

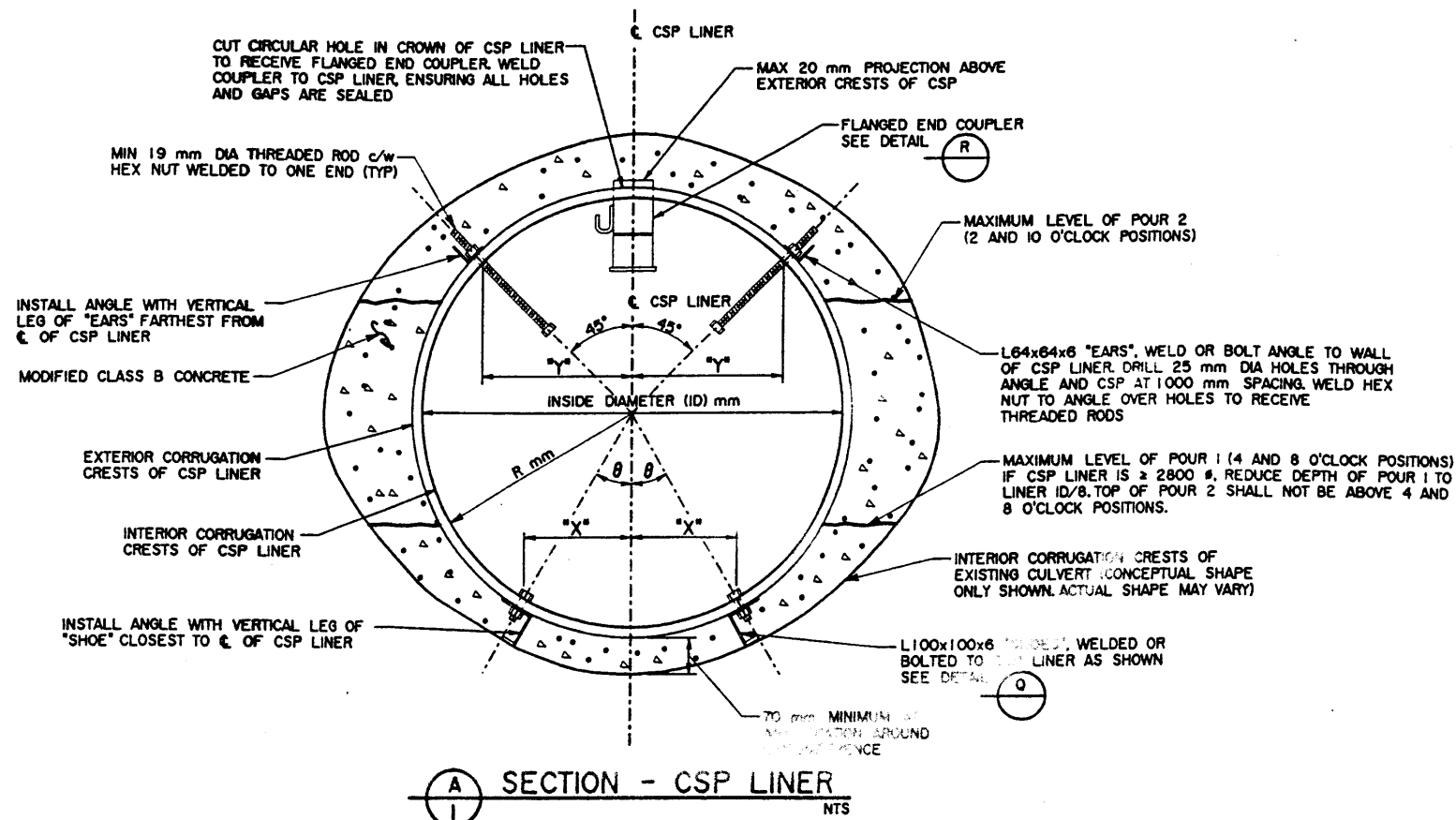
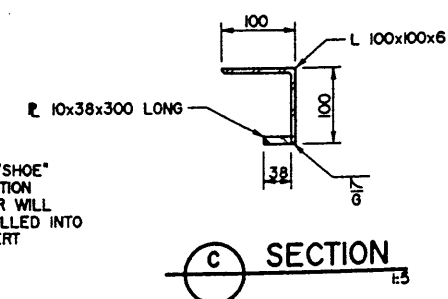
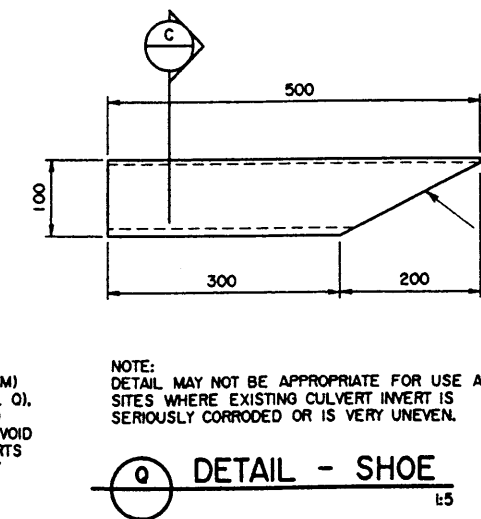
