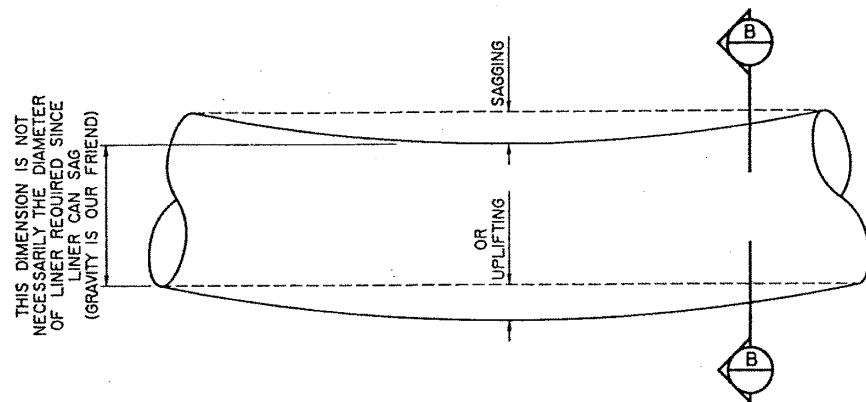


USE THESE SECTIONS TO DETERMINE CORRECT SIZE FOR C.S.P. LINER

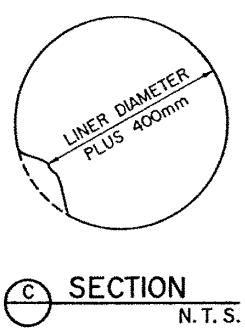
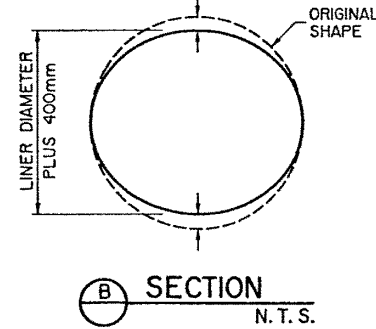
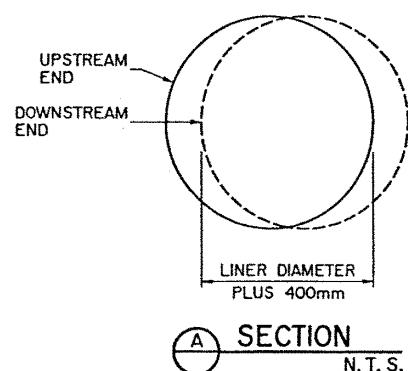
SIDEWAYS CURVATURE

FLATTENING

LOCALIZED BULGING



CULVERT ELEVATION
N.T.S.

