

Master Specification

Part RD-LM-C3

Installation of Guide Posts and Delineators

September 2024



Government of South Australia
Department for Infrastructure
and Transport

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Document Information

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1	Updated cover page and amendment to not allow for the installation of semi-flexible guide posts, in section 2b)	30/09/2024

Document Management

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RD-LM-C3 Installation of Guide Posts and Delineators

1 General

- a) This Master Specification Part sets out the requirements for the installation of all guide posts and delineators including:
 - i) the requirements for installation of guide posts, as set out in section 2; and
 - ii) the requirements for installation of delineators, as set out in section 3.
- b) The installation of guide posts and delineators must comply with the Reference Documents, including AS 1742.2 Manual of uniform traffic control devices, Part 2: Traffic control devices for general use.
- c) Without limiting the Contractor's obligation to comply with the Contract Documents, including the Master Specification, the guide posts and delineators must comply with the requirements of RD-LM-S3 "Supply of Guide Posts and Delineators".

2 Installation of guide posts

- a) Guide posts must be installed vertically and in accordance with:
 - i) the Design Documentation;
 - ii) the manufacturer's instructions;
 - iii) the spacing requirements in AS 1742.2 Manual of uniform traffic control devices, Part 2: Traffic control devices for general use; and
 - iv) the mandatory offset distance requirement outlined in Table RD-LM-C3 2-1.
- b) Semi-flexible guide posts must not be installed.
- c) The Contractor must ensure that all offsets are measured from the edge line, or if there is no edge line, the offset must be measured from the edge of seal.
- d) Where a sealed shoulder in excess of 1.0 m is provided and an absolute minimum offset of 1.5 m cannot be provided from the edge of seal to the guide posts within the existing formed shoulder, then the Contractor must place the guide posts at the edge of the seal.
- e) The Contractor must position the guide posts so that a consistent offset is maintained along a section of road.
- f) The Contractor must ensure that guide posts are not provided on kerbed roads.
- g) Redundant existing guide posts must be removed and either disposed of, or recycled, by the Contractor.

Table RD-LM-C3 2-1 Guidepost mandatory offset

Sealed shoulders		Unsealed shoulders	
Trafficable	Non-trafficable	Trafficable	Non-trafficable
1.5 m minimum	1.5 m desirable	2.0 m minimum	0.5 m minimum
2.5 m maximum	1.0 m minimum	2.5 m maximum	

3 Installation of delineators

3.1 General

- a) The Contractor must ensure that a delineator is mounted on each guide post facing oncoming traffic in accordance with AS 1742.2 Manual of uniform traffic control devices, Part 2: Traffic control devices for general use.
- b) The Contractor must ensure that discrete device type retroreflectors are installed in the following instances:
 - i) areas subject to regular occurrences of fog; or
 - ii) to define restrictions of the carriageway at bridges, culverts or floodways.
- c) The Contractor must ensure that sheeting type retroreflectors are installed at all locations other than those instances contemplated by section 3.1b).

3.2 Fixing to road safety barrier systems

- a) The Contractor must ensure that delineators are located in accordance with Table RD-LM-C3 3-1.
- b) The Contractor must ensure that the delineators are mounted on the barrier and do not protrude past the line of the barrier into the trafficked lane.
- c) The Contractor must ensure that delineators on road safety barrier systems have an area of 50 cm² and minimum width of 50 mm.

Table RD-LM-C3 3-1 Delineators on road safety barrier systems

Location of road safety barrier systems	Placement of delineators
Greater than 4.0 m from the edge of the nearest running lane.	Delineators must not be installed on the road safety barrier. Delineators must be placed on any guide posts located inside the fence line at the edge of the shoulder and at normal guide post spacings as required by AS 1742.2 Manual of uniform traffic control devices, Part 2: Traffic control devices for general use.
Between 4.0 m from the edge of the nearest running lane and the normal line of guideposts.	Delineators must be placed at the first fence post and then as near as practicable with the spacing specified for guide posts in AS 1742.2 Manual of uniform traffic control devices, Part 2: Traffic control devices for general use. Sections of guard fence less than 30 m long must have one delineator at each end of the fence.
Within the normal line of guide posts.	Delineators must be placed at the first fence post and then at a desirable spacing of 8.0 m, but not greater than 10.0 m.
Road safety barrier installed alongside kerbed urban roads, but excluding sections of road with kerbing associated with bridge or culvert structures on roads which are predominantly unkerbed.	Delineators must not be placed on road safety barrier.
Wire rope road safety barrier system placed within a narrow median (less than 2.8 m wide)	Delineators must be spaced at 10.0 m +/-2.0 m.

