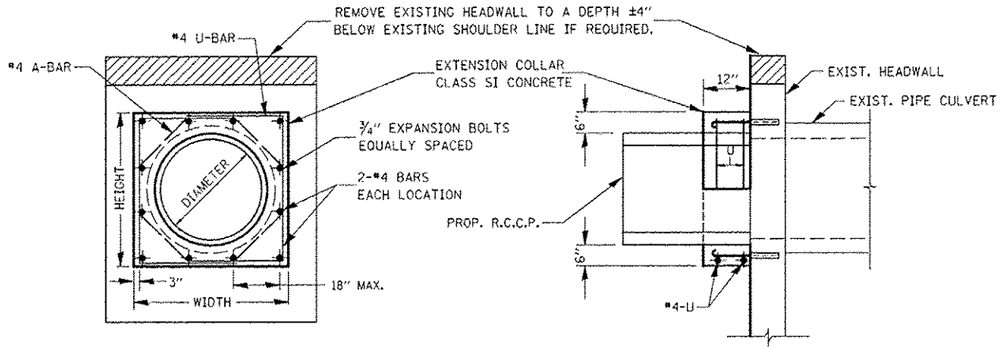
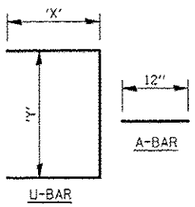


EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIA. HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE.
MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS



LOCATION	EXISTING CULVERT SIZE	PIPE DIMENSION	PIPE AREA	EXTENSION COLLAR		A-BAR	U-BAR		QUANTITIES ARE FOR ONE SIDE ONLY: CLASS SI CONC. COLLAR	REINFORCEMENT BARS	3/4" DIA. EXPANSION BOLTS
				WIDTH	HEIGHT	12	'X'	'Y'			
	DIA. IN.	DIA. IN.	SQ. FT.	IN.	IN.	IN.	IN.	IN.	CU. YD.	POUND	EACH
7005+35	24"	24"	1.8	42"	42"	12"	24"	36"	1.2	24	12
8962+29	24"	24"	1.8	42"	42"	12"	24"	36"	1.2	24	12

COLLAR DETAIL (EXTENSION OF PIPE CULVERT)

A

PLAN	DATE	BY
CORRECTED		
PLOTTED		
NOTE BOOK NO. ____		
ALL ITEMS CHECKED		
CADD FILE NAME		

PROFILE	DATE	BY
CORRECTED		
PLOTTED		
NOTE BOOK NO. ____		
GRADES CHECKED		
ALL ITEMS CHECKED		
STRUCTURE NOTATIONS CHKD		

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED JWM	REVISED ADDENDUM A 12/17/2012	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN KES	REVISED -			338	(112 & 113) WRS-5	DUPAGE	963	361
	PLOT SCALE = $SCALE$	CHECKED JRS	REVISED -			DD-01		CONTRACT NO. 60I31		
	PLOT DATE = $DATE$	DATE 10/15/2012	REVISED -		SCALE: NONE / SHEET NO. 1 OF 3 SHEETS / STA. / TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		