

INSIDE DIAMETER	ESTIMATED						
OF PIPE	CLASS SI CONCRETE						
	REQUIRED						
	20" (500 mm) WIDTH						
INCH (mm)	CU. YD. (m3)						
4'' (100)	0.14 (0.11)						
6′′ (150)	0.16 (0.12)						
8" (200)	0.19 (0.14)						
10" (250)	0.22 (0.17)						
12" (300)	0.25 (0.19)						
15'' (375)	0.30 (0.23)						
18" (450)	0.35 (0.27)						
24'' (600)	0.45 (0.35)						
30'' (750)	0.57 (0.43)						
36" (900)	0.69 (0.53)						
42" (1050)	0.83 (0.63)						
48" (1200)	0.97 (0.74)						

1.12 (0.86) 1.28 (0.98)

54" (1350)

60" (1500)

QUANTITIES FOR CONCRETE PIPES

QUANTITIES FOR METAL PIPES							
INSIDE DIAMETER	ESTIMATED						
OF PIPE	CLASS SI CONCRETE						
	REQUIRED						
	20" (500 mm) WIDTH						
INCH (mm)	CU. YD. (m3)						
4" (100)	0.12 (0.09)						
6" (150)	0.14 (0.11)						
8" (200)	0.16 (0.12)						
10" (250)	0.19 (0.14)						
12" (300)	0.21 (0.16)						
15" (375)	0.25 (0.19)						
18" (450)	0.29 (0.22)						
24" (600)	0.38 (0.29)						
30" (750)	0.47 (0.36)						
36" (900)	0.59 (0.45)						
42" (1050)	0.69 (0.53)						
48" (1200)	0.81 (0.62)						
54'' (1350)	0.93 (0.71)						
60′′ (1500)	1.05 (0.81)						

GENERAL NOTES

- 1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
- 2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIAMETERS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIAMETER (SEE END VIEW).
- 3. THE WIRE MESH SHALL WEIGH NOT LESS THAN 54#/100 SQ. FT. (2.63 kg/m²).
- 4. WHEN CONCRETE COLLARS ARE CONSTRUCTED ADJACENT 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.
- 5. CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, PER CUBIC YARD (CUBIC METER), FOR CONCRETE COLLARS INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

ſ	FILE NAME =	USER NAME = hoganbj	DESIGNED -	REVISED - 12/06		CONCRETE COLLAR			F.A.I.	SECTION	COUNTY	CHEETS	SHEET	
	c:\pw_work\pwidot\hoganbj\d0158340\D570	50-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS				74	(57-20(1),21,22)RS-3	MCLEAN	150	91	
		PLOT SCALE = 40.00000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRAC	CT NO. 70	550	
I	PLOT DATE = 10/21/2010		DATE -	REVISED -		SCALE:	SHEET NO. OF	SHEETS STA.	TO STA.	FED. ROA	AD DIST. NO. ILLINOIS FED. A	ID PROJECT		