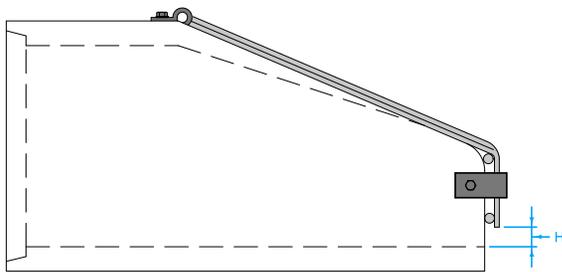
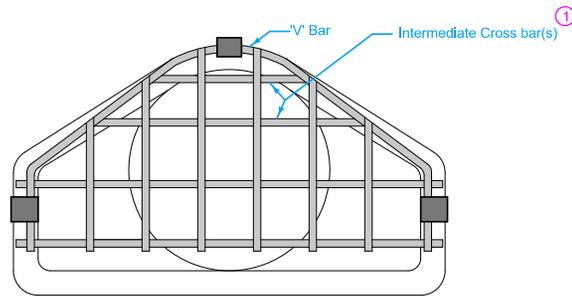


PLAN



PROFILE



FRONT

ROUND		ARCH	
PIPE SIZE	H	PIPE SIZE	H
12"	2½"	22" x 14" to 29" x 18"	4"
15"	3"	37" x 23" to 44" x 27"	5"
18" - 24"	4"	52" x 32" to 65" x 40"	6"
27" - 36"	5"	73" x 45" to 88" x 54"	7"
42" - 54"	6"		
60" - 72"	7"		
78" - 90"	8"		

BAR SIZES				
	PIPE SIZE	HOLE DIA. REQ'D.	BOLT DIA.	BAR SIZE
ROUND	12" - 24"	¾"	¾"	¾"
	27" - 48"	7⁄8"	¾"	1"
	54" - 90"	1 1⁄8"	1"	1 1⁄4"
ARCH	up to 29" x 18"	¾"	¾"	¾"
	37" x 23" to 59" x 36"	7⁄8"	¾"	1"
	65" x 40" to 88" x 54"	1 1⁄8"	1"	1 1⁄4"

BOLT LENGTH = PIPE WALL THICKNESS + 2½"

Provide guard dimensions to fit with Type of apron provided (RF-3 or RF-42). 'V' Bar to completely rest on apron.

Use ASTM A615, Grade 40, or merchant quality, smoothed or deformed steel bars in construction of the guard. Conform to fabrication requirements of Standard Specifications Section 2404.

Hot-dip galvanize the completed apron guard in accordance with ASTM A123.

Use bolts, nuts, washers, and fasteners complying with Article 4153.06 of the Standard Specifications.

- ① All guards to have at least one intermediate cross bar. If pipe size is 60 inches or greater, use two intermediate cross bars equally spaced.

Possible Tabulation:  
104-3

 Iowa Department of Transportation	REVISION	
	10	10-15-13
<b>STANDARD ROAD PLAN</b>	<b>RF-26</b>	
	SHEET 1 of 1	
REVISIONS: Modified notes.		
 APPROVED BY DESIGN METHODS ENGINEER		
<b>PIPE APRON GUARD</b>		