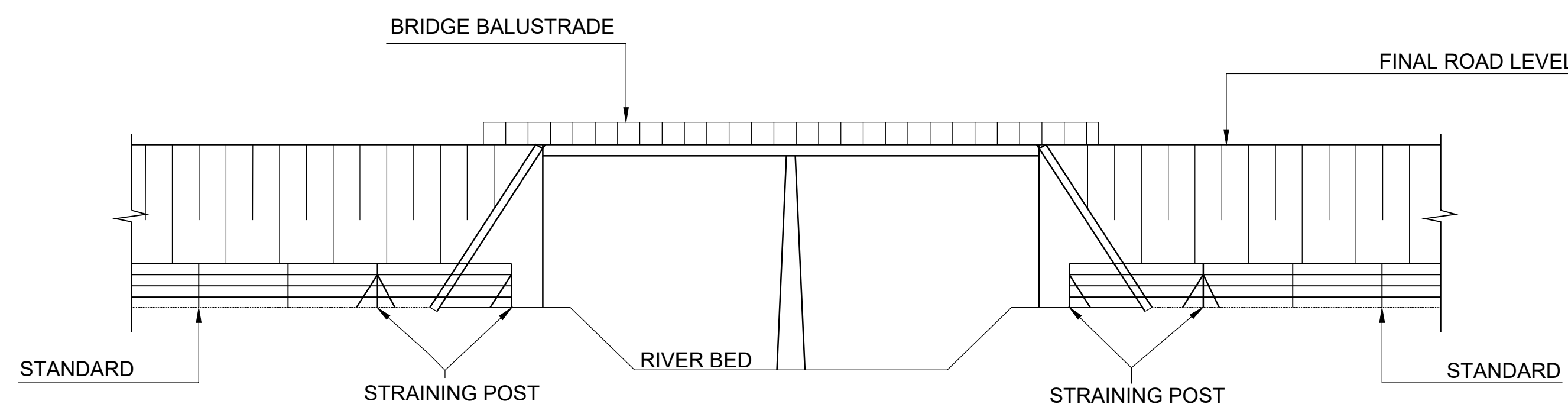
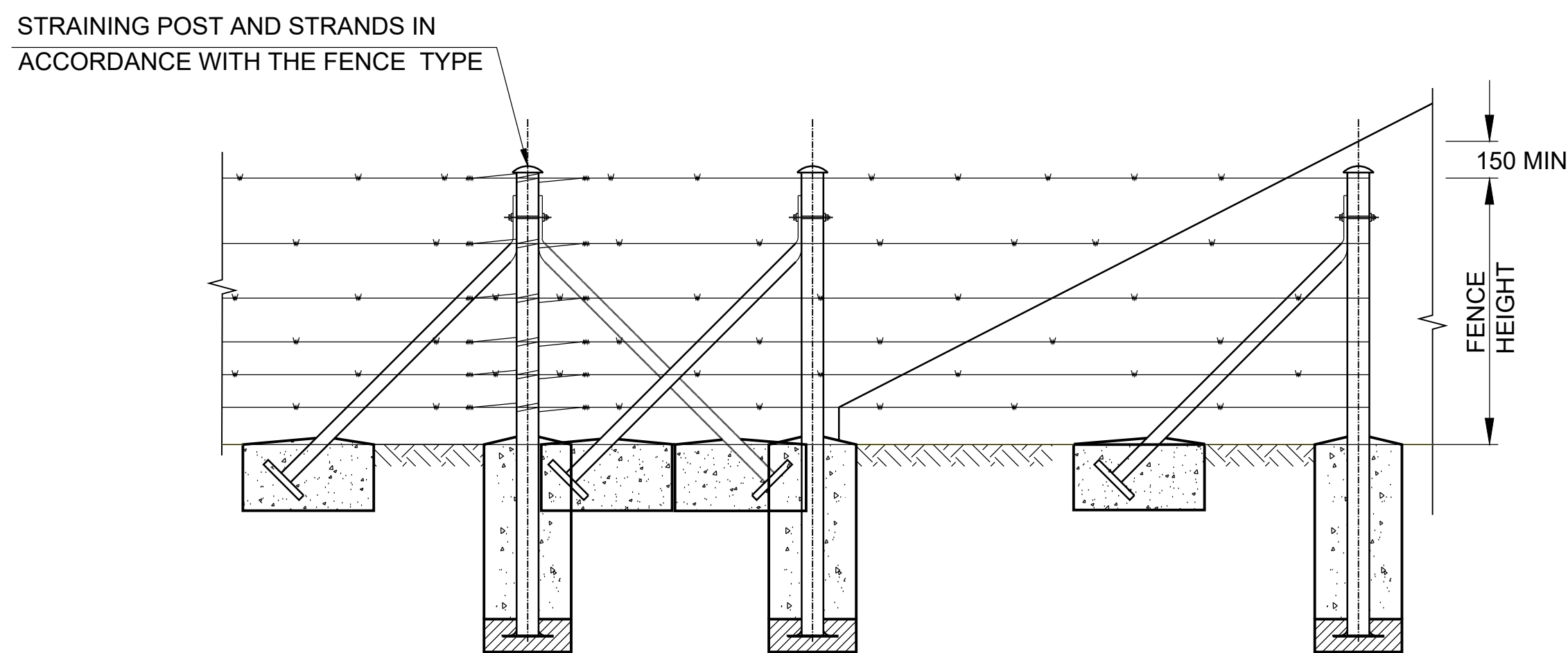


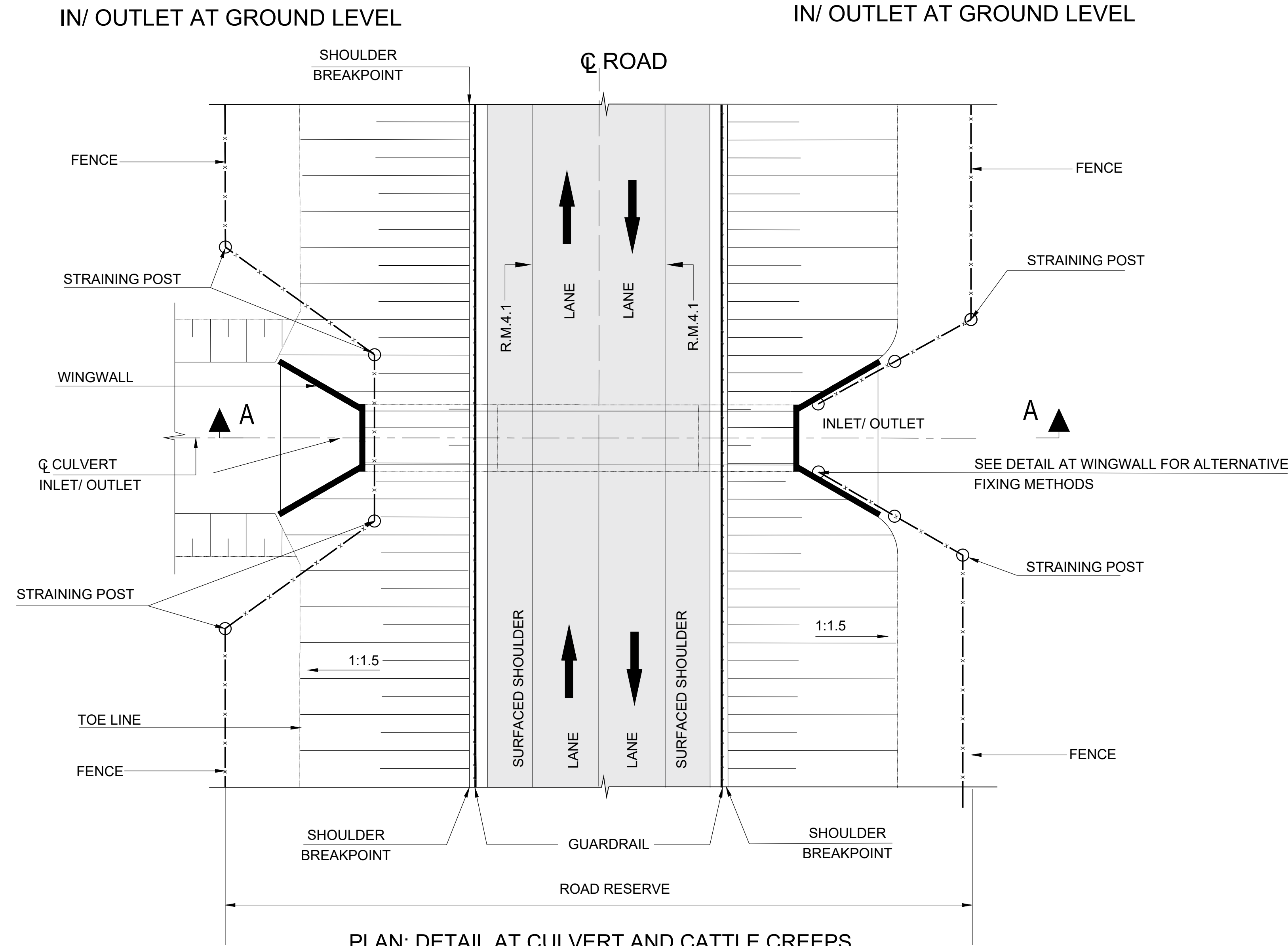
DETAIL AT RIVER BRIDGES
PLAN
N.T.S



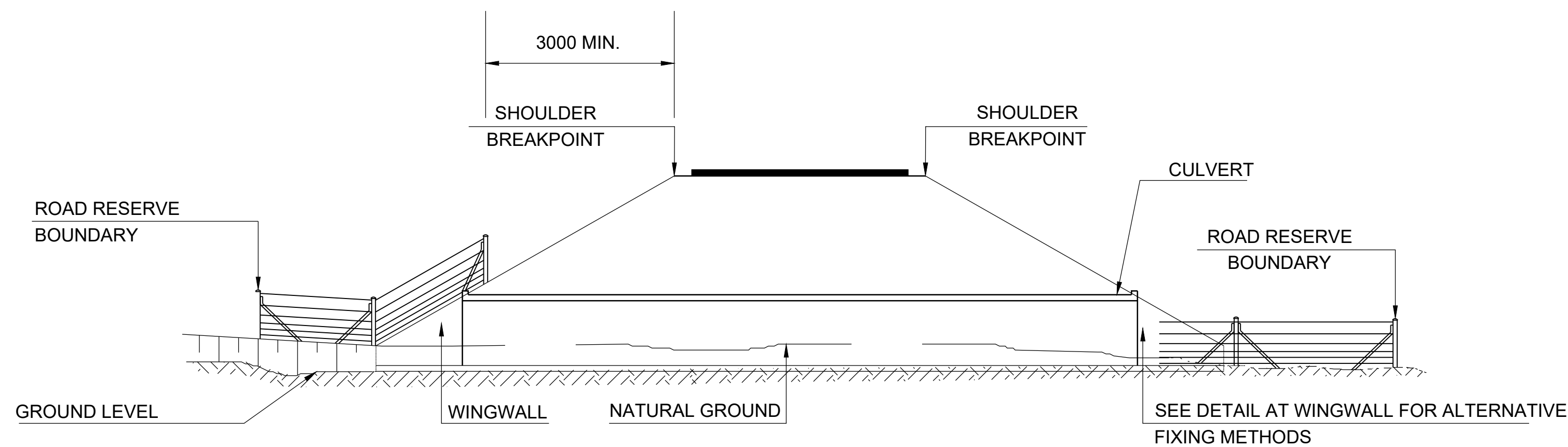
ELEVATION
N.T.S



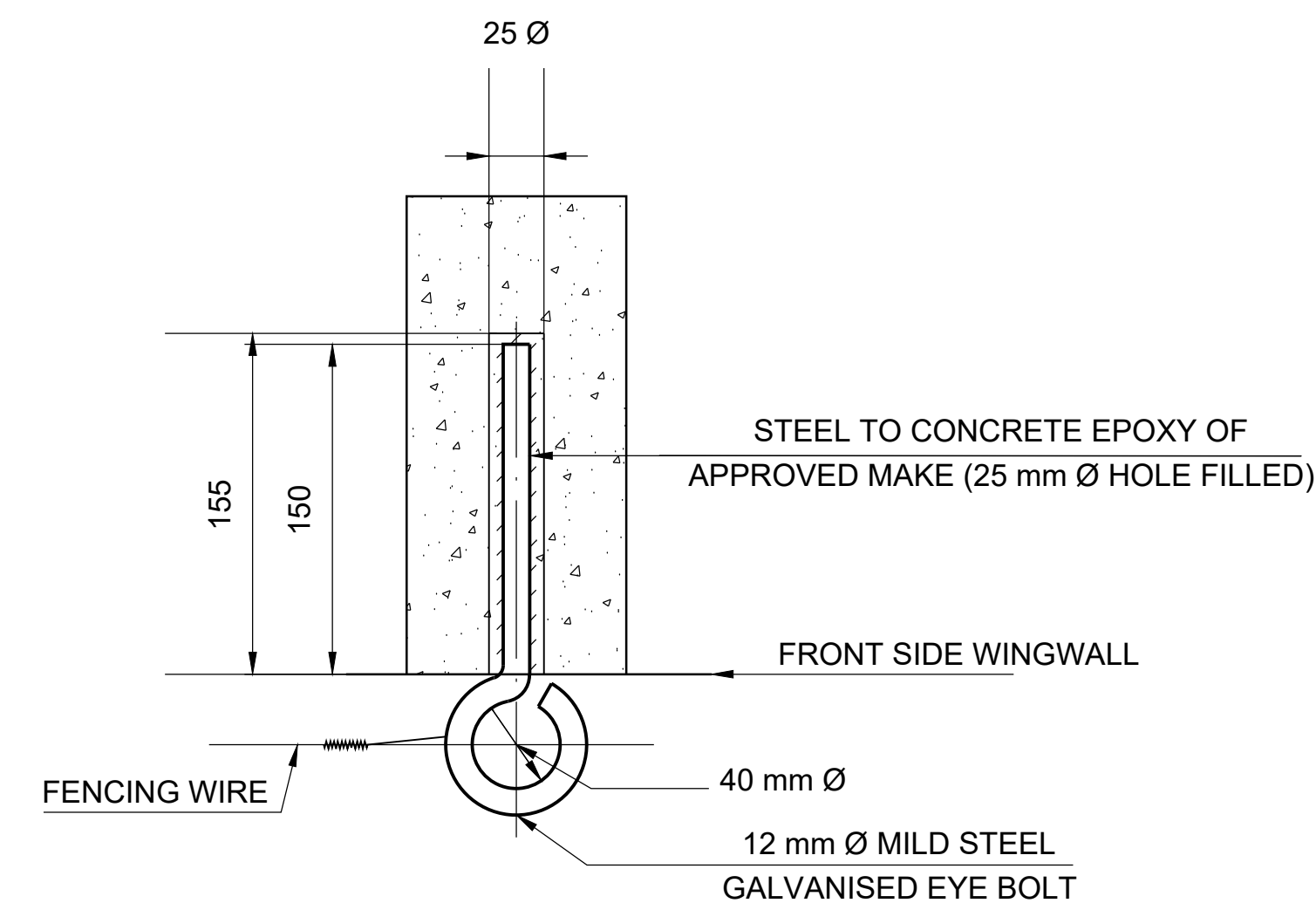
DETAIL AT WINGWALL : ALTERNATIVE 1 BRIDGE STRUCTURES WITH NO
CONCRETE FLOOR
N.T.S



PLAN: DETAIL AT CULVERT AND CATTLE CREEPS
