
VicRoads Supplement to the Austroads Guide to Road Design

Introduction to VicRoads Supplement

NOTE:

This VicRoads Supplement must be read in conjunction with the Austroads Guide to Road Design.

Reference to any VicRoads or other documentation refers to the latest version as publicly available on the VicRoads website or other external source.

VicRoads Supplement to the Austroads Guide to Road Design Updates Record

Introduction to VicRoads Supplement

Rev. No. Date Released	Section/s Update	Description of Revision	Authorised By
Rev. 1.0 July 2010	First Edition	Development of Supplement	ED – Network & Asset Planning
Rev. 1.1 Sept 2010	Various	Minor edits to text	Principal Advisor- Design, Traffic & Standards
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This VicRoads Supplement has been developed by VicRoads Technical Services and authorised by the Executive Director – Policy and Programs.

The VicRoads Supplement to the Austroads Guide to Road Design provides additional information, clarification or jurisdiction specific design information and procedures which may be used on works financed wholly or in part by funds from VicRoads beyond that outlined in the Austroads Guide to Road Design guides.

Although this publication is believed to be correct at the time of printing, VicRoads does not accept responsibility for any consequences arising from the information contained in it. People using the information should apply, and rely upon, their own skill and judgement to the particular issue which they are considering. The procedures set out will be amended from time to time as found necessary.

1.0 Introduction to VicRoads Supplement

This VicRoads Supplement has been developed to provide further information and clarification for specific design details required by VicRoads that have not been addressed in the Austroads Guide to Road Design (AGRD).

All VicRoads Supplements to AGRD are freely available on VicRoads website.

1.1 Using this Supplement

The VicRoads Supplement to the Austroads Guide to Road Design has been developed to provide additional clarification and/or information to assist in the designing of roads and associated infrastructure. The VicRoads Supplements must be read in conjunction with the corresponding Austroads Guide/s.

1.1.1 Inclusion by exception

Information has been included in the VicRoads Supplement if VicRoads believed that it was not sufficiently covered in the Austroads Guides, further clarification was required, or there was a need to provide local jurisdictional guidance (which may conflict with the Austroads Guides).

1.1.2 Broad Transition Map

Table 1.1 provides an overview of the transition from the previous VicRoads and Austroads design guides to the new Austroads Guides structure.

1.1.3 Conflicting directions - precedence

The VicRoads Supplement shall take precedence over the Austroads Guides where there is a conflict. Further clarification can be obtained from VicRoads Principal Road Design Engineer.

1.1.4 Updates and Reviews

VicRoads will review and update the Supplement from time to time as required. These updates will be available on VicRoads website.

1.1.5 Use of Latest Version Available

Referencing to all documents refers to the latest version available.

1.1.6 Contacts

Information or queries regarding the VicRoads Supplement to the Austroads Guide to Road Design can be obtained by emailing austroadsguides@roads.vic.gov.au.

Further information about the Austroads Guides can be obtained from the Austroads website – www.austroads.com.au.

1.2 Road Design Notes

With the adoption of the Austroads Guides by VicRoads, all of the existing Road Design Notes (RDNs) have been reviewed for currency. The RDNs which have been retained have been renumbered to reflect the structure of the new Austroads Guide to Road Design. Details on the status of each RDN are provided in Table 1.2. RDNs are freely available on the VicRoads website.

1.2.1 Accepted Products

RDNs that identify accepted products for use in Victoria will be retained and updated as required.

1.3 Standard Drawings for Roadworks

VicRoads Standard Drawings for Roadworks will remain as a separate document and their reference numbers remain unchanged. All Standard Drawings for Roadworks are available on the VicRoads website and will be updated as required.

1.4 Final Drawing Presentation Guidelines

The VicRoads Final Drawing Presentation Guidelines will remain as a separate document. The document is available on the VicRoads website and will be updated as required.

1.5 Designing for Trucks

The design requirements for trucks are detailed within all relevant parts of the Austroads Guide to Road Design and other relevant guides such as the Austroads Guide to Traffic Management and VicRoads Traffic Engineering Manual – Volume 1 & Volume 2. Where insufficient information is available or specific Victorian jurisdictional details are required, these have been detailed in the relevant section of the VicRoads Supplement.

