



Mareeba
SHIRE COUNCIL

GUIDELINES GATES & GRIDS APPROVAL

Council Policy <input checked="" type="checkbox"/>	Internal Policy <input type="checkbox"/>	Guideline/Procedure <input checked="" type="checkbox"/>
Draft <input type="checkbox"/>	Final <input checked="" type="checkbox"/>	Version: 1.0
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Date Adopted:		Review Date: 9/02/2023
Author:	Sam Wakeford	Review Officer: Victor Madrid:nj

Guidelines for Obtaining Gate/Grid Approval

This document sets out Council guidelines regarding the installation of gates/grids. These guidelines should be read in conjunction with Council's Local Laws and Subordinate Local Laws relative to gates and grids.

Gates and Grids are the responsibility of the Landowner and NOT Council.

1. OBJECT:

The object of the Local Laws is to regulate the installation of gates and grids across public roads to ensure that –

- (a) the gate or grid will not unduly obstruct pedestrian or vehicular traffic; and
- (b) the gate or grid will not prejudice the safety of pedestrian or vehicular traffic; and
- (c) the gate or grid will not prejudice the proper maintenance of the road; and
- (d) the matters which are the subject of the conditions specified in section 6(2) of this schedule which are relevant to the installation of the gate or grid can be adequately addressed by the imposition of those conditions.

2. APPLICATION PROCEDURE:

All applications shall be made in writing on the approved Council form.

1. The application must be accompanied by—

- (a) full details of the proposed works on the road or interference with its operation; and
- (b) if the applicant proposes to erect or install a structure on, over or under the road – plans and specifications of the structure; and
- (c) details of building or other work to be carried out under the approval.

2. For approvals for installation of a gate or grid, an application must also be accompanied by—

- (a) the name, address and telephone number of the person who will be installing the gate or grid; and
- (b) details of the gate or grid to be installed including—
 - (i) its design, dimensions and construction, including details of the grid structure, the foundations, the abutment, the approach ramps and the horizontal and vertical alignment; and
 - (ii) when, where and how the gate or grid is to be installed; and
 - (iii) a site plan to scale and specifications of the gate or grid to be installed; and
- (c) details of all insurances held by the person who will be installing the gate or grid.

- The Chief Executive Officer or Council's delegated officer is authorised to approve applications and issue approvals for gates/grids. The applicant is to be notified in writing of the outcome of the application and where the application is not approved, the reasons why.

3. REQUIREMENTS:

Grids are the preferred option by Council in the majority of cases, however gates will be approved on roads with very low traffic volumes or where the road provides access to only one property.

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For approvals for installing or operating gates or grids on a road, the conditions that will ordinarily be imposed are that the approval holder must ensure that—

- (a) the gate or grid, the approaches to the gate or grid and the warning signs are erected and installed in accordance with the following requirements—
 - (i) a grid or gate must be erected—
 - (A) at locations approved by the local government; and
 - (B) as directed by the local government;
 - (ii) a grid is constructed at a skew of 5% to the centreline of the road;
 - (iii) the centre of the grid or gate coincides with the centreline of the road;
 - (iv) a gate is constructed at right angles to the road centreline;
 - (v) the grade of the motor grid conforms to the grade of the road unless otherwise ordered by the local government;
 - (vi) the levels of the grid surface (including crossfalls) are in accordance with the directions of the local government;
 - (vii) when the grid is on a curve, the crossfall conforms to the cant of the curve;
 - (viii) the surface of the grid is 0.5 metres (with a tolerance of 0.1 metre) above the natural surface of the surrounding country;
 - (ix) approach ramps are constructed for the full width of the running surface of the grid;
 - (x) the longitudinal grade of the approach ramps are such that the surface levels of the ramps deviate from the existing average grade of the road by not more than 1%;
 - (xi) the fill used in the approach ramps is thoroughly compacted and finished to the satisfaction of the local government;
 - (xii) a grid is constructed of steel or concrete and is—
 - (A) of dimensions not less than 4 metres by 2.4 metres; or
 - (B) of such greater dimensions as may be required by the local government; and
 - (xiii) the grid structure, the foundations, the abutment, the approach ramps and the horizontal and vertical alignment—
 - (A) are sufficient to guarantee the safe transit of vehicles;
 - (B) will not interfere with the natural drainage of the area; and
 - (xiv) the construction of the grid will allow for the movement of stock by a suitable gate erected—
 - (A) beside the grid; and
 - (B) within the road reserve;
 - (xv) sufficient guide posts and rails are provided, as shown on the drawings, to satisfy road traffic safety requirements at the specific location;

