

Appendix H

Standards and Guidelines
Relevant to the Road Network

Standards and Guidelines

Bridges and Culverts

Bridge Manual : Transit New Zealand, 1994

Bridge Inspection and Maintenance Manual: Transit New Zealand, 1991

Waterway Design – A Guide to the Hydraulic Design of Bridges, Culverts and Floodways: AUSTROADS, 1994

Procurement

Procurement Manual – New Zealand Transport Agency

General Conditions of Contract for Building and Civil Engineering Construction: NZS 3910, 2003

Model Conditions of Engagement between Commercial Client and Consultant for Professional Services: ACENZ/IPENZ, 2009

Geometric Design

Code of Practice for Urban Land Subdivision: NZS 4404, 1981

Rural Road Design – Guide to the Geometric Design of Rural Roads: AUSTROADS, 1989

Guide to Traffic Engineering Practice – Parts 1 – 14: AUSTROADS, 1988

Highway Surface Drainage – Design Guide for Highways with a Positive Collection System: National Roads Board, 1977

Maintenance Management Systems

RAMM Road Condition Rating and Roughness Manual: Transfund New Zealand, 1997

RAMM Database Operation Manual: Transfund New Zealand, 1997

Operational Management

Code of Practice for Temporary Traffic Management, Edition 3: Transit New Zealand, 2004

Code of Practice for Working in the Road, AUOG, 2004

Overweight Permit Manual: Transit New Zealand, 1995

Pavement Design

Bituminous Sealing Manual: Transit New Zealand, 1993

Pavement Design – A Guide to the Structural Design of Road Pavements: AUSTROADS, 1992 (plus New Zealand supplement, 1995)

Safety

Manual of Traffic Signs and Markings - Part 1 Traffic Signs: Transit New Zealand/LTSA, 1992

Manual of Traffic Signs and Markings - Part 2 Markings: Transit New Zealand/LTSA, 1994

RSMA Compliance Standard for Traffic Signs: Transit New Zealand/ Road Safety Manufacturer's Association, 2003

RTS 1 – Guidelines for the Implementation of Traffic Control at Crossroads: Ministry of Transport 1990

RTS 2 – Guidelines for Street Name Signs: Ministry of Transport, 1990

RTS 3 – Guidelines for Establishing Rural Selling Places: Ministry of Transport/Transit New Zealand, 1992

RTS 4 – Guidelines for Flush Medians: Ministry of Transport/Transit New Zealand, 1991

RTS 5 – Guidelines for Rural Road Marking and Delineation: Ministry of Transport/Transit New Zealand, 1992

RTS 6 – Guidelines for Visibility at Driveways: Ministry of Transport, 1993

RTS 7 – Advertising Signs and Road Safety: Design and Location Guidelines: Transit New Zealand/LTSA, 1993

RTS 8 – Guidelines for Safe Kerbline Protection: Transit New Zealand/LTSA, 1993

RTS 9 – Guidelines for the Signing and Layout of Slip Lanes: Transit New Zealand/LTSA, 1994

