

Design Assumptions for
Nebraska Base Drawing NE100-30-011
Anti-Vortex Splitter Device

Revised: 6/05 Replaces:5001-10

Anti-Vortex Splitter Device

To be used on locations where vegetation or debris in the drainage area above the structure are minimum.

Instructions for Nebraska Base Drawing NE100-30-011 Anti-Vortex Splitter Device

Fill in the following data fields to automatically fill in the necessary data fields on the drawing.

Title block

Title line(s)

Subtitle line

County, State

Sheet number of

Who / When

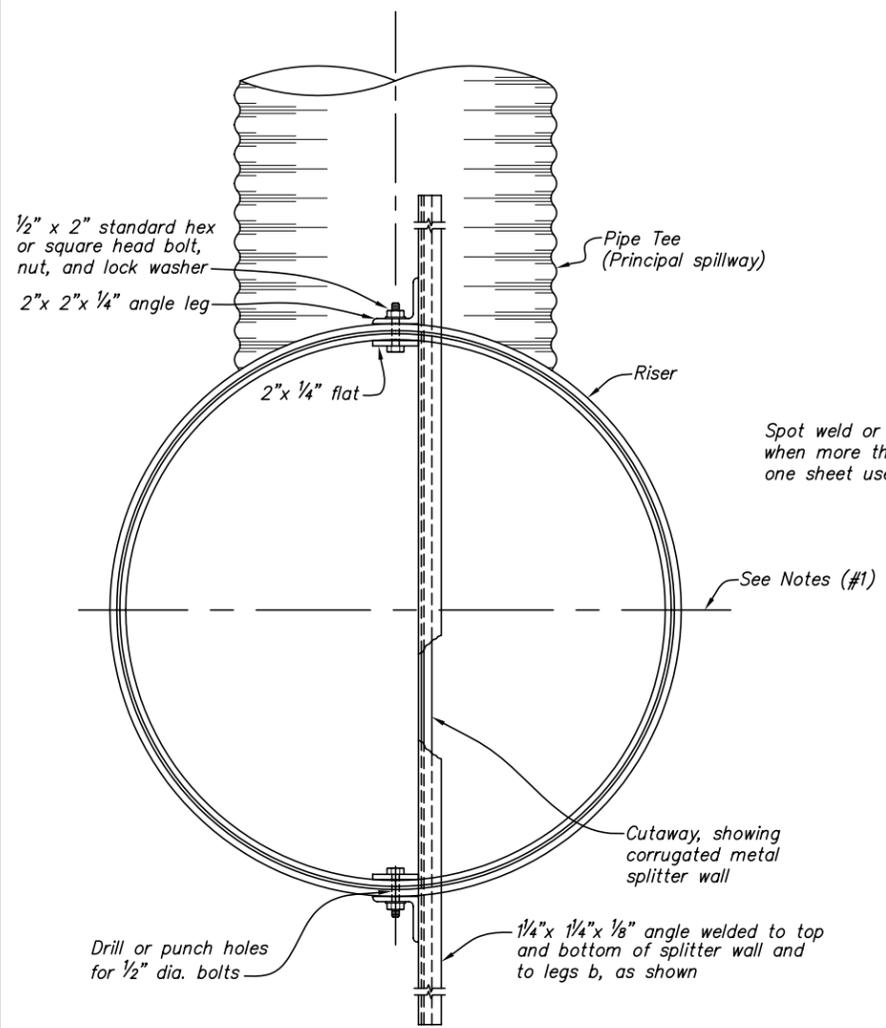
Designed

Drawn

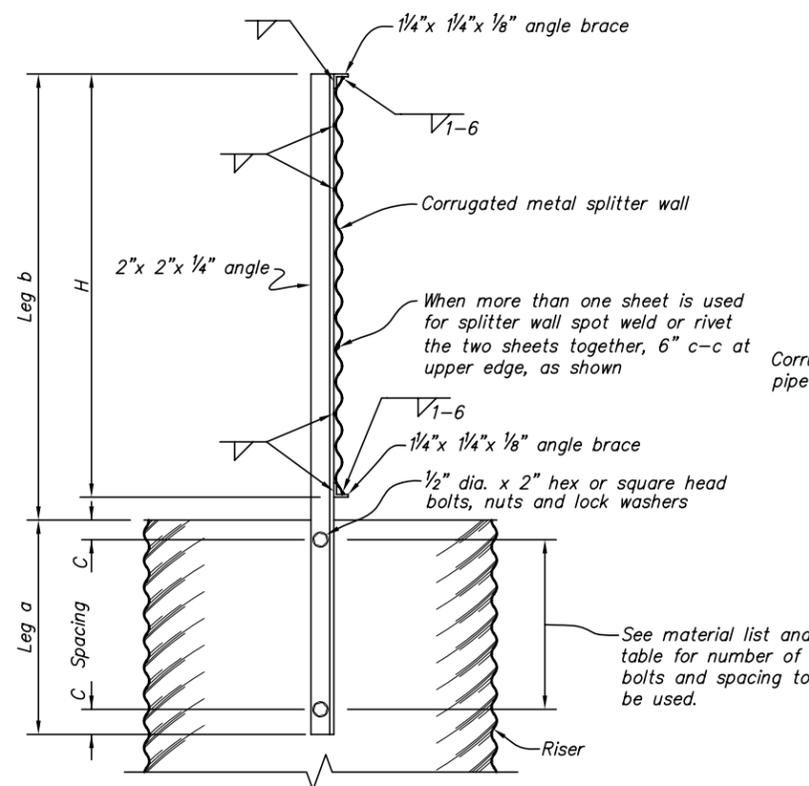
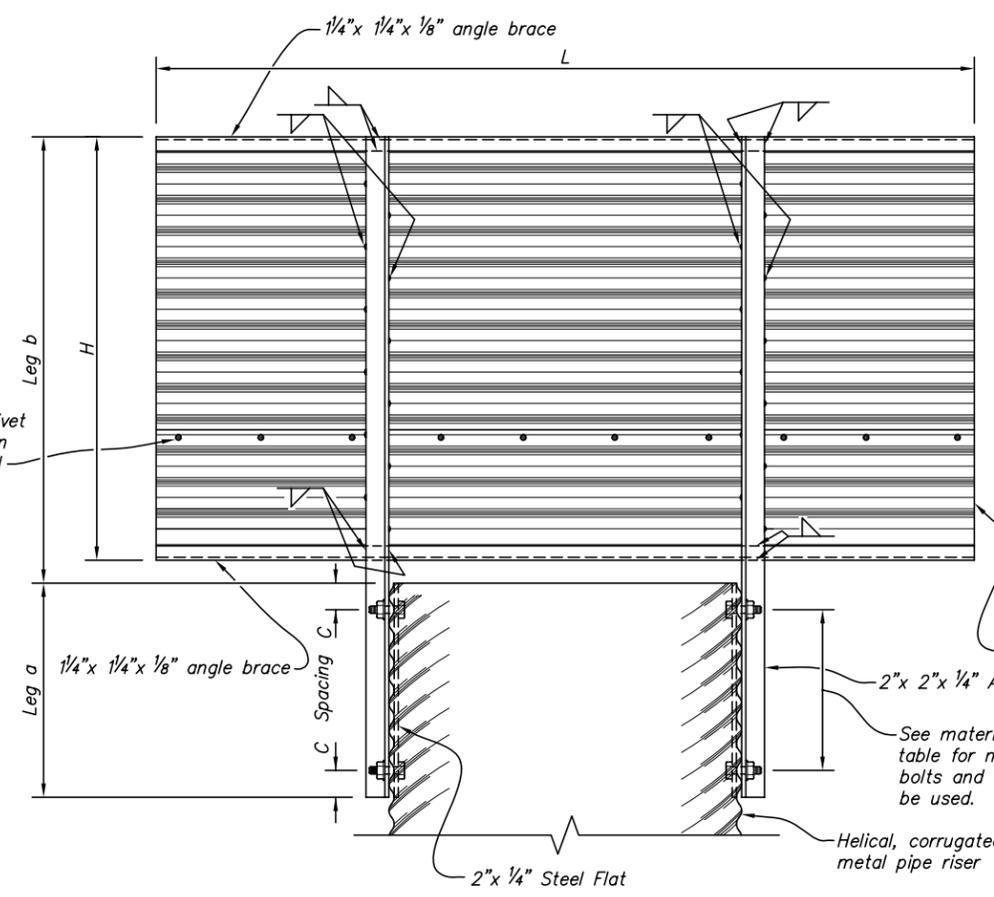
Checked

Enter directly on drawing

Left click on yellow boxes on drawing to mark with X as required.
Left click on blue data fields to enter required data.



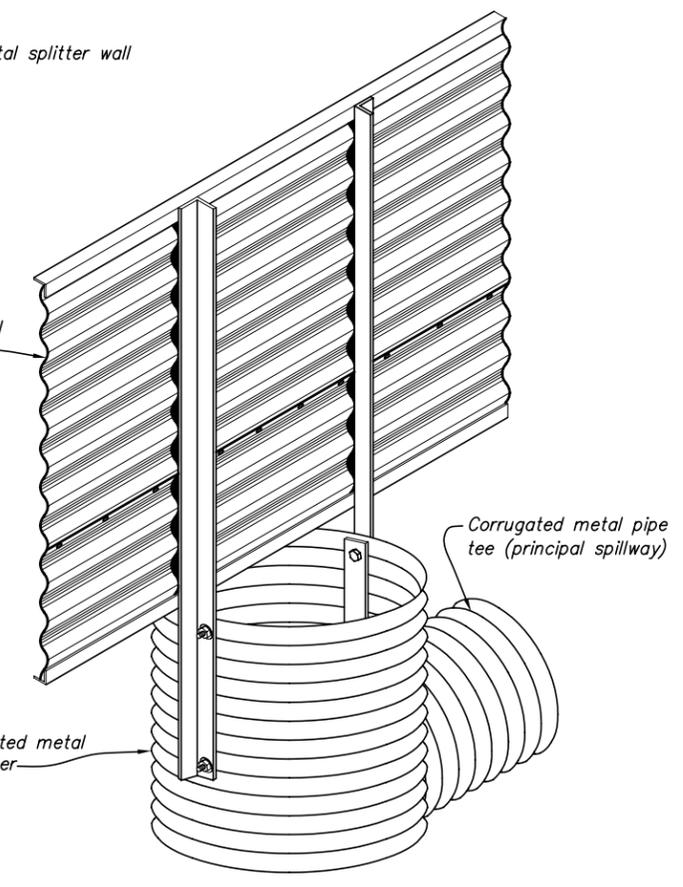
PLAN VIEW



FRONT ELEVATION
(Looking Downstream)

