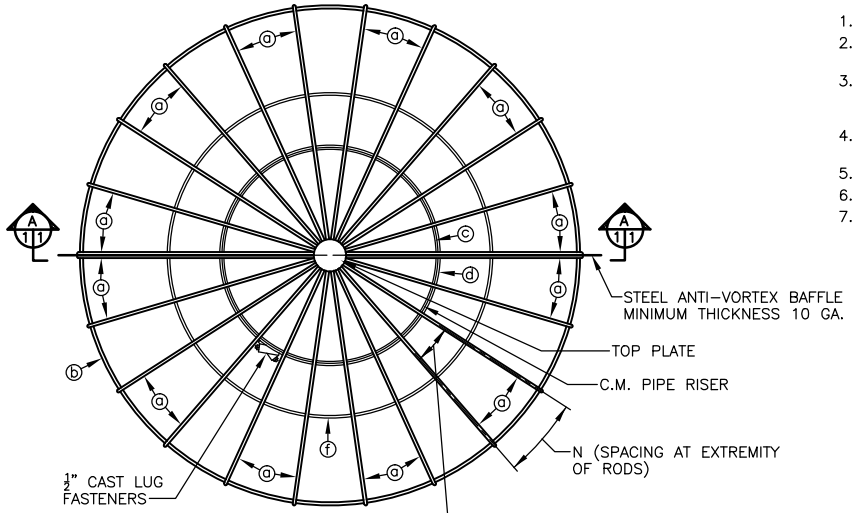
TABLE OF CAPACITIES, DIMENSIONS AND QUANTITIES

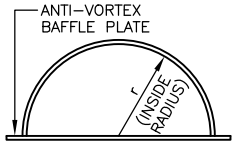
Q	ⓐ RODS – ¾" DIA.										BAFFLE PLATE				ⓑ RODS – ¾" DIA.			ⓒ RODS – ⅝" DIA.			ⓓ RODS – ½" DIA.			ⓔ RODS – ¾" DIA.			ⓕ RODS – ⅝" DIA.			TOP PLATE DIA. INCHES
	H	R	X	Y	S	O	TOTAL	NO.	N	M	L	P	F	V	NO.	r	LENGTH	NO.	r	LENGTH	NO.	r	LENGTH	NO.	r	LENGTH	NO.	r	LENGTH	
WEIR FLOW (C.F.S.)	INCHES	INCHES	INCHES	INCHES		INCHES	LENGTH	REQ'D.	INCHES	INCHES		INCHES	INCHES	INCHES	REQ'D.	INCHES	INCHES	REQ'D.	INCHES	INCHES	REQ'D.	INCHES	INCHES	REQ'D.	INCHES	INCHES	REQ'D.	INCHES	INCHES	
42" DIAMETER C.M. PIPE RISER (MAX. BARREL = 36" DIA.)																														
124	27	24¼	30	48½	2	54	10'–4"	20	17 13/16	7⅜	9'–3"	48	38	19	6	50	157¾	2	21	66½	2	22⅜	149	–	–	–	2	34	106¾	6
48" DIAMETER C.M. PIPE RISER (MAX. BARREL = 36" DIA.)																														
141	27	25¾	30	51½	2	57½	10'–7½"	22	17⅞	7 11/16	9'–9"	48	38	19	6	53	167¼	2	24	75½	2	25⅜	168	–	–	–	2	36	113¾	6
54" DIAMETER C.M. PIPE RISER (MAX. BARREL = 42" DIA.)																														
186	30	29 13/16	36	59½	2	66¾	12'–1¾"	24	18 1/16	7¾	11'–4"	58	50	25	6	62⅛	195⅞	2	27	85½	2	28⅜	186	4	STR.	46	2	42¼	133⅜	8
60" DIAMETER C.M. PIPE RISER (MAX. BARREL = 48" DIA.)																														
238	33	31¾	49	75½	2⅜	81¾	14'–8¾"	30	17 13/16	6⅞	14'–0"	60	57	24	6	78⅛	246½	2	30	95	2	31⅜	206	2	STR.	57	2	53¼	168	8