1.6 Designing for Motorcycles

Details regarding the design requirements for motorcycles are contained within relevant sections of the Austroads Guide and VicRoads Supplement. Further guidance on VicRoads requirements are contained in the VicRoads document, *Making roads motorcycle friendly: A guide for road design, construction and maintenance* (VicRoads, 2007), Motorcycle Notes and information provided on VicRoads website.

Table 1.1: Transition from superseded road design documents to Austroads Guides

Superseded Documents	Primary Austroads Guide (Destination)
VicRoads Road Design Guidelines	
Part 1 - Design Philosophy (unpublished)	n/a
Part 2 - Horizontal and Vertical Geometry	Guide to Road Design - Part 3: Geometric Design
Part 3 - Cross Section Elements	Guide to Road Design - Part 3: Geometric Design
	Guide to Road Design - Part 6: Roadside Design, Safety and Barriers
Part 4 - Intersections (unpublished)	n/a
Part 5 - Interchanges	Guide to Road Design - Part 4C: Interchanges
Part 6 - Noise Abatement (unpublished)	n/a
Part 7 - Drainage	Guide to Road Design - Part 5: Drainage Design Note: AGRD Part 5 (2010) was not adopted by VicRoads
Part 8 - Landscape (unpublished)	n/a
Part 9 - Standard Drawings for Roadworks	VicRoads Standard Drawings for Roadworks
Part 10 - Design Control	Guide to Road Design - Part 8: Process and Documentation
Part 11 - Final Drawing Presentation Guidelines	VicRoads Final Drawing Presentation Guidelines
Part 12 - Safety Barriers (unpublished)	n/a
Technical Bulletin 32: Subsurface Drainage	Guide to Pavement Technology - Part 10: Subsurface Drainage
	Guide to Road Design - Part 3: Geometric Design
	Guide to Road Design - Part 5: Drainage Design
Austroads Guides	
Urban Road Design: A Guide to the Geometric Design of Major Urban Roads (AP-G69/02)	Guide to Road Design - Part 3: Geometric Design
Rural Road Design: A Guide to the Geometric Design of Rural Roads (AP-G1/03)	Guide to Road Design - Part 3: Geometric Design
Austroads Design Vehicles and Turning Path Templates (AP-G34/06)	Austroads Design Vehicles and Turning Path Templates (AP-G34/06)
Waterway Design - A Guide to the Hydraulic Design of Bridges (AP-23/94)	AS5100 - Bridge Design
	Guide to Road Design - Part 5: Drainage Design
	Guide to Bridge Technology - Part 4: Design Procurement and Concept Design
Road Safety Audit (2nd Edition) (AP-G30/02)	Guide to Road Safety - Part 6: Road Safety Audit
Guide to Traffic Engineering Practice	
Part 1 - Traffic Flow (AP-11.1/88)	Guide to Traffic Management - Part 3: Traffic Studies and Analysis
Part 2 - Roadway Capacity (AP-11.2/88)	Guide to Traffic Management - Part 2: Traffic Theory
Part 3 - Traffic Studies (AP-G11.3/04)	Guide to Traffic Management - Part 3: Traffic Studies and Analysis
Part 4 - Treatment of Road Crashes (AP-G11.4/04)	Guide to Road Safety - Part 8: Treatment of Crash Locations

Superseded Documents	Primary Austroads Guide (Destination)
Part 5 - Intersections at Grade (AP-G11.5/05)	Guide to Traffic Management - Part 6: Intersections, Interchanges and Crossings
	Guide to Road Design - Part 4: Intersections and Crossings General
	Guide to Road Design - Part 4A: Unsignalised and Signalised Intersections
Part 6 - Roundabouts (AP-11.6/93)	Guide to Traffic Management - Part 6: Intersections, Interchanges and Crossings
	Guide to Road Design - Part 4B: Roundabouts
Part 7 - Traffic Signals (AP-G11.7/03)	Guide to Traffic Management - Part 6: Intersections, Interchanges and Crossings
	Guide to Traffic Management - Part 9: Traffic Operations
	Guide to Traffic Management - Part 10: Traffic Control and Communication Devices
Part 8 - Traffic Control Devices (AP-11.8/88)	Guide to Traffic Management - Part 10: Traffic Control and Communication Devices
Part 9 - Arterial Road Traffic Management (AP-11.9/88)	Guide to Traffic Management - Part 5: Road Management
Part 10 - Local Area Traffic Management (AP-G11.10/04)	Guide to Traffic Management - Part 8: Local Area Traffic Management
Part 11 - Parking (AP-11.11/88)	Guide to Traffic Management - Part 11: Parking
Part 12 - Roadway Lighting (AP-G11.12/04)	Guide to Road Design - Part 6B: Roadside Environment
Part 13 - Pedestrians (AP-11.13/95)	Guide to Road Design - Part 6A: Pedestrian and Cyclist Paths
	Guide to Road Design - Part 3: Geometric Design
Part 14 - Bicycles (AP-11.14/99)	Guide to Road Design - Part 6A: Pedestrian and Cyclist Paths
	Guide to Road Design - Part 3: Geometric Design
Part 15 - Motorcycle Safety (AP-11.15/99)	Guide to Road Design - Part 3: Geometric Design
	Guide to Road Design - Part 6: Roadside Design, Safety and Barriers
Part 16 - On Road Public Transport (IR-82/04)	Guide to Road Design - Part 3: Geometric Design
	Guide to Traffic Management - Part 4: Network Management
	Guide to Traffic Management - Part 5: Road Management
	Guide to Traffic Management - Part 6: Intersections, Interchanges and Crossings

