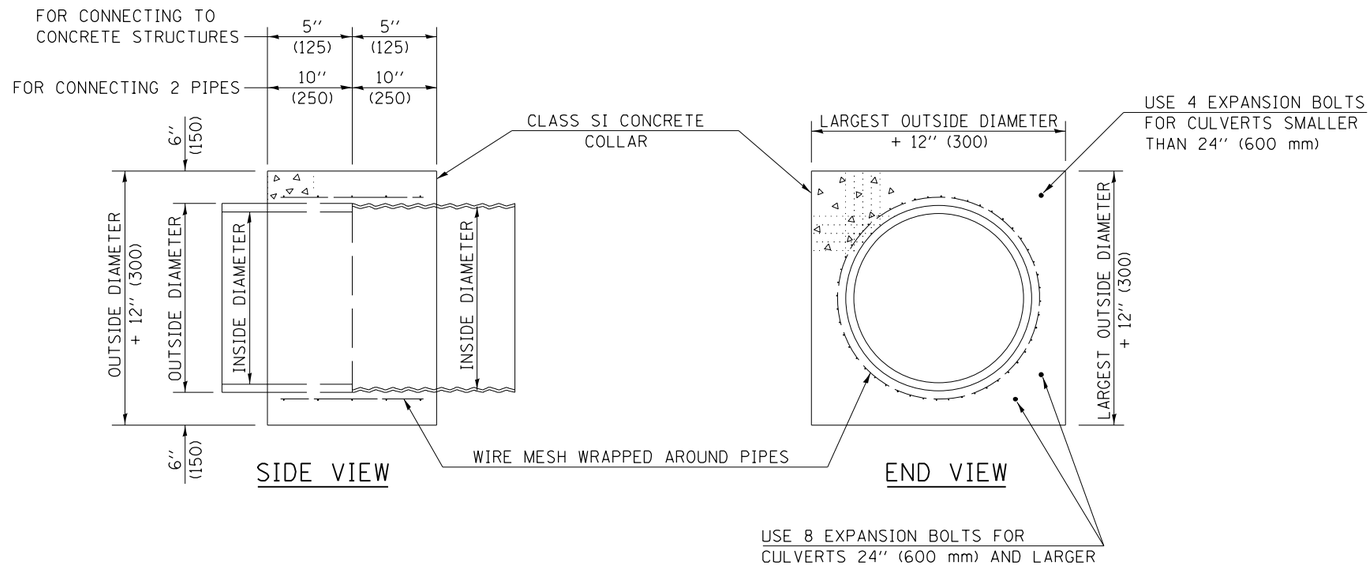

QUANTITIES FOR CONCRETE PIPES	
INSIDE DIAMETER OF PIPE INCH (mm)	ESTIMATED CLASS SI CONCRETE REQUIRED 20'' (500 mm) WIDTH CU. YD. (m^3)
4'' (100)	0.14 (0.11)
6'' (150)	0.16 (0.12)
8'' (200)	0.19 (0.14)
10'' (250)	0.22 (0.17)
12'' (300)	0.25 (0.19)
15'' (375)	0.30 (0.23)
18'' (450)	0.35 (0.27)
24'' (600)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

•CHAMPAIGN & VERMILION

McDonough-Whitlow, P.C.
Consulting Engineers & Land Surveyors
138 East Wood Street
Hillsboro, IL 62049
Phone: 217.532.9233
Fax: 217.532.6300
PROFESSIONAL DESIGN No. 184-002754

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

DISTRICT 5 DETAIL NO. 54248510

FILE NAME = D570966-xxx-DETSHT1.dgn	USER NAME = JLM	DESIGNED - -	REVISED -
		DRAWN - -	REVISED -
	PLOT SCALE =	CHECKED - -	REVISED -
	PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE COLLAR

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	MEDIAN CABLE 2012-1	•	130	42

CONTRACT NO. 70966

ILLINOIS | FED. AID PROJECT