29N205

TABLE OF DIMENSIONS AND QUANTITIES													
ⓐ BARS 5/8 DIAM									ANTI–VORTEX PLATE 12 GA				TOP PLATE 1/4 THICK
H	R	X	Y	S	O	Total	No	N	L	P	F	V	Diam
Inches	Inches	Inches	Inches		Inches	LENGTH	Req'd	Inches		Inches	Inches	Inches	Inches
18	9 1/2	15	28 1/2	3	30	6–4	14	15 13/16	6–0	24	21	7	4

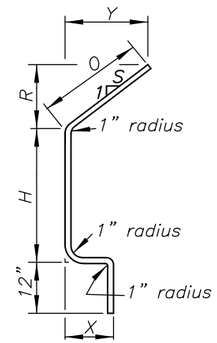
ⓑ BARS 5/8 DIAM			ⓒ BARS 5/8 DIAM			ⓓ BARS 5/8 DIAM			ⓔ BARS 1/2 DIAM		
No	r	Length	No	r	Length	No	r	Length	No	r	Length
Req'd	Inches	Inches	Req'd	Inches	Inches	Req'd	Inches	Inches	Req'd	Inches	Inches
2	24 5/16	93	1	14 3/8	90 3/8	1	29 5/16	186	1	15 5/8	110

Length of ⓑ , ⓒ , ⓓ and ⓔ bars based on inside radius.

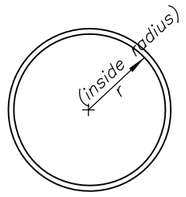
Approximate Weight of Trash Rack = 182 Pounds (Steel)

FABRICATION NOTES:

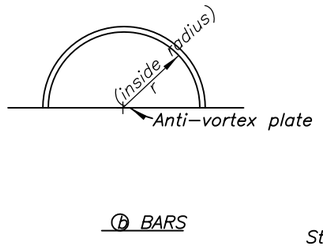
1. Weld 4 ⓐ Bars to vortex plate and to top plate. Weld ⓒ and ⓓ bars to 4 ⓐ bars. Weld ⓑ bar to ⓐ bars and vortex plate. Weld remaining ⓐ bars to ⓑ, ⓒ and ⓓ bars and top plate.
2. The trash rack and antivortex plate may be fabricated as a unit, or trash rack may be fabricated in identical halves and attached to the vortex plate with 1/2" diam. U bolts spaced approximately 12" c–c along the vertical and inclined sections of the ⓐ bars next to the plate.
3. All bars are to be smooth round bars.
4. The trash rack shall have one coat of paint.
5. Trash rack to be fabricated from smooth round steel bars conforming to ASTM Designation A–36.



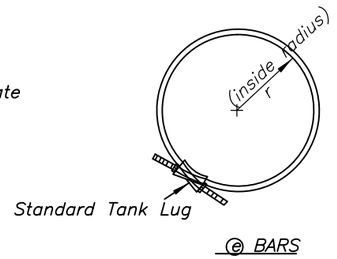
ⓐ BARS



ⓒ AND ⓓ BARS



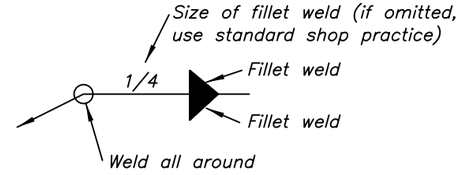
ⓑ BARS



ⓔ BARS

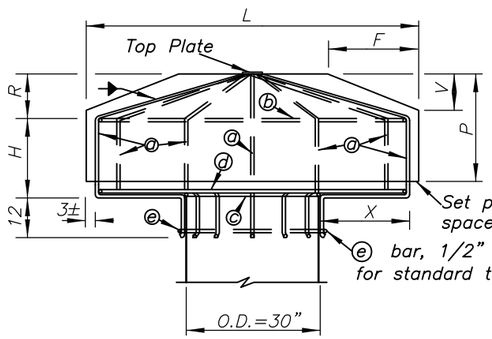
BENDING DIAGRAM

WELD SYMBOLS

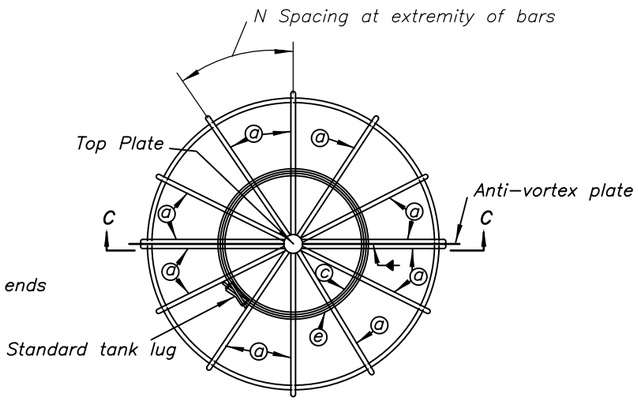


NOTES: Weld symbol above line indicates weld is on opposite side of joint to which arrow points.

Weld symbol below line indicates weld is on side to which arrow points.



SECTION C–C



PLAN

DETAILS OF CONICAL TRASH RACK FOR VERTICAL PIPE INLET

N.T.S.

7/03

Date
Designed
Drawn
Checked
Approved

CONICAL TRASH RACK DETAIL FOR 30" DIAMETER SMOOTH RISER

United States Department of Agriculture
Natural Resources Conservation Service
NRCS

DRAFT

NOT FOR CONSTRUCTION

File Name

Drawing Name
29–N–205

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