



MINIMUM GUARDRAIL LENGTH
AT BRIDGES (FILL BELOW 3m)

FILL > 3 m

BRIDGE APPROACH
N.T.S

TABLE 1: SETTING OUT POSITION OF GUARDRAIL POSTS

APPROACH SIDE	TERMINAL SECTION: TYPE A: L= 34.29m			DEPARTURING SIDE	TERMINAL SECTION: TYPE B: L= 19.05m		
	POST No.	HORIZONTAL OFF-SET X (mm)	VERTICAL OFF-SET Y (mm)		POST No.	HORIZONTAL OFF-SET X (mm)	VERTICAL OFF-SET Y (mm)
	1	0	0		6	0	0
	2	19	0		5	60	36
	3	74	0		4	240	144
	4	167	0		3	540	324
	5	296	0		2	960	576
	6	463	36		1	1500	900
	7	667	144				
	8	907	324				
	9	118	576				
	10	1500	900				

TABLE 2

MIN LENGTH OF GUARDRAIL REQUIRED (EXCLUDING TERMINAL SECTIONS)	
DESIGN SPEED km/h	MIN LENGTH
60	12 SECTIONS (45.72 m)
70	14 SECTIONS (53.34 m)
80	16 SECTIONS (60.96 m)
90	20 SECTIONS (76.20 m)
100	23 SECTIONS (87.63 m)
110	27 SECTIONS (102.87 m)
120	29 SECTIONS (110.49 m)
130	32 SECTIONS (121.92 m)
140	35 SECTIONS (133.35 m)

NOTES:

- CLOSEST PERMISSIBLE POSITION OF CATCHPIT TO ENDBLOCK ie. NO. CATCHPIT PERMITTED BETWEEN POST No. 18 AND ENDBLOCK.
- REFER TO SANRAL TYPICAL DRAWINGS FOR DETAILS REGARDING THE ENDBLOCK CONNECTION AND GUARDRAIL APPROACH AND DEPARTURE DETAILS. THE POSTS AS DETAILED MAY NOT BE REPLACED WITH STEEL POSTS.
- GUARDRAIL SPACING = 3.810 m

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		58 Van Eck Place		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	
		Name		Prof. Reg. No.		Date		Pretoria 0184		Mkondeni Pietermaritzburg 3201				ROUTE SECTION		N.002 SECTION 30		N.002 SECTION 30	
		SANRAL PROJECT MANAGER		CHECKED BY		Name		PO Box 415		PO Box 100410				DRAWING km DISTANCE		DRAWING TYPE		N/A	
		Name		NAME		Prof. Reg. No.		Pretoria 0001		Scottsville 3209		for the SA NATIONAL ROADS AGENCY SOC LTD.		PLACING DETAIL AT BRIDGE APPROACH AT HIGH FILLS (SINGLE CARRIAGEWAY)		BRIDGE/STRUCTURE No.		TP2113-T-110	
		Date		Prof. Reg. No.		Date		South Africa		Tel: (033) 392 8100				SANRAL DOCUMENT #		CONSULTANT DRAWING No.		VER	
1		23/10/09		ORIGINAL										SCALE : N.T.S		SHEET 1 OF 5		1	
No.		DATE		REVISION		CONSULT. ENG.													