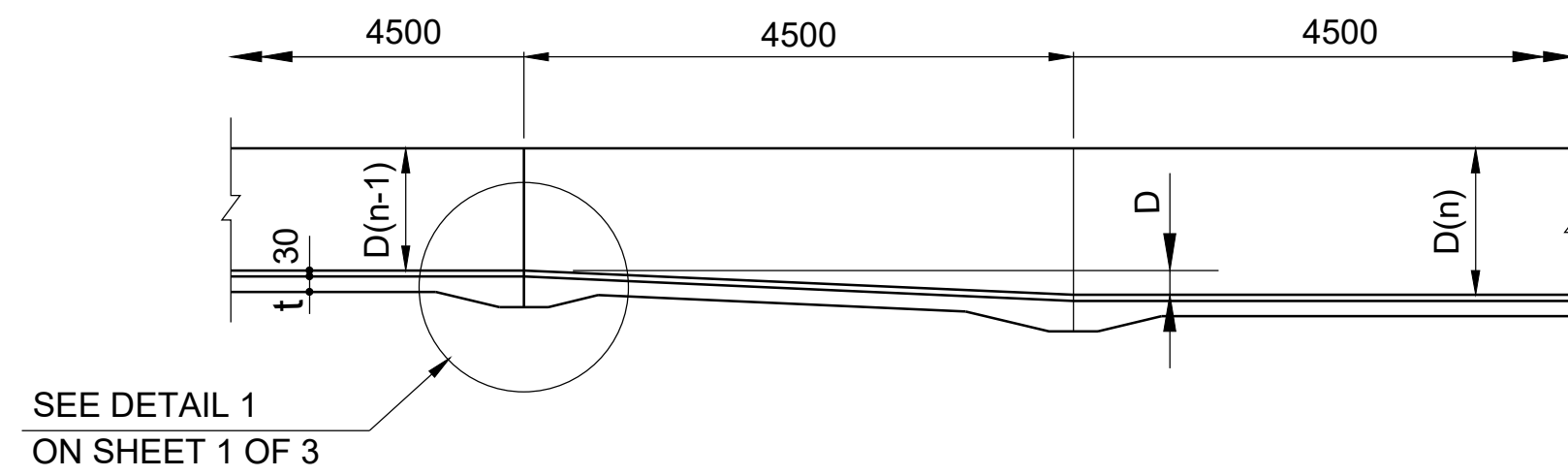
