

SECTION A - A

## END VIEW

PLAN VIEW

LOCATION EXIST. BOX PROP. BOX CLASS SI CONCRETE U. YD. LASS SI CONCRETE U. YD. Image: Source (U, YD.) A B E X Y REBARS LBS. SADDES BADES BADES BADES BADES EXIST. INF EN EXIST. INF EXIST. INF MAGE ANGE   Image: Intermation of the problem of th										EAC	CH COLLA	R						
LOCATION BOLTS SEC.		EXIS	T. BOX		PROP. BO	Х	CLASS SI						REBARS	EXPANSION	EXT. L	.ENGTH	END	SKEW
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QUANTITIES

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE;

DOCUMENTATION SECTION

BUREAU OF PROJECT IMPLEMENTATION;

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.

## GENERAL NOTES

 Expansion bolts shall consist of approved expansion anchors, and <sup>3</sup>/<sub>4</sub> hook bolts which conform to section 1006.08. These bolts shall extend at least 8 into the new concrete.  This work will be paid for by the cubic yard for CONCRETE COLLAR, by the pound for REINFORCEMENT BARS, and by Each for EXPANSION BOLTS of the size indicated.

USF	SER NAME = Eric.Thomas	DESIGNED -	REVISED -		DRECAST SKEWED BOY		<b>EXTENSION COLLAR</b>	F.A. SECTION	COUNTY	TOTAL SHEET
		DRAWN -	REVISED -	STATE OF ILLINOIS	PRECAST SREWED BOX	COLVERTE	ATENSION COLLAR			SHEETO NO.
		CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				DISTRICT 4 DETAIL NO. 540106	CONTRACT	NO.
PLC	LOT DATE = 12/7/2022	DATE -	REVISED -		SCALE: NOT TO SCALE SHEET OF	SHEETS STA.	TO STA.	ILLINOIS FED.	AID PROJECT	



#4 \_\_\_ BAR FIVE REQUIRED PER COLLAR

- $D = \frac{8(200)+T}{\cos\theta}$
- $\mathsf{E} = [\mathsf{W} + 16 + 2\mathsf{T}] \tan\theta + 10$

X = B-8

$$Y = \frac{W/2 + T + 4}{\cos \theta} + 7$$

All dimensions are in inches unless otherwise noted.