N.T.S



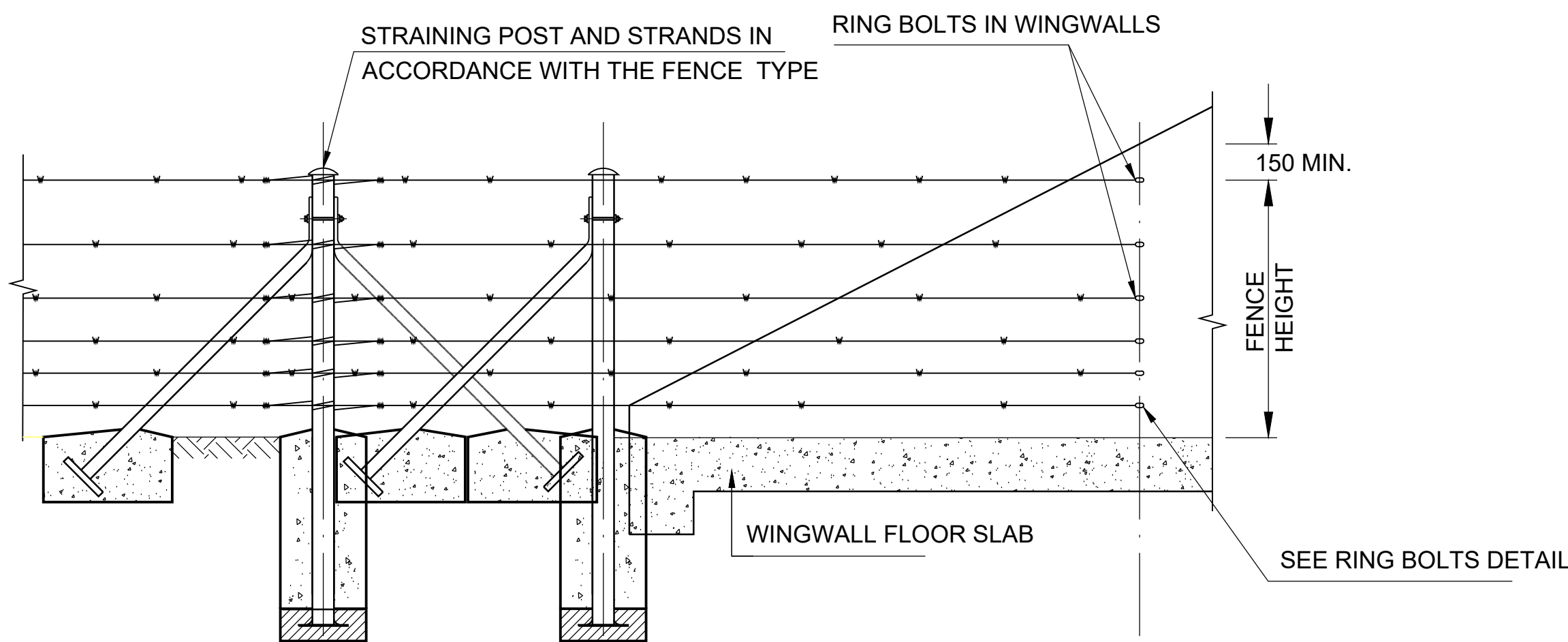
SECTION A-A
N.T.S



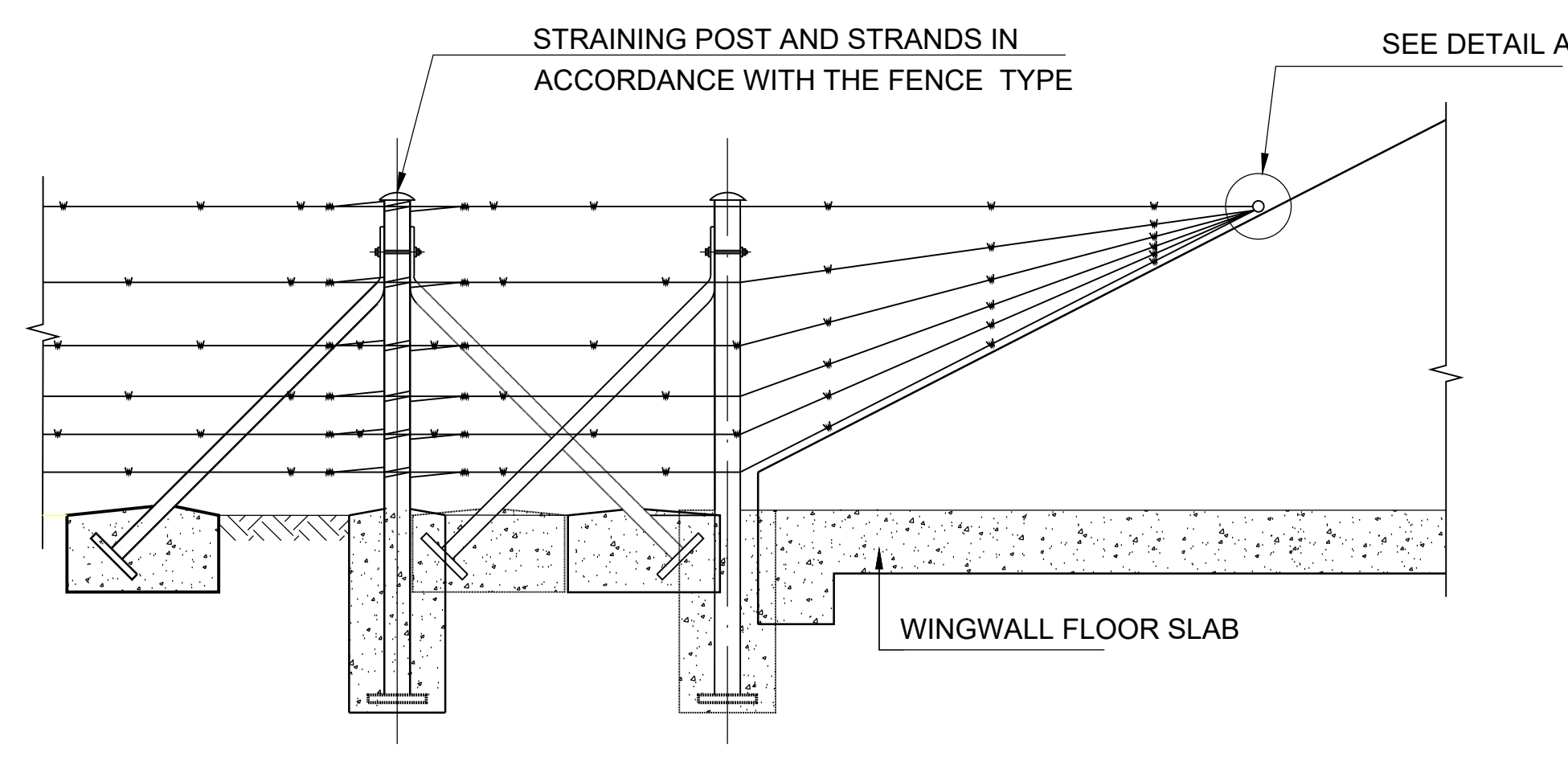
DETAIL "A" RING BOLT DETAIL
N.T.S

- NOTES ON RING BOLT INSTALLATION:
1. EPOXY PASTE TO BE PLACED AT THE BACK OF THE HOLE PRIOR TO INSERTION OF THE BOLT.
 2. CAVITY AROUND THE BOLT MUST BE COMPLETELY FILLED WITH EPOXY ADHESIVE.