Guidelines for Obtaining Gate/Grid Approval

- (xvi) reflectorised grid warning signs which satisfy the requirements of the Manual of Uniform Traffic Control Devices (Queensland) are provided at the approaches to the grid in accordance with best traffic safety practice;
- (b) the gate or grid, the approaches thereto and the warning signs are maintained to the standard specified in the local government's standard specification;
- (c) maintain public liability insurance for an amount of no less than the amount listed in the local government's Requirements for Public Liability Insurance for Approval Holders published on the local government's website which indemnifies the local government in respect to any liability arising from the activity;
- (d) a management program is maintained, which details how and when the gate or grid will be monitored and maintained.

4. RESPONSIBILITY OF APPLICANT:

- The term of an approval commences on the date the approval is granted and expires on the next 30th day of June, unless otherwise specified in the approval. Applications for renewal of the approval shall be made prior to the expiry date
- If the approval holder fails or neglects to renew their approval, such approval shall lapse and the Chief Executive Officer may give notice to the person concerned for the removal of such gate/grid.

5. EXTRA INFORMATION:

1. Faded Signs

It is the property owner's responsibility to replace these signs when they are damaged, become faded or lose their reflectivity (can't be seen at night).

2. Construction

Once approval to construct has been given by Council and prior to any construction taking place, traffic control measures, including signage, side track construction etc, are to be discussed with the Council Inspector who will provide the necessary advice on the development of a Traffic Management Plan.

All signage is to comply with the Manual of Uniform Traffic Control Devices (MUTCD) Part 3.

Once the Traffic Management Plan has been approved.

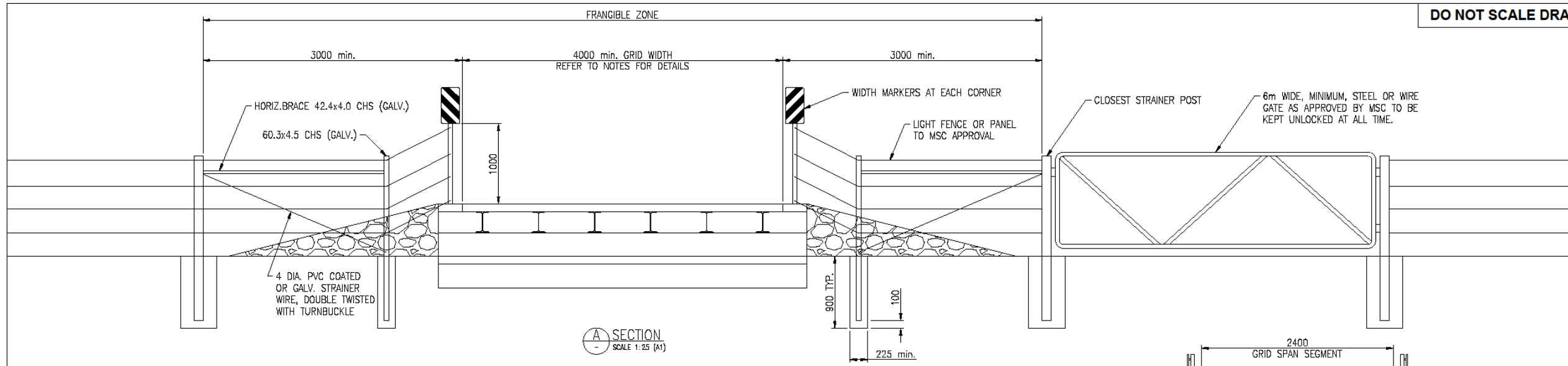
6. Fees - non refundable

- \$350.00 - Initial application fee includes two inspections by Council. The first to inspect the proposed location of the gate or grid and the second on completion to confirm the gate or grid has been installed in accordance with the Guidelines.
- \$200.00 - Re-inspection fee should it be necessary to undertake a third inspection due to the gate or grid not being installed as per the Guidelines.
- \$51.00 per annum - Approval Renewal Fee to ensure insurance renewal has been completed.
- \$255.00 (per Property) Renewal fee, for properties which have more than 5 Gates/Grids.
- \$50.00 Transfer of Gate/Grid (change of ownership)