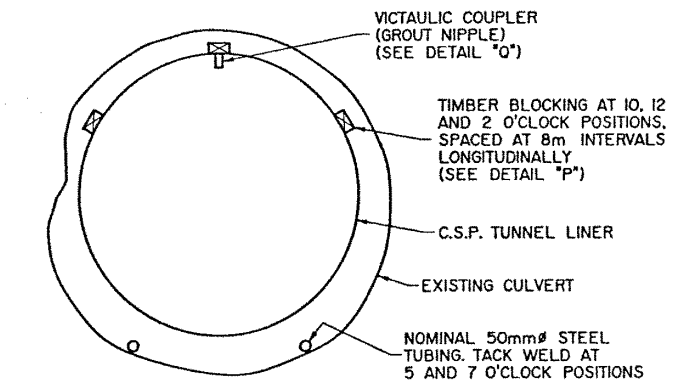


IF BULGE OCCURS AT BEVELS ONLY, REMOVE BEVELS TO FACILITATE INGRESS OF LINER

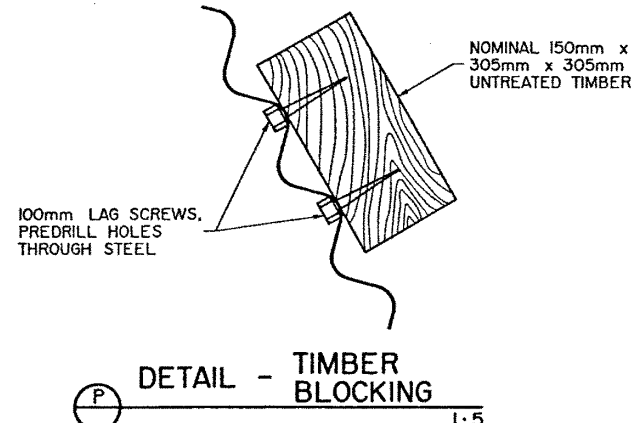
GENERAL NOTES

SUMMARY

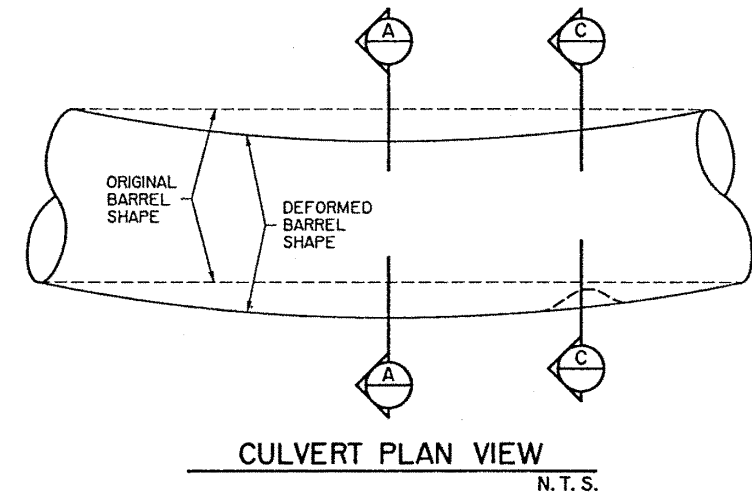
PIPE DIAMETER (MM)	READY-ROD SPACING (MM)	TOP STIFFENER
1 800	1 700	L - 125 x 90 x 16 OR HSS - 102 x 76 x 6.35
2 000	1 375	L - 125 x 90 x 13 OR HSS - 89 x 64 x 7.95
2 200	1 150	L - 125 x 75 x 10 OR HSS - 89 x 64 x 6.35
2 400	950	L - 100 x 75 x 13 OR HSS - 89 x 64 x 4.78
2 700	750	L - 90 x 75 x 13 OR HSS - 89 x 64 x 3.18
3 000	610	L - 90 x 75 x 10 OR HSS - 76 x 51 x 4.78
3 200	575	L - 90 x 75 x 10 OR HSS - 76 x 51 x 3.81



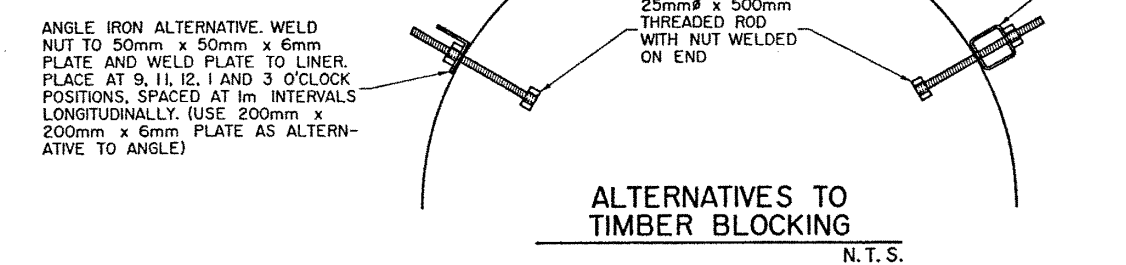
CULVERT SECTION
N.T.S.



