

RTA QA SPECIFICATION G10

CONTROL OF TRAFFIC (*PROJECT SPECIFIC VERSION FOR RMCC*)

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REVISION REGISTER

Ed/Rev Number	Clause Number	Description of Revision	Authorised By	Date
Ed 3/Rev 0	1.1	Complete revision, most previous requirements either replaced or incorporated into the Traffic Control at Work Sites Manual. Work to comply with the RTA Traffic Control at Work Sites Manual.	GM, RNIC	03.12.98
Ed 3/Rev1	1.3 4.1	References to AS 1742.3 deleted and replaced with: - reference to RTA Traffic Control at Work Sites Manual; - definition of Regulatory Traffic Control Device.	GM, RNIC	26.02.99
Ed 3/Rev 2	1.6.2, 1.6.3 2.7, 3.4 3.3 3.1 Annexure G10/3	Changes to safety clothing. New heading, clarified use of the Works. New clause for removal of pavement markings. Work adjacent to traffic added. Schedule of Identified Records added.	GM, RNIC	19.04.00
Ed 3/Rev 3	1.6.1	Use of vests at night clarified.	GM, RNIC	29.03.01
Ed 3/Rev 4	1.2 1.2, 3.1 1.3 1.7 3.3 3.4 4.1 Annexure G10/1	Currency of reference documents remains. Placing temporary pavement markings on the final wearing course is conditional Six week Period of notice for Regulatory Traffic Control Devices deleted Requirement for temporary speed zoning during the work to be indicated. Treatment of redundant markings outside the limits of work added. Minor editorial change. Last sentence. Six weeks changed to two weeks. Heading changed. Sections B and C added.	GM, RNIC	30.09.02

Ed/Rev Number	Clause Number	Description of Revision	Authorised By	Date
Ed 4/Rev 0	Various	Formatting changed "Contractor" replaced by "you" "Superintendent" replaced by "Principal"	GM, RNIC	12.11.03
	1.1	References to AS 1742.3 changed		
	1.2	Document structure explained		
	1.3	TMP must be consistent with PQP and may be submitted in stages. After hours contacts are required.		
	1.3, 1.7, 3.1, Annx G10/A, Old 3.2, 3.3 & 4	Some details deleted as they are now in the TCWS Manual		
	1.4	New subclause for TCP details		
	1.6	RTA will supply the vest. Vests to comply with AS 4602		
	2.7	References to Completion changed to suit RTA C2		
	3.1	Hold Point replaced by Hold Point in Clause 1.3		
	Annexure G10/B	Transferred from Clause 5, SIMC pay items added.		
Ed 4/Rev 1	1.3, 3.2	Changes for SIMC's	GM, RNIC (P Wellings)	06.04.04
	1.6	Vests to be supplied by Contractor		
	2.6, B2.3	Minor editorial changes		
Ed 4/Rev 2	Foreword	New clause after the Table of Contents	GM, RNIC	24.01.05
	1.4, G10/M	Changes to referenced documents		
Ed 4/Rev 3	1.6	Requirement for RTA Registration Category G	GM, IC	09.07.07
Ed 4/Rev 3m (This version is identical Ed4 / Rev 4m issued to councils)	Annexure B	<u>PROJECT SPECIFIC VERSION</u> for use with RMCCs - Added optional Pay Items G10P2 to G10P16.	John Statton (GM. IM)	12.08.08
	Various	Replace references to SIMC with RMCC.		

NOTICE

Use of RTA Traffic Control at Work Sites Manual

RTA G10 requires contractors to comply with the recently revised Traffic Control at Work Sites Manual. The 2nd and 3rd editions of the Manual, in addition to applying to RTA direct control works, were written to apply to contract works. It contains both mandatory requirements, which are applicable to contractors, and guidance which contractors should consider when planning and carrying out traffic control. Some details and terms in the Manual reflect RTA usage, and as such contractors will need to amend them to suit their own organisation.

The Traffic Control at Work Sites Manual contains information which can assist contractors to develop and implement their Traffic Management Plans and, where appropriate, Traffic Movement Plans and to assist Principal's staff in considering, approving and monitoring the Plans.



