE STEEL BAFFLE AND ANGLES WITH STEEL OR IRON PIPE.
- All bolts shall be 1/2" x 1 1/2" with nut and split washers.
- All holes for bolts shall be drilled 9/16" diameter.
- All nuts, bolts and washers shall be galvanized, cadmium plated, or stainless steel.
- All cuts shall be saw or shear cuts.
- Holes in the angle brace shall be spaced and located to match corrugations in pipe and baffle.
- Steel angles shall be galvanized.

Note: Fabricate inlet end of Pipe along this line

**DETAILS OF HOOD INLET FOR ANNULAR OR SPIRAL C. M. PIPE**



**DETAILS OF 18"-48" DIAM CORRUGATED METAL PIPE WITH ANTI-SEEP COLLAR**

Date \_\_\_\_\_  
 Designed \_\_\_\_\_  
 Drawn \_\_\_\_\_  
 Checked \_\_\_\_\_  
 Approved \_\_\_\_\_

File No. \_\_\_\_\_  
 Drawing No. \_\_\_\_\_  
 Sheet of \_\_\_\_\_