 3. THE SWIRLING OF A THICK LAYER OF EPOXY ADHESIVE AROUND THE BOLT BEFORE PLACING IT IN THE HOLE SHALL NOT BE PERMITTED.

NOTE:
6-STRAND FENCE ONLY TO BE ERECTED IN
APPROVED BY SANRAL.



DETAIL AT WINGWALL : ALTERNATIVE 2 RINGBOLTS IN WINGWALLS AT CULVERTS
WITH CONCRETE FLOOR SLAB
N.T.S



DETAIL AT WINGWALL : ALTERNATIVE 3 RINGBOLT PLACED IN TOP OF
WINGWALL AT CULVERT WITH CONCRETE FLOOR SLAB
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 WHATEVER CAUSE OR HOWEVER ARISING				THE CONSTRUCTION OF PAVEMENT AND SETTLEMENT REPAIRS ON NATIONAL ROUTE 2, SECTION 30 FROM BUSHVELD RETREAT FARM (km47.0) TO HLUHLWE INTERCHANGE (km 55.0)				DRAWING LOCATION DATA		START		END					
				Name				Prof. Reg. No.				Prof. Reg. No.				PO Box 415 Pretoria 0001 South Africa				PO Box 100410 Scottsville 3209				Date				DRAWING TYPE				FENCING		km 47.0		km 55.0					
				Date				CHECKED BY				Date				Tel: (012) 844 8000				Tel: (033) 392 8100				for the SA NATIONAL ROADS AGENCY SOC. LTD.				SCALE :		N.T.S.		SHEET		8 OF 8		VER 1					
				SANRAL PROJECT MANAGER				NAME				NAME																DRAWING km DISTANCE				BRIDGE/STRUCTURE No.		N/A		CONSULTANT DRAWING No.		TP2113-T-097			
				1				23/10/09				ORIGINAL																DRAWING TYPE				FENCING		km 47.0		km 55.0					
				No.				DATE				REVISION																FENCING AND RELATED ITEMS FENCING DETAIL AT RIVER BRIDGES AND DRAINAGE CULVERTS				BRIDGE/STRUCTURE No.		N/A		CONSULTANT DRAWING No.		TP2113-T-097			
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