QA SPECIFICATION G10

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VERSION FOR: RMCC DATE: October 2008

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FOREWORD

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REVISIONS TO EDITION 4

This document is based on RTA Specification G10 Edition 4 Revision 0—November 2003.

All revisions to RTA G10 Ed 4/Rev 0 (other than minor editorial and project specific changes) have been indicated by a vertical line in the margin as shown here.

PROJECT SPECIFIC CHANGES

Any project specific changes have been indicated in the following manner:

- (a) Text which is additional to the base document and which is included in the Specification is shown in bold italics e.g. ***Additional Text***.
- (b) Text which has been deleted from the base document and which is not included in the Specification is shown struck out e.g. ~~Deleted Text~~.

RTA QA SPECIFICATION G10

CONTROL OF TRAFFIC

1 GENERAL

1.1 EXTENT OF WORK

The work to be executed under this Specification consists of all work necessary to provide for the safe movement of traffic and the protection of persons and property through and/or around the work site. You are authorised, for the purposes of the Contract, under the Roads (General) Regulation, S6 to direct traffic and to appoint traffic controllers to provide for the safe movement of traffic and the protection of persons and property through and/or around the work site.

The extent of work includes the design, construction, maintenance and removal of temporary roadways and detours, the provision of traffic controllers, signposting, roadmarkings, raised pavement markers, lights, barriers and any other items required. All temporary traffic arrangements required by works under this Contract are included under this Specification except where specified otherwise.

Conform with this Specification, the Drawings and the RTA Traffic Control at Work Sites Manual (which is based on AS 1742.3) when planning and carrying out traffic control.

Wherever the Traffic Control at Work Sites Manual nominates a person, who is your employee, subcontractor or agent, you must ensure the specified duties and responsibilities of such persons are carried out.

Wherever the Traffic Control at Work Sites Manual provides options, advice or recommendations, you must consider such when planning and implementing traffic control and adopt them, as necessary, for the safe movement of traffic and protection of persons and property.

1.2 STRUCTURE OF THE SPECIFICATION

This Specification includes a series of annexures that detail additional requirements.

1.2.1 Project Details

Details of work are shown in Annexure G10/A.

1.2.2 Measurement and Payment

The method of measurement and payment must comply with Annexure G10/B.

1.2.3 Schedules of HOLD POINTS and Identified Records

Annexure G10/C lists the **HOLD POINTS** that must be observed. Refer to RTA G2 or RTA **M2 €7**, as applicable, for the definition of **HOLD POINT**.

The Quality Records for the Contract and referenced documents listed in Annexure G10/C must be created, when applicable, and located as specified in Annexure G10/C.

The records listed in Annexure G10/C are Identified Records for the purposes of Annexure Q/E.

1.2.4 Referenced Documents

Unless otherwise specified the applicable issue of a reference document, except for RTA specifications, shall be the issue current at the date one week before the closing date for tenders or, where no issue is current at that date, the most recent issue.

Standards, specifications and test methods are referred to in abbreviated form (eg AS 1234). For convenience, the full titles are given in Annexure G10/M.

1.3 TRAFFIC MANAGEMENT PLAN

Construct the Works with the least possible obstruction to traffic.

Obtain all necessary approvals from Councils and other authorities for temporary traffic arrangements except where specified otherwise.

Four weeks before undertaking work which would involve any obstruction whatsoever to traffic (or 10 Business Days before commencement of the Contract Term for a **Road Maintenance Council Contract** ~~Single Invitation Maintenance Contract~~), submit, for the Principal's approval, a Traffic Management Plan. The period of notice may be reduced, with the approval of the Principal, for traffic management not requiring pavement or drainage works.

The Traffic Management Plan must be consistent with the PROJECT QUALITY PLAN. Appropriate cross-referencing to your quality system (as appropriate) and PROJECT QUALITY PLAN must be included. Revise the Traffic Management Plan and implement more appropriate procedures if the original traffic management practices prove not to be fully effective.

