

## Chapter 11 Amendments - May 2002

### Revision Register

Issue/ Rev No.	Reference Section	Description of Revision	Authorised by	Date
1		First Issue.	Steering Committee	Oct 2000
2	11.1	New paragraph re coordination of horizontal and vertical alignment.	Steering Committee	May 2002
	11.2	Last paragraph changed to draw attention to limitations of Equation 11.1. Definition of superelevation added.		
	11.3	New paragraph and Table 11.1B giving maximum side friction factors for trucks. New paragraph and Table 11.1C giving maximum side friction factors for unsealed roads.		
	11.4	Addition of explanation of the purpose of superelevation and effect of adverse superelevation.		
	11.4.1	Retitled and inclusion of guidelines on acceptable increases in side friction. Note re superelevation on bridges added to Table 11.2.		
	11.4.2	Retitled and additional material on adverse superelevation.		
	11.4.3	Additional explanation at start.		
	11.4.5	Revised definition of superelevation development length. Added definitions of superelevation runoff length and tangent runout length. Cross reference to Tables 11.5 and 11.6 added to Fig. 11.1.		
	11.4.7	New paragraph covering when superelevation can be developed entirely on the tangent.		
	11.5	New paragraph on desirable minimum curve length.		
	11.6	Equation for reverse circular curve spacing corrected (Case 4A). Additional cases of reverse curves. New paragraph on design speed for superelevation development when curve speeds vary.		
	Fig. 11.2A & Fig. 11.2B	Fig. 11.2 divided into Fig. 11.2A with 6 cases of reverse curves and Fig. 11.2B for similar (broken back) curves.		
	Figs. 11.4, 11.5 & 11.6	New Figures 11.4 and 11.5. Previous Figure 11.4 now 11.6. Figure 11.6 - case for trucks on right hand curves added.		
	11.8	Additional constraints on the use of compound curves.		
	11.9.2	Additional explanation of the basis of transition curve length.		
	11.10	Table 11.8 - renumbered. Additional note re maintenance of clearances on the straight. Two paragraphs added re application of curve widening on reverse curves.		
	11.12	New section - Curve Perception Issues.		
	11.13	New section - Curves on Steep Downgrades.		
	References	Additional references (McLean, Tziotis and Gunitallake; Rahmann; Kanellaidis).		
	New Section	Relationship to other chapters.		