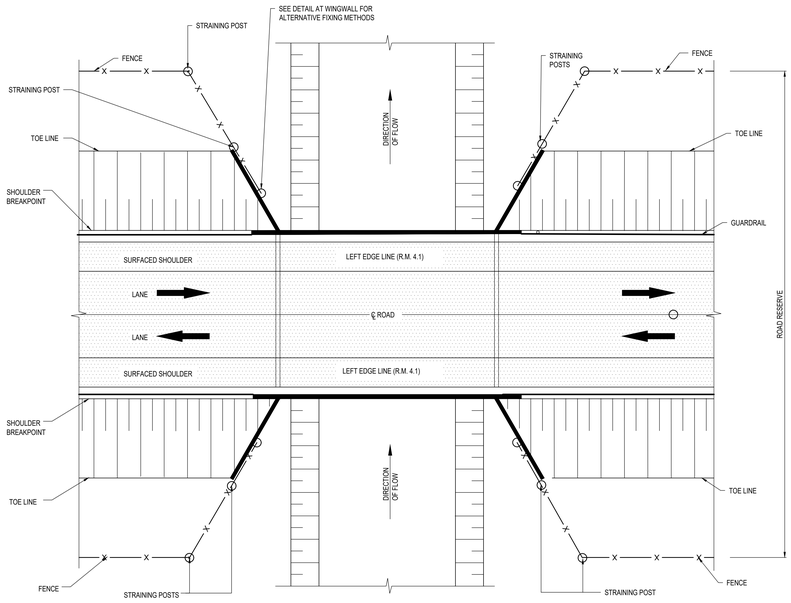
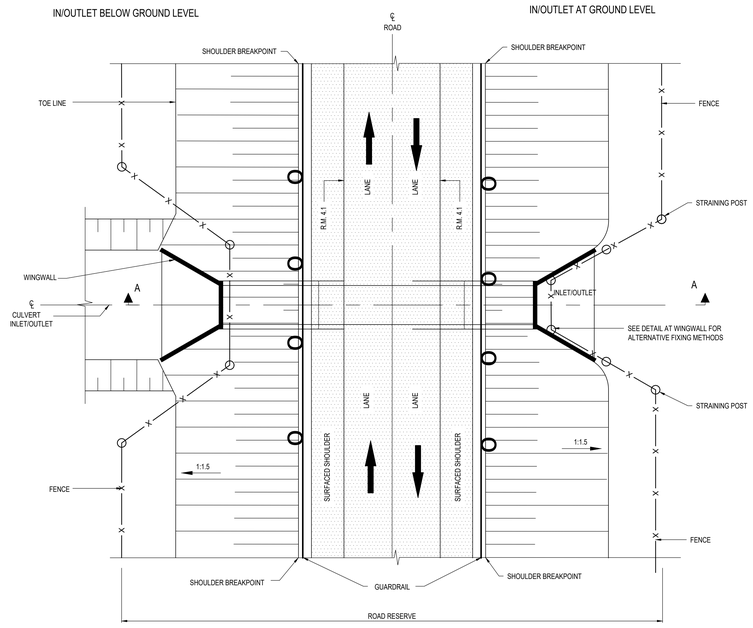


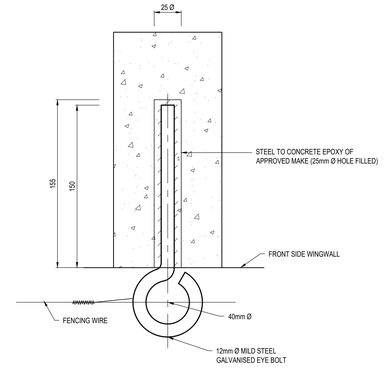
DETAIL AT RIVER BRIDGES PLAN

N.T.S.



PLAN : DETAIL AT CULVERTS AND CATTLE CREEPS

N.T.S.

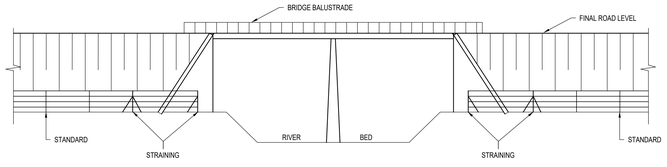


DETAIL "A" RING BOLT DETAIL

SCALE 1:2,5

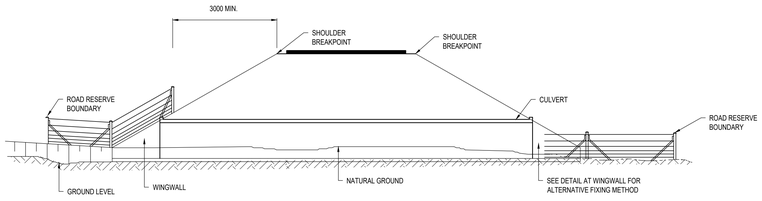
NOTES ON RING BOLT INSTALLATION:

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.