The Traffic Management Plan must include:-

- (a) design drawings for any temporary roadways and detours in accordance with Clause 2.2 showing pavement, wearing surface and drainage details;
- (b) details of arrangements for construction under traffic;
- (c) Traffic Control Plan/s;
- (d) Vehicle Movement Plan/s (refer to the RTA Traffic Control at Work Sites Manual); and
- (e) special consideration to the safety of pedestrians, cyclists and workers. Refer to Section 9.3 of the RTA Traffic Control at Work Sites Manual;
- (f) the names, addresses and means of communicating with personnel nominated for contact outside normal working hours to arrange for adjustments or maintenance of traffic control devices and temporary roadways with confirmation this has been supplied to local police,

The Traffic Management Plan and associated documents, including Traffic Control Plans, may be submitted in stages in accordance with the requirements of RTA Q for the staged submission of the PROJECT QUALITY PLAN.

HOLD POINT

Process Held:	Work which would involve any obstruction whatsoever to traffic.
Submission Details:	Traffic Management Plan including all details in accordance with Clause 1.3.
Release of Hold Point:	The Principal, with guidance from the Traffic Control at Work Sites Manual, shall consider for approval the Traffic Management Plan and resources proposed prior to the release of the Hold Point.

1.4 TRAFFIC CONTROL PLANS

Where the standard Traffic Control Plans in the RTA Traffic Control at Work Sites Manual are considered appropriate, follow the procedures for management of traffic control set out in that Manual. Keep records of the selection, approval and implementation of the Traffic Control Plan.

Where Traffic Control Plans in the RTA Traffic Control at Work Sites Manual or your Traffic Management Plan are not considered appropriate, then the Hold Point in Clause 1.3 applies and submit, for approval, a Traffic Control Plan in accordance with the RTA Traffic Control at Work Sites Manual. The period of notice may be reduced, with the approval of the Principal. You must apply for approval in writing at least two weeks before a Regulatory Traffic Control Device proposed.

The Traffic Control Plan must be accompanied by the following details, where appropriate:

- (a) A proposal to erect a Regulatory Traffic Control Device showing locations and times of operation;
- (b) appropriate temporary speed zoning signs;
- (c) boom gates;
- (d) portable traffic signals (complying with the RTA Traffic Control at Work Sites Manual);
- (e) temporary fixed traffic signals

Where and when directed by the Principal, supply, erect these signs, cover the Temporary Speed Zoning signs and keep them covered when the speed zone is not in use and remove the signs when the speed zone is no longer required as part of the provision for traffic.

Temporary fixed traffic signals must be installed in accordance with the RTA's Traffic Signals Equipment Specification No SI/TCS/8 and associated Drawings.

The temporary speed zoning, if available, on request, for implementation during the Works is indicated in Annexure G10/A.

1.5 SIDE ROADS AND PROPERTY ACCESSES

At all times, provide safe and convenient passage for vehicles, pedestrians and stock to and from side roads and property accesses connecting to the roadway. Work which affects the use of side roads and existing accesses must not be undertaken without providing adequate alternative provisions to the prior satisfaction of the Principal.

1.6 REGISTRATION AND TRAFFIC CONTROLLERS

The organisation undertaking the traffic control must be registered under the RTA's Registration Scheme Category G Traffic Control.

You must advise the Principal of the names of proposed traffic controllers and their RTA Traffic Controller's Certificate Numbers and expiry dates.

You must supply and issue a yellow vest complying with AS 4602 to the nominated traffic controllers and:

- (a) for **Road Maintenance Council Contracts** ~~Single Invitation Maintenance Contracts~~: the vest must bear the logo of the Contractor and the words "Authorised Traffic Controller"; and
- (b) for all other contracts: the vest must bear the RTA logo (supplied by the Principal) and the words "Authorised Traffic Controller". You must return the logo to the Principal at the completion of the work.

The vest must only be worn when controlling traffic. Traffic controllers must carry their current RTA or RTA endorsed Traffic Controller's Certificate and wear the vest as an outer garment at all times when controlling traffic.

1.7 APPROVED CLOTHING FOR WORK PERSONNEL

All personnel working in close proximity to traffic must wear:

- (a) high visibility fluorescent safety vests; or
- (b) in night conditions, overalls, except when wearing;
- (c) wet weather clothing,

all complying with AS 4602.

Potentially flammable clothing must not be worn close to work, such as welding and heavy grinding, likely to generate flame or hot splatter or molten metal. In such cases, the Traffic Management Plan must describe methods to protect persons and traffic.