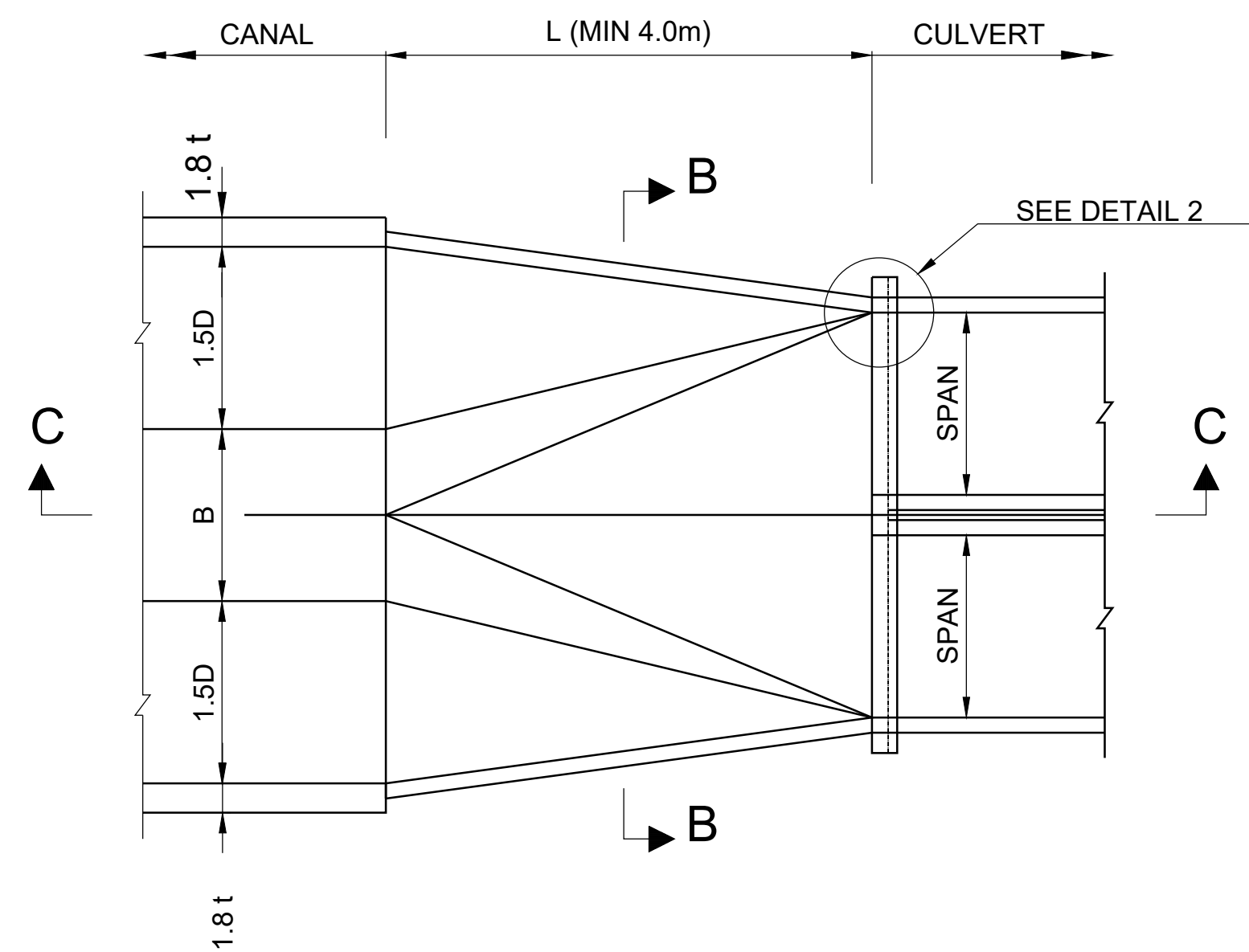


