

QPRC



**QUEANBEYAN PALERANG
REGIONAL COUNCIL**

**DEVELOPMENT CONSTRUCTION
SPECIFICATION**

C263

GUIDE POSTS

VERSION 2 - APRIL 2018

TRIM REF: SF140543
C1850650

Amendment Record for this Specification Part

This Specification is Council's edition of the AUS-SPEC generic specification part and includes Council's primary amendments.

Details are provided below outlining the clauses amended from the Council edition of this AUS-SPEC Specification Part. The clause numbering and context of each clause are preserved. New clauses are added towards the rear of the specification part as special requirements clauses. Project specific additional script is shown in the specification as italic font.

The amendment code indicated below is 'A' for additional script 'M' for modification to script and 'O' for omission of script. An additional code 'P' is included when the amendment is project specific.

Amendment Sequence No.	Key Topic addressed in amendment	Clause No.	Amendment Code	Author Initials	Amendment Date
VERSION 1	Inspection requirements added	C263.01.2	A	KD	1/04/10
	Specification Version 1 reference, standards updated	C263.02.1	M		
	Hold Point added	C263.03(c).1	A		
	Specification Version 1 reference, Hold Points added	C263.04	A		
	Witness Point added	C263.06.3	A		
	Hold Point added	C263.06.4	A		
	Witness Point added	C263.07.3	A		
	Specification Version 1 reference	C263.11	A		
	Annexure added	C263 - A	A		
VERSION 2	Update references to QPRC		M	CS	12/03/18

SPECIFICATION C263 - GUIDE POSTS – VERSION 2

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SPECIFICATION C263 : GUIDE POSTS – VERSION 2

GENERAL

C263.01 SCOPE

1. The work to be executed under this Specification consists of the setting out, supply of all materials and erection of guide posts at the locations shown on the Drawings or as directed by the Superintendent in areas where street lighting is not provided.

2. The Contractor shall give notice so that inspection may be made of all **HOLD POINTS** and **WITNESS POINTS** documented in this specification and tabulated in Annexure C263-A.. Release of **HOLD POINTS** and **WITNESS POINTS** shall be made by the Superintendent, with the concurrence of the Principal Certifying Authority to be obtained where stipulated in Annexure C263-A.

Inspections

C263.02 REFERENCE DOCUMENTS

1. Documents referenced in this Specification are listed in full below whilst being cited in the text in the abbreviated form or code indicated.

*Documents
Standards
Test Methods*

(a) Council Specifications

C201 - Control of Traffic - Version 2

(b) Australian Standards

AS 1604	Specification for preservative treatment –
AS1604.1:2005	Sawn and round timber.
AS 1742	Manual of uniform traffic control devices
AS 1742.2:2009	Traffic control devices for general use
AS/NZS 1906	Retroreflective materials and devices for road traffic control purposes.
AS/NZS 1906.2:2007	Retroreflective devices (non-pavement application).
AS 2082:2007	Timber – Softwood - Visually stress-graded for structural purposes
AS 2311: 2009	Guide to the painting of buildings.
AS 2858: 2008	Timber – Softwood – Visually stress – graded for structural purposes.
AS 3730	Guide to the properties of paints for buildings.
AS 3730.17: 2006	Primer – Wood – Latex – Interior/exterior.
AS 3730.18: 2006	Undercoat/sealer – Latex – Interior/exterior.
AS 5604: 2005	Timber – Natural durability ratings

(c) Other publications

Austrroads Glossary of Austrroads Terms 2008

C263.03 MATERIALS

(a) General

1. Guide posts shall be of timber or, as an alternative, the Superintendent may approve of a proprietary metallic or flexible (driveable or non-driveable) post.

Type

2. The surface of all posts shall have a gloss or semi-gloss white finish. The

Surface Finish

surface shall be smooth and easily cleaned.

3. Proprietary posts shall be minimum 1350mm in length and shall have one face of 100mm width.

Dimensions

(b) Timber Posts

1. Timber posts shall be cut from Select Grade hardwood and conform with AS 2082. All surfaces shall be smooth and free from obvious saw marks.

Quality

2. The posts shall be of rectangular cross-section having dimensions of 100mm x 50mm and shall be 1,400mm in length. The tops of the guide posts shall be sloped so that one 100mm edge is 10mm lower than the opposite edge.

Dimensions

(c) Proprietary Posts

1. Where a proprietary metallic or flexible guide post is proposed, the Contractor shall supply details of the proposed guide post including the manufacturer's recommended installation procedure, technical specifications and test certificates for consideration by the Superintendent. The test certification shall address post strength, flexibility, impact and heat resistance and durability. The Superintendent's approval of the submitted details and acceptance of the nominated guide post type and supplier and the approval of Council is required prior to delivery or inclusion in the Works. This is a **HOLD POINT**.

Details

(HP)

(d) Delineators

1. Corner-cubed delineators, conforming to AS 1906.2 shall be attached to each post.

Standard

2. The delineators shall be neither less than 80mm nor more than 85mm diameter.

Diameter

CONSTRUCTION

C263.04 GENERAL

1. The Contractor shall at all times conform to the requirements of the Specification for CONTROL OF TRAFFIC – VERSION 2.