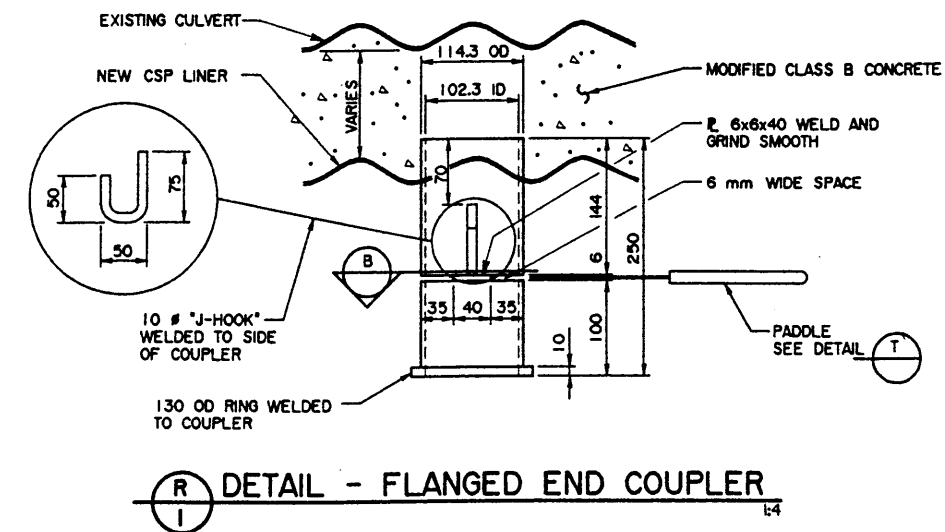
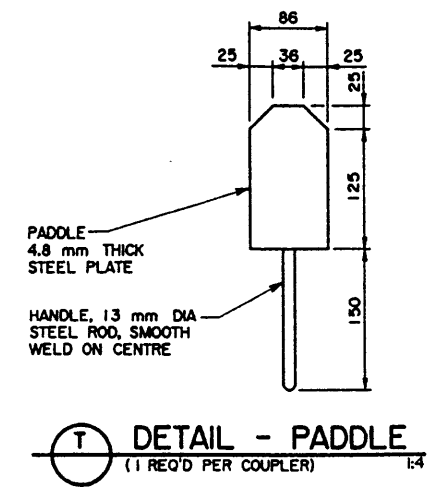
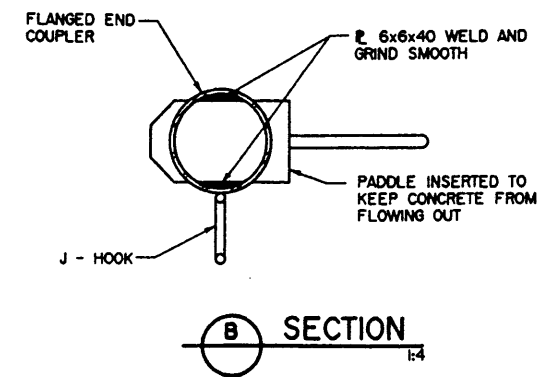
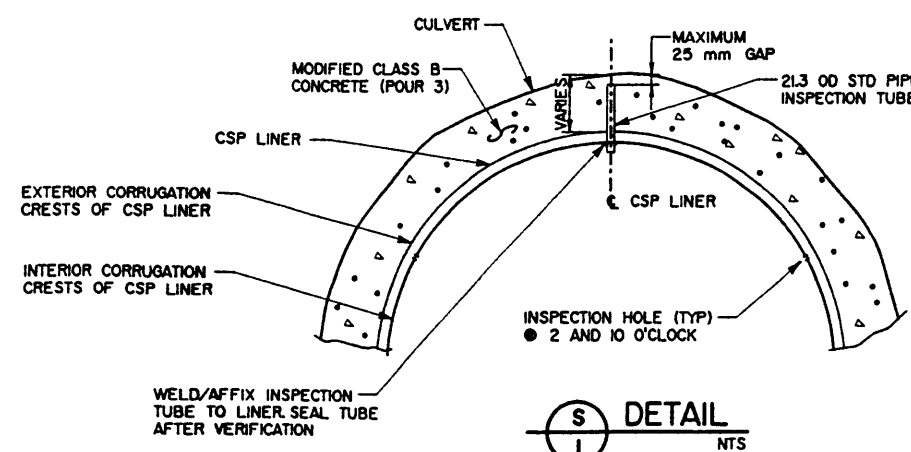


