

QUANTITIES FOR	CONCRETE PIPES					
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED 20" WIDTH CU.YD.					
INCH						
4''	0.14					
6′′	0.16					
8′′	0.19					
10''	0.22					
12''	0.25					
15''	0.30					
18''	0.35					
24''	0.45					
30''	0.57					
36''	0.69					
42''	0.83					
48′′	0.97 1.12					
54''						
60''	1.28					

QUANTITIES FOR METAL PIPES								
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRET REQUIRED 2011 WIDTH							
INCH	CU.YD.							
4"	0.12							
6′′	0.14							
8''	0.16							
10″	0.19							
12''	0.21							
15″	0.25							
18''	0.29							
24''	0.38							
30''	0.47							
36''	0.59							
42′′	0.69							
48′′	0.81							
54''	0.93							
60''	1.05							

FILE NAME =	USER NAME = rjo	DESIGNED -	REVISED -						SECTION	COUNTY TOTAL SHEET
pipecul.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	CONCRETE COLLAR DETAIL			103	27-1-VHB-1	ST. CLAIR 277 112
	PLOT SCALE = 100.0000 ' / IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT NO. 76884
	PLOT DATE = 10/17/2011	DATE - 10/19/11	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD D	IST. NO. ILLINOIS FED	AID PROJECT

USE 4 EXPANSION BOLTS FOR CULVERTS SMALLER THAN 24"

USE 8 EXPANSION BOLTS FOR CULVERTS 24" AND LARGER

GENERAL NOTES:

- 1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
- 2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIMENSIONS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIMENSION. (SEE END VIEW)
- THE WIRE MESH SHALL WEIGHT NOT LESS THAN 54 POUNDS PER 100 SQ. FT.
- 4. WHEN CONCRETE COLLARS ARE CONSTRUCTED AJACENT TO AN EXISTING CONCRETE STRUCTURE (HEADWALLS, ETC.) EXPANSION BOLTS SHALL BE USED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, FOR EXPANSION BOLTS OF THE SIZE SPECIFIED IN THE PLANS.
- CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, CU. YD., FOR CONCRETE COLLAR INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.
- 6. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.