

QUANTITIES FOR	CONCRETE PIPES						
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)						
54'' (1350)	1.12 (0.86)						
60'' (1500)	1.28 (0.98)						

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.

McDonough-Whitlow, P.C.

Consulting Engineers & Land Surveyors

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Hillsboro, IL 62049
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PROFESSIONAL DESIGN No. 184-002754

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

DISTRICT 5 DETAIL NO. 54248510

FILE NAME =	USER NAME = JLM	DESIGNED -	JAH	REVISED -		CONCRETE COLLAR				F.A.I.	SECTION	COUNTY	TOTAL SHEET
D570967-xxx-DETSHT1.dgn		DRAWN -	JLM	REVISED -	STATE OF ILLINOIS					74	MEDIAN CABLE 2012-2	VERMILION	120 43
	PLOT SCALE =	CHECKED -	ТММ	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRAC	T NO. 70967
	PLOT DATE =	DATE -		REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	