NOTES:

1. IF LENGTH OF LEG a, EXCEEDS THE DISTANCE BETWEEN TOP OF TEE TO TOP OF RISER, INSTALL THE SPLITTERWALL AT 90° TO CENTERLINE OF PIPE TEE (PLAN VIEW).
2. ALL BOLTS, NUTS AND LOCK WASHERS SHALL BE GALVANIZED.
3. WELD EVERY OTHER CREST ON OPPOSITE SIDES OF LEGS, b, AS SHOWN. ALL WELDS AND HEAT AFFECTED AREAS SHALL BE TREATED ACCORDING TO SPECIFICATIONS.
4. IF RISER IS OF STEEL, SPLITTER DEVICE SHALL BE OF STEEL. IF RISER IS OF ALUMINUM, SPLITTER DEVICE SHALL BE OF ALUMINUM, EXCEPT BOLTS, NUTS AND LOCK WASHERS MAY BE OF STEEL.
5. ALUMINUM ALLOY SHALL NOT BE USED IN SOILS THAT HAVE A pH GREATER THAN 9 OR LESS THAN 4 OR WHERE RAPID CORROSION OF SIMILAR MATERIAL IS KNOWN TO HAVE OCCURRED.
6. MATERIAL NOT GALVANIZED, OR NOT OF ALUMINUM ALLOY, SHALL BE PAINTED ACCORDING TO PAINT SYSTEM "C" OF PAINT SPECIFICATIONS.
7. WELD 1 1/4" x 1 1/4" x 1/8" ANGLE BRACES TO LEGS b, WELD C.M. SPLITTERWALL TO 1 1/4" x 1 1/4" x 1/8" ANGLE BRACES AND CRESTS OF CORRUGATIONS TO LEGS b AS SHOWN.



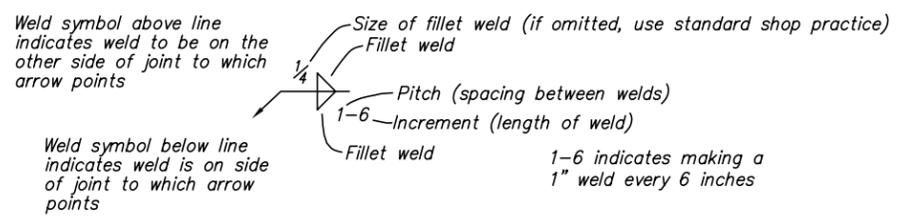
ISOMETRIC VIEW

MATERIAL LIST, TABLE OF DIMENSIONS AND QUANTITIES

RISER DIA. INCHES	2" x 2" x 1/4" STEEL ANGLES				FLATS 2 x 1/4"		2" x 1/2" DIA. GALVANIZED STEEL BOLTS, NUTS AND LOCK WASHERS		C.M. SPLITTER WALL DIMENSIONS			1 1/4" x 1 1/4" x 1/8" STEEL ANGLE BRACES		TOTAL WEIGHT LBS. (STEEL)	
	LEG a	LEG b	DIMENSION C	TOTAL LENGTH	NO. REQD.	LENGTH FT.-IN.	NO. REQD.	SPACING	NO. REQD.	FEET-IN. H	L	GAGE	LENGTH FEET-INCHES		NO. REQD.
12 15	1-0	1-3	0-2	2-3	2	1-0	2	8"	4	1-0	3-0	16	3-0	2	34
18 21 24	1-0	2-3	0-2	3-3	2	1-0	2	8"	4	2-0	4-0	16	4-0	2	60
30 36	1-6	3-3	0-2	4-9	2	1-6	2	7"	6	3-0	6-0	14	6-0	2	117

Aluminum alloy = 1/3 weight of steel. For use of aluminum alloy, see notes.

WELD SYMBOLS



REQUIREMENT TABLE

X IN BOX INDICATES DETAIL WHICH APPLIES TO STRUCTURE

SPLITTER DEVICE FOR _____" DIA. PIPE RISER	
<input type="checkbox"/>	IRON OR STEEL - ZINC COATED
<input type="checkbox"/>	ALUMINUM ALLOY
<input type="checkbox"/>	PAINT SYSTEM C (SEE NOTES ABOVE)

Nebraska Standard Drawing NE100-30-011 Revised 6/05 Replaces 5001-10

Date _____
Designed _____
Drawn _____
Checked _____
Approved _____



File No. _____
CAD Dwg. NE100-30-011.dwg
Sheet _____ of _____

ANTI-VORTEX SPLITTER DEVICE