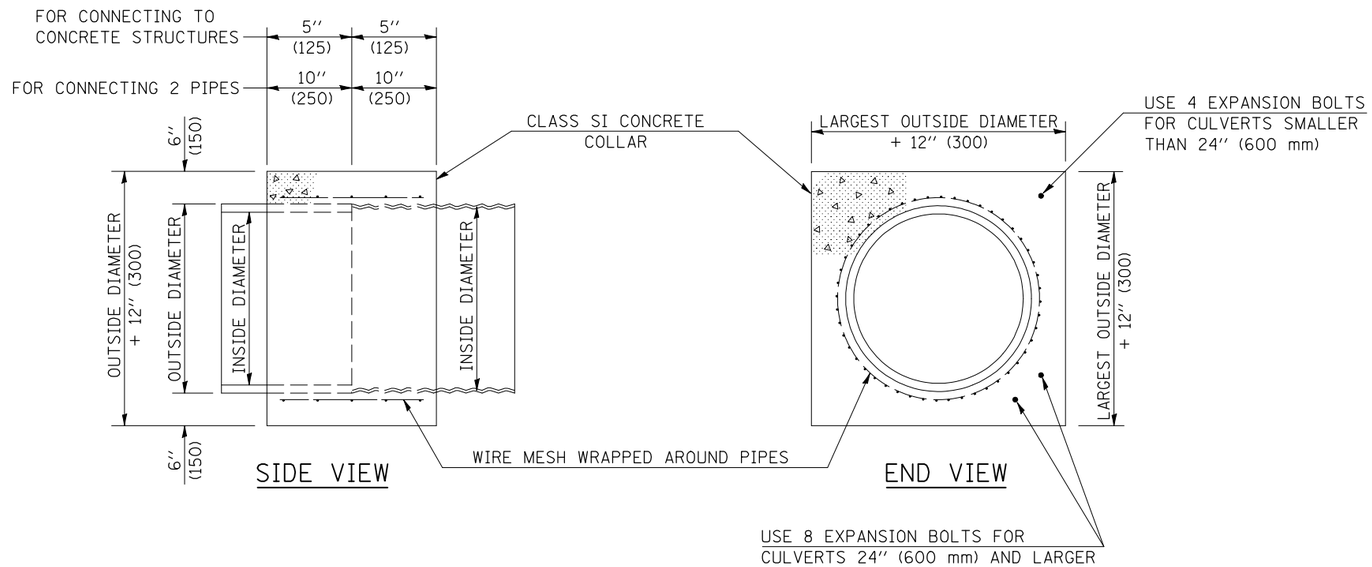

QUANTITIES FOR CONCRETE PIPES	
INSIDE DIAMETER OF PIPE INCH (mm)	ESTIMATED CLASS SI CONCRETE REQUIRED 20'' (500 mm) WIDTH CU. YD. (m^3)
4'' (100)	0.14 (0.11)
6'' (150)	0.16 (0.12)
8'' (200)	0.19 (0.14)
10'' (250)	0.22 (0.17)
12'' (300)	0.25 (0.19)
15'' (375)	0.30 (0.23)
18'' (450)	0.35 (0.27)
24'' (600)	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 OF PIPE INCH (mm)	ESTIMATED CLASS SI CONCRETE REQUIRED 20'' (500 mm) WIDTH CU. YD. (m^3)
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/m^2).
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.

DISTRICT 5 DETAIL NO. 54248510

FILE NAME = c:\pw_work\pwidot\buckleslj\d0170848\D570507-sht-details.dgn	USER NAME = buckleslj	DESIGNED -	REVISED - 12/06
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/9/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE COLLAR FOR PIPE CULVERT

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	*	McLean	115	70
*(101,102X,RS-2 & 55RS-PRK LN		CONTRACT NO. 70507		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		