1.8 PLANT AND EQUIPMENT

During the day, plant and equipment working in a position adjacent to traffic and having a projection beyond the normal width of the item, for example, a grader blade, must have a fluorescent red flag attached to the outer end of the projection. During poor light conditions or at night, an additional traffic controller with an illuminated red wand must direct traffic around such plant and equipment.

At night, where traffic is permitted to use the whole or portion of the existing road, all plant items and similar obstructions must be removed from the normal path of vehicles, to provide a lateral clearance of at least 6 m where practicable, with a minimum clearance of 1.2 m.

Plant and equipment, within 6 m of the normal path of vehicles, must be lit by not less than two yellow steady lamps suspended vertically from the point of the obstruction nearest to a traffic lane, and one yellow steady lamp at each end of the obstruction on the side furthest away from the traffic lane.

2 TEMPORARY ROADWAYS AND DETOURS

2.1 DESIGN STANDARDS

The standard of alignment and grading adopted must be in accordance with specific provisions of this Specification and must otherwise be in accordance with the RTA's publication "Road Design Guide".

Design travel speeds must be as shown in Annexure G10/A. Where a temporary roadway other than those shown in Annexure G10/A is proposed by you, its minimum design travel speed must be the lesser of 100 kilometres per hour or the speed limit of the existing road.

Intersections must be designed in accordance with the AUSTROADS publication "Guide to Traffic Engineering Practice - Intersections at Grade".

The required widths of traffic lanes, shoulders and shoulder sealing must be as shown in Annexure G10/A. The minimum formation width must provide for the required minimum lane and shoulder widths after taking account of construction tolerances applicable to the formation construction.

Wearing surface type and pavement design must be as shown in Annexure G10/A.

These design standards must also apply where unused roadways are proposed as temporary roadways and detours.

2.2 DESIGN DRAWINGS

Design drawings submitted for approval must show:

- (a) Pavement type and surface type.
- (b) Roadside furniture.
- (c) Drainage culverts and pits.
- (d) Alignment and grading at a horizontal scale of 1:2000 for rural roads and 1:500 for urban roads. Where the temporary road rejoins the existing road, full width cross sections showing levels must be made for a minimum distance of 200 m.
- (e) A sight distance diagram if opposing traffic is to use a single carriageway.
- (f) Sufficient cross-sections to indicate the feasibility of making connections between various parts of the work.
- (g) Intersections, and any other locations where traffic may be required to make turning, merging or diverging movements, at a scale of 1:500.
- (h) Pavement marking details.

2.3 DRAINAGE

Drainage structures and drains must be constructed in accordance with the Specifications for STORMWATER DRAINAGE.

Drainage must be provided so as to prevent water flowing over the road in any storm of intensity less than a 1 in 5 year occurrence. No temporary formation must be constructed so as to dam water at any time.

Pavements must be designed and constructed so as not to pond water at any point. Drainage structures must be provided to prevent ponding if necessary.

2.4 CONSTRUCTION OF EARTHWORKS AND PAVEMENT

Temporary roadways must be constructed in accordance with the technical requirements of the Specifications for:

CLEARING AND GRUBBING

EARTHWORKS

PAVEMENT.

2.5 SURFACING

The wearing surface of temporary roadways and detours must be firm, even and skid resistant under all weather conditions and must be designed to remain sound during use.

The wearing surface width must extend across the full width of the traffic lanes plus the width shown in Annexure G10/A for each shoulder.

The wearing surface must be carried onto any existing connecting roadway so as to finish square to the existing roadway centreline.

Surfacing must be constructed in accordance with the technical requirements of the Specifications for:

SPRAYED BITUMINOUS SURFACING

ASPHALT.

2.6 SAFETY BARRIERS

Safety barrier systems must be erected on all temporary embankments where the vertical height between the edge of the shoulder and the intersection of the embankment batter slope and natural surface exceeds 2 m and as otherwise shown on the Drawings.

Safety Barrier Systems must be erected in accordance with RTA R132.

2.7 OPENING TEMPORARY ROADWAYS AND DETOURS TO TRAFFIC

All signposting, pavement marking, safety barriers and portable or temporary traffic signals must be completed before the opening of temporary roadways to traffic.

