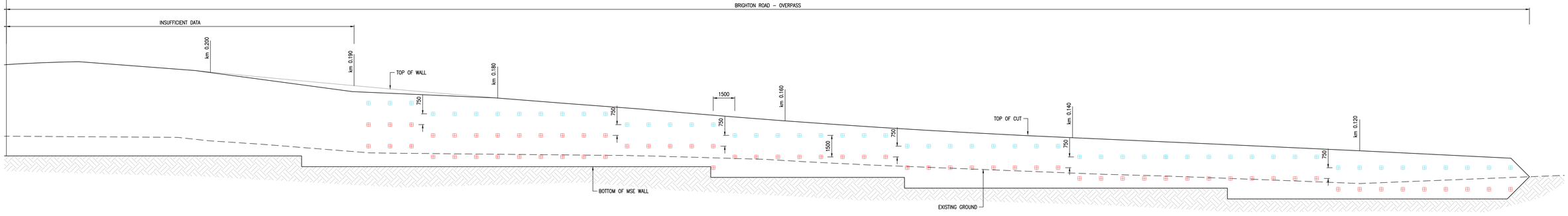


BRIGHTON ROAD RAMP C SOIL NAIL ELEVATION

SCALE 1: 100



BRIGHTON ROAD RAMP C SOIL NAIL ELEVATION

SCALE 1: 100

NOTES:

1. FRONT FACE OF THE GEO-COMPOSITE DRAINS MUST BE COVERED WITH PLASTIC TO PREVENT CLOGGING FROM GUNITE
2. NAIL INSTALLATION PROCESS:
   - 2.1. FOR THE FIRST ROW OF SOIL NAIL, EXCAVATE TO A DEPTH NOT MORE THAN 1.0 M – 1.30 M FROM THE TOP OF THE CUT AND ENSURE A SHORT-TERM STABILITY OF THE SOIL (CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARY SUPPORT OF CUT SOIL).
   - 2.2. DRILL THE REQUIRED SIZE (IN LENGTH, DIAMETER, AND INCLINATION) OF SOIL NAIL HOLE AND INSTALL THE REQUIRED / SPECIFIED SOIL NAIL (IN TERMS LENGTH, INCLINATION, STRENGTH), ENSURING THAT THE TENDON IS CENTRALLY LOCATED IN THE HOLE.
   - 2.3. GROUT THE DRILLED HOLE (WITH THE SOIL NAIL ALREADY INSTALLED) FROM THE BASE OF THE HOLE TO THE TOP OF HOLE, USING A TREMIE GROUT PIPE
   - 2.4. PLACE THE GEO COMPOSITE STRIPS FOR DRAINAGE AS SPECIFIED
   - 2.5. PLACE THE SPECIFIED REINFORCEMENT MESH, ENSURING PROPER ANCHORAGE AT THE TOP, AND MINIMUM REQUIRED OVERLAPS.
   - 2.6. APPLY THE SPECIFIED GUNITE AT HIGH PRESSURES TO THE SPECIFIED THICKNESS
   - 2.7. FOR THE NEXT ROW OF SOIL NAIL INSTALLATION, DO NOT EXCAVATE MORE THAN 500 MM BELOW THE POSITION OF THE NEXT SOIL NAIL.
   - 2.8. REPEAT THE ABOVE STEPS
3. CONTRACTOR SHOULD ALLOW FOR MOVEMENT MONITORING AT LEAST ONCE A WEEK DURING INSTALLATION AND UP TO 4 WEEKS AFTER COMPLETE INSTALLATION
4. CONTRACTOR SHOULD ALLOW FOR IN-SITU PULL OUT TESTING.
5. REFER TO DWG 10 FOR TYPICAL SOIL NAIL SECTION AND DETAIL

LEGEND:

- 25mm ø x 4500mm TB500 GALVANIZED
- 25mm ø x 4000mm TB500 GALVANIZED

2500 0 2500 5000 7500

MILLIMETRES 1:100

No.	DATE	REVISION
A	15/07/2025	ISSUED FOR INFORMATION

HEAD OFFICE
48 Tambotie Avenue
Val de Grace
Pretoria
0184

PO Box 415
Pretoria 0001
South Africa

Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

WESTERN REGION
1 Havenga Street
Oakdale
Bellville
7530

Private Bag X19
Bellville
7535

Tel: (021) 957 4600

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)

BRIGHTON ROAD RAMP C AND OVERPASS

TEMPORARY SOIL NAIL SUPPORT - ELEVATION

SCALE @ A0: 1:100 SHEET 1 OF 1

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