

SPACE MARK (a) BARS  
EVENLY ON EITHER SIDE OF  
ANTIVORTEX BAFFLE PLATE

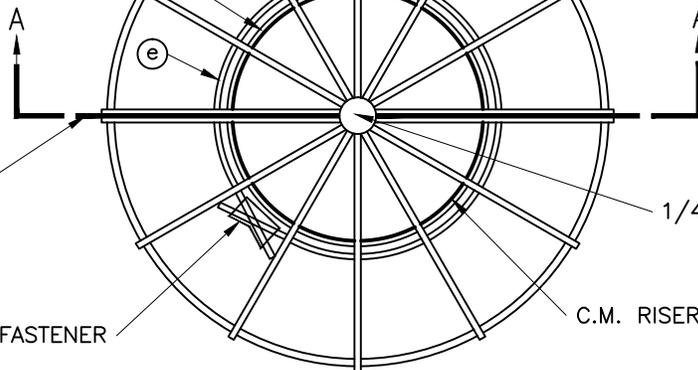
MARK (c) BARS  
OUTSIDE DIAMETER OF  
RISER PLUS ONE INCH.

STEEL ANTIVORTEX  
BAFFLE PLATE

1/2" CAST LUG FASTENER

(b) (d)

N (SPACING AT  
EXTREMITY OF BAR)



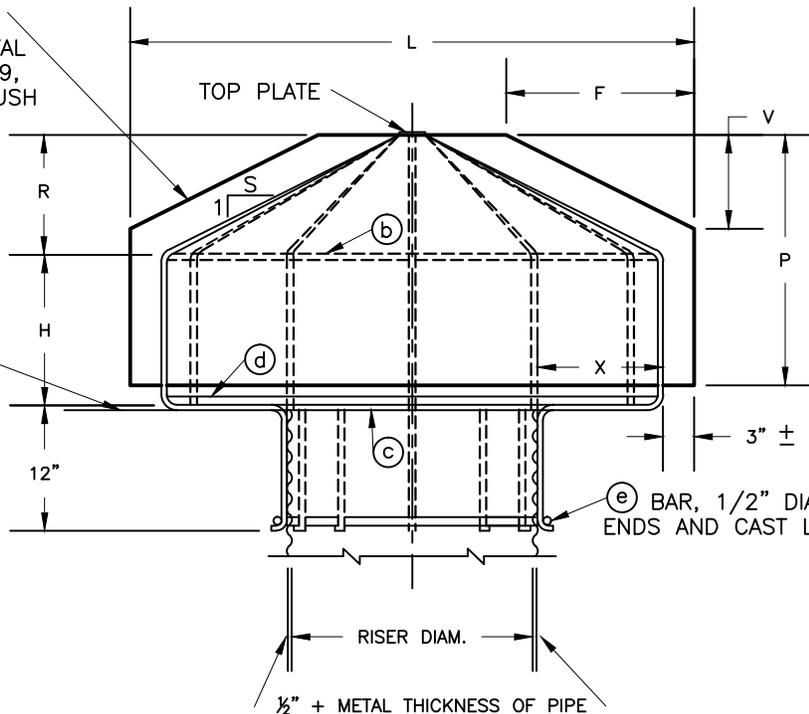
1/4" THICK TOP PLATE

C.M. RISER

PLAN VIEW

STEEL ANTIVORTEX  
BAFFLE PLATE, METAL  
THICKNESS = 0.109,  
12 GAGE. SET FLUSH  
TO TOP PLATE

CREST OF  
C.M. RISER



(e) BAR, 1/2" DIAM. WITH THREADED  
ENDS AND CAST LUG FASTENER

SECTION A-A

ALL BARS FORMING CONICAL TRASH  
RACK ARE MARK (a) BARS, UNLESS  
OTHERWISE NOTED.



United States  
Department of  
Agriculture

Natural Resources  
Conservation Service

CONICAL TRASH RACK AND  
BAFFLE PLATE FOR 18" TO 36"  
DIAM. C.M. RISERS

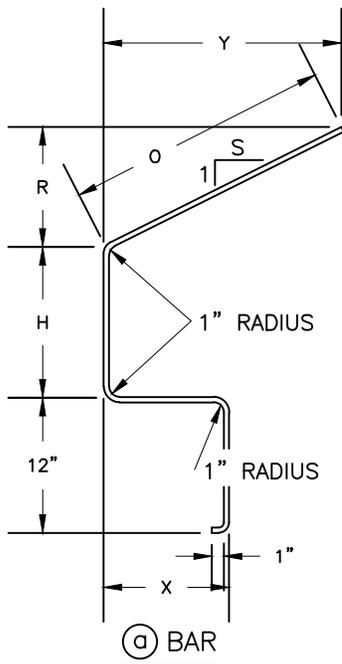
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WI-275  
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07/14  
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NOTES:

