



- 1. TOE PLATE TO BE PUNCHED TO MATCH HOLES IN SKIRT LIP.
- 2. 3/8" GALVANIZED BOLTS TO BE FURNISHED, LENGTH OF TOE PLATE IS W + 10" WITH RISE OF 13" TO 29" INCLUDED AND W + 18" MIN. WITH RISE OF 33" TO 47" INCLUDED.
- 3. SKIRT SECTION WITH RISE OF 13" TO 24" INCLUDED TO BE MADE IN ONE PIECE.
- 4. SKIRT SECTION WITH RISE OF 29" TO 38" INCLUDED MAY BE MADE FROM TWO SHEETS JOINED BY RIVETING OR BOLTING ON CENTER LINE.
- 5. SKIRT SECTION WITH RISE OF 43" TO 47" INCLUDED MAY BE MADE FROM THREE SHEETS JOINED BY RIVETING OR BOLTING AT EQUAL DISTANCES FROM CENTER LINE.
- 6. CONNECTOR SECTION, CORNER PLATE AND TOE PLATE TO BE SAME SHEET THICKNESS AS SKIRT AND SAME TYPE OF MATERIAL AS CULVERT.
- 7. WHERE FLARED END SECTIONS ARE TO BE USED WITH ASPHALT COATED AND PAVED METAL PIPE, END SECTIONS DO NOT NEED TO BE COATED OR PAVED.
- $8.^{\mbox{\#}}\mbox{Indicates pipe arches for which dimensions for either corrugation may be used within fill height limitations.$

PIPE-ARCH DIMENSIONS											
3'' x	1" and	5" x 1"	$2^{2}/_{3} \times \frac{1}{2}$				DIMENSIONS				
CORRUGATIONS			CORRUGATIONS				A	В	Н	E	w
SPAN	RISE	SHEET THICK- NESS	SPAN	RISE	SHEET THICKNESS		1'' TOL.	MAX.	1'' TOL.	1½" TOL.	2'' TOL.
					STEEL	ALUM.	. 52.	1417 171.	JOL.	LIGE	101.
			17''	13''	.064"	.060	41/2"	9''	6"	19''	30"
			21"	15''	.064"	.060	51/4"	10''	6"	23"	36"
			24"	18''	.064"	.060	61/4"	111/2"	6''	28"	42"
			28''	20''	.064"	.060	7"	14''	6''	311/2"	48''
			35''	24"	.064"	.075	8¾''	16''	6"	381/2"	60''
40"	31''	.079''	42"	29''	.064"	.105	103/4"	171/2"	75/8"	47"	75''
46''	36''	.079''	49''	33''	.109''	.105	121/4"	20"	91/8''	54"	85"
53''	41''	.079''	57''	38''	.109''	.105	14''	22"	105/8''	63''	96"
60"	46''	.079''	64''	43"	.109''	.105	15¾''	23''	105/8"	70"	112''
66"	51''	.079''	71''	47''	.138''	.135	171/4"	24"	121/8"	77''	128''

FLARED END-SECTION FOR METAL PIPE-ARCHES

13" - 47" RISE

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

302