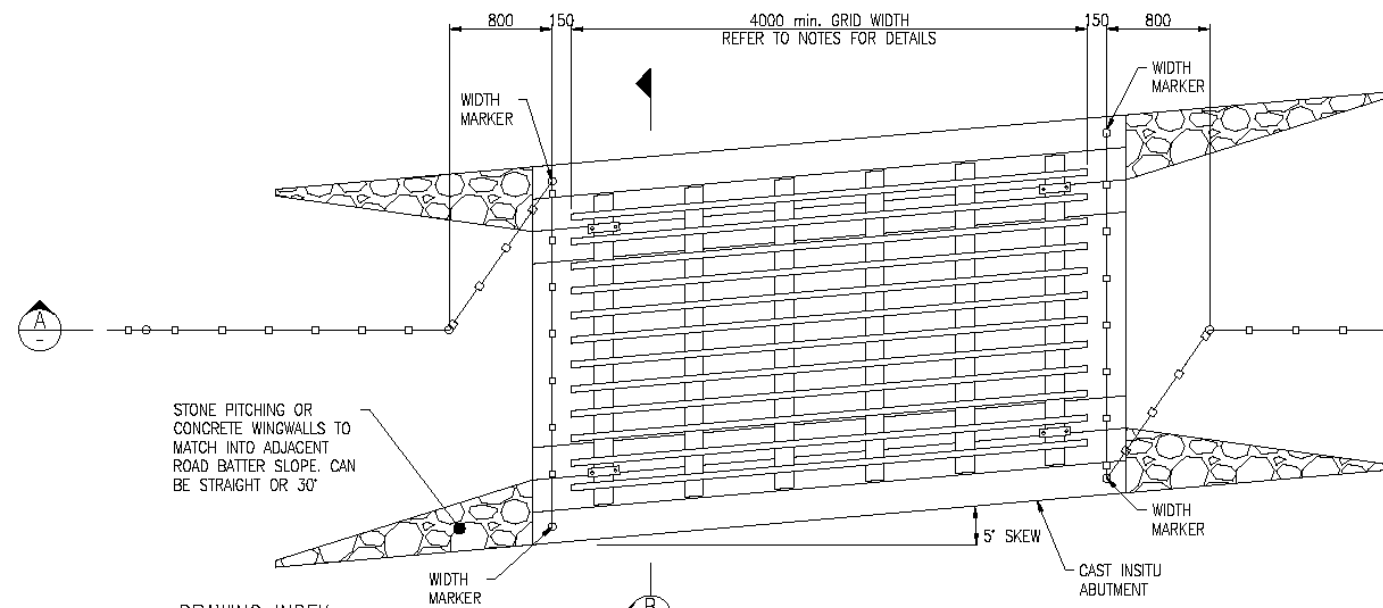
(renewable on 30 June each year)

Guidelines for Obtaining Gate/Grid Approval

DO NOT SCALE DRAWING



A SECTION
SCALE 1:25 (A1)
TYPICAL GATE AND GRID ELEVATION



B SECTION
SCALE 1:25 (A1)
TYPICAL GATE AND GRID PLAN VIEW

DRAWING INDEX

DRAWING No.	DRAWING TITLE
GG-001	PLAN, ELEVATION AND SECTION DETAILS
GG-002	GRID APPROACH DETAILS AND SIGNAGE LAYOUT PLAN AND DETAILS
GG-003	GATE APPROACH DETAILS AND SIGNAGE LAYOUT PLAN AND DETAILS

STANDARD GRID WIDTHS

ROAD HIERARCHY CLASSIFICATION	ROAD FORMATION WIDTH (m)	ROAD PAVEMENT WIDTH (m)	GRID WIDTH (m)	GRID SEGMENTS TO USE
RURAL ACCESS STREET	8.0	5.5	4.0	1 x 4.0m SEGMENTS
RURAL COLLECTOR MINOR	8.0	6.5	8.0	2 x 4.0m SEGMENTS
RURAL COLLECTOR MAJOR	10.0	8.0	8.0	2 x 4.0m SEGMENTS

FRANGIBLE ZONE NOTES

- ALL ABOVE GROUND STRUCTURES SHALL HAVE LOW STRUCTURAL STRENGTH AND YIELD UNDER IMPACT FROM A VEHICLE.
- MAX. STEEL POST DIA. 65MM O.D. 2.3mm WALL THICKNESS.
- SOLID STRAINER POSTS OR OTHER SOLID ROAD FURNITURE ARE NOT PERMITTED AS THEY CONSTITUTE A SERIOUS INJURY RISK TO OCCUPANTS OF VEHICLES.
- UNRESTRAINED HORIZONTAL RAILINGS PARALLEL TO THE DIRECTION OF TRAFFIC ARE NOT PERMITTED AS THEY CONSTITUTE A SERIOUS INJURY RISK (HORIZONTAL SPEAR HAZARD) TO OCCUPANTS OF VEHICLES.
- AN UNLOCKED GATE IS REQUIRED ADJACENT TO, AND WITHIN 20m OF THE GRID.

