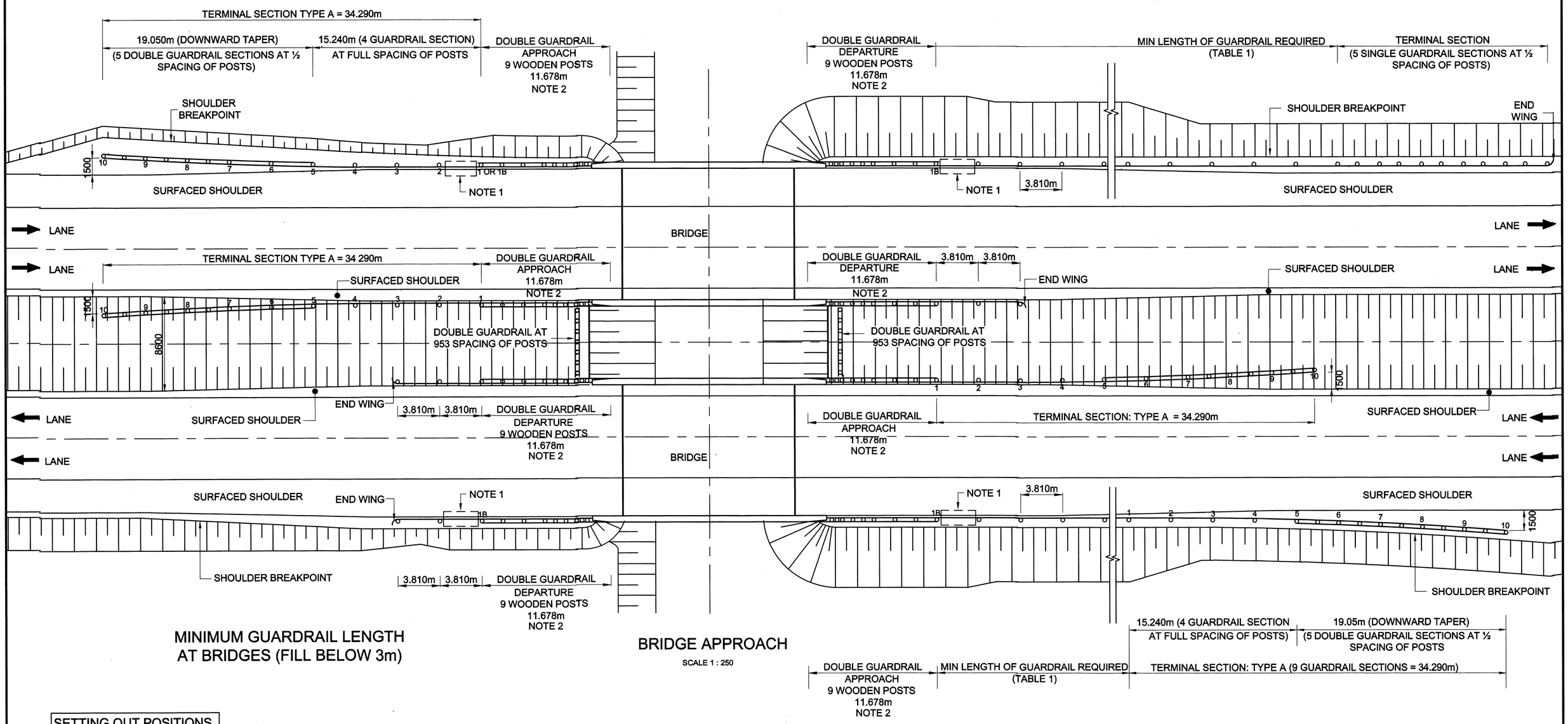
UNDER REVISION



MINIMUM GUARDRAIL LENGTH AT BRIDGES (FILL BELOW 3m)

BRIDGE APPROACH

SCALE 1 : 250

FILL > 3m

SETTING OUT POSITIONS OF GUARDRAIL POSTS		
TERMINAL SECTION TYPE A		
POST No.	HORIZONTAL OFF-SET X(mm)	VERTICAL OFF-SET Y(mm)
1	0	0
2	19	0
3	74	0
4	167	0
5	296	0
6	463	36
7	667	144
8	907	324
9	1185	576
10	1500	900

TABLE 1	
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. 1B 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. THE POSTS AS DETAILED MAY NOT BE REPLACED WITH STEEL POSTS
3. GUARDRAIL SPACING = 3.810m.

FOR LATEST VERSION CHECK www.nra.co.za

No.	DATE	VERSION / REVISION	APPROVED
V2	FEB 2016	MINOR AMENDMENT TO TERMINAL SECTION	
V1	SEPT 2014	ORIGINAL VERSION	

SANRAL TYPICAL DRAWINGS

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APPROVED

DATE: 2016/02/26

TYPICAL DRAWINGS - ROADWORKS

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

SANRAL DOC. No. (PDF): **1693299**
SANRAL DOC. No. (DWG): **1797382**
SANRAL DRAWING No.: **TD-R-GR-1200-V2**