

RTA Traffic Management Document Reference List



Transport
Roads & Traffic
Authority

Published APRIL 2011 (Version 1.0)
Supersedes NIL
Amendments: Refer to Amendment Record

RTA Traffic Management Document Reference List

Purpose

The RTA Traffic Management Document Reference List has been provided to assist traffic practitioners in locating traffic topics using one central document.

Background

The RTA has adopted the Austroads *Guide to Traffic Management* and Australian Standards AS 1742, 1743 & 2890 as its primary traffic technical references. The RTA accepts the principles in the Austroads *Guide to Traffic Management* and the Australian Standards with variations documented in a series of Supplements.

The RTA Traffic Management Document Reference List provides information on the contents of:

1. Key traffic management documents used by the RTA. It provides a summary, including access details, of key reference documents.
2. Austroads *Guide to Traffic Management* via a summary of the table of contents for each Part of the Guide.
3. Australian Standards AS1742, AS1743 and AS2890 via a summary of the table of contents for each Part of each Standard.

The reference lists has been provided to assist traffic practitioners in locating a traffic topic by scanning this document or using the search feature within this document.

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Amendment record

Please note that the following updates have been made to this document.

Amendment No	Page	Description	Issued	Approved By
1	31 & 32	References for AS 2890 Part 5 & Part 6 corrected	June 2011	R O'Keefe Mgr Traffic Policies, Guidelines & Legislation

1.0 Key Traffic Management Documents

Austrroads

- *Guide to Traffic Management.*
- *Guide to Road Design.*
- *Guide to Road Safety.*

For Austrroads publications see www.austrroads.com.au and click publications.

RTA staff have direct access to electronic versions of Austrroads publications accessible through the following link:

http://home.rta.nsw.gov.au/org/tnsw/bsg/lfms/library/austrroads_pubs.html

Australian Standards

- *1742 – Manual of Uniform Traffic Control Devices.*
- *1743 – Road Signs – Specifications.*
- *2890 – Parking Facilities.*

For Australian Standards publications see www.standards.org.au and use search engine.

RTA staff have direct access to electronic versions of Australian Standards accessible through the following link:

<http://home.rta.nsw.gov.au/org/tnsw/bsg/lfms/library/standards.html>

RTA documents

- **RTA Supplements**
 - [RTA Supplements for Guide to Traffic Management.](#)
 - [RTA Supplements for Australian Standards.](#)
 - [RTA Supplements for Guide to Road Design](#)
 - [RTA Supplements for Guide to Road Safety](#)
- **RTA Complementary Traffic Material**
 - [Manuals, Guidelines and Technical Directions.](#)

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2.0 Austroads Guide to Traffic Management Contents

Guide to Traffic Management - Part 1: Introduction to Traffic Management

Contents	Introduction to the discipline of traffic management. Breadth of the subject and the relationship between the various parts of the guide.
Part 1	1 SCOPE OF THE GUIDE
Part 1	1.1 Purpose
Part 1	1.2 Scope
Part 1	2 PARTS OF THE GUIDE
Part 1	3 TRAFFIC MANAGEMENT
Part 1	3.1 Practical Context
Part 1	3.2 Definition
Part 1	3.3 Objectives and Principles
Part 1	3.4 Functional Road Hierarchy
Part 1	4 BASIC ELEMENTS OF TRAFFIC MANAGEMENT
Part 1	4.1 Traffic Theory And Analysis
Part 1	4.2 Traffic Control Devices
Part 1	4.3 Legislation, Standards And Guidelines
Part 1	4.4 Application
Part 1	5 USE OF THE GUIDE

Guide to Traffic Management - Part 2: Traffic Theory

Contents	An introduction to the characteristics of traffic flow and the theories, models and statistical distributions used to describe many traffic phenomena. Processes that practitioners should consider.
Part 2	1 INTRODUCTION
Part 2	1.1 Purpose
Part 2	1.2 Scope
Part 2	2 BASIC TRAFFIC VARIABLES AND RELATIONSHIPS
Part 2	2.1 Basic Descriptors of Traffic Flow
Part 2	3 THE STOCHASTIC NATURE OF TRAFFIC BEHAVIOUR
Part 2	3.1 Probabilistic Aspects of Traffic Flow
Part 2	3.2 Statistical Distributions in Traffic
Part 2	3.3 Traffic Headway Distributions
Part 2	4 QUEUING
Part 2	4.1 Introduction and Definitions
Part 2	4.2 Graphical Representation of Queues
Part 2	4.3 Dynamic and Steady State Queuing
Part 2	4.4 Steady State Queues with Random Arrivals and Service
Part 2	4.5 Example Application of Steady State Queuing Theory
Part 2	4.6 Summary of Queuing Theory Formulae

Part 2	5 GAP ACCEPTANCE
Part 2	5.1 Introduction and Definitions
Part 2	5.2 Principal Gap Acceptance Formulae
Part 2	5.3 More Complex Gap Acceptance Situations
Part 2	5.4 Formulae for Displaced Negative Exponential Headways in Major Traffic
Part 2	5.5 Example Applications of Gap Acceptance Analysis
Part 2	5.6 Summary of Basic Gap Acceptance Formulae
Part 2	6 COMBINED GAP ACCEPTANCE AND QUEUING THEORY
Part 2	6.1 Absorption Capacity as a Queuing Service Rate
Part 2	6.2 Gap Acceptance with Multiple Levels of Priority
Part 2	7 VEHICLE INTERACTIONS IN MOVING TRAFFIC
Part 2	7.1 Overview
Part 2	7.2 Car Following
Part 2	7.3 Traffic Bunches and Overtaking
Part 2	7.4 Platoon Dispersion
Part 2	7.5 Congestion Management Theory

Guide to Traffic Management – Part 3: Traffic Studies and Analysis

Contents	Traffic and transport data collection surveys and studies. Traffic analysis for mid-block situations (including freeways/motorways). Analysis of signalised and unsignalised intersections, including roundabouts.
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Part 3	1 INTRODUCTION
Part 3	1.1 Scope and Context I
Part 3	2 TRAFFIC STUDIES AND SURVEYS
Part 3	2.1 Traffic Studies and Data Needs
Part 3	2.2 Planning and Designing Traffic Studies
Part 3	2.3 Statistical Methods and Sampling
Part 3	2.4 Data Integrity
Part 3	2.5 Traffic Surveys
Part 3	3 TRAFFIC ANALYSIS – CAPACITY AND LEVEL OF SERVICE
Part 3	3.1 Types of Traffic Facilities
Part 3	3.2 Capacity, Level of Service, Degree of Saturation
Part 3	3.3 Factors Affecting Capacity, Level of Service, Degree of Saturation
Part 3	4 UNINTERRUPTED FLOW FACILITIES
Part 3	4.1 Single Lane Flow
Part 3	4.2 Two-lane Two-way Roads
Part 3	4.3 Multi-lane Roads
Part 3	4.4 Freeways
Part 3	5 INTERRUPTED FLOW FACILITIES
Part 3	5.1 Metered Flow
Part 3	5.2 Urban Arterial Roads with Interrupted Flow
Part 3	6 INTERSECTIONS
Part 3	6.1 Unsignalised Intersections
Part 3	6.2 Roundabouts
Part 3	6.3 Traffic Simulation and Computer Analysis Models
Part 3	6.4 Signalised Intersections

Guide to Traffic Management - Part 4: Network Management

Contents	Broader issues and aspects of managing networks of roads to provide effective traffic management for all road users. Network needs of freight, public transport, pedestrians, cyclists and private motor vehicles. Network management objectives, operational objectives, network performance measures.
Part 4	1 INTRODUCTION
Part 4	1.1 Scope and Context
Part 4	1.2 What is Network Management?
Part 4	2 NETWORKS AND THEIR USERS
Part 4	2.1 Purposes of Transport Networks
Part 4	2.2 User Modes and Needs of Users of Transport Networks
Part 4	3 STRATEGIC OBJECTIVES
Part 4	3.1 Travel Demand Management
Part 4	3.2 Supply Management
Part 4	4 TRANSPORT NETWORKS
Part 4	4.1 Functional Classification of Roads
Part 4	4.2 Urban Networks
Part 4	4.3 Rural Networks
Part 4	4.4 Public Transport Networks
Part 4	4.5 Heavy Vehicle Networks
Part 4	4.6 Bicycle Networks
Part 4	4.7 Pedestrian Networks
Part 4	5 NETWORK OPERATIONS PLANNING
Part 4	5.1 Planning Framework
Part 4	5.2 Road Use Priority
Part 4	5.3 Network Operating Objectives
Part 4	5.4 Gap Analysis
Part 4	5.5 Operating Strategies
Part 4	5.6 Operational Change Plans
Part 4	5.7 Network Operations Modelling
Part 4	6 BENEFITS OF NETWORK OPERATING PLANS