RTS 10 – Road Signs and Markings for Level Crossings, 2000

- RTS 11 – Urban Roadside Barriers and Alternative Treatments: LTSA, 1995
- RTS 13 – Road Safety Guidelines for Service Stations: LTSA, 1996
- RTS 14 – Guidelines for Facilities for Blind and Vision Impaired Pedestrians, 2003
- RTS 15 – Guidelines for Urban/Rural Speed Thresholds, 2002
- RTS 17 – Guidelines for Setting Speed Limits: Ministry of Transport, 1995
- RTS 18 – New Zealand on road tracking curves for heavy vehicles, Land Transport NZ, 2007
- Guidelines for Planting for Road Safety: Transit New Zealand, 1991
- TR11 – Recommended Practice for Pedestrian Crossings: National Roads Board, 1988
- Accident Investigation Procedures: Transit New Zealand/Ministry of Transport, 1991
- Safety Audit Policy and Procedures: Transit New Zealand, 1993
- Speed Limits New Zealand – Guidelines for Setting Speed Limits, 2003
- Road Safety Audit: AUSTROADS, 1994
- Traffic Note 1 Pedestrian crossings: LTSA, September 2006
- Traffic Note 2 Platforms as crossing points: LTSA, December 2004
- Traffic Note 3 1998 Amendment to Traffic Regulations 1976: LTSA, June 1998
- Traffic Note 4 Land Transport New Zealand roading-related publications: LTSA, December 2004
- Traffic Note 5 Road safety surveys: LTSA, June 1998
- Traffic Note 6 Agreement of lane-use signs and road markings: LTSA, December 2004
- Traffic Note 7 Guide to heavy vehicle management (RTS16) publish: LTSA, September 2006
- Traffic Note 8 'Ice/grit' supplementary sign: LTSA, July 1998
- Traffic Note 9 Railway level crossing signs and markings: LTSA, December 2004
- Traffic Note 10 Trials of traffic control devices: LTSA, December 2004
- Traffic Note 11 No-passing lines against flush medians: LTSA, December 2004
- Traffic Note 12 Approval of reflective material for traffic signs: LTSA, December 2004
- Traffic Note 13 1998 Road Safety Survey Reports: LTSA, November 1998
- Traffic Note 14 Approved trials of traffic control devices: LTSA, September 2006
- Appendix 1: Ramp metering signal trial
- Appendix 2: Pedestrian crossing zigzag marking trial
- Appendix 3: Active warning signs trial
- Appendix 4: Pedestrian crossing warning lights
- Traffic Note 15 Use of temporary speed limits for temporary hazards and special events: LTSA, July 2004
- Traffic Note 16 1999 Road safety surveys: LTSA, October 1999
- Traffic Note 17 Traffic control devices on private roads: LTSA, October 1999
- Traffic Note 18 Traffic information signs: Black on white background: LTSA, October 1999
- Traffic Note 19 Engine braking controls: LTSA, April 2005
- Traffic Note 20 Truck crashes and advisory speeds: LTSA, April 2005
- Traffic Note 21 Signs and markings for passing lanes: LTSA, May 2000
- Traffic Note 22 New NZ/Australian road lighting standard: LTSA, May 2000
- Traffic Note 23 Speed indicator devices: LTSA, May 2000
- Traffic Note 24 Railway Level Crossing Guideline published: LTSA, May 2000
- Road signs and markings for railway level crossings
- Traffic Note 25 Retro reflective raised pavement markers: LTSA, December 2004

- Traffic Note 26 Fluorescent retro-reflective traffic sign material: LTSA, January 2001
- Traffic Note 27 2000 Road Safety Survey Reports: LTSA, January 2001
- Traffic Note 28 Pedestrian crossings and school crossing points on roads with speed limits of 60km/h or more: LTSA, December 2004
- Traffic Note 29 School crossing points ('kea crossings') : LTSA, December 2004
- Traffic Note 30 Land Transport (Road User) Rule 2004: LTSA, September 2005
- Traffic Note 31 Exemptions to requirements for passenger service and dangerous goods vehicles at rail level crossings: LTSA, September 2005
- Traffic Note 32 Use of fluorescent material on traffic signs: LTSA, August 2001
- Traffic Note 33 2001 Road Safety Survey reports: LTSA, February 2002
- Traffic Note 34 Signing of steep grades: LTSA, February 2002
- Traffic Note 35 Guidelines for urban-rural thresholds: LTSA, December 2004
- Traffic Note 36 Land Transport Rule: Traffic Control Devices 2004: LTSA, September 2006
- Traffic Note 37 40km/h variable speed limits in school zones: LTSA, June 2005
- Traffic Note 38 Land Transport Rule: Setting of Speed Limits 2003: LTSA, September 2005
- Traffic Note 39 Over dimension permit notifications to road controlling authorities: LTSA, September 2003
- Traffic Note 40 Revision of Guidelines for facilities for blind and vision-impaired pedestrians: LTSA, December 2003
- Traffic Note 41 Level crossings on out of service railway lines: LTSA, June 2004
- Traffic Note 42 Work sites at or near level crossings: LTSA, September 2006
- Traffic Note 43 Speed limits less than 50 km/h: LTSA, June 2004
- Traffic Note 44 Safe siting of school bus stops: LTSA, December 2004
- Traffic Note 45 Temporary masking of traffic signs: LTSA, December 2004
- Traffic Note 46 Voluntary traffic surveys: LTSA, December 2004
- Traffic Note 47 Class C road classification: LTSA, December 2004
- Traffic Note 48 Light vehicle sizes and dimensions: street survey results and parking space requirements: LTSA, December 2004
- Traffic Note 49 Limit line and Give Way markings: LTSA, December 2004
- Traffic Note 50 Marking and signing of roundabouts: LTSA, September 2005
- Traffic Note 51 Parking signs and marking: LTSA, December 2004
- Traffic Note 52 School traffic safety team manual: LTSA, January 2005
- Traffic Note 53 Revision of guidelines for road safety audit and the treatment of crash locations: LTSA, January 2005
- Traffic Note 54 Linear delineation panels: LTSA, April 2005
- Traffic Note 55 Review and replacement of the Manual of Traffic Signs and Markings: LTSA, September 2006
- Traffic Note 56 Active school warning signs: NZTA, September 2008
- Traffic Note 57 Active warning signs (not at schools): NZTA, September 2008
- RSS 1 Traffic signal light output: LTSA, 1995/96
- RSS 2 Street lighting: LTSA, 1995/96