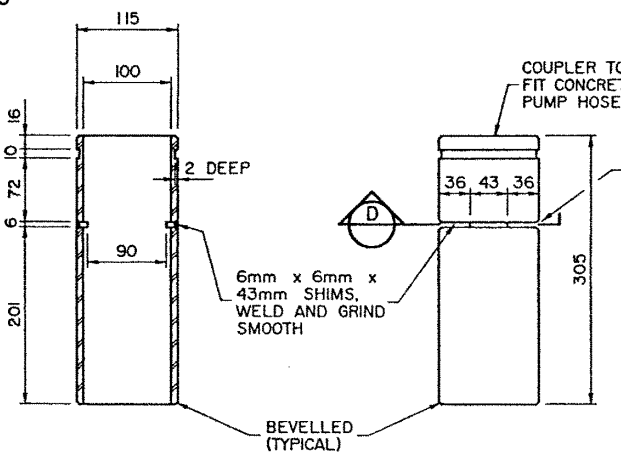
DETAIL - TIMBER BLOCKING
1:5



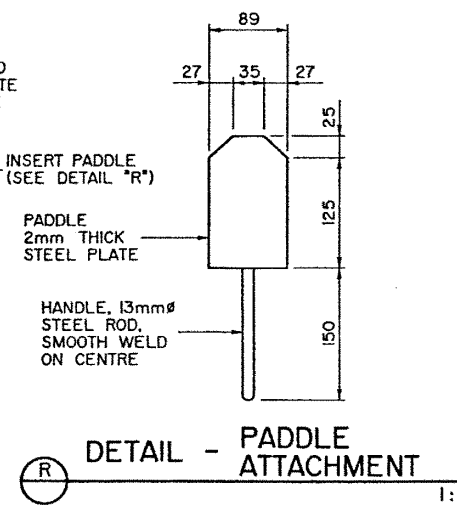
CULVERT PLAN VIEW
N.T.S.



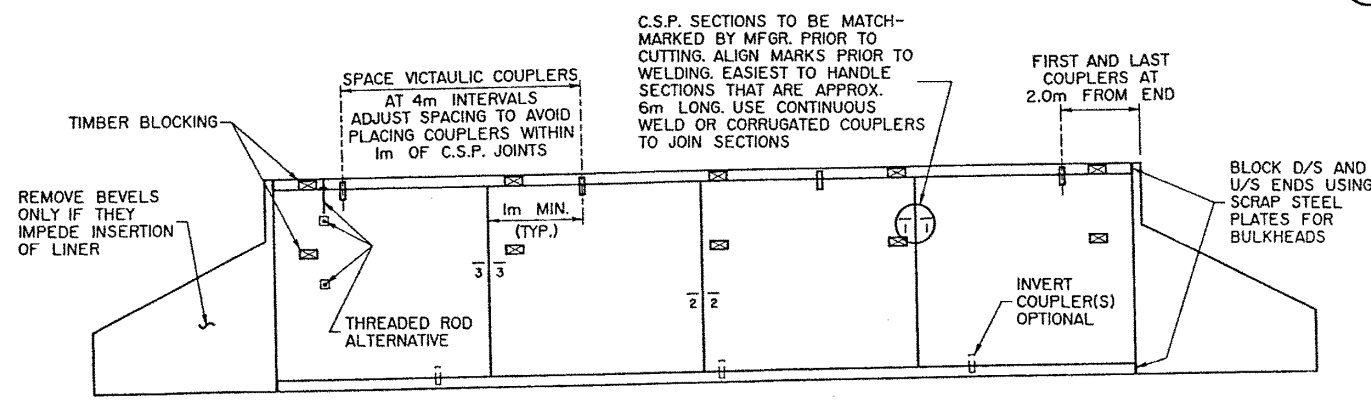
ALTERNATIVES TO TIMBER BLOCKING
N.T.S.



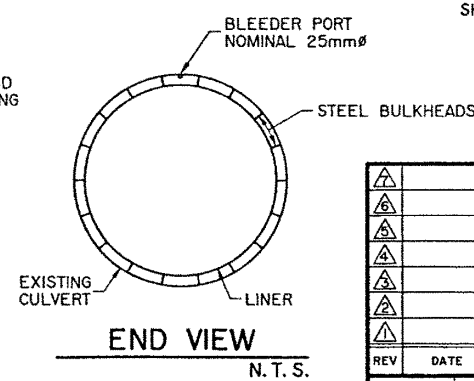
DETAIL - VICTAULIC COUPLER
1:4



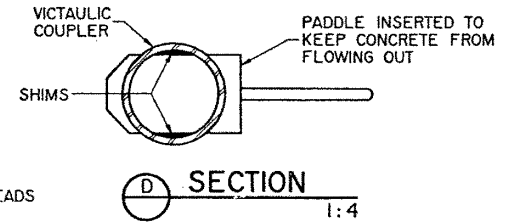
DETAIL - PADDLE ATTACHMENT
1:4



LONGITUDINAL SECTION THROUGH CULVERT
N.T.S.



END VIEW
N.T.S.



SECTION D
1:4

NOT USED 91-03-07

DESIGNED C.T.C. M.E.K. N.P.S.				DRAWN W.A.B.		DATE 90-01-03		CHECKED		DATE		STREAM		LOCATION		HIGHWAY		FILE		SHEET 1 of 1		DRAWING S-1491	
APPROVED												Alberta TRANSPORTATION AND UTILITIES BRIDGE ENGINEERING BRANCH C.S.P. CULVERT LINERS											
EXECUTIVE DIRECTOR BRIDGE ENGINEERING												DATE PRELIM											