

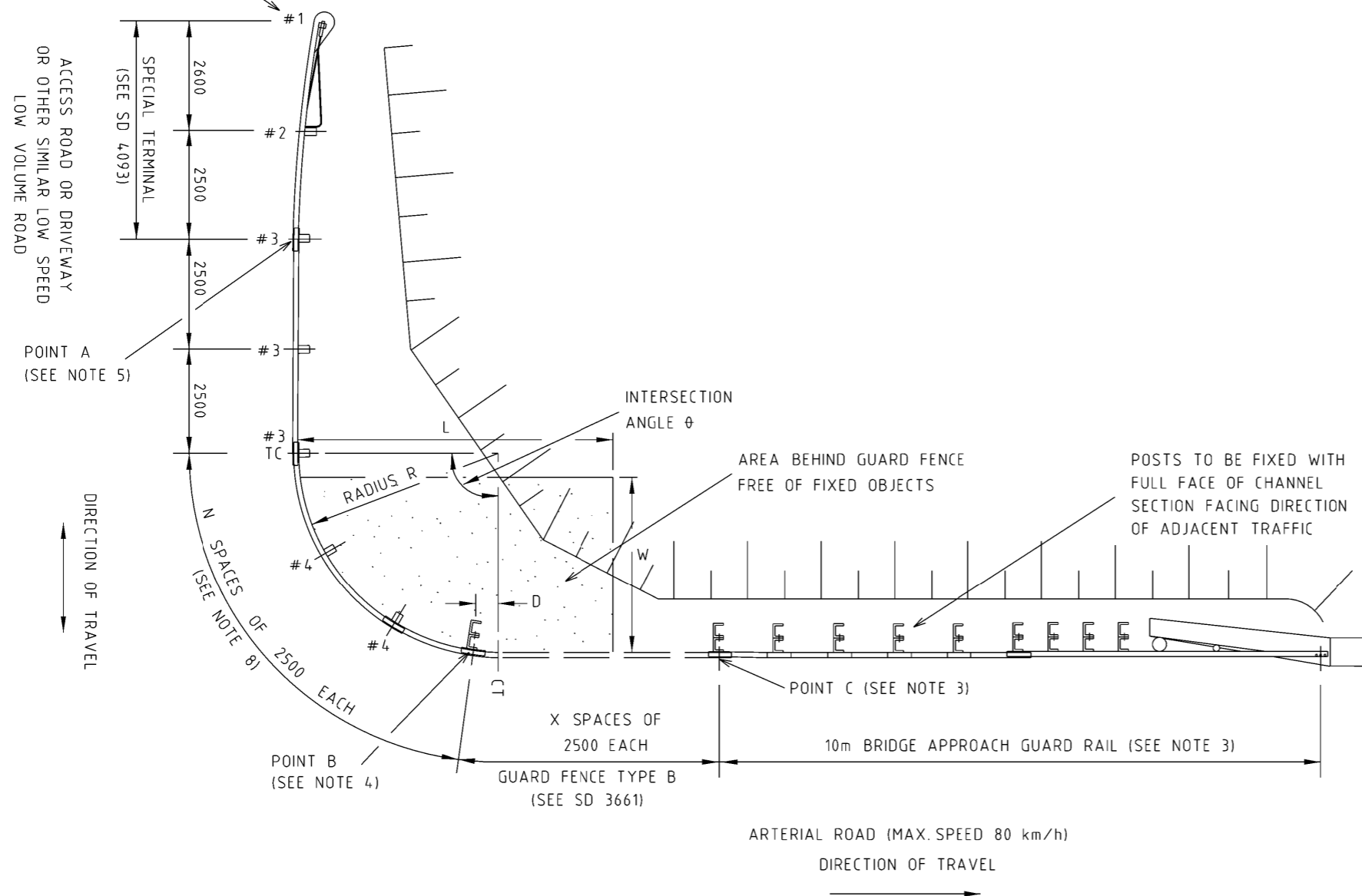
TABLE 1 - SET OUT DETAILS

φ APPROXIMATE INTERSECTION ANGLE (DEGREES)	R RADIUS (mm)	N NUMBER OF 2500 mm SPACES ON THE CURVED SECTION	X MINIMUM NUMBER OF 2500 mm SPACES BETWEEN POINT B AND POINT C	D DISTANCE BETWEEN POINT B AND CT (mm)	L x W REQUIRED AREA FREE OF FIXED OBJECTS (mm x mm)
60	5000	2	0 MINIMUM	240	7500 x 4500
90	2500	SEE SD 4092			
	5000	3	1 MINIMUM	350	9000 x 4500
	7500	5	1 MINIMUM	-720	12000 x 6000
	10000	6	0 MINIMUM	710	15000 x 6000
120	2500	2	0 MINIMUM	240	7500 x 4500
135	2500	2	0 MINIMUM	890	7500 x 4500

TABLE 2 - BOLT SCHEDULE

BREAKAWAY POST TYPE	#1 (SEE SD 4093)	#2 (SEE SD 4093)	#3 (SEE SD 4092)		#4 (SEE SD 4092)	
			MAIN POST (1)	INTER-MEDIATE POST (2)	MAIN POST (1)	INTER-MEDIATE POST (2)
M16 POST BOLTS	1 (30mm LONG)	1 (220mm LONG)	1 (220mm LONG)	1 (220mm LONG)	1 (220mm LONG)	1 (220mm LONG)
SPLICE BOLTS	0	0	8	0	8	0
NUTS	1	1	8 OVERSIZE NUTS 1 M16 NUT	1 M16 NUT	8 OVERSIZE NUTS 1 M16 NUT	1 M16 NUT
WASHERS	1	1	1	1	1	1
SHELF ANGLES	0	0	0	0	1	1