Guide to Traffic Management - Part 5: Road Management

Contents	Focus on managing mid-block traffic conditions. Good practice for access management, allocation of space to various road users, lane management. Application of speed limits.
Part 5	1 INTRODUCTION
Part 5	1.1 Scope of this Guide
Part 5	1.2 Functional Classification of Roads
Part 5	2 ACCESS MANAGEMENT
Part 5	2.1 Introduction
Part 5	2.2 Application of Access Management
Part 5	3 ROAD SPACE ALLOCATION

Part 5	3.1 Introduction
Part 5	3.2 Allocation of Road Space for General Traffic
Part 5	3.3 Off-road Space for Road Users
Part 5	3.4 Allocation of Road Space between Road User Types
Part 5	4 LANE MANAGEMENT
Part 5	4.1 Introduction
Part 5	4.2 Context of Lane Management
Part 5	4.3 Lane Management Practice
Part 5	5 SPEED LIMITS
Part 5	5.1 Introduction
Part 5	5.2 General Philosophy of Speed Limits
Part 5	5.3 Types of Speed Limits
Part 5	5.4 Application of Speed Limits
Part 5	5.5 Signing of Speed Limits
Part 5	5.6 Physical Speed Management Devices

Guide to Traffic Management - Part 6: Intersections, Interchanges and Crossings

Contents	Types of intersection. Selection of intersection type and appropriate use. Traffic considerations in traffic management for intersections, interchanges and other crossings.
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Part 6	CONTENTS
Part 6	INTRODUCTION
Part 6	1.1 Scope Of This Guide
Part 6	1.2 Traffic Management Objectives
Part 6	2 SELECTION OF INTERSECTION TYPE
Part 6	2.1 Types Of Intersection
Part 6	2.2 Intersection Selection
Part 6	2.3 Evaluation Of Options
Part 6	3 UNSIGNALISED INTERSECTIONS
Part 6	3.1 Introduction
Part 6	3.2 Traffic Controls
Part 6	3.3 Intersection Performance
Part 6	3.4 Road User Considerations
Part 6	3.5 Traffic Control Devices
Part 6	4 ROUNDABOUTS
Part 6	4.1 General
Part 6	4.2 Use Of Roundabouts
Part 6	4.3 Performance
Part 6	4.4 Signalisation Of Roundabouts
Part 6	4.5 Road Space Allocation And Lane Management
Part 6	4.6 Functional Design
Part 6	5 SIGNALISED INTERSECTIONS
Part 6	5.1 Introduction
Part 6	5.2 Functional Layout
Part 6	5.3 Road Space Allocation
Part 6	5.4 Lane Management
Part 6	5.5 Signal Phasing
Part 6	5.6 Signal Timings

Part 6	5.7 Coordination Of Traffic Signals
Part 6	5.8 Traffic Detection
Part 6	5.9 Signs And Road Markings
Part 6	5.10 Road Lighting
Part 6	6 INTERCHANGES
Part 6	6.1 Introduction
Part 6	6.2 Planning Considerations
Part 6	6.3 Route Considerations
Part 6	6.4 Road Space Allocation And Lane Management
Part 6	6.5 Interchange Forms
Part 6	6.6 Ramp Layouts
Part 6	6.7 Basic Lane Numbers And Lane Balance
Part 6	6.8 Traffic Considerations
Part 6	6.9 Ramp Metering
Part 6	6.10 Signing, Marking And Lighting
Part 6	7 RAIL CROSSINGS
Part 6	7.1 Levels Of Protection
Part 6	7.2 Rail Crossings At-Grade
Part 6	7.3 Grade Separated Vehicle Crossings
Part 6	7.4 Level Crossing Treatments
Part 6	7.5 Rail Level Crossings At Or Near Intersections
Part 6	7.6 Path Crossings Of Railways
Part 6	7.7 Lighting At Rail Crossings
Part 6	7.8 Selection Of Treatment
Part 6	8 PEDESTRIAN AND CYCLIST CROSSINGS OF ROADS
Part 6	8.1 Introduction
Part 6	8.2 Mid-Block Crossings On Roads
Part 6	8.3 Intersections Of Paths With Paths

Guide to Traffic Management - Part 7: Traffic Management in Activity Centres

Contents Planning and traffic management of activity centres and associated transport nodes.
Principles for various types of centre.

Part 7	1 INTRODUCTION
Part 7	1.1 Purpose and Scope
Part 7	1.2 Context
Part 7	1.3 Definition of Activity Centres
Part 7	1.4 Generic Situations and Summary Guidance
Part 7	1.5 How to Use this Part of the Guide
Part 7	2 PRINCIPLES AND OBJECTIVES
Part 7	2.1 General Guidance
Part 7	2.2 Principles
Part 7	2.3 Policy and Planning Context
Part 7	3 TECHNIQUES FOR TRAFFIC MANAGEMENT IN ACTIVITY CENTRES
Part 7	3.1 Information Gathering
Part 7	3.2 Traffic and Transport Impact Studies
Part 7	3.3 Managing Travel Demand and Mode Choice
Part 7	3.4 Network Management
Part 7	3.5 Road Design and Capacity
Part 7	3.6 Traffic Calming and Speed Management

Part 7	3.7 Environmental Adaptation
Part 7	3.8 Providing for Pedestrians and Cyclists
Part 7	3.9 Providing for Deliveries and Service Vehicles
Part 7	3.10 Parking Management
Part 7	3.11 Public Transport Access and Operation
Part 7	3.12 Signs and Information
Part 7	4 EXAMPLES AND SUMMARY OF ISSUES FOR EACH TYPE OF ACTIVITY CENTRE
Part 7	4.1 Principal Activity Centres
Part 7	4.2 Town and Suburban Centres
Part 7	4.3 Arterial Shopping Strips
Part 7	4.4 Civic Precincts and Public Spaces
Part 7	4.5 Pedestrian Streets
Part 7	4.6 Shopping Malls
Part 7	4.7 Passenger Transport Interchanges
Part 7	4.8 Hospital and University Campuses
Part 7	4.9 Sports complexes
Part 7	4.10 Tourist Centres
Part 7	4.11 Theme Parks, Exhibitions, Showgrounds Etc
Part 7	4.12 Special Events in Public Places
Part 7	4.13 Freight Transfer Centres

Guide to Traffic Management - Part 8: Local Area Traffic Management

Contents	Principles and processes.
	Issues and resources.
	Selection of schemes and treatments.
	Design and implementation of schemes and devices.

Part 8	1 INTRODUCTION
Part 8	1.1 Scope of this Guide
Part 8	1.2 Purpose of the Guide
Part 8	1.3 Defining LATM
Part 8	1.4 Why Consider LATM?
Part 8	1.5 Local Government Focus
Part 8	1.6 Effectiveness of LATM
Part 8	2 THE LATM PLANNING PROCESS
Part 8	2.1 A Systematic and Comprehensive Approach
Part 8	2.2 Understanding the Functions of a Local Street
Part 8	2.3 Identifying the Causes of Traffic-Related Problems
Part 8	2.4 Network Considerations
Part 8	2.5 LATM Can Have Negative Effects
Part 8	3 STEPS IN THE LATM PROCESS
Part 8	3.1 Stage 1: Preparing for an LATM Study
Part 8	3.2 Stage 2: Defining the Study Scope and Objectives
Part 8	3.3 Stage 3: Developing Plans
Part 8	3.4 Stage 4: Scheme Design
Part 8	3.5 Stage 5: Implementation
Part 8	3.6 Stage 6: Monitoring and Review
Part 8	4 AN OBJECTIVE DECISION PROCESS FOR LATM
Part 8	4.1 The Nature of Warrants

