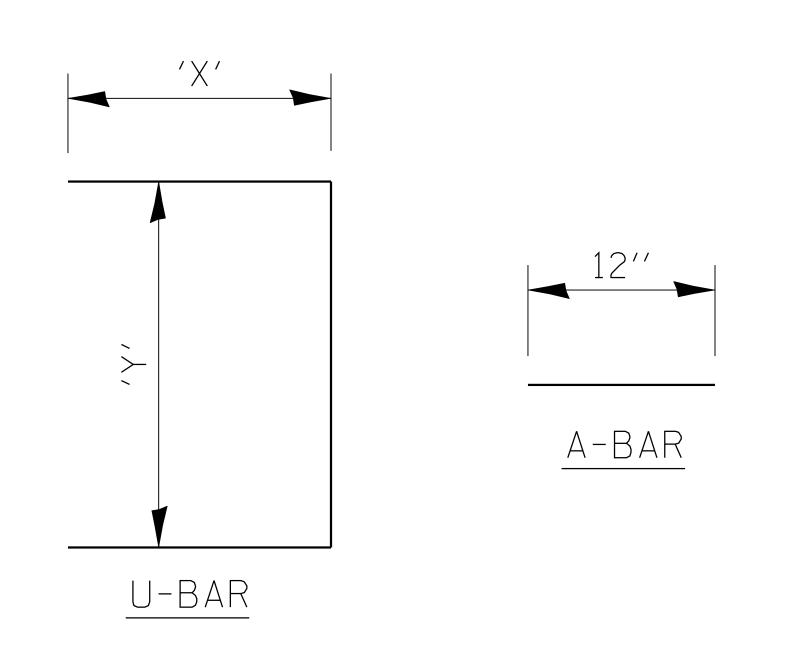


EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND $\frac{3}{4}$ " DIA. HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. BOLTS SHALL BE DRILLED IN THE CENTER OF THE EXISTING BOX CULVERT BARREL WALLS. MINIMUM CERTIFIRED PROOF LOAD = 4,080 LBS.



									QUANTI	TIES ARE FOR	ONE SIDE ONLY
LOCATION	EXISTING CULVERT SIZE	PIPE DIMENSION	PIPE AREA	EXTENSION COLLAR		A-BAR	U-BAR		CONC.	REINFORCEMENT BARS	3/4" DIA. EXPANSION BOLTS
				WIDTH	HEIGHT	305	′X′	'Y'	COLLAR		
	FT. × FT.	DIA. IN.	SQ. FT	. IN.	IN.	IN.	IN.	IN.	CU. YD.	POUND	EACH

COLLAR DETAIL (CMP EXTENSION OF BOX CULVERT)