

Capital Regional District Water Department WATERSHED MANAGEMENT DIVISION	SPECIFICATIONS	
	Section: ROADS	
	Subject: CLASS 2 ROAD	
	Original #: SR-2.0 Revision #: SR-2.3	Date: 05-12-1995 Date: 23-04-2002

Design Speed:	30 km/hr	Surface width:	5 m
Sight distance:	65 m	Sub-grade width:	6 m
Horizontal curves:		Crown:	2%
Absolute minimum radius: ¹	25 m	Minimum depth surfacing material: ²	15 cm
Design speed minimum radius:	40 m	Minimum depth ballast material: ³	20 cm
Maximum grade:		Minimum clearing width: ⁴	10 m
Sustained	12%		
Short-Pitched (<150 m)	14%		
Major drainage structures:		Ditch width:	80 cm
Design flow:	100 year return period	Ditch depth (below sub-grade):	30 cm
Design load:	90 tonnes (approx. 100 tons)		
Minimum culvert size:		Drainage structure materials:	Galvanized metal and arch plate culverts with minimum 2.0 mm corrugated steel pipe (14GA), concrete box culverts and concrete bridges.
Defined water course:	0.6 m (600 mm)		
Ditch cross-drain:	0.4 m (400 mm)		

¹ Widening of curves will be required to accommodate lowbeds and similar equipment. Apply a 7.5 m widening of the sub-grade to the inside of the curve with a minimum 20 m taper on each end. Apply the full widening at the beginning of the curve (B.C.) and the end of the curve (E.C.).

² Clean, well graded gravel or equivalent (Unified System); 60 mm maximum coarse grained size, less than 5% 0.08 mm or smaller.

³ Need and depth is determined by quality of native subgrade material. Use angular to sub-angular high component rock; size range 50 - 150 mm.

⁴ Adjustments made for width of cut and fill, ditches and widening of curves. Pruning and thinning may be required to improve visibility at corners. Objective is to retain maximum forest canopy.