ELEVATION

N.T.S.

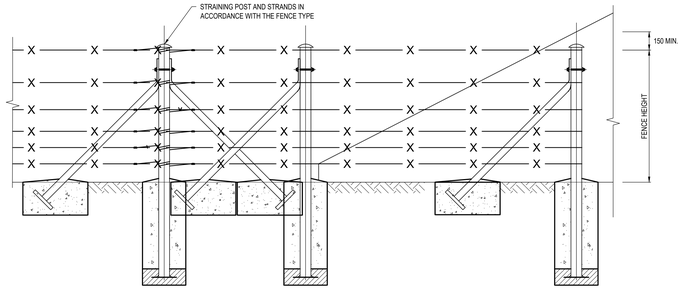


SECTION A-A

N.T.S.

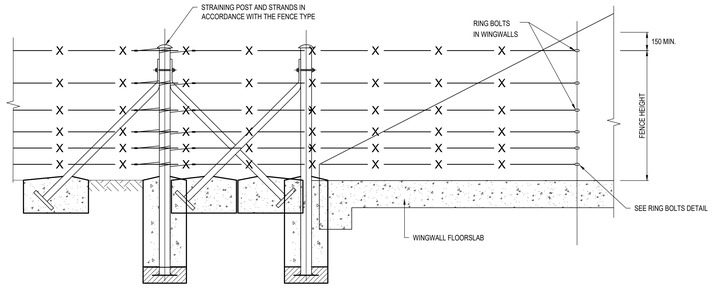
NOTE:

6 - STRAND FENCE ONLY TO BE ERECTED IF APPROVED BY SANRAL



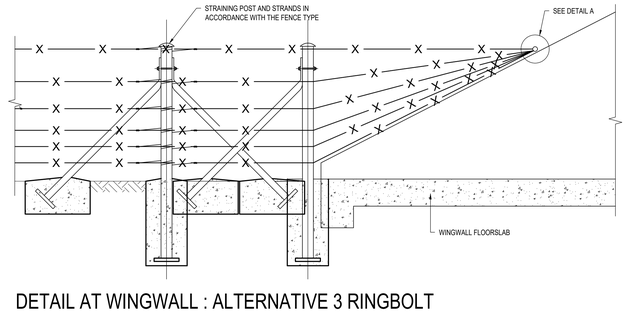
DETAIL AT WINGWALL : ALTERNATIVE 1 BRIDGE STRUCTURES WITH NO CONCRETE FLOOR

SCALE 1:25



DETAIL AT WINGWALL : ALTERNATIVE 2 RINGBOLTS IN WINGWALLS AT CULVERTS WITH CONCRETE FLOOR SLAB

SCALE 1:25



DETAIL AT WINGWALL : ALTERNATIVE 3 RINGBOLT PLACED IN TOP OF WINGWALL AT CULVERT WITH CONCRETE FLOOR SLAB

SCALE 1:25

No.	DATE	REVISION
V1	08/03/2024	ORIGINAL VERSION

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BUILDING SOUTH AFRICA THROUGH BETTER ROADS

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ACCEPTANCE

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

for the SA NATIONAL ROADS AGENCY SOC LTD.
Date:

PROJECT DESCRIPTION

THE CAPACITY IMPROVEMENT OF NATIONAL ROUTE 1 SECTION 1 FROM OLD OAK INTERCHANGE (KM 18.90) TO KOELENHOF INTERCHANGE (KM 33.00)

FENCING DETAILS & RELATED ITEMS
FENCING DETAIL AT RIVER BRIDGES AND DRAINAGE CULVERT

SCALE @ A0: AS SHOWN | **SHEET 1 OF 1**

PROJECT NUMBER	N001-010-2021/1	
DRAWING LOCATION DATA	START	END
ROUTE	N01	N01
SECTION	01	01
DRAWING km DISTANCE	18.900	33.000
DRAWING TYPE	ROADS - FENCING	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	312-00827-01-TD07	VER
SANRAL DOCUMENT #	XXXXXX	V1

312-00827-01-TD07