NOTES

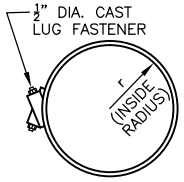
1. WELD ⓑ,ⓒ AND ⓕ RODS TO ⓐ RODS AND WELD ⓐ RODS TO TOP PLATE
2. WHEN ⓔ RODS ARE USED, WELD THEM TO THE ⓐ RODS THAT ARE PERPENDICULAR (OR THE TWO ⓐ RODS MOST NEARLY PERPENDICULAR) TO THE ANTI–VORTEX BAFFLE PLATE.
3. THE TRASH RACK MAY BE FABRICATED IN IDENTICAL HALVES AND ATTACHED TO THE BAFFLE PLATE WITH 1/2–INCH DIAMETER U–BOLTS SPACED APPROXIMATELY 12–INCHES C–C ALONG THE VERTICAL AND INCLINED SECTIONS OF THE ⓐ RODS NEXT TO THE PLATE.
4. Q IN THE TABLE IS BASED ON WEIR FLOW FOR INDICATED DEPTH OF FLOW (H), USING A WEIR COEFFICIENT OF 333.
5. TRASH RACK SHOWN ON THIS PLAN IS FOR A 54 INCH DIAMETER C.M. PIPE RISER.
6. STANDARDIZED DESIGNS – MUST BE ADAPTED THE SPECIFIC SITE.
7. METAL SHALL CONFORM TO THE REQUIREMENTS OF CONSTRUCTION SPECIFICATION 81, METAL FABRICATION AND INSTALLATION OR ENGINEERING STANDARD AND SPECIFICATION 378, POND.



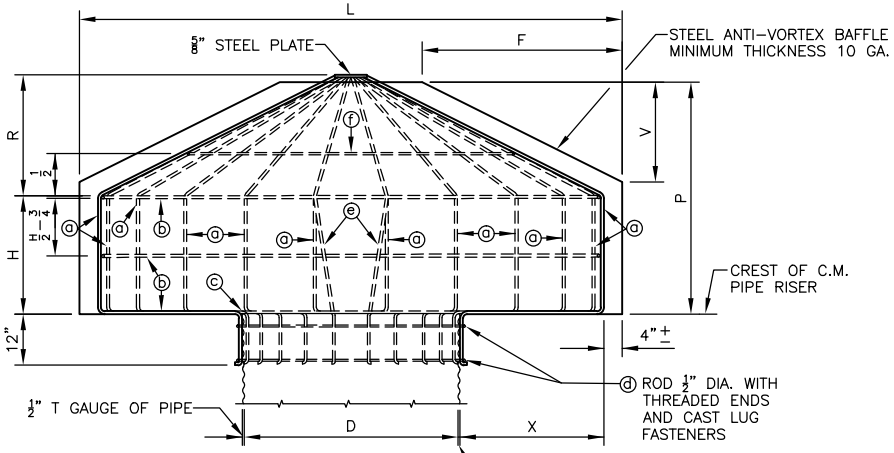
PLAN
NO SCALE



BENDING DIAGRAM FOR ⓑ,ⓒ&ⓕ RODS
NO SCALE



BENDING DIAGRAM FOR ⓓ RODS
NO SCALE



SECTIONAL ELEVATION (A 1/1)
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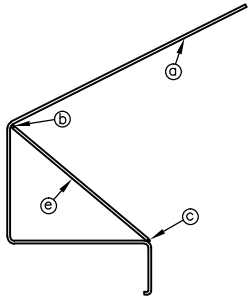

CONSTRUCTION DIAGRAM FOR ⓔ RODS
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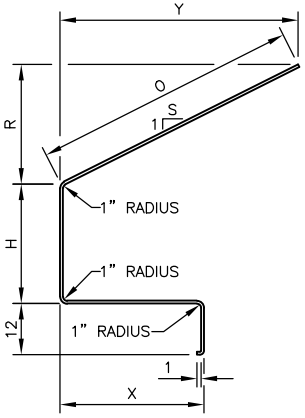

BENDING DIAGRAM FOR ⓐ RODS
NO SCALE

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

TRASH RACK AND BAFFLE PLATE FOR C.M. PIPE RISERS

(REVISED 7–10)

		Date
Designed	GRS, WRE	6–59
Drawn	DDD	7–10
Checked		
Approved	J.E. ANDREWS S.C.E.	7–10

File Name

Drawing Name CO–SSP–61

Sheet 1 of 1