Part 8	4.2 Applying Warrants in a Policy Context
Part 8	4.3 Warrant Systems in Use
Part 8	5 COMMUNITY PARTICIPATION AND INFORMATION
Part 8	5.1 The Role Of Community Involvement In Establishing Needs
Part 8	5.2 Objectives And Benefits Of Community Consultation In The LATM Process
Part 8	5.3 Basic Requirements For Community Participation
Part 8	5.4 Potential Difficulties
Part 8	5.5 Who Should Be Involved
Part 8	6 LEGAL ASPECTS AND DUTY OF CARE
Part 8	7 SELECTION OF LATM SCHEMES AND TREATMENTS
Part 8	7.1 Accepted LATM Devices
Part 8	7.2 Vertical Deflection Devices
Part 8	7.3 Horizontal Deflection Devices
Part 8	7.4 Diversion Devices
Part 8	7.5 Signs, Linemarking and Other Treatments
Part 8	7.6 Combination Devices
Part 8	8 DESIGN CONSIDERATIONS FOR LATM SCHEMES
Part 8	8.1 Placement and Nature of Devices
Part 8	8.2 Forgiving Design
Part 8	8.3 Spacing of Devices
Part 8	8.4 Device Deflection
Part 8	8.5 Design Vehicles and Checking Vehicles
Part 8	8.6 Gradients
Part 8	8.7 Colours and Textures of Materials
Part 8	8.8 Lane Widths
Part 8	8.9 Sight Lines
Part 8	8.10 Conspicuity: Signs, Marking and Lighting
Part 8	8.11 Landscaping and Planting of Treatments
Part 8	8.12 Catering for Cyclists and Pedestrians
Part 8	8.13 Catering for Emergency Vehicles, Buses and Trucks

Guide to Traffic Management – Part 9: Traffic Operations

Contents	Applications used in traffic operations. Current practice for common systems including traffic signals, congestion management, incident management and traveller information. Manual systems used in these application areas. Event management. Information management issues and principles. Related systems integration and interoperability issues.
Part 9	1 INTRODUCTION
Part 9	1.1 Scope and context
Part 9	1.2 Terminology
Part 9	2 OBJECTIVES AND PRINCIPLES
Part 9	2.1 Objectives
Part 9	2.2 Road User Support
Part 9	2.3 Role of ITS
Part 9	3 TRAFFIC OPERATIONS SERVICES
Part 9	3.1 Fields of Service
Part 9	3.2 Range of Services

Part 9	3.3 Organisational Framework
Part 9	3.4 Network Monitoring
Part 9	3.5 Maintaining Road Serviceability and Safety
Part 9	3.6 Traffic Control
Part 9	3.7 Travel Aid and User Information
Part 9	3.8 Demand Management
Part 9	4 TRAFFIC OPERATIONS MEASURES AND TOOLS
Part 9	4.1 Network Monitoring
Part 9	4.2 Maintaining Road Serviceability and Safety
Part 9	4.3 Traffic Control
Part 9	4.4 Travel Aid and User Information
Part 9	4.5 Demand Management
Part 9	4.6 Enforcement
Part 9	4.7 Integration and Interoperability
Part 9	5 SYSTEMS AND PROCEDURES FOR NETWORK MONITORING
Part 9	5.1 Traffic Management Centres
Part 9	5.2 Network Monitoring Systems
Part 9	6 SYSTEMS AND PROCEDURES FOR MAINTAINING ROAD SERVICEABILITY AND SAFETY
Part 9	6.1 Incident Management
Part 9	6.2 Planned and Special Event Management
Part 9	7 SYSTEMS AND PROCEDURES FOR TRAFFIC CONTROL
Part 9	7.1 Traffic Signals
Part 9	7.2 Ramp Metering
Part 9	7.3 Emergency Vehicle Priority
Part 9	7.4 Active Transit Signal Priority
Part 9	7.5 Lane Management Systems
Part 9	7.6 Variable speed limits (VSL)
Part 9	8 TRAVEL AID AND ROAD USER INFORMATION
Part 9	8.1 Road User Information
Part 9	8.2 Information Delivery Channels
Part 9	8.3 Pre-Trip Information
Part 9	8.4 En-Route Information

Guide to Traffic Management - Part 10: Traffic Control and Communication Devices

Contents	Signing and marking schemes. Traffic signs, static and electronic. Pavement markings and delineation. Traffic signals and islands.
Part 10	1 INTRODUCTION
Part 10	1.1 Scope and Context
Part 10	1.2 Traffic Control Devices – Definitions and Functions
Part 10	1.3 Purpose and Use of This Guide
Part 10	1.4 Australian/New Zealand Standards
Part 10	1.5 Road Rules
Part 10	2 PRINCIPLES AND APPLICATION
Part 10	2.1 Uniformity
Part 10	2.2 Factors Affecting Performance
Part 10	2.3 Signs and Markings

Part 10	3 SIGNING AND MARKING SCHEMES
Part 10	3.1 Need for Signing and Marking Schemes
Part 10	3.2 Principles for Preparation of Schemes
Part 10	3.3 Complex and Closely Spaced Intersections
Part 10	3.4 Traffic Management Schemes
Part 10	3.5 Route Plans for Direction Signs
Part 10	3.6 Route Audits
Part 10	3.7 Road Safety Audits
Part 10	3.8 Schemes for Parking Signs on Roads
Part 10	3.9 Signs and Markings for Local Area Traffic Management
Part 10	3.10 Signs and Markings for Roadworks and Temporary Situations
Part 10	4 TRAFFIC SIGNS
Part 10	4.1 Development of New Signs
Part 10	4.2 Types of Signs
Part 10	4.3 Design of Sign Faces
Part 10	4.4 Sign Materials and Illumination
Part 10	4.5 Location and Placement of Signs
Part 10	4.6 Maintenance
Part 10	5 ELECTRONIC SIGNS
Part 10	5.1 Variable Message Signs
Part 10	5.2 Sign Faces
Part 10	5.3 VMS Messages
Part 10	5.4 Message Content and Format
Part 10	5.5 Location and Spacing
Part 10	5.6 Applications of VMS
Part 10	5.7 Variable Speed Limit Signs
Part 10	5.8 Portable VMS
Part 10	6 PAVEMENT MARKINGS
Part 10	6.1 General
Part 10	6.2 Colour and Reflectorisation
Part 10	6.3 Linemarking Materials
Part 10	6.4 Transverse Lines
Part 10	6.5 Other Markings
Part 10	6.6 Use of Coloured Pavements
Part 10	6.7 Raised Pavement Markers
Part 10	6.8 Rumble Strips
Part 10	7 GUIDE POSTS AND DELINEATORS
Part 10	7.1 Features of Guide Posts
Part 10	7.2 Location and Spacing
Part 10	7.3 Delineators
Part 10	7.4 Snow Poles
Part 10	8 TRAFFIC SIGNALS
Part 10	8.1 Types of Displays and their Meanings
Part 10	8.2 Signal Face Layouts
Part 10	8.3 Display Sequences
Part 10	8.4 Location of Signal Faces
Part 10	8.5 Special Uses
Part 10	8.6 Ramp-Metering Signals
Part 10	8.7 Pavement Marking At Signals
Part 10	8.8 Signs Used With Traffic Signals
Part 10	9 TRAFFIC ISLANDS
Part 10	9.1 Flush Medians and Islands
Part 10	9.2 Flush Islands with Pavement Bars
Part 10	9.3 Moveable Medians, Islands and Barriers

Part 10	10 COMMUNICATION DEVICES
Part 10	10.1 General

Guide to Traffic Management - Part 11: Parking

Contents	Parking policy. Demand and supply. Data and surveys. On-street and off-street. Types of parking and parking control.
Part 11	1 INTRODUCTION
Part 11	1.1 Scope Of This Guide
Part 11	1.2 Definition of Parking
Part 11	2 DEMAND FOR PARKING
Part 11	2.1 Parking Demand
Part 11	2.2 Factors Affecting Demand
Part 11	2.3 Mixed Land Use and Shared Parking
Part 11	3 SUPPLY OF PARKING
Part 11	3.1 Different Categories of Parking
Part 11	3.2 Methods of Determining Supply
Part 11	3.3 Area Required
Part 11	3.4 The Cost of Providing Parking
Part 11	4 PARKING POLICY FRAMEWORK
Part 11	4.1 Why Have a Parking Policy
Part 11	4.2 Parking Policy Objectives
Part 11	4.3 Parking Policy Tools
Part 11	4.4 Consultative Planning and Policy
Part 11	4.5 Time Restrictions, Pricing and Enforcement
Part 11	4.6 Linking Technology to Policy
Part 11	4.7 Parking Precinct Plans
Part 11	4.8 Parking Policy Checklist
Part 11	5 PARKING AND THE ENVIRONMENT
Part 11	5.1 Urban Design Considerations
Part 11	5.2 Environmental Impacts of Parking
Part 11	6 OFF-STREET PARKING
Part 11	6.1 The Location of Off-street Parking Facilities, Entrances and Exits
Part 11	6.2 Classification of Off-street Parking Facilities
Part 11	6.3 Parking Facility Layout
Part 11	6.4 Parking Facility Access Design
Part 11	6.5 General Amenities and Other Considerations
Part 11	6.6 Specific Requirements of Car Parking Structures
Part 11	6.7 Parking Payment Methods
Part 11	6.8 Parking Provisions for Other Road Users
Part 11	6.9 Special Event Parking
Part 11	7 ON-STREET PARKING
Part 11	7.1 Priorities for the Use of On-street Space
Part 11	7.2 General Priorities for Allocation of Parking Space
Part 11	7.3 Provision of Parallel Kerbside Parking
Part 11	7.4 Provision of Angle Kerbside Parking

