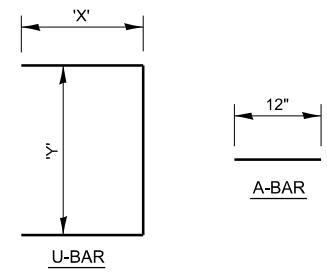


EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIA HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. BOLTS SHALL BE DRILLED IN THE CENTER OF THE EXISTING BOX CULVERT BARREL WALLS. MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS.



LOCATION	EXISTING CULVERT SIZE FT x FT	PIPE DIMENSION (ELLIPTICAL) IN	EXTENSION COLLAR		A-BAR 305 IN	U-BAR		CONC COLLAR CU YD	REINFORCEMENT BARS POUND	3/4" DIA EXPANSION BOLTS EACH
			WIDTH IN	HEIGHT IN		'X' IN	'Y' IN			

COLLAR DETAIL (ELLIP. CONC. EXTENSION OF BOX CULVERT)

540-8

MODEL: det 3_d.tbl
 FILE: \\msc01\pwworkspace\benley.com\PIV\DOT\Documents\DOT_Offices\DH\dtr_3\Projects\Carry_Detail\03_Detail_Revision\2023\500-599_STRUCTURES.dgn

USER NAME = Anthony.Grunstad	DESIGNED -	REVISED -
PLOT SCALE = 100,000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 9/27/23	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
--------	-------	----	--------	------	----	------

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.			ILLINOIS	FED. AID PROJECT