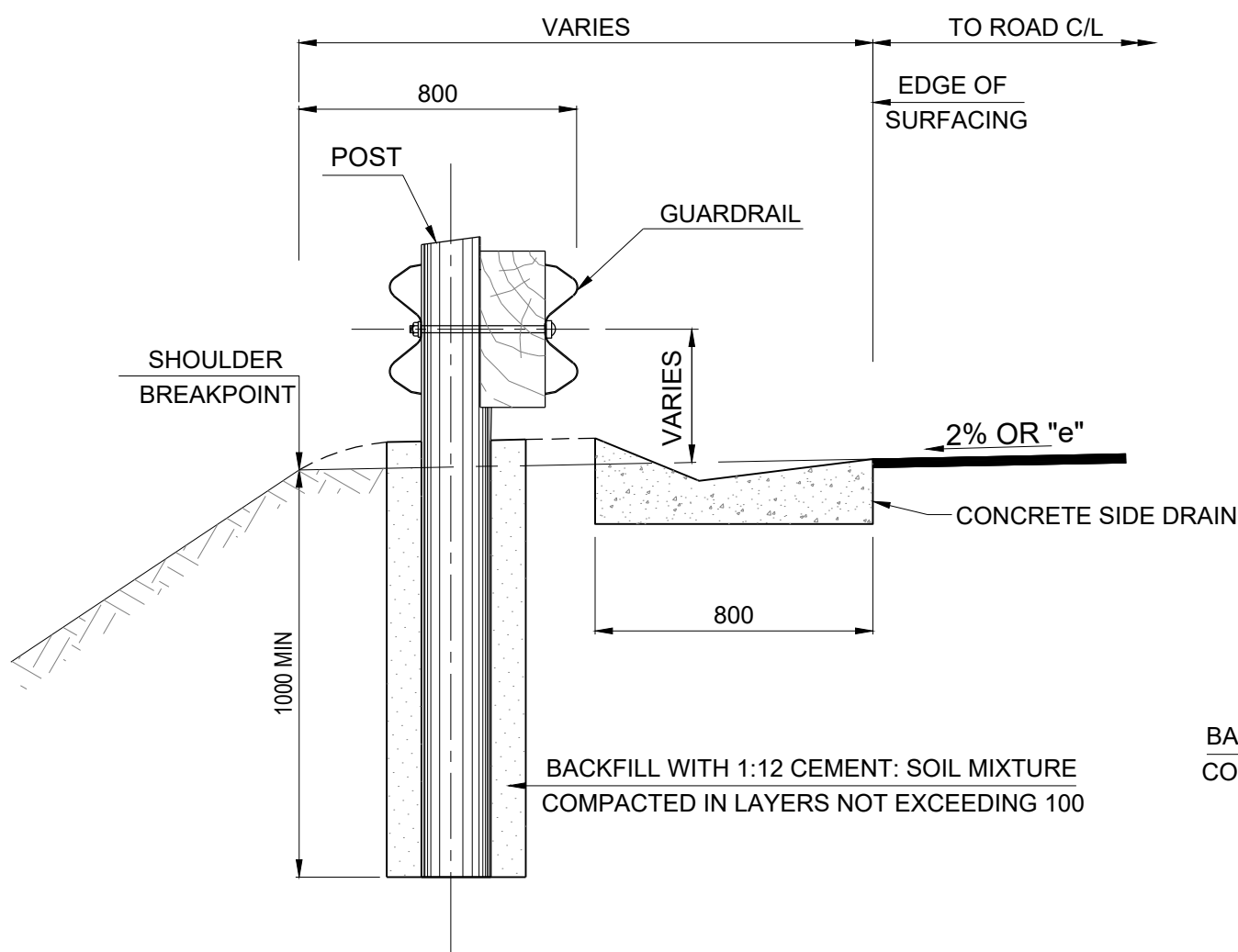
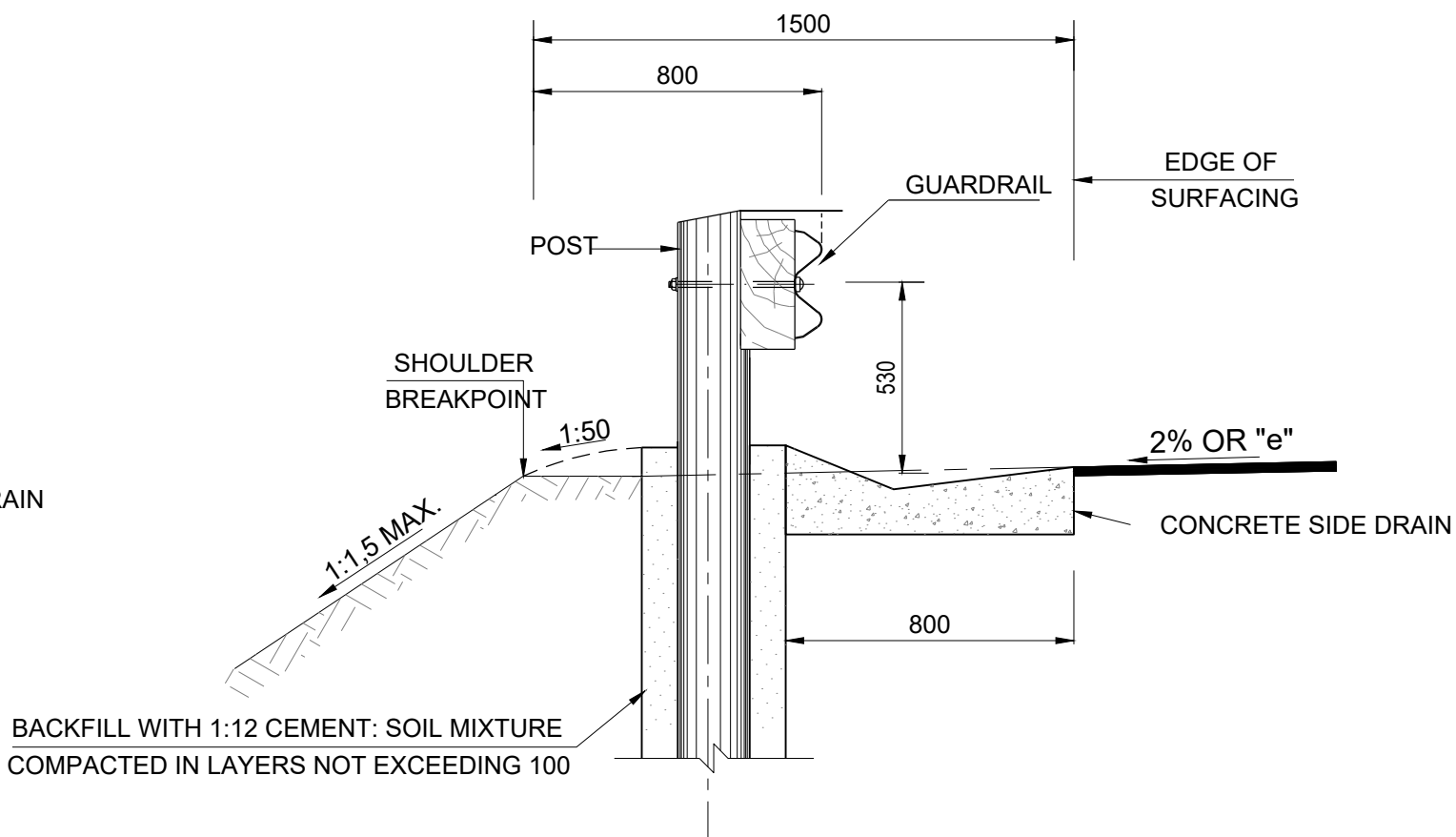