HOLD POINT

Process Held: Opening of temporary roadways and detours to traffic (including portable or temporary traffic signals sites) must not proceed without giving notice and receiving approval.

Submission Details: Notice that work is conforming and ready for inspection.

Release of Hold Point: The Principal will inspect the site for compliance with the specification prior to giving approval and authorising the release the Hold Point.

Unless otherwise approved by the Principal, traffic must be switched to a temporary roadway or detour only where your usual workforce will be on site for a minimum of two days thereafter.

Unless otherwise approved by the Principal, sections of existing roadway being replaced must not be disturbed for at least two days after opening a temporary roadway or detour to traffic, in case failure of the temporary roadway or detour occurs and there is a need to redirect traffic back onto the existing roadway. The need to redirect traffic must be determined by the Principal. The costs associated with the redirection of traffic back onto the existing roadway must be borne by you.

The use of part of the Works in providing for traffic must not be considered as full opening to traffic and shall not be a reason for Completion for the part of the Works so used.

2.8 MAINTENANCE

Be responsible for the maintenance of temporary roadways and detours and ensure the road surface is kept safe for traffic. Any potholes or other failures must be repaired without delay.

2.9 REMOVAL

Upon completion of the Works, the temporary roadways and/or detour arrangements must be removed and the area restored to a condition equivalent to that which existed prior to the commencement of the work.

3 ARRANGEMENTS FOR TRAFFIC

3.1 CONSTRUCTION UNDER OR ADJACENT TO TRAFFIC

Where a temporary roadway or a detour is not provided or available then, subject to the approval of the Principal, construction under or adjacent to traffic may be permitted provided at least one 3.7 m lane remains open to traffic on a two lane roadway and at least one 3.7 m lane remains open in each direction on multi-lane roads. Alternatively, the lanes may be roadmarked to a reduced width as a speed reducing measure when agreed by the Principal.

The carriageway(s) must be restored to a safe and trafficable state for through traffic prior to cessation of work each day unless otherwise stated in the submitted Traffic Control Plan.

3.2 OPENING THE WORKS OR PART OF THE WORKS

All temporary traffic control devices no longer required for the safety of traffic, when the Works or part of the Works are opened to traffic must be removed.

All relevant permanent signposting, pavement markings, safety barriers and traffic signals required under the Contract must be completed prior opening to the Works or part of the Works to traffic.

For **Road Maintenance Council Contracts** ~~Single Invitation Maintenance Contracts~~: The Principal may specify, on a Work Order, additional requirements for opening a Work Area to traffic.

For contracts other than **Road Maintenance Council Contracts** ~~Single Invitation Maintenance Contracts~~: Give the Principal at least ten working days written notice confirming the date of opening the Works or part of the Works to traffic. The procedure for opening must be determined through consultation between you, the Principal and the Police.

ANNEXURE G10/A – PROJECT DETAILS**A1 DESIGN STANDARDS**

Design travel speed must be :	kilometres per hour
Minimum widths of traffic lanes :	metres
Minimum widths of shoulders :	metres
Minimum width of shoulder seal :	metres
Wearing Surface	Type: Thickness :
	millimetres
Base	Type: Thickness :
	millimetres
Subbase	Type: Thickness:
	millimetres

A2 TEMPORARY SPEED ZONING

(Refer to Clause 1.4)

Temporary speed zoning available, on request, for implementation during the Works	(Provide detail if zoning is available)
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ANNEXURE G10/B – MEASUREMENT AND PAYMENT

B1 **CONTRACTS OTHER THAN *ROAD MAINTENANCE COUNCIL CONTRACTS*** **~~SINGLE INVITATION MAINTENANCE CONTRACTS~~**

Payment for Contracts other than *Road Maintenance Council Contracts* ~~Single Invitation Maintenance Contracts~~ shall be made for all activities associated with completing the work detailed in this Specification in accordance with the following Pay Item.

Measurement and payment defined in other specifications must exclude works only carried out to comply with RTA G10.

Pay Item G10P1 - Control of Traffic

This shall be a Lump Sum item.

The Lump Sum shall include the design, construction, maintenance and removal of temporary roadways and detours, opening to traffic, the provision of traffic controllers, signposting, floodlighting, roadmarkings, raised pavement markers, lights, barriers, temporary speed zoning signposting and any other items required for the safe movement of traffic and the protection of persons and property in accordance with this Specification and the Traffic Control at Work Sites Manual.