Part 11	7.5 Provision of Centre-of-road Parking
Part 11	7.6 On-street Regulatory Parking Restrictions
Part 11	7.7 Lighting
Part 11	7.8 Provision for Other Road Users
Part 11	7.9 Parking Control Measures
Part 11	8 RURAL PARKING
Part 11	8.1 Rest Areas
Part 11	8.2 Other Roadside Amenities
Part 11	9 PARK-AND-RIDE
Part 11	10 PARKING GUIDANCE AND CONTROL DEVICES
Part 11	10.1 Signs and Pavement Markings
Part 11	10.2 Electronic Guidance Systems
Part 11	11 DUTY OF CARE AND RISK MANAGEMENT

Guide to Traffic Management - Part 12: Traffic Impacts of Developments

Contents	Relationship to road level of service and access management. Development profile and trigger points for treatment. Traffic impact assessment.
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Part 12	1 INTRODUCTION
Part 12	1.1 Purpose and Scope
Part 12	1.2 Context
Part 12	1.3 Traffic Impacts and Developments
Part 12	2 SETTING THE SCENE FOR TRAFFIC IMPACT ASSESSMENTS
Part 12	2.1 Transport and Town Planning
Part 12	2.2 Road Network Planning
Part 12	2.3 Traffic Planning
Part 12	3 TRAFFIC MANAGEMENT FOR DEVELOPMENTS
Part 12	3.1 Elements
Part 12	3.2 Road User Considerations
Part 12	3.3 Access to Developments
Part 12	3.4 Subdivision Developments
Part 12	4 TRAFFIC IMPACT ASSESSMENT
Part 12	4.1 What is Traffic Impact Assessment
Part 12	4.2 The Need for Traffic Impact Assessment
Part 12	4.3 Steps in a Traffic Impact Assessment
Part 12	4.4 Conducting a Traffic Impact Assessment
Part 12	5 ASSESSMENT OF OTHER IMPACTS
Part 12	5.1 Introduction
Part 12	5.2 Infrastructure and Pavement Impact Assessment
Part 12	5.3 Road Safety Assessment
Part 12	5.4 Environmental and Other Impacts

Guide to Traffic Management - Part 13: Road Environment Safety

Contents Principles and management of the safety of road environments within a traffic management context.
Links to relevant sections of the *Guide to Road Design* and *Guide to Road Safety*.

Part 13	1 INTRODUCTION
Part 13	1.1 Scope
Part 13	1.2 Context
Part 13	1.3 Outline
Part 13	1.4 Purpose
Part 13	2 A SAFE ROAD ENVIRONMENT
Part 13	2.1 Safe System Approach
Part 13	2.2 Elements, Concepts and Definitions
Part 13	2.3 Achieving a Safer Road Environment
Part 13	3 HUMAN FACTORS AND THE ROAD SYSTEM
Part 13	3.1 Introduction
Part 13	3.2 Human-Machine-Environment Systems
Part 13	3.3 The Driver-Vehicle-Road System
Part 13	3.4 The Driving Task
Part 13	3.5 Driver Characteristics and Behaviour
Part 13	3.6 Managing the System
Part 13	4 ROAD SAFETY ENGINEERING
Part 13	4.1 Definitions
Part 13	4.2 Objectives
Part 13	4.3 Methods and Approaches
Part 13	4.4 Risk Engineering Concepts
Part 13	4.5 Road Safety Engineering Strategies
Part 13	4.6 Safety Management Systems
Part 13	5 SAFETY ENGINEERING OF THE ROAD ENVIRONMENT
Part 13	5.1 Principles and Elements
Part 13	5.2 Managing the Elements

3.0 Australian Standards Contents

1742.1 - 2003, Part 1: General Introduction and Index of Signs

Part 1	SECTION 1 SCOPE AND INTRODUCTION
Part 1	1.1 Scope
Part 1	1.2 Referenced Documents
Part 1	1.3 Definitions
Part 1	1.4 Classification Of Signs
Part 1	1.5 Number Of Signs And Sign Components
Part 1	1.6 Basic Elements Of Signs
Part 1	1.7 Sign Size
Part 1	1.8 Non-Standard Signs
Part 1	1.9 Responsibility And Authority For Installation On Public Roads
Part 1	SECTION 2 REGULATORY SIGNS
Part 1	2.1 General
Part 1	2.2 Sign Function
Part 1	2.3 Shape, Colour And Message
Part 1	2.4 Index Of Regulatory Signs
Part 1	SECTION 3 WARNING SIGNS
Part 1	3.1 General
Part 1	3.2 Sign Function
Part 1	3.3 Shape, Colour And Message
Part 1	3.4 Index Of Warning Signs
Part 1	SECTION 4 GUIDE SIGNS
Part 1	4.1 General
Part 1	4.2 Sign Function
Part 1	4.3 Basic Design
Part 1	4.4 Index Of Guide Signs
Part 1	SECTION 5 TEMPORARY SIGNS
Part 1	5.1 General
Part 1	5.2 Sign Function
Part 1	5.3 Basic Design
Part 1	5.4 Index Of Signs For Works On Roads And Temporary Hazards
Part 1	SECTION 6 HAZARD MARKERS
Part 1	6.1 General
Part 1	6.2 Function
Part 1	6.3 Basic Design
Part 1	6.4 Index Of Hazard Markers
Part 1	INDEX OF SIGNS
Part 1	PART 1: GENERAL INTRODUCTION AND INDEX OF SIGNS.
	SUPPLEMENT 1: AUSTRALIAN ROAD RULES SUPPLEMENT
Part 1	1 Scope
Part 1	2 Objective
Part 1	3 Referenced Documents
Part 1	4 Definitions
Part 1	5 Signs
Part 1	6 Pavement Markings

1742.2 - 2009 Part 2: Traffic Control Devices for General Use

Part 2	SECTION 1 SCOPE AND GENERAL
Part 2	1.1 Scope
Part 2	1.2 Application
Part 2	1.3 Referenced Documents
Part 2	1.4 Definitions
Part 2	1.5 Specification Of Signs, Markings And Delineators
Part 2	1.6 Responsibility And Authority For Installation
Part 2	1.7 General Principles
Part 2	SECTION 2 TREATMENTS AT NON-EXPRESSWAY INTERSECTIONS
Part 2	2.1 Scope Of Section
Part 2	2.2 Devices Used
Part 2	2.3 Intersection Control And Movement Regulation
Part 2	2.4 Application Of Devices
Part 2	2.5 Control By Give Way And Stop Signs
Part 2	2.6 Roundabout Control
Part 2	2.7 Control By Traffic Signals
Part 2	2.8 Regulation Of Movements At Intersections
Part 2	2.9 Intersection Warning Signs
Part 2	2.10 Pavement Markings At Intersections
Part 2	2.11 Hazard Markers And Other Devices
Part 2	2.12 Typical Arrangement Diagrams For Intersections
Part 2	SECTION 3 TREATMENTS AT EXPRESSWAY INTERCHANGES AND TERMINALS
Part 2	3.1 Scope Of Section
Part 2	3.2 General
Part 2	3.3 Intersection Control At Ramp Terminals
Part 2	3.4 Control Of Movement And Traffic Access At Ramp Terminals
Part 2	3.5 Signs For Traffic On Expressways At And Near Interchanges
Part 2	3.6 Advance Signs For Expressway Terminals
Part 2	3.7 Pavement Markings On Expressways And At Entrance And Exit Ramps
Part 2	3.8 Signs And Pavement Markings At Interchanges And Terminals
Part 2	SECTION 4 TREATMENTS BETWEEN INTERSECTIONS
Part 2	4.1 Scope Of Section
Part 2	4.2 Pavement Markings And Delineation
Part 2	4.3 Pavement Bars
Part 2	4.4 Treatment Of Substandard Horizontal Curves
Part 2	4.5 Treatment Of Substandard Vertical Curves
Part 2	4.6 Treatment Of Approaches To Structures And Obstructions
Part 2	4.7 Changes In Pavement Width
Part 2	4.8 Climbing And Overtaking Lanes, And Turnouts
Part 2	4.9 Steep Grades And Safety Ramps
Part 2	4.10 Water Crossings
Part 2	4.11 Physical Obstructions And Hazards
Part 2	4.12 Variable Use Lane Signs
Part 2	4.13 Miscellaneous Signs
Part 2	4.14 Use Of Flashing Lights With Warning Signs
Part 2	SECTION 5 PAVEMENT MARKINGS
Part 2	5.1 Scope Of Section
Part 2	5.2 General Principles
Part 2	5.3 Longitudinal Lines
Part 2	5.4 Transverse Lines
Part 2	5.5 Other Markings

