

Superseded

Specification (Measurement)

**Transport and Main Roads Specifications
MRS86 Widening, Strengthening and Rehabilitation of
Bridges**

May 2016

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Superseded

1 Introduction

This Specification applies to the operations required to be carried out in preparation for the widening, strengthening and rehabilitation of a bridge.

This Specification shall be read in conjunction with MRS01 *Introduction to Specifications* and other Specifications as appropriate.

This Specification forms part of the Transport and Main Roads Specifications Manual.

2 Measurement of work

2.1 Standard Work Items

In accordance with the provisions of Clause 2 of MRS01 *Introduction to Specifications*, the Standard Work Items covered by this Specification are listed in Table 2.1.

Table 2.1- Standard Work Items

Standard Item No.	Description	Unit of Measurement
Preparation for Bridge Widening		
8801	Removal of existing bridge rails and posts.	Lump sum
8802	Breaking back existing concrete.	m ³
8803	Removal of existing rubble masonry at abutments.	Lump sum
8804	Installation of steel reinforcing bars in existing concrete.	each
8805	Installation of dowel bars.	each
8806	Scabbling concrete faces.	m ²
8807	Temporary barrier guardrail.	Lump sum

2.2 Work Operations

Item 8801 Removal of existing bridge rails and posts

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) removal of rails
- c) demolition and disposal of posts, and
- d) transport and storage of rails.

Item 8802 Breaking back existing concrete

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) demolition of existing concrete
- c) disposal of demolished concrete, and
- d) cutting of steel reinforcing and protecting cut ends, where applicable.

Item 8803 Removal of existing rubble masonry at abutments

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) demolition of existing rubble masonry, and
- c) disposal of demolished materials.

Item 8804 Installation of steel reinforcing bars in existing concrete

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) coring of holes in existing concrete
- c) supply of chemical fastener products, and
- d) installation of steel reinforcing bars.

Item 8805 Supply and installation of dowel bars

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of dowel bars, and
- c) installation of dowel bars.

Item 8806 Scabbling concrete faces

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) scabbling of existing concrete, and
- c) cleaning of scabbled face
- d) supply, prepare and apply bonding agent, where applicable.

Item 8807 Temporary barrier guardrail

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of materials
- c) fabrication of steel components
- d) coring of holes for chemical fasteners
- e) installation of chemical fasteners
- f) erection of barrier
- g) dismantling on completion, and
- h) cutting off anchor bolts.

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