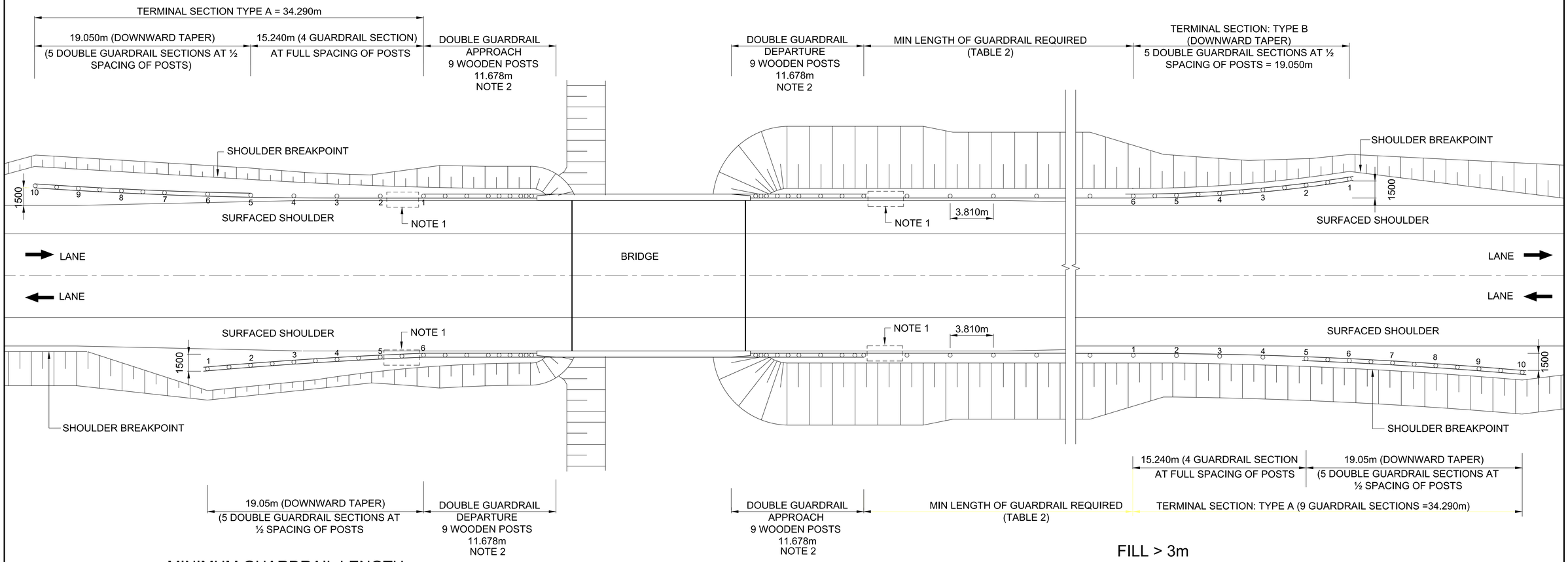


MINIMUM GUARDRAIL LENGTH AT BRIDGES (FILL BELOW 3m)

BRIDGE APPROACH
SCALE 1 : 125

FILL > 3m

TABLE 1 : SETTING OUT POSITIONS OF GUARDRAIL POSTS

TERMINAL SECTION: TYPE A : L=34.29m				TERMINAL SECTION: TYPE B : L=19.050m			
	POST No.	HORIZONTAL OFF-SET X(mm)	VERTICAL OFF-SET Y(mm)		POST No.	HORIZONTAL OFF-SET X(mm)	VERTICAL OFF-SET Y(mm)
APPROACH SIDE	1	0	0	DEPARTING SIDE	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	1185	576				
	10	1500	900				

TABLE 2

MIN LENGTH OF GUARDRAIL REQUIRED (EXCLUDING TERMINAL SECTIONS)

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

NOTES

1. CLOSEST PERMISSIBLE POSITION OF CATCHPIT TO ENDBLOCK ie. NO CATCHPIT PERMITTED BETWEEN POST No. 1 AND ENDBLOCK.
2. REFER TO SANRAL TYPICAL DRAWING TD-S-P-5003-1-V1 FOR DETAILS OF GUARDRAIL TO ENDBLOCK CONNECTION AND GUARDRAIL APPROACH AND DEPARTURE DETAILS.
3. GUARDRAIL SPACING = 3.810m.

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

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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)

GUARDRAILS
PLACING DETAIL AT BRIDGE APPROACHES AND HIGH FILL (SINGLE CARRIAGEWAY)

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 - GUARDRAILS	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	312-00827-01-TD28	VER
SANRAL DOCUMENT #	XXXXXX	V1

312-00827-01-TD28