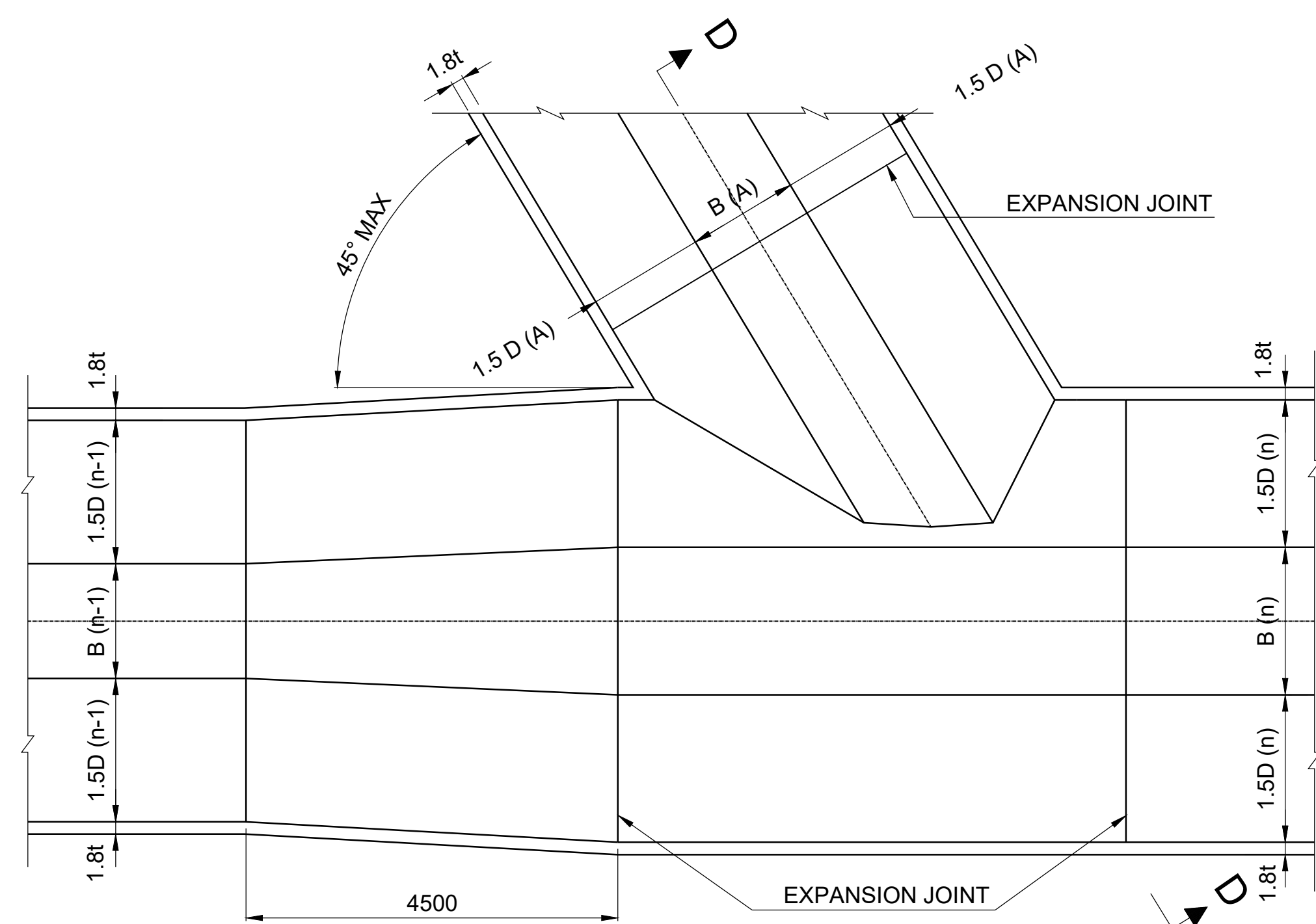
PLAN FOR WIDENING OF CANAL
N.T.S



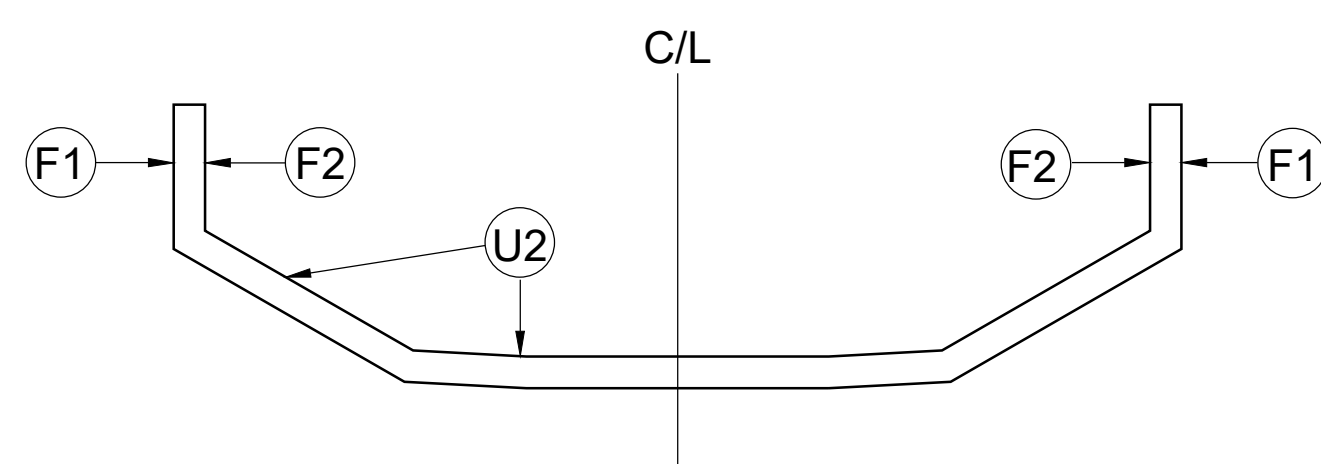
SECTION A-A
N.T.S



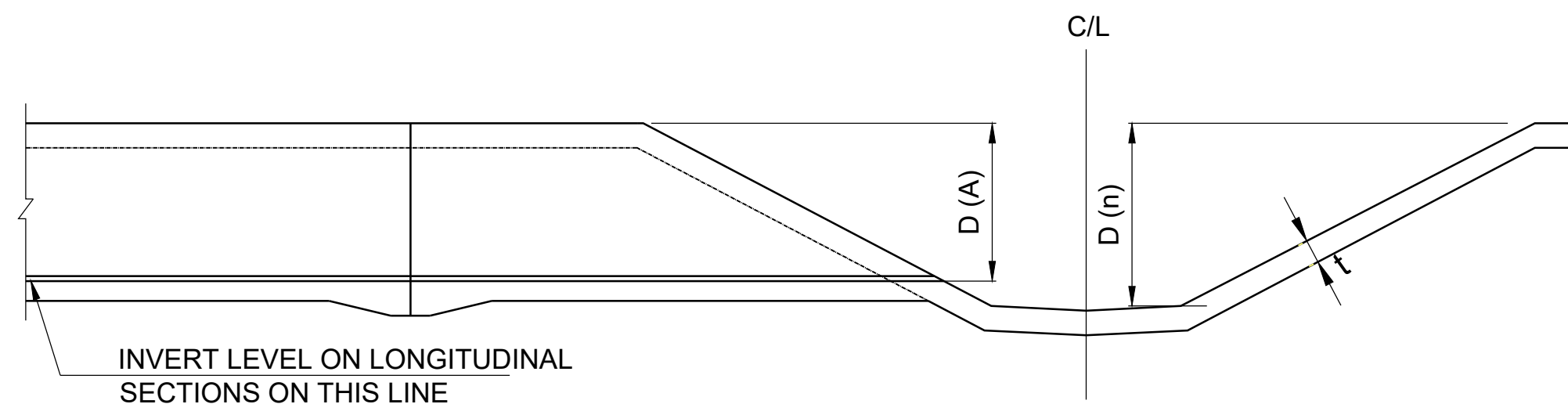
PLAN OF IN- & OUTLETS
N.T.S



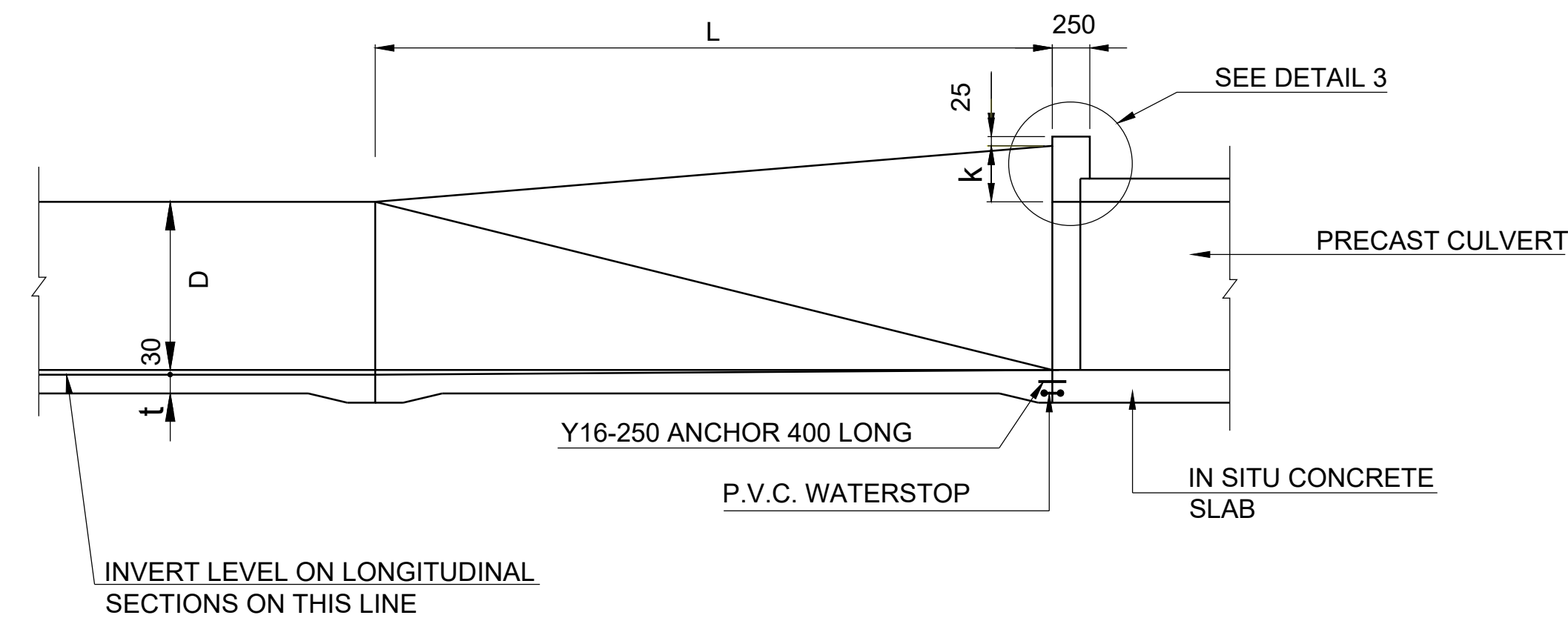
PLAN OF CANAL JUNCTION
N.T.S



SECTION B-B
N.T.S



SECTION D-D
N.T.S

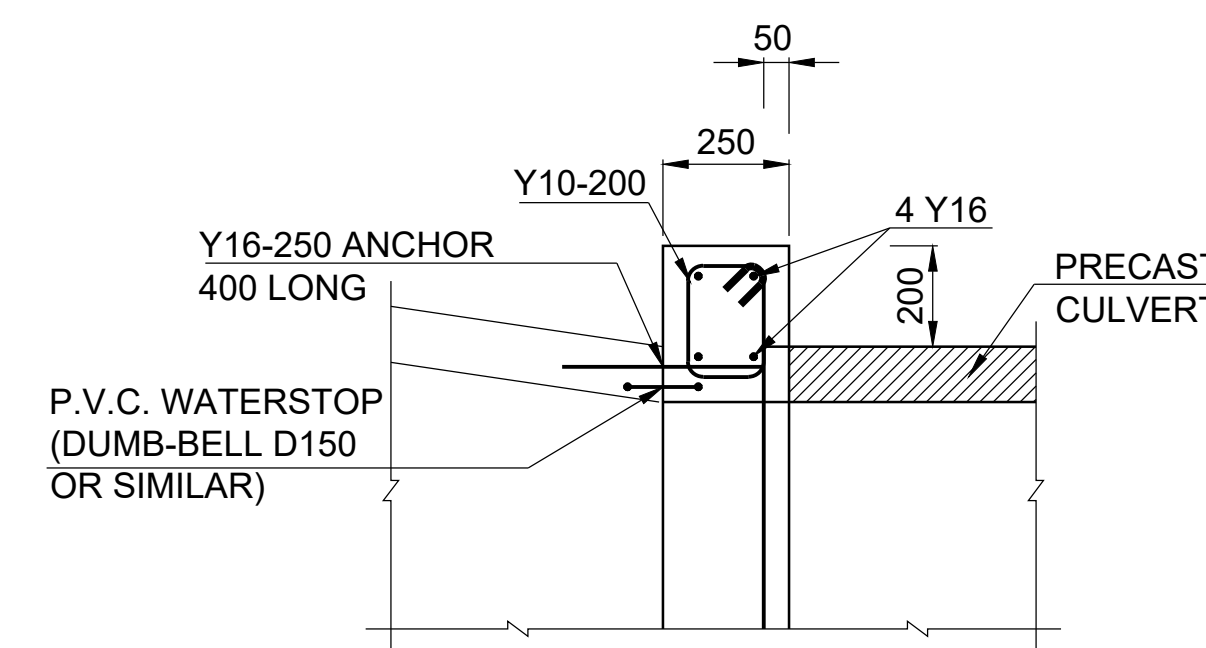


SECTION C-C
N.T.S

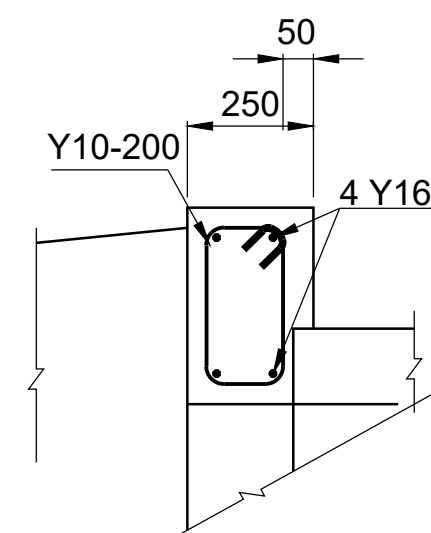
TABLE 1

TABLE OF CANAL / CULVERT COMBINATION FOR 1:1,5 SIDE SLOPES (SEE NOTE ON DRAWING TP2113-T-077)

CULVERT N/SPAN x HEIGHT	ADJOINING CANAL		L	t	B+3D	1,5D	1,5t	1,8t	k	CANAL AND IN- AND OUTLETS HIGH TENSILE STEEL MESH