NOTES

- THE SPAN OF GRIDS ARE 2400mm.
- REFER TO THE 'STANDARD GRID WIDTHS' TABLE FOR WIDTH OF GRID TO BE INSTALLED. FOR OTHER WIDTHS WHERE SPECIFICALLY APPROVED, THE STANDARD WIDTH MAY BE VARIED AS REQUIRED, PROVIDED THE BEARER SPACING DOES NOT EXCEED 700mm, AND THE RAIL OVER-HANG DOES NOT EXCEED 250mm.
- GEOMETRY OF EXISTING ROAD WILL ALSO DETERMINE GRID WIDTH AND BE DETERMINED BY AUTHORISED OFFICER
- TRANSPORT OPERATORS ARE RESPONSIBLE FOR ARRANGING FOR WIDE LOAD PERMITS
- WIDTH MARKERS ARE REQUIRED FOR GRIDS LESS THAN THE FORMATION WIDTH.
- COMMERCIAL MANUFACTURED GRIDS MAY BE USED PROVIDED THEY ARE RPEQ CERTIFIED AND ENGINEERED TO AS5100 BRIDGE CODE, W80, A160, SM1600 AND HLP400.
- CAST INSITU OR PREFABRICATED PRE-CAST CONCRETE ABUTMENTS, CONCRETE SLABS MAY BE USED, PROVIDED THEY ARE RPEQ CERTIFIED AND ENGINEERED TO AS5100 BRIDGE CODE, W80, A160, SM1600 AND HLP400.
- A CONTINUOUS CONCRETE SLAB MUST BE PROVIDED BENEATH THE GRID BETWEEN ABUTMENTS.
- WHERE A GRID IS COMPOSED OF TWO OR MORE SEGMENTS, THE MAX. SPACING BETWEEN SHALL BE 5mm.
- ALL WELDING TO AUSTRALIAN STANDARDS AS/NZS 1554.1. WELDING CONSUMABLES TO AS/NZS ISO 14341 OR AS/NZS ISO 17632.
- CONCRETE TO BE S32/20. MINIMUM 40mm COVER FOR CAST INSITU AND MINIMUM 30mm COVER FOR PRECAST TO ALL REINFORCEMENT.

No.	Revision	Note	Drawn	Project Director	Date

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Drawn: V.MADRID	Designer: V.MADRID
Drafting Check:	Design Check:
Approved (Project Director):	Date:
Scale: AS SHOWN	This Drawing must not be used for construction unless signed as Approved

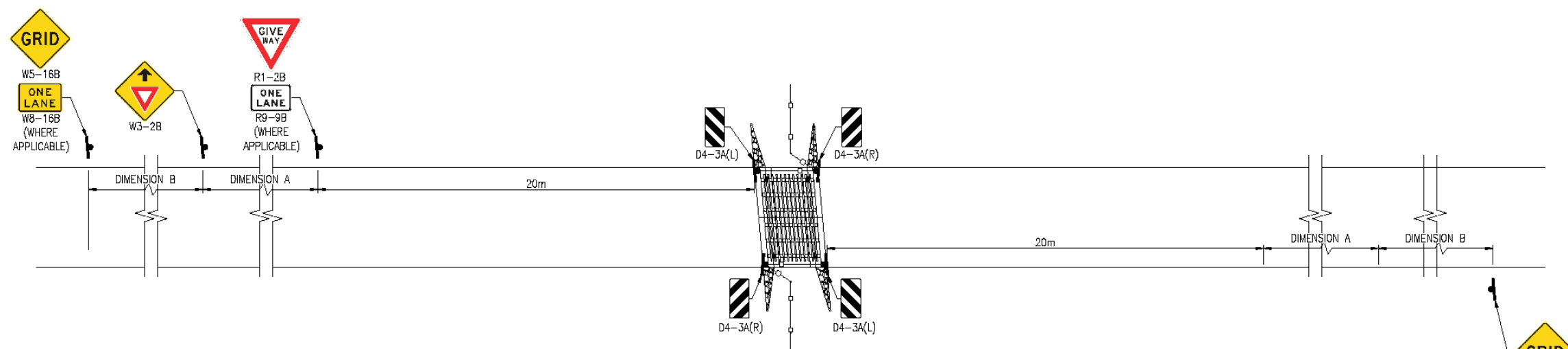
MAREEBA SHIRE COUNCIL
Project Title: **GATES AND GRIDS STANDARD DRAWING PLAN, ELEVATION AND SECTION DETAILS**
Construction Job No: _____ Drawing No: **GG-001**