Part 2	5.6 Raised Pavement Markers
Part 2	5.7 Pavement Markings At Entrance And Exit Ramps
Part 2	APPENDICES
Part 2	A. Guide To The Determination Of 85th Percentile Speed
Part 2	B. Sign Size Selection
Part 2	C. Illumination And Reflectorization Of Signs
Part 2	D. Installation And Location Of Signs
Part 2	E. Use Of Flashing Lights With Warning Signs
Part 2	F. Determination Of Advisory Speeds On Horizontal Curves
Part 2	G. Determination Of Advisory Speeds On Vertical Curves
Part 2	H. Signs For Wildlife Awareness
Part 2	WORD INDEX
Part 2	SIGN INDEX (ALPHABETICAL)
Part 2	SIGN INDEX (NUMERICAL)

1742.3 - 2009, Part 3: Traffic Control Devices For Works on Roads

Part 3	SECTION 1 SCOPE AND GENERAL
Part 3	1.1 Scope
Part 3	1.2 Objective
Part 3	1.3 Referenced Documents
Part 3	1.4 Definitions
Part 3	1.5 Responsibility For Safety At Work Sites
Part 3	1.6 Field Guides
Part 3	SECTION 2 PRINCIPLES FOR THE DEVELOPMENT, INSTALLATION AND OPERATION OF A TRAFFIC GUIDANCE SCHEME
Part 3	2.1 General
Part 3	2.2 Planning
Part 3	2.3 Traffic Management
Part 3	2.4 Device Requirements
Part 3	2.5 Installation And Removal
Part 3	2.6 Operation
Part 3	2.7 Emergency And Unplanned Works
Part 3	SECTION 3 DESCRIPTION AND USE OF SIGNS AND DEVICES
Part 3	3.1 Functions Of Devices
Part 3	3.2 Format And Size Of Signs
Part 3	3.3 Sign Mountings
Part 3	3.4 Signs And Devices For Work Site Approaches And Departures
Part 3	3.5 Signs And Devices For Regulatory Control Of Traffic
Part 3	3.6 Detour Signs
Part 3	3.7 Road Condition Signs
Part 3	3.8 Signs And Devices For Lane And Road Closures
Part 3	3.9 Devices For Delineating And Indicating The Travelled Path
Part 3	3.10 Containment Fences And Road Safety Barrier Systems
Part 3	3.11 Lamps
Part 3	3.12 Vehicle-Mounted Signs And Devices
Part 3	3.13 Blasting Work Signs
Part 3	3.14 Signs And Devices For Pedestrian Control
Part 3	3.15 Signs And Devices For Vehicle Height And Mass Restrictions
Part 3	3.16 Other Signs And Devices Section

Part 3	SECTION 4 PROCEDURES FOR THE INSTALLATION AND OPERATION OF TRAFFIC CONTROL DEVICES
Part 3	4.1 General
Part 3	4.2 Static Work Sites
Part 3	4.3 Short-Term Low Impact Works—Open Road Areas
Part 3	4.4 Short-Term Low Impact Works—Built-Up Areas
Part 3	4.5 Works On Unsealed Roads
Part 3	4.6 Mobile Works
Part 3	4.7 Advance And Termination Warning Signs
Part 3	4.8 Approach Tapers
Part 3	4.9 Creating A Temporary Speed Zone At Works On Roads
Part 3	4.10 Traffic Controllers
Part 3	4.11 Portable Traffic Signals
Part 3	4.12 Pilot Vehicle
Part 3	4.13 Maintaining Traffic Flow
Part 3	4.14 Detours, Side-Tracks And Crossovers
Part 3	4.15 Excavation Works
Part 3	APPENDICES
Part 3	A. Daily Routine Tasks And Record Keeping
Part 3	B. Emergency And Unplanned Works
Part 3	C. Model Instructions For Traffic Controllers
Part 3	D. Protection And Delineation At Excavation Works
Part 3	WORD INDEX
Part 3	SIGN INDEX (ALPHABETICAL)
Part 3	SIGN INDEX (NUMERICAL)

1742.4 - 2008, Part 4: Speed Controls

Part 4	SECTION 1 SCOPE AND GENERAL
Part 4	1.1 Scope
Part 4	1.2 Objective
Part 4	1.3 Referenced Documents
Part 4	1.4 Definitions
Part 4	SECTION 2 SPEED MANAGEMENT
Part 4	2.1 General
Part 4	2.2 Types Of Speed Limit
Part 4	2.3 Speed Zone Establishment
Part 4	SECTION 3 SPEED LIMIT SIGNS AND MARKINGS
Part 4	3.1 Speed Limit Signs
Part 4	3.2 Sign Application
Part 4	3.3 Conflict With Advisory Speed Signs
Part 4	3.4 Pavement Markings
Part 4	3.5 Variable Speed Limits
Part 4	APPENDICES
Part 4	A. Traffic And Environment Factors Determining Speed Limit Values On Traffic Routes
Part 4	B. Illumination And Reflection Of Signs
Part 4	C. Installation And Location Of Signs

1742.5 - 1997, Part 5: Street Name and Community Facility Name Signs

Part 5	SECTION 1 SCOPE AND GENERAL
Part 5	1.1 Scope
Part 5	1.2 Objective
Part 5	1.3 Referenced Documents
Part 5	1.4 Definitions
Part 5	SECTION 2 STREET NAME SIGNS
Part 5	2.1 General
Part 5	2.2 Shape And Size
Part 5	2.3 Sign Layout And Permitted Information
Part 5	2.4 Logos On Signs
Part 5	2.5 Lettering And Numerals
Part 5	2.6 Colour
Part 5	2.7 Reflectorization And Illumination
Part 5	2.8 Mounting Height
Part 5	2.9 Location
Part 5	2.10 Orientation
Part 5	2.11 Additional Street Naming On Arterial Roads In Urban Areas
Part 5	SECTION 3 COMMUNITY FACILITY NAME SIGNS
Part 5	3.1 General
Part 5	3.2 Avoiding Sign Proliferation
Part 5	3.3 Shape, Size And Permitted Information
Part 5	3.4 Mounting Height
Part 5	3.5 Other Requirements
Part 5	3.6 Tourist Facilities
Part 5	3.7 Pedestrian Direction Signs
Part 5	3.8 Signposting To Major Facilities
Part 5	APPENDIX
	A. Guidelines For The Naming Of Roads And Streets

1742.6 - 2004, Part 6: Service and Tourist Signs for Motorist

Part 6	SECTION 1 SCOPE AND GENERAL
Part 6	1.1 Scope
Part 6	1.2 Referenced Documents
Part 6	1.3 Definitions
Part 6	1.4 Specification Of Signs And Devices
Part 6	1.5 Responsibility And Authority For Installation
Part 6	1.6 General Principles
Part 6	1.7 Use Of Advance Signs
Part 6	1.8 Warrants And Guidelines
Part 6	1.9 Numbering Of Signs
Part 6	1.10 Symbols
Part 6	1.11 Colour
Part 6	1.12 Letter Case For Word Legends
Part 6	1.13 Illumination, Reflectorization, Installation And Location Of Signs
Part 6	1.14 Gateway Signs
Part 6	1.15 Pictorial Images
Part 6	SECTION 2 TOURIST INFORMATION FACILITIES