	BASE(B)	DEPTH(D)								
2/900 x 600	900	600	3000	100	2700	900	150	180	200	SMF \ 193 5,6 mm 200 x 200 mm
2/1200 x 900	1100	800	3600	100	3500	1200	150	180	200	SMF \ 193 5,6 mm 200 x 200 mm
2/1500 x 1200	1350	1000	4200	125	4350	1500	190	225	250	SMF \ 245 6,3 mm 200 x 200 mm
2/1800 x 1200	1700	1200	4800	150	5300	1800	225	270	300	SMF \ 311 7,1 mm 200 x 200 mm
3/1500 x 1500	2000	1400	5400	150	6200	2100	225	270	350	SMF \ 311 7,1 mm 200 x 200 mm
3/1800 x 1800	2300	1600	6000	150	7100	2400	225	270	400	SMF \ 311 7,1 mm 200 x 200 mm



DETAIL 2
N.T.S



DETAIL 3
N.T.S

FOR TENDER
(FOR TENDER PURPOSES ONLY)

CONSTRUCTION RECORD (AS-BUILT)			DESIGNED BY		CONSULTANT APPROVAL		HEAD OFFICE		EASTERN REGION		ACCEPTANCE		PROJECT DESCRIPTION		PROJECT NUMBER		N.002-300-2020/1	
WORKS CONTRACT ENGINEER			NAME		Name		48 Tambotie Avenue Val de Grace Pretoria 0184		58 Van Eck Place Mkondeni Pietermaritzburg 3201		THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING		THE CONSTRUCTION OF PAVEMENT AND SETTLEMENT REPAIRS ON NATIONAL ROUTE 2, SECTION 30 FROM BUSHVELD RETREAT FARM (km47.0) TO HLUHLUWE INTERCHANGE (km 55.0)		DRAWING LOCATION DATA		START	
SANRAL PROJECT MANAGER			Prof. Reg. No.		Prof. Reg. No.		PO Box 415 Pretoria 0001 South Africa		PO Box 100410 Scottsville 3209		Date		ROAD SURFACE DRAINAGE TRAPEZOIDAL CONCRETE CANALS DETAILS 2		ROUTE		SECTION 30	
Name			Date		Date		Tel: (012) 844 8000		Tel: (033) 392 8100		for the SA NATIONAL ROADS AGENCY SOC LTD.		DRAWING TYPE		DRAWING km DISTANCE		ROADWORKS: DRAINAGE	
Name			Date		Date								BRIDGE/STRUCTURE No.		DRAWING TYPE		N/A	
Name			Date		Date								CONSULTANT DRAWING No.		DRAWING TYPE		TP2113-T-078	
Name			Date		Date								SANRAL DOCUMENT #		SCALE : N. T. S		SHEET 19 OF 26	
No. DATE REVISION			CONSULT. ENG.														VER	
																	1	