- RSS 3 Treatment of slip lanes at traffic signals: LTSA, 1995/96
- RSS 4 Stop and give way controls at intersections: LTSA, 1996/97
- RSS 5 Advisory speed signs: LTSA, 1996/97
- RSS 6 Pedestrian crossings: LTSA, 1996/97
- RSS 7 Temporary speed limits: LTSA, 1998
- RSS 8 Traffic control at road works: LTSA, 1998
- RSS 9 Safety management systems: LTSA, 1998
- RSS 10 Skid resistance: LTSA, 1999
- RSS 11 Pedestrian platforms: LTSA, 1999
- RSS 12 Floodlighting pedestrian crossings: LTSA, 1999
- RSS 13 No passing lines: LTSA, 2000
- RSS 14 Roundabouts: LTSA, 2000
- RSS 15 Roadside hazard management: LTSA, 2001
- RSS 16 Road hierarchies: LTSA, 2001
- RSS 17 School crossing facilities: LTSA, 2002
- RSS 18 Data collection: LTSA, 2002
- RSS 19 Traffic signs: LTSA, 2003
- RSS 20 Vehicle entrances, stock crossing facilities and amenity carriageway surfacings: LTSA, 2004
- RSS 21 Traffic calming devices: LTSA, 2004
- RSS 22 Road markings: LTSA, 2004
- RSS 23 Crash reduction studies and monitoring: LTSA, 2005
- RSS 24 Stop and Give Way intersections: LTSA, 2005

Programme Development

- Programme and Funding Manual: Transfund New Zealand, 1996
- Project Evaluation Manual: Transfund New Zealand, 1997

Quality Assurance

- TQS1 – Quality Standard for High QA Level Contracts: Transit New Zealand, 2005
- TQS2 – Quality Standard for Normal QA Level Contracts: Transit New Zealand, 2005
- Safety Management System

Street Lighting

- Code of Practice for Road Lighting: Section 10 – Minor Roads: NZS 6701, 1983
- AS/NZS 1158.0:2005 Road lighting - Introduction
- AS/NZS 1158.1.1:2005 Road lighting - Vehicular traffic (Category V) lighting - Performance and design requirements
- AS/NZS 1158.1.3:1997 Road lighting - Vehicular traffic (Category V) lighting - Guide to design, installation, operation and maintenance
- AS/NZS 1158.2:2005 Road lighting - Computer procedures for the calculation of light technical parameters for Category V and Category P lighting

AS/NZS 1158.3.1:2005 Road lighting - Pedestrian area (Category P) lighting - Performance and design requirements

AS/NZS 1158.6:2004 Road lighting - Lighting for roads and public spaces - Luminaires