

METHOD 1

EXISTING BOX		A	B	T*	EACH COLLAR				
W	H				CLASS SI	REINFORCEMENT BARS		STRAIGHT BARS	POUNDS
FOOT	FOOT				CU YD	X	Y	NO.	
3	3	5'-0"	5'-0"	4"	0.71	4'-8"	2'-10"	8	35
4	5	6'-2"	7'-2"	5"	0.99	5'-10"	3'-11"	12	47

METHOD 2

EXISTING BOX		A	B	T*	EACH COLLAR				
W	H				CLASS SI	REINFORCEMENT BARS		EXPAN. BOLTS	
FOOT	FOOT				CU YD	X	Y	POUNDS	NO.
3	3	5'-0"	5'-0"	4"	0.36	4'-8"	2'-10"	28	8
4	5	6'-2"	7'-2"	5"	0.49	5'-10"	3'-11"	37	12

CONCRETE COLLAR BILL OF MATERIAL						
LOCATION	CULVERT SIZE	METHOD 1	METHOD 2	CONC. COLLAR	REINF. BARS	EXPAN. BOLTS 3/4"
				CU YD	POUND	EACH
LT. STA. 490+33.16	4' X 5'	1	1	1.48	84	12
RT. STA. 490+33.16	4' X 5'		2	0.98	74	24
LT. STA. 497+77	3' X 3'	1	1	1.07	63	8
RT. STA. 497+77	3' X 3'		2	0.72	56	16
LT. STA. 28+73	3' X 3'	1	1	1.07	63	8
RT. STA. 28+73	3' X 3'		1	0.36	28	8
			TOTAL	5.68	368	76

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 3/4 HOOK BOLTS WHICH CONFORM TO SECTION 1006.08. THESE BOLTS SHALL EXTEND AT LEAST 8 INCHES INTO THE NEW CONCRETE.
3. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATION.

DRAWING NOT TO SCALE

FILE NAME = proplenshta.dgn	USER NAME = ghidneam	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COLLAR DETAIL FOR BOX CULVERT EXTENSIONS SHEET 2 OF 2			F.A.P. RTE. 315	SECTION 109RS-4-110RS-2	COUNTY FULTON	TOTAL SHEETS 48	SHEET NO. 48
	PLOT SCALE = 1/8" = 1' / IN.	CHECKED -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 68330				
	PLOT DATE = 3/23/2009	DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							