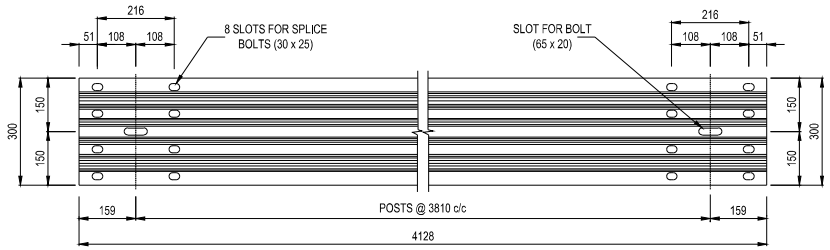
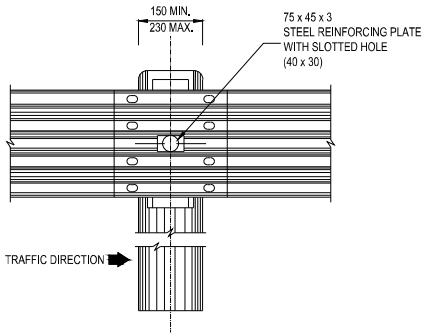


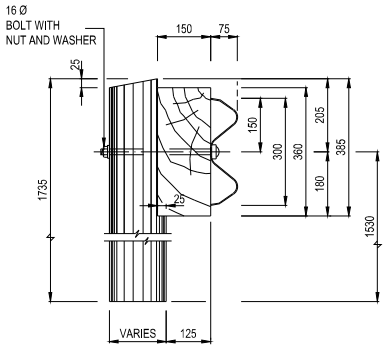
TYPICAL GUARDRAIL SECTION

SCALE: 1 : 10



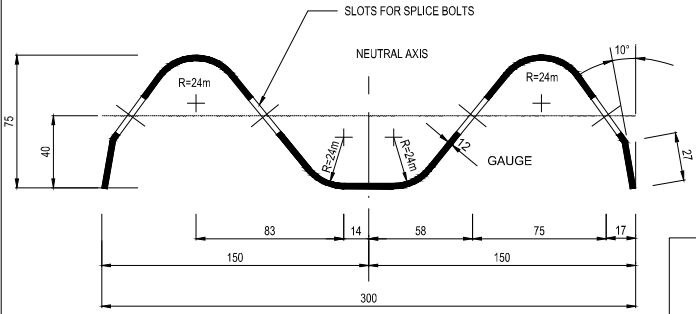
DETAIL A : FRONT ELEVATION NORMAL SPACING OF POSTS

SCALE: 1 : 10



ELEVATION OF GUARDRAIL

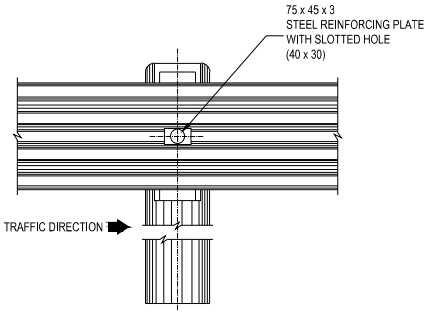
SCALE: 1 : 10



SECTION THROUGH GUARDRAIL

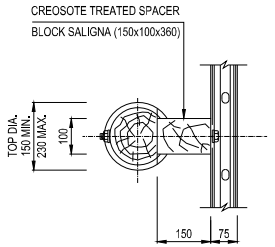
SCALE: 1 : 2

NOTE:
1. GUARDRAILS SHALL ONLY BE PLACED WHERE REQUIRED BY THE ENGINEER.
2. ALL GUARDRAILS MUST BE GALVANIZED AS SPECIFIED (NOT PAINTED).