3.3 Guide posts at culverts

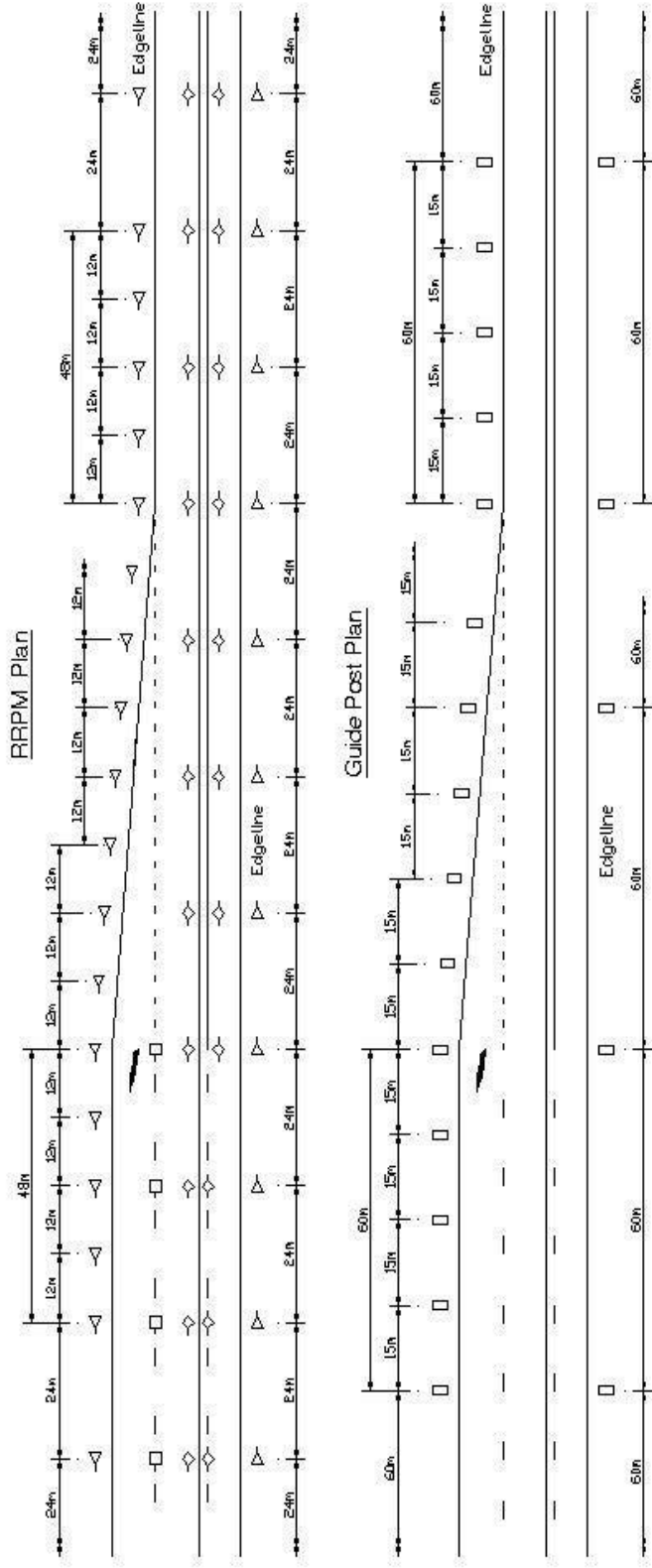
- a) The Contractor must ensure that, at all culverts, a culvert marker is installed on the first post on the left side approach only. The marker must:
 - i) have minimum dimensions of 80 mm x 50 mm when measured on a flat on a flat surface;

- ii) be black in colour; and
 - iii) be located horizontally 50 mm below the delineator.
- b) Where a guide post marking a culvert reduces the guide post's spacing to less than half that is required by this Master Specification Part, the guide post must be relocated to ensure a minimum spacing of half the required spacing is achieved.

3.4 Guide posts at overtaking lane merge tapers

Where overtaking lanes have been installed, the Contractor must reduce the guide post spacing to define the merge taper at each end of the overtaking lane, as shown on Appendix 1: Overtaking lane - Merge area delineation treatment.

4 Appendix 1: Overtaking lane - Merge area delineation treatment



- LEGEND:**
- Retroreflective raised pavement marker: White - Unidirectional.
 - ▽ Retroreflective raised pavement marker: Red - Unidirectional.
 - ◇ Retroreflective raised pavement marker: Yellow - Unidirectional.
 - ◇ Retroreflective raised pavement marker: Yellow - Bidirectional.
 - Guide post.

- NOTES:**
1. Guideposts are to be installed at the same offset from the edgeline through the entire length of the overtaking lane, including the merge taper area, regardless of the extent of any pavement or sealed shoulder.
 2. Edge of seal not shown on drawing.
 3. For design information refer to Operational Instruction 2.15 - Overtaking Lanes & GD900 Overtaking Lanes.
 4. For pavement marking specifications, refer to DTEI Pavement Marking Manual.
 5. Drawing is diagrammatic only and is not to scale. Do not scale from this drawing.

Scale: Not to Scale
 ALL DIMENSIONS ARE IN METRES
 Sign Type: Overtaking Lane - Merge Area Delineation Treatment
 Location: Various
 Drawn: A. Simister
 Edition: A, Rev: 2
 Date: 18 November, 2010
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