Traffic Control

2. Where the shoulder is in embankment or at natural surface level, the guide posts shall be placed near the outer edge of the shoulder and at a uniform distance, minimum 1m, from the pavement edge line. Where the shoulder is located in a cutting, the guide posts shall be placed on the road pavement side of the table drain, and minimum 1m from the pavement edge line, in such a manner as not to impede the flow of water in the drain. This is a **HOLD POINT**.

Positioning

(HP)

3. Guide posts shall be erected at the locations shown on the Drawings.

Location

4. Underground services laid in proximity to the guide posts shall be located prior to erection of posts. This is a **HOLD POINT**.

Underground Services (HP)

C263.05 PROTECTIVE TREATMENT OF TIMBER GUIDE POSTS

- | | |
|--|----------------------|
| 1. The portion of the guide post below ground level shall be treated with creosote, such that the penetration and retention of creosote preservative conforms with the requirements for minimum Hazard Class H4 treatment in accordance with AS 1604.1. | Creosote |
| 2. All timber above ground level shall be painted with pink primer and any holes, cracks, or other surface imperfections in the timber, shall be stopped with white putty. This work shall be followed by painting with a white undercoat and a white enamel finishing coat. | Painting |
| 3. Painted surfaces shall be thoroughly dry before the second coat is applied. Paints shall be handled and applied in accordance with the manufacturer's directions. | Dry Surfaces |
| 4. All paints shall be of the best quality, durable and suitable for exterior application on timber surfaces. | Paint Quality |

C263.06 ERECTION OF GUIDE POSTS

- | | |
|---|-------------------------------------|
| 1. Guide posts shall be set vertically in the ground to a depth of approximately 500mm. In order to offset shoulder irregularities this depth shall be varied so as to give uniform display of guide posts to a height of approximately 900mm above ground level, with the tops evenly graded. Each guide post shall be erected with the 100mm axis at right angles to the centre line of the road. | Details |
| 2. Allowance shall be made in the height of guide posts above the ground for the effects of superelevation and other road geometry in order to keep the guide posts within the range of the beam of vehicle headlights. | Vertical Alignment |
| 3. Backfilling shall be compacted in layers of depth not more than 150mm for the full depth of the guide posts up to ground level. The density of the compacted backfilling shall not be less than that of the adjacent undisturbed ground. Guide posts shall be firm in the ground to the satisfaction of the Superintendent. This is a WITNESS POINT . | Backfilling (WP) |
| 4. Proprietary guide posts, when installed in the ground in accordance with the recommendations of the manufacturer, shall resist overturning, twisting and displacement from wind and impact forces. Provide manufacturers instructions for anchorage. This is a HOLD POINT . | Proprietary Guide Posts (HP) |
| 5. All necessary steps shall be taken to prevent people and stock from stepping into the post holes during the erection of the guide posts. | Contractor's Responsibility |

C263.07 DELINEATORS

- | | |
|--|-------------------------|
| 1. 'Corner Cubed' delineators, complying with AS 1906.2, shall be attached to each guide post using one way, anti-theft screws. In the case of proprietary posts, the delineators shall be glued or otherwise fastened to the post in such a manner that they are not dislodged or rendered inactive under vehicular impact. | Fixing |
| 2. The delineators shall be mounted so that the top of the reflector is 50mm below the top of the guide post. | Position |
| 3. The delineators shall be so arranged that drivers approaching from either direction will see only red delineators on their left side and white delineators on their right side. This is a WITNESS POINT . | Arrangement (WP) |

SPECIAL REQUIREMENTS

C263.08 RESERVED

C263.09 RESERVED

C263.10 RESERVED

MEASUREMENT AND PAYMENT**C263.11 PAY ITEMS**

1. Payment shall be made for all activities associated with completing the work detailed in this Specification in accordance with Pay Item C263(a).
2. A lump sum price shall not be accepted.
3. Traffic control is measured and paid in accordance with the Specification for CONTROL OF TRAFFIC - VERSION 2.

Pay Item C263(a) GUIDE POSTS

1. The unit of measurement shall be 'each' guide post.
2. The schedule rate shall cover all costs associated with the erection of each post, including supply of post, erection, painting (if applicable), and supply and fixing of corner-cubed delineators.

ANNEXURE C263- A

INSPECTIONS

Give notice so inspection may be made of the following:

Summary of HOLD POINTS

Clause/subclause	Requirement	Notice for inspection	Release by
GENERAL			
Materials			
C263.03(c).1 - Details	Proposal for supplier and manufacturer details	2 weeks before manufacture	Superintendent – Council concurrence required
CONSTRUCTION			
General			
C263.04.2 - Positioning	Call for inspection	1 working day	Superintendent
C263.04.4 - Underground Services	Check for services	5 working days	Superintendent
Erection of Guide Posts			
C263.06.4 – Proprietary Guide Posts	Provide manufacturers anchorage instructions	5 working days	Superintendent

Summary of WITNESS POINTS

Clause/ subclause	Requirement	Notice for inspection
CONSTRUCTION		
Erection of Guide Posts		
C263.06.3 - Backfilling	Firm embedment in ground	Progressive
Delineators		
C263.07.3 - Arrangement	Arrangement of delineators relative to traffic direction	Progressive