SECTION A - A
SCALE 1:20



SECTION B - B
SCALE 1:20



SECTION C - C
WITH CONCRETE SIDE DRAIN
SCALE 1:20

- NOTE:
1. LENGTH OF GUARDRAIL = 4 128
 2. NORMAL SPACING OF POSTS = 3 810

NOTES ON ERECTION DETAILS

1. THE HOLES FOR TIMBER POSTS SHALL BE OF SUFFICIENT SIZE TO PERMIT PROPER SETTING OF THE POSTS AND TO ALLOW SUFFICIENT ROOM FOR BACKFILLING.
2. AT LEAST 1,0m OF POST SHALL BE EMBEDDED IN THE GROUND
3. HOLES FOR TIMBER POSTS SHALL BE SPACED TO SUIT THE STANDARD LENGTH OF GUARDRAIL SUPPLIED.
4. HOLES SHALL BE BACKFILLED WITH (12:1) SOIL CEMENT MIXTURE AT OPTIMUM MOISTURE CONTENT IN COMPACTED LAYERS NOT EXCEEDING 100mm.
5. WHERE JOINTED, THE END OF THE GUARDRAIL WHICH OVERLAPS ON THE SIDE OF THE TRAFFIC SHALL POINT IN THE DIRECTION OF THE TRAFFIC MOVEMENT.

GUARDRAIL WARRANT

1. WHERE THE ROAD IS IN FILL > 3.0m.
2. WHERE THERE IS PERMANENT WATER ADJACENT TO THE ROADWAY.
3. ON ALL BRIDGE APPROACHES.
4. AT OBSTRUCTIONS 1.0m AWAY FROM THE SHOULDER BREAKPOINT.
5. AT ANY DANGER POINT WHERE THE OFF-SHOULDER HAZARD IS GREATER THAN THE HAZARD OF THE GUARDRAIL.

THE ABOVE CRITERIA ARE TO BE APPLIED WITH DISCRETION AND THE POSITION OF ALL GUARDRAILS MUST BE CONFIRMED WITH THE ENGINEER PRIOR TO THE ERECTION THEREOF.

				CONSTRUCTION RECORD (AS-BUILT)		DESIGNED BY		CONSULTANT APPROVAL		HEAD OFFICE		NORTHERN REGION		ACCEPTANCE		PROJECT DESCRIPTION		PROJECT NUMBER	
				WORKS CONTRACT ENGINEER		NAME		Name:		48 Tamboe Avenue		38 Ida Street		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		PERIODIC MAINTENANCE ON NATIONAL ROUTE 2 SECTION 21X FROM HARDING (KM 60.1) TO IZINGOLWENI (KM 102.0)		N.002-210-2022-1/F	
				Name:		Prof. Reg. No.		Prof. Reg. No.		Val de Grace		Menlo Park						DRAWING LOCATION DATA	
				Date:		CHECKED BY		Date:		Pretoria		Pretoria						START	
				SANRAL PROJECT MANAGER		NAME				0184		0081						END	
				Name:		Prof. Reg. No.				PO Box 415		Private Bag X17						DRAWING km DISTANCE	
				Date:		DRAWN BY				Pretoria 0001		Lynnwood Ridge						60.1 102.0	
						NAME				South Africa		0040						TYPICAL DRAWING - ROADWORKS	
										Tel: (012) 844 8000		Tel: (012) 426 6200						BRIDGE/STRUCTURE No.	
																		CONSULTANT DRAWING No.	
																		D8122773/T	
																		SANRAL DOCUMENT #	