Original Size: A1
Series No: 1 of 3
Rev: _____

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Guidelines for Obtaining Gate/Grid Approval

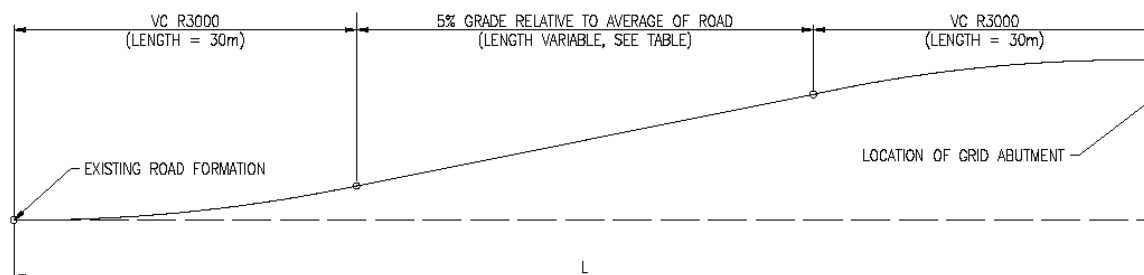
DO NOT SCALE DRAWING



LOCATION OF WARNING SIGNS IN ADVANCE OF GRID

DIMENSION	V ₈₅ KM/H		
	<75	75-90	>90
A	80-120	120-180	180-250
B	50	60	70

GRID SIGNAGE PLAN
SCALE 1:100 (A1)



ROAD APPROACH RAMP GRADIENT DETAILS
N.T.S.

HEIGHT (M)	LENGTH (M)	LENGTH OF GRADE (M)
H	L	
1.0	80	20
0.9	78	18
0.8	76	16
0.7	74	14
0.6	72	12
0.5	70	10
0.4	68	8
0.3	66	6

INSTALLATION OF SIGNS FOR GRIDS ON MSC CONTROLLED ROADS

GRID SIGNS

- TO BE INSTALLED ON EACH SIDE OF THE GRID AS PER TABLE SHOWN

ALL SIGNS

- REFER TO MUTCD FOR INSTALLATION PROCEDURES AND GUIDELINES

GIVE WAY SIGN

- A "GIVE WAY" SIGN IS TO BE INSTALLED ON THE APPROACH TO A ONE LANE GRID WITH PRIORITY TRAFFIC FLOW GIVEN TO THE APPROACH WITH LESSER SIGHT DISTANCE
- A "ONE LANE" SIGN IS TO BE INSTALLED WHERE ONE GRID SEGMENT IS INSTALLED

HAZARD MARKERS

- HAZARD MARKERS ARE TO BE INSTALLED ON EACH SIDE OF THE GRID AS SHOWN

GRID SIGNS REQUIRED

- 2x "GRID" WARNING SIGNS (W5-16B)
- 2x "ONE LANE" WARNING SIGNS (WB-16B) SINGLE GRIDS ONLY
- 1x "GIVE WAY" REGULATORY SIGN (R1-2B) SINGLE GRIDS ONLY
- 1x "ONE LANE" REGULATORY SIGN (R9-9B) SINGLE GRIDS ONLY
- 1x "GIVE WAY AHEAD" WARNING SIGN (W3-2B) WHERE GIVE WAY SIGN IS INSTALLED
- 2x WIDTH MARKER - LEFT (D4-3B (L))
- 2x WIDTH MARKER - RIGHT (D4-3B (R))

*ALL SIGNS TO BE INSTALLED AS PER FNQROC STD. DWG. S1041

No	Revision	Note	Drawn	Project Director	Date

Plot Date: 2/12/2020 3:27:20 PM

Plotted by: VICTOR MADRID

Cad File No: 1\msc\local\Design\Standard Drawings\Gates and Grids\GG-001_003_RC



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Drawn V.MADRID

Drafting Check

Approved (Project Director)