Part 6	2.1 General
Part 6	2.2 Visitor Information Centres—Urban Areas
Part 6	2.3 Visitor Information Centres—Rural Areas
Part 6	2.4 Tourist Information Facilities
Part 6	SECTION 3 SIGNS FOR TOURIST FEATURES, ESTABLISHMENTS AND ATTRACTIONS
Part 6	3.1 Scope Of Section
Part 6	3.2 Sign Types And Application
Part 6	3.3 Symbols And Logos For Tourist Signs
Part 6	3.4 Advance Tourist Signs—Non-Expressway
Part 6	3.5 Position Tourist Signs—Non-Expressway
Part 6	3.6 Reassurance Tourist Signs
Part 6	3.7 Tourist Features
Part 6	3.8 Tourist Establishments
Part 6	3.9 Major Tourist Attractions
Part 6	3.10 Tourist Regions
Part 6	3.11 Signing To Tourist Attractions From Expressway Type Roads
Part 6	SECTION 4 TOURIST WAYS AND DRIVES
Part 6	4.1 General
Part 6	4.2 Themed Tourist Ways
Part 6	4.3 Tourist Drives
Part 6	4.4 Minor Routes And Drives
Part 6	4.5 Combined Direction/Tourist Drive Signs
Part 6	SECTION 5 SIGNING FOR SERVICES
Part 6	5.1 Scope Of Section
Part 6	5.2 Sign Types And Application—Non-Expressway Roads
Part 6	5.3 Roadside Stopping Places—Non-Expressway
Part 6	5.4 Commercial Services—Non-Expressway
Part 6	5.5 Community Facilities—Non-Expressway
Part 6	5.6 Combining Service Signs With Direction And Tourist Signs
Part 6	5.7 Signing To Services From Expressway Type Roads
Part 6	5.8 Signs For Roadside Help Phones
Part 6	APPENDICES
Part 6	A. Symbols For Use On Tourist Signs
Part 6	B. Symbols For Use On Services Signs
Part 6	C. Illumination And Reflectorization Of Signs
Part 6	D. Installation And Location Of Signs
Part 6	E. Design And Use Of Gateway Signs
Part 6	F. Guidelines For The Design Of Logos

1742.7 - 2007, Part 7: Railway Crossings

Part 7	SECTION 1 SCOPE AND GENERAL
Part 7	1.1 Scope
Part 7	1.2 Application
Part 7	1.3 Referenced Documents
Part 7	1.4 Definitions
Part 7	1.5 Co-Operation Between Authorities
Part 7	1.6 Restricted Access Road Vehicles
Part 7	SECTION 2 SIGNS, DEVICES AND ASSEMBLIES—DESCRIPTION AND USE

Part 7	2.1 General
Part 7	2.2 Passive Control Devices
Part 7	2.3 Active Control Devices
Part 7	2.4 Devices Used At Either Active Or Passive Control Crossings
Part 7	SECTION 3 PAVEMENT MARKINGS
Part 7	3.1 General
Part 7	3.2 Railway Crossing Pavement Marking (Rail X)
Part 7	3.3 Stop Line
Part 7	3.4 Give-Way Line
Part 7	3.5 No-Overtaking Lines
Part 7	3.6 Box Markings
Part 7	SECTION 4 APPLICATION OF SIGNS AND MARKINGS TO RAILWAY CROSSINGS
Part 7	4.1 General
Part 7	4.2 Passive Control Treatments
Part 7	4.3 Active Control Treatments
Part 7	4.4 Modified Treatments
Part 7	4.5 Temporary And Emergency Control
Part 7	4.6 Closure Of A Railway Line
Part 7	SECTION 5 AVOIDANCE OF TRAFFIC QUEUING ON CROSSINGS
Part 7	5.1 General
Part 7	5.2 Eliminating The Problem
Part 7	5.3 Treatment With Warning Devices And Refuges
Part 7	5.4 Short Stacking
Part 7	SECTION 6 PEDESTRIAN AND BICYCLE TREATMENTS AT RAILWAY CROSSINGS
Part 7	6.1 General
Part 7	6.2 Hierarchy Of Control
Part 7	6.3 Crossing Elements—Design And Performance Requirements
Part 7	6.4 Pedestrian Holding Markings
Part 7	6.5 Signs And Signals
Part 7	APPENDICES
Part 7	A. Illumination And Reflectorization Of Signs
Part 7	B. Installation And Location Of Signs
Part 7	C. Selection Of Appropriate Sign Size
Part 7	D. Sight Distance Provision At Passive Control Crossings
Part 7	E. Active Advance Warning Assembly— Guides For Use, Installation And Operation
Part 7	F. Pedestrian Facilities—Typical Examples

1742.9 2000, Part 9: Bicycle Facilities

Part 9	SECTION 1 SCOPE AND GENERAL
Part 9	1.1 Scope
Part 9	1.2 Objective
Part 9	1.3 Referenced Documents
Part 9	1.4 Definitions
Part 9	1.5 Signs—General Requirements
Part 9	1.6 Colour
Part 9	SECTION 2 BICYCLE PROVISIONS ON ARTERIAL AND LOCAL ROADS

Part 9	2.1 General
Part 9	2.2 Signs
Part 9	2.3 Pavement Markings
Part 9	2.4 Bicycle Provisions Mid-Block
Part 9	2.5 Bicycle Lane Treatments At Intersections
Part 9	SECTION 3 BICYCLE PATH AND FOOTPATH PROVISIONS
Part 9	3.1 General
Part 9	3.2 Signs
Part 9	3.3 Pavement Markings
Part 9	3.4 Footpaths And Shared Paths
Part 9	3.5 Separated Paths
Part 9	3.6 Exclusive Bicycle Paths
Part 9	3.7 Road Crossings Mid-Block
Part 9	3.8 Road Crossings At Intersections
Part 9	SECTION 4 BICYCLE PROVISIONS ON FREEWAYS
Part 9	4.1 General
Part 9	4.2 Signs
Part 9	4.3 Application Of Signs To Freeway Interchanges
Part 9	SECTION 5 NAVIGATIONAL AIDS FOR CYCLISTS
Part 9	5.1 General
Part 9	5.2 Bicycle Symbol
Part 9	5.3 Colour And Reflectorization
Part 9	5.4 Direction Signs
Part 9	5.5 Route Markers
Part 9	5.6 Location Of Signs
Part 9	APPENDICES
Part 9	A. Illumination And Reflectorization Of Signs
Part 9	B. Installation And Location Of Signs
Part 9	C. Selection Of Appropriate Sign Size

1742.10 - 1990, Part 10: Pedestrian Control and Protection

Part 10	1 Scope
Part 10	2 Referenced Documents
Part 10	3 Definitions
Part 10	4 Classification And Type Of Pedestrian Facilities
Part 10	5 Signs
Part 10	6 Time Separated Facilities
Part 10	7 Physical Pedestrian Aids
Part 10	8 Physically Separated Facilities
Part 10	9 Integrated Facilities
Part 10	10 Application Of Signs
Part 10	11 Pavement Markings
Part 10	12 Provisions For Disabled Pedestrians
Part 10	13 Pedestrian Direction Signs
Part 10	14 Lighting
Part 10	APPENDICES
Part 10	A. Illumination And Reflectorization Of Signs
Part 10	B. Installation And Location Of Signs
Part 10	C. Model Instructions For Adult Supervisors At Crossings
Part 10	D. Model Instructions For Child Monitors At Crossings

Part 10	E. Pedestrian Actuated Traffic Signals (Mid Block) \F Pedestrian Treatments At Railway Level Crossings
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1742.11 - 1999, Part 11: Parking Controls

Part 11	SECTION 1 SCOPE AND GENERAL
Part 11	1.1 Scope
Part 11	1.2 Referenced Documents
Part 11	1.3 Definitions
Part 11	1.4 Illumination And Reflectorization Of Signs
Part 11	1.5 Installation Of Signs
Part 11	SECTION 2 PARKING CONTROL, GENERAL
Part 11	2.1 Regulatory Control
Part 11	2.2 Conformity With Regulations
Part 11	SECTION 3 LINEAR PARKING CONTROL SIGNS
Part 11	3.1 General Requirements
Part 11	3.2 Basic Design, Colour And Sign Numbering
Part 11	3.3 Panel Components
Part 11	3.4 Sign Layout
Part 11	3.5 Panel And Sign Sizes
Part 11	SECTION 4 CLEARWAYS
Part 11	4.1 General
Part 11	4.2 Guidelines
Part 11	4.3 Signposting Of Clearways
Part 11	SECTION 5 AREA PARKING CONTROL SIGNS
Part 11	5.1 General
Part 11	5.2 Sign Size And Layout
Part 11	5.3 Sign Application
Part 11	SECTION 6 PARKING DIRECTION SIGNS
Part 11	6.1 General
Part 11	6.2 Information
Part 11	6.3 Sign Design
Part 11	SECTION 7 PAVEMENT MARKINGS
Part 11	7.1 Delineation Of Parking Spaces
Part 11	7.2 Edge Marking Of No-Stopping And Special Purpose Zones
Part 11	7.3 Other Pavement Markings
Part 11	APPENDICES
Part 11	A. Illumination And Reflectorization Of Signs
Part 11	B. Installation Of Signs
Part 11	C. Design Of Linear Parking Control Panels And Signs
Part 11	D. Examples—Design Of Linear Parking Control Signs
Part 11	E. Guidelines For The Use And Placement Of Area Control Parking Signs