SEE BOLT SCHEDULE IN TABLE 2



- (1) MAIN POSTS ARE LOCATED AT THE ENDS OF THE RAIL SECTION
- (2) INTERMEDIATE POSTS ARE THE POSTS LOCATED BETWEEN MAIN POSTS

- NOTES:
- THIS TREATMENT SHOULD BE USED ONLY AT LOCATIONS WHERE IT IS NOT PRACTICAL TO RELOCATE THE INTERSECTING ROADWAY FURTHER AWAY FROM THE BRIDGE END POST IN ORDER TO ACCOMMODATE THE 10m STANDARD BRIDGE APPROACH GUARDRAIL AND THE BREAKAWAY CABLE TERMINAL (BCTA).
 - THIS TREATMENT SHOULD NOT BE USED WHERE PEOPLE ARE LIKELY TO BE PRESENT IN THE AREA BEHIND THE CURVED GUARDRAIL SECTION BECAUSE THIS AREA IS SUBJECT TO HEAVY FLYING DEBRIS ON IMPACT.
 - THE 10m BRIDGE APPROACH GUARDRAIL STARTS FROM POINT C. ITS LAYOUT DEPENDS ON THE TYPE OF BRIDGE BARRIER USED. FOR DETAILS, REFER TO SD 4081 AND SD 4082.
 - WHERE THERE IS NO BRIDGE ON THE ARTERIAL ROAD, BEGIN THE STANDARD TYPE B GUARD FENCE AT POINT B.
 - IF ADDITIONAL GUARD FENCE IS REQUIRED ON THE ACCESS ROAD OR DRIVEWAY, REPLACE THE SPECIAL TERMINAL WITH STANDARD TYPE B GUARD FENCE AND BEGIN THE STANDARD GUARD FENCE AT POINT A.
 - THE CROSS SLOPE IN FRONT OF THE GUARD FENCE SHALL BE 10 TO 1 OR FLATTER. THE EMBANKMENT SLOPE BEHIND THE GUARD FENCE SHALL NOT BE STEEPER THAN 2 TO 1.
 - REFER TO THE FOLLOWING DRAWINGS FOR POST DETAILS:
POST TYPES #1 AND #2 : SD 4093
POST TYPES #3 AND #4 : SD 4092
 - THE CURVED GUARDRAIL SECTION SHALL BE PRE-CURVED BY THE MANUFACTURER. IF N IS AN ODD NUMBER THE CURVATURE OF THE HALF GUARD RAIL SECTION DOWNSTREAM OF THE CT POINT SHOULD BE ADJUSTED ON SITE TO MATCH THE STRAIGHT ALIGNMENT.
 - BACKING RAILS ARE NOT REQUIRED FOR INTERMEDIATE POSTS TYPES #3 AND #4.
 - WHERE THE FACE OF GUARD FENCE IS ERECTED WITHIN 0 TO 1m BEHIND THE BACK OF KERB, THE MOUNTING HEIGHT SHALL BE MEASURED FROM THE ADJACENT ROAD PAVEMENT SURFACE. HOWEVER, THE VERTICAL POSITION OF THE DRILLED HOLES IN THE TIMBER POSTS SHALL BE MEASURED FROM THE GROUND SURFACE.
 - CONCRETE SURFACING TO BE PROVIDED UNLESS OTHERWISE DIRECTED.
 - WASHERS AT WOODEN POST NUTS ONLY. NO WASHERS ELSEWHERE.

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D																									
C																									
B	D.C.	5/3/12	BOLT SCHEDULE AMENDED																						
A	J.B.	1/7/01	ORIENTATION NOTE ADDED, TABLE 2 - WASHERS AMENDED, NOTE 11 & 12 ADDED.																						
ISSUE	APP'D	DATE	AMENDMENT																						
				<p>GENERAL NOTES</p> <p>1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE</p> <p>2. TREATMENT AT INTERSECTIONS NEAR BRIDGES -</p> <p>(1) SPECIAL LAYOUT USING 4m RAIL SD 4092</p> <p>(2) SPECIAL TERMINAL DETAILS SD 4093</p> <p>(3) POST CAP AND AUXILIARY ANCHOR ASSEMBLY SD 4094</p> <p>3. BREAKAWAY CABLE TERMINAL -</p> <p>(1) ANCHOR CABLE AND PLATE DETAILS SD 3551</p> <p>(2) END RAIL AND TERMINAL BULB DETAILS SD 3561</p>						<p>DESIGNED PRINCIPAL ROAD DESIGN ENGINEER</p> <p>APPROVED <i>J. Cunningham</i> 1.2.98</p>		<p>ENGINEERING & TECHNOLOGY CONSULTANTS</p>		<p>STANDARD DRAWING GUARD FENCE TREATMENT AT INTERSECTIONS NEAR BRIDGES GENERAL LAYOUT</p>		CATALOG: PRED	COMPUTER FILE	SCALE	HOR	NOT TO SCALE	FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE
										sd-4091b.dgn	OF METRES	VER					SD 4091	B							