Progress payments shall be made on a pro-rata basis of work done under this item, having due regard to the duration of the Contract.

B2 ***ROAD MAINTENANCE COUNCIL CONTRACTS*** ~~**SINGLE INVITATION MAINTENANCE CONTRACTS**~~

B2.1 **Routine Services**

All costs associated with Control of Traffic relating to the Routine Services, whether detailed in this Specification or in any other Specification, shall be deemed to be included in the *Actual Costs for the work*. ~~prices generally for the Routine Services.~~

B2.2 **Ordered Work**

All costs associated with Control of Traffic relating to Ordered Work, whether detailed in this or any other Specification shall be deemed to be included in the rates agreed on the Work Order generally unless the Work Order allows for separate payment.

The following Pay Items may be used at the discretion of the Principal. These Pay Items are self explanatory and are applicable for a single occurrence of traffic control.

Code	Description	Unit of measure
G10P1	Establish traffic control	each
G10P2.1	Work on 2-lane 2-way road	each
G10P2.2	Work on 3-lane 2-way road - slow lane	each
G10P2.3	Work on 3-lane 2-way road - fast and single lane	each
G10P2.4	Work on 4-lane undivided - centre lane	each
G10P2.5	Work on 4-lane undivided - kerb lane	each
G10P2.6	Work on 4-lane divided - kerb lane	each
G10P2.7	Work on 4-lane divided - median lane	each

G10**Control Of Traffic**

<i>Code</i>	<i>Description</i>	<i>Unit of measure</i>
<i>G10P2.8</i>	<i>Work on 6-lane divided - lane 1 (kerb lane)</i>	<i>each</i>
<i>G10P2.9</i>	<i>Work on 6-lane divided - lane 2</i>	<i>each</i>
<i>G10P2.10</i>	<i>Work on 6-lane divided - lane 3 (median lane)</i>	<i>each</i>
<i>G10P2.11</i>	<i>Work in turning lane</i>	<i>each</i>
<i>G10P3.1</i>	<i>Additions: Work within 100m and through a T-intersection</i>	<i>each</i>
<i>G10P3.2</i>	<i>Additions: Work within 100m and through a cross-intersection</i>	<i>each</i>
<i>G10P3.3</i>	<i>Additions: Work within 100m and through a roundabout</i>	<i>each</i>

ANNEXURE G10/C – SCHEDULES OF HOLD POINTS AND IDENTIFIED RECORDS

C1 SCHEDULE OF HOLD POINTS

A HOLD POINT means that point beyond which a work process must not proceed without the Principal's express written authorisation.

Clause	Description
1.3	Submission of the Traffic Management Plan and Traffic Control Plans
2.7	Opening to Traffic

C2 SCHEDULE OF IDENTIFIED RECORDS

The records listed below are Identified Records for the purposes of RTA Q Annexure Q/E.

Clause	Description of the Identified Record
1.3	Traffic Management Plan
1.4	Full details of the Traffic Control Plan, temporary signposting, traffic control devices and traffic control methods
2.2	Design drawings for temporary roadways and detours
2.7	Notice that temporary roadways and detours to traffic (including portable or temporary traffic signals sites) are conforming

ANNEXURES G10/D TO G10/L – (NOT USED)

ANNEXURE G10/M – REFERENCED DOCUMENTS

Refer to clause 1.2.4,

Australian Standards

AS 1742.3	Traffic control devices for works on roads
AS 4602	High visibility safety garments

RTA Specification***RTA M2******RMCC Annexures***

RTA R132	Safety Barrier Systems
	Pavement Marking
	Stormwater Drainage
RTA G40	Clearing and Grubbing
RTA R44	Earthworks
	Sprayed Bituminous Surfacing
RTA R116	Asphalt
RTA Q	Quality Management System

RTA Traffic Signals Equipment Specifications

SI/TCS/8	Installation of Traffic Light Signals
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RTA Guides and Manuals

	Traffic Control at Work Sites Manual
	Road Design Guide

AUSTROADS Publications

	Guide to Traffic Engineering Practice - Intersections at Grade
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