1742.12 - 2000, Part 12: Bus, Transit And Truck Lane

Part 12	1 Scope
Part 12	2 Objective
Part 12	3 Referenced Documents
Part 12	4 Definitions
Part 12	5 Signs
Part 12	6 Pavement Markings
Part 12	7 Application Of Signs And Markings
Part 12	APPENDICES

Part 12	A. Illumination And Reflectorization Of Signs
Part 12	B. Installation And Location Of Signs
Part 12	C. Selection Of Appropriate Sign Size
Part 12	D. Alternative Transit Lane Signs

1742.13 - 1991, Part 13: Local Area Traffic Management

Part 13	SECTION 1 SCOPE AND GENERAL
Part 13	1.1 Scope
Part 13	1.2 Referenced Documents
Part 13	1.3 Definitions
Part 13	SECTION 2 LOCAL AREA TRAFFIC MANAGEMENT (LATM) DEVICES
Part 13	2.1 Scope Of Section
Part 13	2.2 Give Way Signs And Stop Signs
Part 13	2.3 Entry Treatments
Part 13	2.4 Vertical Displacement Devices
Part 13	2.5 Horizontal Displacement Devices
Part 13	2.6 Modified Intersections
Part 13	2.7 Shared Zones
Part 13	2.8 Road Closures
Part 13	2.9 Mid-Block Islands
Part 13	2.10 Examples And Guidelines For LATM Devices
Part 13	2.11 Application Of LATM Devices
Part 13	SECTION 3 APPLICATION OF SIGNS AND MARKINGS TO DEVICES
Part 13	3.1 Scope Of Section
Part 13	3.2 General
Part 13	3.3 Speed Limits
Part 13	3.4 One-Way Streets
Part 13	3.5 Typical Arrangements For Local Area Traffic Management Devices
Part 13	SECTION 4 SIGNS AND PAVEMENT MARKINGS
Part 13	4.1 Scope Of Section
Part 13	4.2 Signs
Part 13	4.3 Pavement Markings
Part 13	APPENDICES
Part 13	A. Illumination And Reflectorization Of Signs
Part 13	B. Installation And Location Of Signs
Part 13	C. Design Principles For Use Of LATM Devices
Part 13	D. Guidelines For The Design, Location And Siting Of Road Humps
Part 13	E. Sight Distance Requirements For The Installation Of Stop Signs
Part 13	F. Special Give Way And Stop Sign Control Treatments

1742.14 - 1996, Part 14: Traffic Signals

Part 14	SECTION 1 SCOPE AND GENERAL
Part 14	1.1 Scope
Part 14	1.2 Referenced Documents
Part 14	1.3 Definitions
Part 14	2 DESCRIPTION OF SIGNAL DISPLAYS
Part 14	2.1 General
Part 14	2.2 Steady Displays For Vehicles
Part 14	2.3 Flashing Displays For Vehicles

Part 14	2.4 Pedestrian Displays
Part 14	2.5 Bicycle Displays
Part 14	2.6 Public Transport And Emergency Vehicle Displays
Part 14	SECTION 3 ARRANGEMENT OF SIGNAL ASPECTS
Part 14	3.1 General Principles
Part 14	3.2 Signal Face Layouts At Intersections
Part 14	3.3 Signal Face Layouts For Public Transport And Emergency Vehicle Control
Part 14	3.4 Signal Face Layouts For Overhead Lane Control
Part 14	3.5 Sign Alternatives For Non-Changing Aspects
Part 14	3.6 Signal Face Layouts For Pedestrian And Bicycle Control
Part 14	3.7 Two-Aspect Signal Faces
Part 14	3.8 Sequence Of Signal Displays
Part 14	SECTION 4 LOCATION OF SIGNAL FACES
Part 14	4.1 General
Part 14	4.2 Signal Face Locations At Intersections
Part 14	4.3 Signal Face Locations At Mid-Block Pedestrian Crossings
Part 14	4.4 Location Of Overhead Lane Control Signals
Part 14	SECTION 5 DESIGN AND INSTALLATION OF SIGNAL EQUIPMENT
Part 14	5.1 Design And Size Of Aspect
Part 14	5.2 Lantern Mounting Height
Part 14	5.3 Target Boards
Part 14	5.4 Aiming And Shielding Of Lanterns
Part 14	5.5 Visors And Louvres
Part 14	5.6 Pedestrian Push Buttons
Part 14	SECTION 6 SIGNS, PAVEMENT MARKINGS AND GEOMETRIC REQUIREMENTS
Part 14	6.1 Signs
Part 14	6.2 Pavement Markings
Part 14	6.3 Diamond Turns
Part 14	6.4 Sight Distance To Signals
Part 14	SECTION 7 SPECIAL SITUATIONS
Part 14	7.1 Emergency Service Facilities
Part 14	7.2 Signals Adjacent To A Railway Level Crossing
Part 14	7.3 Single Lane Operation
Part 14	7.4 Advance Warning Traffic Signal Sign Assemblies
Part 14	7.5 Ramp Metering Signals
Part 14	7.6 Roundabout Metering Signals
Part 14	7.7 Left Turn On Red
Part 14	APPENDIX
	A. Longitudinal Location Of Advance Warning Traffic Signal Sign Assemblies

1742.15 - 2007, Part 15: Direction Signs, Information Signs and Route Numbering

Part 15	SECTION 1 SCOPE AND GENERAL
Part 15	1.1 Scope
Part 15	1.2 Referenced Documents
Part 15	1.3 Definitions
Part 15	1.4 Responsibility And Authority For Installation
Part 15	1.5 Principles Of Good Sign Practice
Part 15	1.6 Sign Design Guidelines
Part 15	1.7 Installation And Location
Part 15	1.8 Materials And Manufacturing Specifications

Part 15	SECTION 2 DIRECTION SIGNS AT AND NEAR INTERSECTIONS
Part 15	2.1 General
Part 15	2.2 Advance Direction Signs
Part 15	2.3 Driving Instruction Direction Signs
Part 15	2.4 Intersection Direction Signs And Fingerboards
Part 15	2.5 Reassurance Direction Signs
Part 15	2.6 Typical Arrangement Diagrams
Part 15	SECTION 3 EXPRESSWAY DIRECTION SIGNS
Part 15	3.1 General
Part 15	3.2 Provision Of Signs
Part 15	3.3 Legend Selection
Part 15	3.4 Advance Exit And Exit Direction Signs
Part 15	3.5 Supplementary Advance Signs
Part 15	3.6 Reassurance And Interchange Sequence Signs
Part 15	3.7 Direction Signs At Ramp Terminals
Part 15	3.8 Signs On Approach To And Along Tolled Expressways
Part 15	3.9 Typical Direction Sign Treatment
Part 15	SECTION 4 ROUTE NUMBERING
Part 15	4.1 General Principles
Part 15	4.2 Types Of Route Numbering
Part 15	4.3 The Alphanumeric System—Description And Use
Part 15	4.4 Display Of Numbers
Part 15	SECTION 5 GENERAL INFORMATION SIGNS
Part 15	5.1 Geographical Feature Signs (G6)
Part 15	5.2 Kilometre Posts
Part 15	5.3 Non-Standard Information Signs
Part 15	APPENDICES
Part 15	A. Determination Of Letter Sizes For Signs
Part 15	B. Guidelines For The Layout Of Legend Elements On Direction Signs
Part 15	C. Illumination And Reflectorization Of Signs
Part 15	D. Installation And Location Of Signs
Part 15	INDEX
Part 15	SECTION 1 SCOPE AND GENERAL
Part 15	1.1 Scope
Part 15	1.2 Referenced Documents
Part 15	1.3 Definitions
Part 15	1.4 Responsibility And Authority For Installation
Part 15	1.5 Principles Of Good Sign Practice
Part 15	1.6 Sign Design Guidelines
Part 15	1.7 Installation And Location
Part 15	1.8 Materials And Manufacturing Specifications
Part 15	SECTION 2 DIRECTION SIGNS AT AND NEAR INTERSECTIONS
Part 15	2.1 General
Part 15	2.2 Advance Direction Signs
Part 15	2.3 Driving Instruction Direction Signs
Part 15	2.4 Intersection Direction Signs And Fingerboards
Part 15	2.5 Reassurance Direction Signs
Part 15	2.6 Typical Arrangement Diagrams
Part 15	SECTION 3 EXPRESSWAY DIRECTION SIGNS
Part 15	3.1 General
Part 15	3.2 Provision Of Signs
Part 15	3.3 Legend Selection
Part 15	3.4 Advance Exit And Exit Direction Signs

