

# CORRUGATED METAL CULVERT

## GAGE SELECTION AND INSTALLATION

CORRUGATED METAL PIPE  
GAGE TABLE FOR 2 2/3' X 1/2' CORRUGATIONS

AREA (SQ. FT.)	DIA. (IN.)	HEIGHT OF COVER (FEET)									
		1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
1.8	18										
2.4	21									10	10
3.1	24								10	10	10
4.9	30					10	10	10	8°	8°	8°
7.1	36				10	8	8	8°	8°	8°	8°
9.6	42			10	8	8					
12.6	48	USE ELONGATED CORRUGATED METAL PIPE FOR THESE TABULAR VALUES									
13.9	54										
19.6	60										
23.8	66										
28.3	72										

ELOGATED CORRUGATED METAL PIPE  
GAGE TABLE FOR 2 2/3' X 1/2' CORRUGATIONS

DIA. (IN.)	HEIGHT OF COVER (FEET)												
	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100			
18	USE ROUND CORRUGATED METAL PIPE FOR THESE TABULAR VALUES												
21													
24													
30													
36													
42									8	8°	8°	8°	8°
48	10	10	8	8	8	8	8°	8°	8°	8°			
54	8	8	8	8	8°	8°	8°	8°					
60	8	8	8	8	8°								
66	8	8	8°										
72	8	8°											

**NOTES**

• TRENCH ONE (1) DIAMETER

1. **MINIMUM DIAMETER :** TO BE 36" UNLESS APPROVED BY BRIDGE OFFICE.
2. **MATERIAL :** TO BE GALVANIZED STEEL ASTM A 444-89, WITH 2 2/3' X 1/2' ANNULAR CORRUGATION.
3. **COATING :** PIPE AND BANDS TO BE FULLY ASPHALT COATED.
4. **CONNECTING BANDS :** MAY BE ( ONE ) GAGE LIGHTER THAN CULVERT MATERIAL. ALL BANDS UNDER COMPANY OWNED TRACKS ARE TO BE ONE PIECE, TWO FEET WIDE. CULVERTS 48" DIAMETER AND LARGER TO USE TWO FOOT BAND WITH FOUR - 1/2" DIAMETER RODS AND SILO LUGS.
5. **INSTALLATION :** TO BE IN ACCORDANCE WITH STANDARD PLAN 5-28. WHERE CULVERTS ARE INSTALLED IN OPEN CUT TO REPLACE FAILED CULVERTS, BEDDING AND BACKFILL TO BE CRUSHER RUN STONE.
6. **ELONGATED PIPE :** SHALL NOT HAVE LESS THAN 5% VERTICAL ELONGATION. ELONGATED PIPE 48" IN DIAMETER AND LARGER SHALL BE SHOP WIRE STRUTTED.
7. **EXCEPTIONS :** THE GAGE TABLES ARE TO PROVIDE ADEQUATE STRENGTH. EXCEPTIONS MUST BE CLEARED BY BRIDGE OFFICE. WHERE KNOWN CONDITIONS WILL AFFECT THE SERVICE LIFE OF THE CULVERT, ADDITIONAL GAGE REQUIREMENTS WILL BE FURNISHED BY THE BRIDGE OFFICE.
8. **MINIMUM COVER :** SHALL BE 24" OR 1/2 PIPE DIAMETER, WHICHEVER IS GREATER, AS MEASURED BETWEEN BOTTOM OF TIE AND TOP OF PIPE. EXCEPTIONS TO THIS CRITERIA WILL BE CONSIDERED ON AN INDIVIDUAL BASIS.