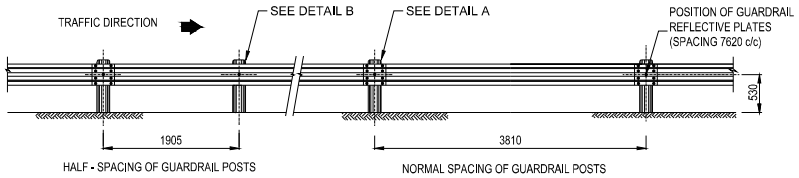
DETAIL B : FRONT ELEVATION HALF SPACING OF POSTS

SCALE: 1 : 10



PLAN

SCALE: 1 : 10



SPACING OF POSTS AND POSITION OF REFLECTIVE PLATES

SCALE: 1 : 50

SPECIFICATIONS

1.BOLT:
HIGH TENSILE STEEL 16 Ø

2.WASHERS:
3mm THICK

3.SPACER BLOCK:
PINE OR GUM, PRESSURE IMPREGNATED IN ACCORDANCE WITH SANS 100005 WITH CREOSOTE WHICH COMPLIES WITH SANS 538 OR 539

4.POSTS:
150 Ø MIN - 230 Ø MAX, SALIGNA (BLUEGUM), PRESSURE IMPREGNATED IN ACCORDANCE WITH SANS 100005 WITH CREOSOTE WHICH COMPLIES WITH SANS 538 OR SANS 539.

5.GALVANIZING:
GUARDRAILS:(SANS 121/ISO 1461):TYPE A1 ARTICLES.
BOLTS AND WASHERS: (SANS 121/ISO 1461) TYPE C1 ARTICLES.

6.TIMBER POSTS:
POSTS SHALL COMPLY WITH THE REQUIREMENTS OF SANS 457 AND SHALL CARRY THE SANS MARK.

7.REFLECTIVE PLATES:
THE OUTER SURFACES SHALL BE COATED WITH ENGINEERING GRADE RETRO-REFLECTIVE MATERIAL WHICH COMPLIES WITH THE PROVISIONS OF CKS 191 IN THE COLOURS SHOWN ON DRAWING TD-R-GR-002

PLOTTED: Sandra Du Toit
FILE PATH: J:\SJ3104 N3 PIMBT\Hall\Draw\Hall_Main\N3 SANRAL TD TYPICAL DETAILS\TD-R-GR-001_GUARDRAIL ELEMENT AND MOUNTING DETAILS SHEET 1 OF 2.DWG
CHECKED:

No.	DATE	REVISION	CONSULT. ENG.
V1	NOV 2019	ORIGINAL VERSION	S.C. SCHROEDER

CONSTRUCTION RECORD
WORKS CONTRACT ENGINEER
Name
Prof. Reg. No.
Date
SANRAL PROJECT MANAGER
Name
Date

GIBB ENGINEERING & ARCHITECTURE

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NAME: S.C.SCHROEDER
Prof. Reg. No.: 9870091
DRAWN BY
NAME: S GOURLEY

CONSULTANT APPROVAL
Name: S.C.SCHROEDER
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Date: 01/11/2019

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SANRAL
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

EASTERN REGION
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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 CEO: SA NATIONAL ROADS AGENCY SOC LTD.
Date:

PROJECT DESCRIPTION
THE RECONSTRUCTION OF THE SLOW LANE ON NATIONAL ROUTE N3 SECTION 3 FROM SANCTUARY ROAD (km 15.2) TO LINK ROAD (km21.2)

DRAWING DESCRIPTION
GUARDRAILS
GUARDRAIL ELEMENT AND MOUNTING DETAILS
SHEET 1 OF 2

SCALE : AS SHOWN | SHEET 01 OF 01

PROJECT NUMBER	SANRAL N.003-030-2018/1	
DRAWING LOCATION DATA	START	END
ROUTE	N003	N003
SECTION	03	03
DRAWING km DISTANCE	N/A	N/A
DRAWING TYPE	ROADS - SANRAL DETAILS	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	J33104/TD-R-GR-1001	VER V1
SANRAL DOCUMENT #		