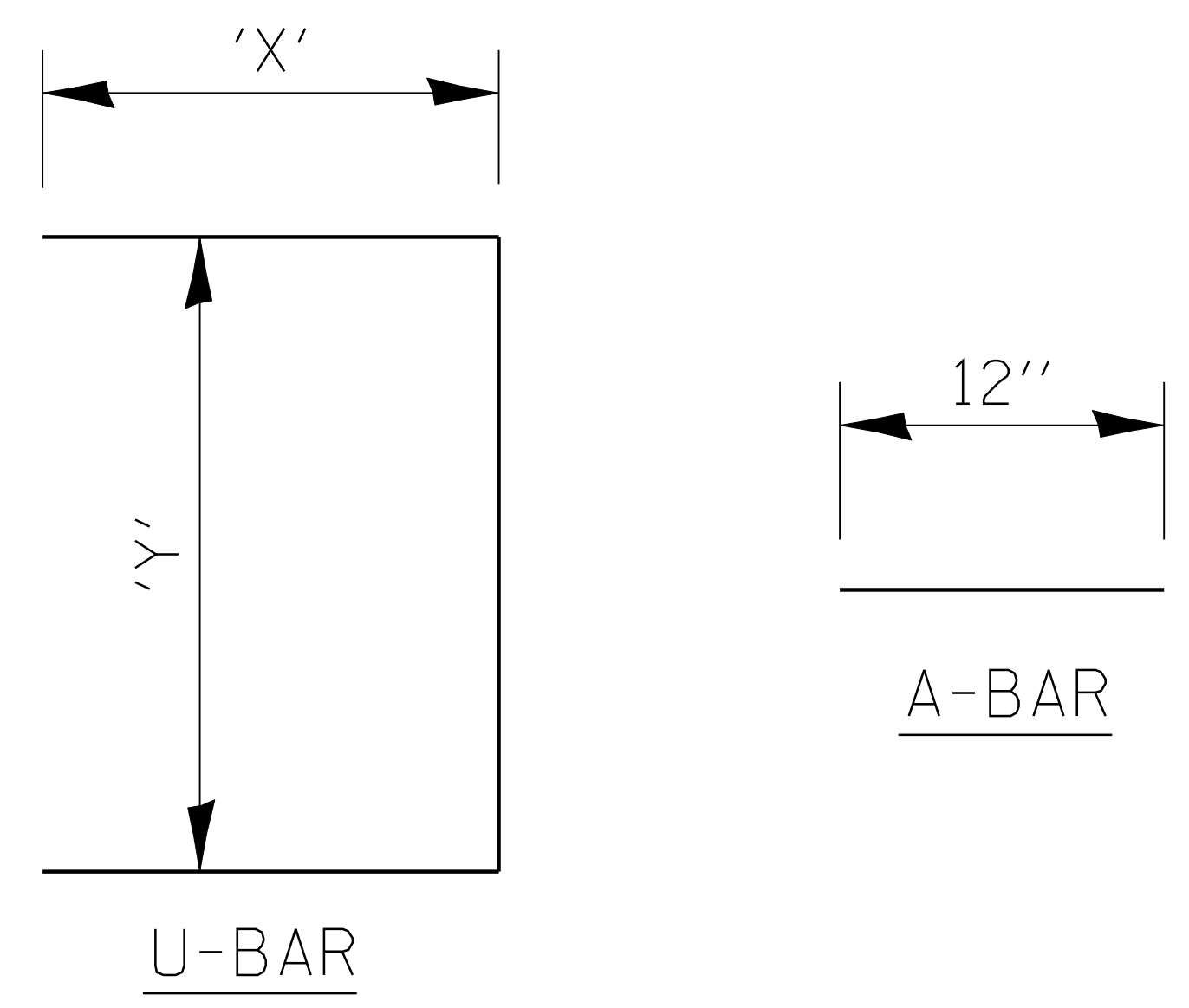


EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIA. HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. BOLTS SHALL BE DRILLED IN THE CENTER OF THE EXISTING BOX CULVERT BARREL WALLS. MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS.



LOCATION	EXISTING CULVERT SIZE FT. x FT.	PIPE DIMENSION			PIPE AREA SQ. FT.	EXTENSION COLLAR		A-BAR 380 IN.	U-BAR		QUANTITIES ARE FOR ONE SIDE ONLY			
		SPAN IN.	RISE IN.	EQUIV. IN.		WIDTH IN.	HEIGHT IN.		'X' IN.	'Y' IN.	CLASS SI CONC. COLLAR CU. YD.	REINFORCEMENT BARS POUND	3/4" DIA. EXPANSION BOLTS EACH	

**COLLAR DETAIL (A.D.E. CMP EXTENSION OF BOX CULVERT)**