1. WELD 4 MARK (a) BARS TO BAFFLE PLATE AND TO TOP PLATE. WELD MARK (c) AND MARK (d) BARS TO 4 MARK (a) BARS. WELD MARK (b) BAR TO MARK (a) BARS. WELD REMAINING MARK (a) BARS TO MARK (b), MARK (c), AND MARK (d) BARS AND TOP PLATE.
2. THE TRASH RACK AND ANTIVORTEX BAFFLE PLATE, MAY BE FABRICATED AS A UNIT, OR TRASH RACK MAY BE FABRICATED IN IDENTICAL HALVES AND ATTACHED TO BAFFLE PLATE WITH 1/2" DIAM. U BOLTS SPACED APPROXIMATELY 12 INCHES CENTER TO CENTER ALONG THE VERTICAL AND INCLINED SECTIONS OF THE MARK (a) BARS NEXT TO THE PLATE.
3. ALL BARS ARE SMOOTH ROUND BARS.
4. COAT WITH A RUST INHIBITIVE PAINT.



BENDING DIAGRAMS

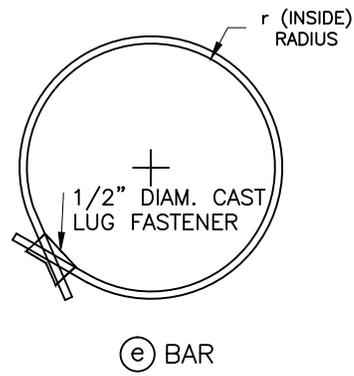
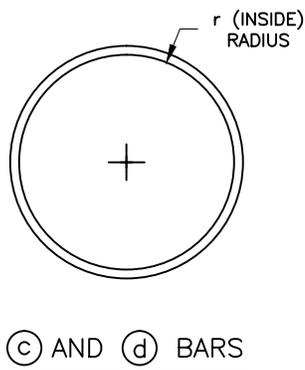
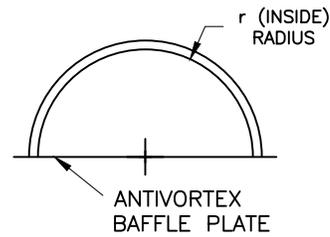


TABLE OF DIMENSIONS AND QUANTITIES												
Ⓐ BARS 5/8" DIAMETER								ANTIVORTEX BAFFLE PLATE				
H	R	X	Y	S	O	TOTAL	NO.	N	L	P	F	V
INCHES	INCHES	INCHES	INCHES		INCHES	LENGTH	REQ'D	INCHES		INCHES	INCHES	INCHES
<b>18" DIAMETER CORRUGATED METAL RISER</b>												
9	14-1/8	6	14-1/8	1	20	4'	10	11-7/16	3'	21	8	8
<b>21" DIAMETER CORRUGATED METAL RISER</b>												
12	9-1/4	9	18-1/2	2	20-5/8	4' 6-5/8"	12	12-3/8	4'	18	12	6
<b>24" DIAMETER CORRUGATED METAL RISER</b>												
15	11-3/8	12	22-3/4	2	25-3/8	5' 5-3/8"	12	14-13/16	4'-6"	24	18	9
<b>30" DIAMETER CORRUGATED METAL RISER</b>												
18	9-1/2	15	28-1/2	3	30	6' 4"	14	15-13/16	6'	24	21	7
<b>36" DIAMETER CORRUGATED METAL RISER</b>												
21	12-1/2	21	37-5/8	3	39-1/2	7'10-1/2"	16	17-5/16	7'-6"	30	30	10

TABLE OF DIMENSIONS AND QUANTITIES													
Ⓑ BARS 5/8" DIAMETER			Ⓒ BARS 5/8" DIAMETER			Ⓓ BARS 5/8" DIAMETER			Ⓔ BARS 5/8" DIAMETER			TOP PLATE	
NO.	r	LENGTH	NO.	r	LENGTH	NO.	r	LENGTH	NO.	r	LENGTH	DIAM.	
REQ'D	INCHES	INCHES	REQ'D	INCHES	INCHES	REQ'D	INCHES	INCHES	REQ'D	INCHES	INCHES	INCHES	
<b>18" DIAMETER CORRUGATED METAL RISER</b>													
2	14-5/16	46	1	10	62-10	1	14-5/16	92	1	10-1/4	73	3	
<b>21" DIAMETER CORRUGATED METAL RISER</b>													
2	18-13/16	60	1	11-1/2	72-1/4	1	18-13/16	120	1	11-3/4	82-1/2	3-1/2	
<b>24" DIAMETER CORRUGATED METAL RISER</b>													
2	23-5/16	74	1	13	81-8	1	23-5/16	148	1	13-1/4	91-1/2	3-1/2	
<b>30" DIAMETER CORRUGATED METAL RISER</b>													
2	29-5/16	93	1	16	100-1/2	1	29-5/16	186	1	16-1/4	111	4	
<b>36" DIAMETER CORRUGATED METAL RISER</b>													
2	38-3/8	121-1/2	1	19	119-5	1	38-3/8	243	1	19-1/4	129	4	