Part 15	3.5 Supplementary Advance Signs
Part 15	3.6 Reassurance And Interchange Sequence Signs
Part 15	3.7 Direction Signs At Ramp Terminals
Part 15	3.8 Signs On Approach To And Along Tolled Expressways
Part 15	3.9 Typical Direction Sign Treatment
Part 15	SECTION 4 ROUTE NUMBERING
Part 15	4.1 General Principles
Part 15	4.2 Types Of Route Numbering
Part 15	4.3 The Alphanumeric System—Description And Use
Part 15	4.4 Display Of Numbers
Part 15	SECTION 5 GENERAL INFORMATION SIGNS
Part 15	5.1 Geographical Feature Signs (G6)
Part 15	5.2 Kilometre Posts
Part 15	5.3 Non-Standard Information Signs
Part 15	APPENDICES
Part 15	A. Determination Of Letter Sizes For Signs
Part 15	B. Guidelines For The Layout Of Legend Elements On Direction Signs
Part 15	C. Illumination And Reflectorization Of Signs
Part 15	D. Installation And Location Of Signs Index

1743 - 2001: Road Signs - Specifications

Part 1	1 Scope
Part 1	2 Objective
Part 1	3 Referenced Documents
Part 1	4 Numbering Systems
Part 1	5 Graphic Design
Part 1	6 Legend
Part 1	7 Signboard Size
Part 1	8 Borders, Edge Strips And Corners
Part 1	9 Manufacturing Tolerances
Part 1	10 Colours
Part 1	11 Signboard Construction
Part 1	12 Application Of Sign Faces
Part 1	APPENDICES
Part 1	A. Guidance On The Design And Layout Of Made-To-Measure Guide Signs
Part 1	B. Design And Layout Of Symbolic Service Signs Sign Specifications

2890.1 – 2004, Car Parking Facilities

Part 1	SECTION 1 SCOPE AND GENERAL
Part 1	1.1 Scope
Part 1	1.2 Referenced Documents
Part 1	1.3 Definitions
Part 1	1.4 Classification Of Off-Street Car Parking Facilities
Part 1	SECTION 2 DESIGN OF PARKING MODULES, CIRCULATION ROADWAYS AND RAMPS
Part 1	2.1 General
Part 1	2.2 General Description
Part 1	2.3 Preliminary Design Considerations
Part 1	2.4 Design Of Parking Modules

Part 1	2.5 Design Of Circulation Roadways And Ramps
Part 1	2.6 Design Of Domestic Driveways
Part 1	SECTION 3 ACCESS FACILITIES TO OFF-STREET PARKING AREAS AND QUEUING AREAS
Part 1	3.1 General
Part 1	3.2 Access Driveways—Width And Location
Part 1	3.3 Gradients Of Access Driveways
Part 1	3.4 Queuing Areas
Part 1	3.5 Access To Mechanical Parking Installations
Part 1	SECTION 4 OTHER CONSIDERATIONS
Part 1	4.1 Pedestrian Service
Part 1	4.2 Bicycle Parking
Part 1	4.3 Signposting
Part 1	4.4 Pavement Markings
Part 1	4.5 Parcel Pick-Up
Part 1	4.6 Shopping Trolley Requirements
Part 1	4.7 Lighting
Part 1	4.8 Landscaping
Part 1	4.9 Humps
Part 1	4.10 Special Loading/Unloading Parking Spaces
Part 1	SECTION 5 ADDITIONAL REQUIREMENTS FOR CAR PARKING STRUCTURES
Part 1	5.1 General
Part 1	5.2 Column Location And Spacing
Part 1	5.3 Headroom
Part 1	5.4 Design Of Enclosed Garages
Part 1	APPENDICES
Part 1	A. Design Vehicle Characteristics And Dimensions
Part 1	B. Base Dimensions And Design Standards
Part 1	C. Ground Clearance Templates
Part 1	D. Capacity Provision At Entry And Exits At Large Car Parks

2890.2 – 2002, Commercial Vehicle Facilities

Part 2	SECTION 1 SCOPE AND GENERAL
Part 2	1.1 Scope
Part 2	1.2 Objective
Part 2	1.3 Referenced Documents
Part 2	1.4 Definitions
Part 2	SECTION 2 DESIGN VEHICLES
Part 2	2.1 General
Part 2	2.2 Description And Dimensions
Part 2	SECTION 3 ACCESS DRIVEWAYS AND CIRCULATION ROADWAYS
Part 2	3.1 General
Part 2	3.2 Design Principles
Part 2	3.3 Circulation Roadways
Part 2	3.4 Access Driveways
Part 2	SECTION 4 SERVICE AREAS
Part 2	4.1 General
Part 2	4.2 Dimensions Of Service Bays
Part 2	4.3 Service Area Layout
Part 2	SECTION 5 USE OF DESIGN VEHICLE TURNING PATH TEMPLATES
Part 2	5.1 General
Part 2	5.2 Turning Path Templates

Part 2	5.3 Reverse Entry Templates
Part 2	5.4 Manoeuvring Clearances
Part 2	APPENDIX
	A. Suggested Method Of Checking Vertical Alignment For Adequacy Of Vehicle Ground Clearance

2890.3 – 1993, Bicycle Parking Facilities

Part 3	SECTION 1 SCOPE AND GENERAL
Part 3	1.1 Scope
Part 3	1.2 Referenced Documents
Part 3	1.3 Definitions
Part 3	1.4 Classification
Part 3	SECTION 2 DESIGN OF PARKING FACILITIES
Part 3	2.1 General
Part 3	2.2 Bicycle Storage Area Requirements
Part 3	2.3 Floor Slopes
Part 3	2.4 Protection From Vehicular Encroachment
Part 3	2.5 Location And ClearanceS
Part 3	2.6 Signing
Part 3	2.7 Lighting
Part 3	2.8 Weather Protection
Part 3	2.9 Maintenance
Part 3	SECTION 3 SECURITY, ACCESS AND EASE OF USE
Part 3	3.1 Security
Part 3	3.2 Access
Part 3	3.3 Ease Of Use
Part 3	APPENDICES
Part 3	A. Dimensions Of Bicycle
Part 3	B. Typical Bicycle Parking Facilities
Part 3	C. Typical Location Of Bicycle Parking Facilities On A Footpath

2890.5 – 1993, On-Street Parking

Part 5	SECTION 1 SCOPE AND INTRODUCTION
Part 5	1.1 Scope
Part 5	1.2 Referenced Documents
Part 5	1.3 Definitions
Part 5	SECTION 2 PARKING ARRANGEMENTS AND BAY DIMENSIONS
Part 5	2.1 General
Part 5	2.2 Parallel Parking
Part 5	2.3 Angle Parking
Part 5	2.4 Roadway Width Limitations For Parallel And Angle Parking
Part 5	2.5 Centre-Of-Road Parking
Part 5	SECTION 3 ENVIRONMENTAL FACTORS
Part 5	3.1 General
Part 5	3.2 End Clearances
Part 5	3.3 Provision For Pedestrians
Part 5	3.4 Protection Of Through Traffic
Part 5	3.5 Unsafe Parking Locations
Part 5	3.6 Lighting
Part 5	SECTION 4 PROVISION FOR SPECIAL GROUPS
Part 5	4.1 General
Part 5	4.2 Trucks

Part 5	4.3 Taxi Stands And Feeder Stands
Part 5	4.4 Motorcycles
Part 5	4.5 Parking For People With Disabilities
Part 5	SECTION 5 PARKING CONTROL MEASURES
Part 5	5.1 General Principles For Allocation Of Parking Space
Part 5	5.2 Parking Control Signs
Part 5	5.3 Clearways
Part 5	5.4 Time Limits
Part 5	5.5 Fee Payment Parking
Part 5	5.6 Area Parking Control
Part 5	5.7 Resident Permit Parking
Part 5	5.8 Other Parking Controls

2890.6 – 2009, Off-Street Parking for People with Disabilities

Part 6	SECTION 1 SCOPE AND GENERAL
Part 6	1.1 Scope
Part 6	1.2 Referenced Documents
Part 6	1.3 Definitions
Part 6	SECTION 2 PARKING SPACE LAYOUT AND ACCESS
Part 6	2.1 General
Part 6	2.2 Parking Spaces – Dimensions
Part 6	2.3 Pavement Slope and Surface
Part 6	2.4 Headroom
Part 6	2.5 Kerb Ramps
Part 6	SECTION 3 SPACE IDENTIFICATION AND DELINEATION
Part 6	3.1 Space Identification
Part 6	3.2 Space Delineation
Part 6	APPENDICES
Part 6	A. Commentary On Provision Of Parking For People With Disabilities
Part 6	B. Number Of Require Accessible Car Spaces – New Zealand Only