Date

Scale AS SHOWN

Designer V.MADRID

Design Check

This Drawing must not be used for construction unless signed as Approved

MAREEBA SHIRE COUNCIL

GATES AND GRIDS

STANDARD DRAWING

GRID APPROACH DETAILS AND SIGNAGE LAYOUT PLAN AND DETAILS

Construction Job No: Drawing No: GG-002

Original Size

A1

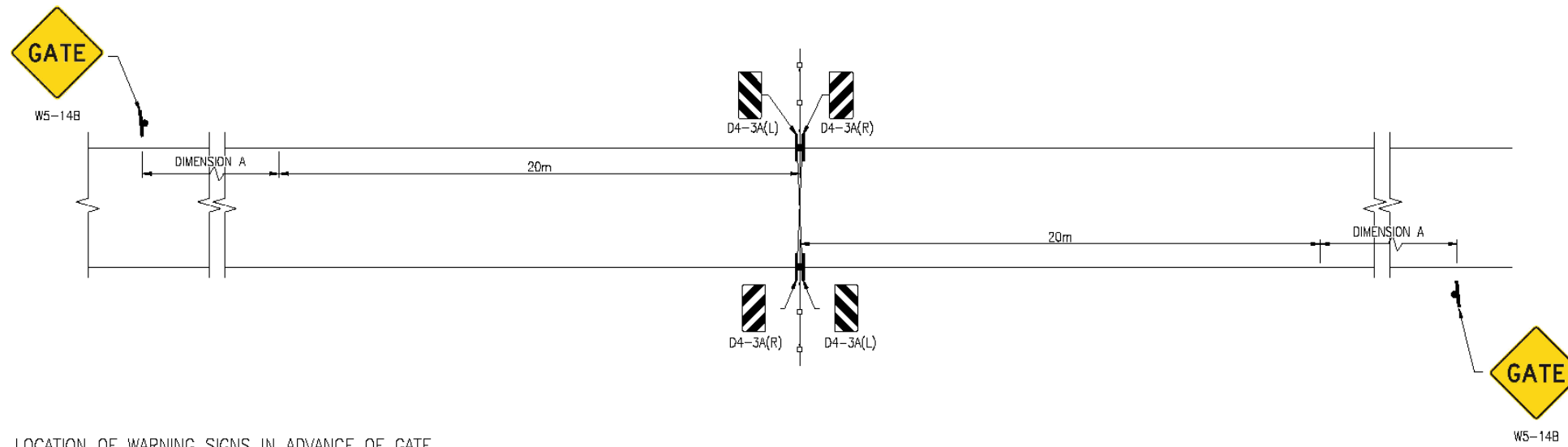
Series No

2 of 3

Rev:

Guidelines for Obtaining Gate/Grid Approval

DO NOT SCALE DRAWING



LOCATION OF WARNING SIGNS IN ADVANCE OF GATE

DIMENSION	V ₈₅ KM/H		
	<75	75-90	>90
A	80-120	120-180	180-250

GATE SIGNAGE PLAN
SCALE 1:100 (A1)

INSTALLATION OF SIGNS FOR GATES ON MSC CONTROLLED ROADS

- GATE SIGNS**
- TO BE INSTALLED ON EACH SIDE OF THE GATE AS PER TABLE SHOWN
- ALL SIGNS**
- REFER TO MUTCD FOR INSTALLATION PROCEDURES AND GUIDELINES
- HAZARD MARKERS**
- HAZARD MARKERS ARE TO BE INSTALLED AT GATE ON EACH SIDE AS SHOWN
- GATE SIGNS REQUIRED**
- 2x "GATE" WARNING SIGNS (W5-14B)
 - 2x WIDTH MARKER - LEFT (D4-3B (L))
 - 2x WIDTH MARKER - RIGHT (D4-3B (R))
- *ALL SIGNS TO BE INSTALLED AS PER FNQROC STD. DWG. S1041

				 Mareeba SHIRE COUNCIL	DO NOT SCALE	Drawn V.MADRID Drafting Check Approved (Project Director) Date	Designer V.MADRID Design Check	MAREEBA SHIRE COUNCIL Project GATES AND GRIDS Title STANDARD DRAWING GATE APPROACH DETAILS AND SIGNAGE LAYOUT PLAN AND DETAILS	Original Size A1 Series No 3 of 3	
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Director	Date			Construction Job No:	Drawing No: GG-003	Rev:

Plot Date: 2/12/2020 3:27:25 PM Plotted by: VICTOR MADRID Cad File No: \\msc.local\Files\Design\Standard_Drawings\Gates and Grids\GG-001_003_R0