TABLE 1	
LINER ID (mm)	MINIMUM WALL THICKNESS (mm)
1200-2000	2.8
2100-2800	3.5
2900-3600	4.2

- NOTE:
- ALL CSP LINER MATERIAL SHALL HAVE A 125x26 OR A 76x25 CORRUGATION PROFILE.
 - FOR DIAMETERS >3600 mm, SPCSP OR TUNNEL LINER PLATE MAY BE CONSIDERED.

TABLE 2	
LINER ID (mm)	θ
1200-1800	45°
1900-2500	40°
2600-3100	35°
3200-3600	30°
$X = R \sin \theta$	
$Y = R \sin \theta \times 0.707$	



NOTE:
IF A CONTINUOUS RAIL (OR OTHER SYSTEM) IS USED IN LIEU OF THE "SHOE" (DETAIL Q), THEN FEATURES MUST BE INCORPORATED INTO THE DESIGN TO ENSURE THAT THE VOID BETWEEN THE LINER AND CULVERT INVERTS (AND AROUND THE RAILS) IS COMPLETELY FILLED WITH CONCRETE.

NOTE:
DETAIL MAY NOT BE APPROPRIATE FOR USE AT SITES WHERE EXISTING CULVERT INVERT IS SERIOUSLY CORRODED OR IS VERY UNEVEN.

BPTEC ENGINEERING GROUP LTD. 6810-104 STREET EDMONTON, AB FAX 1780435-4843 PH 1780436-5376		PERMIT TO PRACTICE BP-TEC ENGINEERING GROUP LTD. Signature: [Signature] Date: Jan 28, 2000 PERMIT NUMBER: P 0132 The Association of Professional Engineers, Geologists and Geophysicists of Alberta		DESIGNER [Signature] DATE: Jan 28, 2000		CHECKED [Signature] DATE:		Alberta INFRASTRUCTURE INSTALLATION OF LINERS FOR METAL CULVERTS SHEET 2	
CONSULTANT FILE & DRAWING	DRAWN	DATE	STREAM	LOCATION	HIGHWAY	FILE	SHEET	DRAWING	
556-19-2	WJW	99-03-10					2 of 2	S-1622	