Table 1.2: RDN Review and Update

Superseded RDN No.	RDN Title	Action	Relevant AGRD Part and Section	New RDN No.
RDN 2-06	Car Deceleration Distances	RDN deleted and information included in VicRoads Supplement	Part 3 – Section 5	n/a
RDN 3-07	Details of Longitudinal Crowns	RDN deleted and information included in VicRoads Supplement	Part 3 – Section 4	n/a
RDN 3-18f	Use Of Wire Rope Safety Barriers (WRSB)	Active	Part 6 – Section 1	RDN 6-02
RDN 3-19	Run Out Area Behind BCTA (Break Away Terminal Type A).	RDN deleted and information included in VicRoads Supplement and SD 3571	Supplement & Part 6 – Section 6	n/a
RDN 3-20	Critical Taper Angles at the Approach to New Jersey Barriers	RDN deleted and information included in VicRoads Supplement	Supplement & Part 6 – Section 6	n/a
RDN 3-22	Provision for Trucks	RDN deleted and information included in VicRoads Supplement	Part 3 – Section 4	n/a
RDN 3-30b	Use Of High Profile Barrier Kerb (HPBK)	Active	Part 3 – Section 4	RDN 3-01
RDN 3-31	Roadside Utility Poles	Active	Part 6 – Section 5	RDN 6-03
RDN 3-32	Accessible Tram Stops in Medians	Active	Part 3 – Section 4	RDN 3-02
RDN 3-33	Accessible Tram Stops in Safety Zones	Active	Part 3 – Section 4	RDN 3-03
RDN 3-34	Designing for Safer Maintenance	New	Part 3 – Sections 1 & 2	RDN 3-04
RDN 3-35	Central Island Platform Stops	New	Part 3 – Section 4	RDN 3-05
RDN 6-01a	Interpretation and Application of VicRoads Traffic Noise Reduction Policy	Active	Part 6B – Section 2	RDN 6-01
RDN 7-06	Detention Basins for Roadworks	Deleted	Part 5 – Section 7	n/a
RDN 7-10	High Density Polyethylene Structured Wall Pipes	Deleted	Part 5 – Section 4.6.6	n/a
RDN 9-06a	Pit And Pipe Invert Levels	Active	Part 5 – Section 4.6.6	RDN 5-01
RDN 9-10	Supplier-Modified Break-Away Cable Terminal	RDN deleted and information included in VR Supplement and SD 3541 – 3571	Part 6 – Section 6 (& RDN 3-19)	n/a
RDN 9-11	ROCLA CPO (Circular Punched Outlet) Pits	Deleted	Part 5	n/a
RDN 9-12a	Accepted Safety Barrier Products	Active	Part 6 – Section 6	RDN 6-04
RDN 9-13a	Accepted Drainage Products	Active	Part 5 – Section 4.6	RDN 5-02
RDN 9-14	Accepted DDA Products	Active	Part 6a – Section 6	RDN 6-05
RDN 9-15	Guidelines for the Placement of Tactile Ground Surface Indicators	Active	Part 6a – Section 6	RDN 6-06
RDN 12-01	Performance Safety Barrier Treatments at Bridge Approaches	Active	Part 6 – Section 6	RDN 6-07
RDN 12-4	Quadguard (tm) Crash Cushions	Deleted	Part 6 – Section 6	n/a