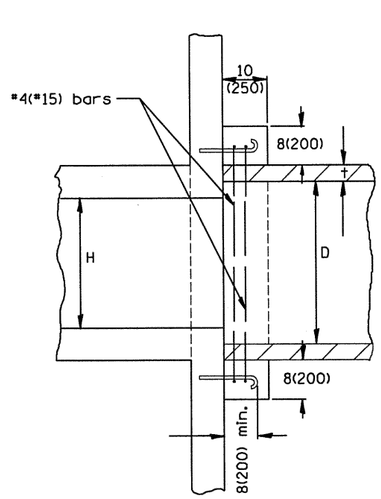
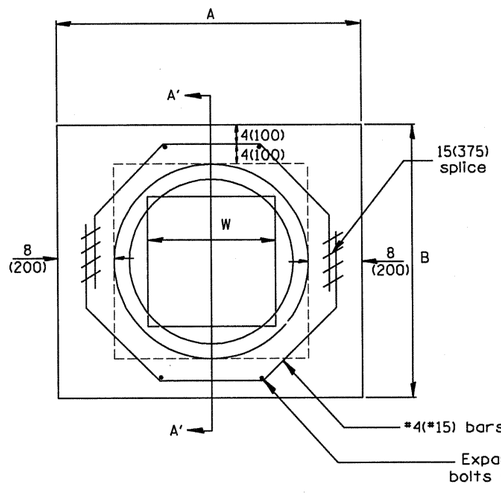
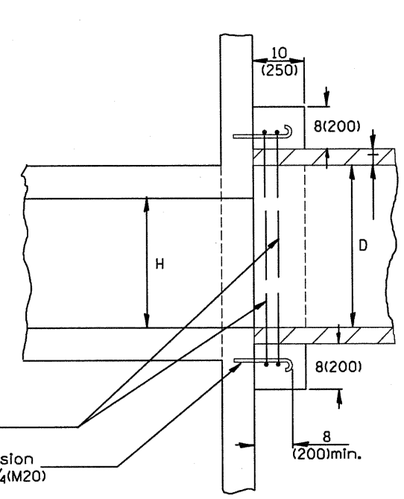


SECTION A'-A'

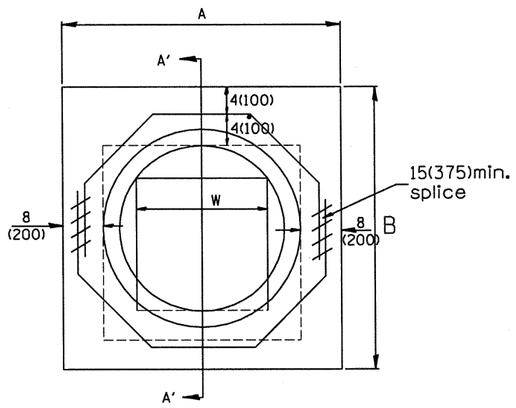


END VIEW

DOWN STREAM



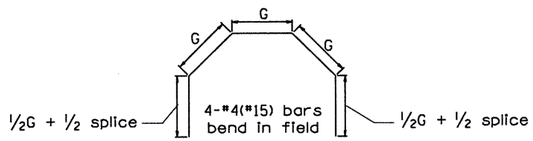
SECTION A'-A'



END VIEW

UP STREAM

EXISTING BOX		A	B	D	t	EACH COLLAR				
						CONC. COLLAR	REINFORCEMENT BARS			EXPANSION BOLT
W	H					CU. YD. (m³)	G	L	LBS.(KG)	EACH
12(300) PIPE		32 (810)	32 (810)	12 (300)	2(50)	0.18(0.14)	10 (254)	4'-7" (1.40m)	12(5.5)	4
18(450) PIPE		39 (990)	39 (990)	18 (450)	2½(65)	0.24(0.18)	12¾ (324)	5'-6" (1.68m)	15(7)	4
24(600) PIPE		3'-10" (1.17m)	3'-10" (1.17m)	24 (600)	3(75)	0.30(0.23)	15¾ (400)	6'-6" (1.98m)	17(8)	4
24(600)	24(600)	4'-5" (1.35m)	4'-5" (1.35m)	30 (750)	3½(90)	0.37(0.28)	18¾ (416)	7'-6" (2.29m)	20(9)	4
30(750)	30(750)	5'-0" (1.52m)	5'-0" (1.52m)	36 (900)	4(100)	0.45(0.34)	21½ (546)	8'-5" (2.57m)	22.5(10)	8
36(900)	36(900)	5'-7" (1.7m)	5'-7" (1.7m)	42 (1050)	4½(115)	0.50(0.38)	24½ (622)	9'-5" (2.87m)	25(11)	10
42(1050)	42(1050)	6'-2" (1.88m)	6'-2" (1.88m)	48 (1200)	5(125)	0.61(0.47)	27¼ (692)	10'-4" (3.15m)	28(12.5)	10
48(1200)	48(1200)	6'-9" (2.06m)	6'-9" (2.06m)	54 (1350)	5½(140)	0.80(0.61)	30¼ (768)	11'-4" (3.45m)	30(14)	10



GENERAL NOTES

1. The collar shall be constructed entirely of CLASS SI CONCRETE and in accordance with the applicable portions of Section 503 of the Standard Specifications. Reinforcement Bars shall conform to Section 508.
2. Expansion Bolts shall consist of approved Expansion Anchors, and ¾(M20) Hook Bolts which conform to Section 1006.09. These Bolts shall extend at least 8(200) into the new Concrete.

QUANTITIES

CALC. BY: _____ DATE:

CHECKED BY: _____ DATE:

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. J-11.02, NEW REVISION BOX, REVISED	T.P.
	TITLE BOX, ADDED QUANTITY CALCULATION BOX	
10-16-06	REV. TO 2007 SPEC., REINF. BATS COL.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIPE CULVERT EXTENSION COLLAR (WITH END SECTION)

NOT TO SCALE — CADD STD. 542001-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	15W-2,RS-3;16W-3,RS-5	FULTON	171	107
		CONTRACT NO. 88098		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		