TRUNK ROAD INFRASTRUCTURE TECHNICAL SPECIFICATION No. 02

EARTHWORKS



Publication Number:	TRITS 02
Date of Effect:	
Supersedes:	
Endorsed By:	
Approved By:	

DOCUMENT INFROARNATION

Document Title	Trunk Road Infrastructure Technical Specification No. 02 – Earthworks
Next review date	
Key words	

REVISION REGISTER

Ed/Rev Number	Clause Number	Description of Revision	Authorised By	Date

PREFACE

The Australian Capital Territory has adopted the Austroads Guides for provision and management of road and transport infrastructure. The Territory and Municipal Services Directorate has issued a revised series of documents to reflect this development in infrastructure standards and specifications for practice in the ACT.

This present document is part of the ACT Trunk Road Infrastructure Technical Specifications (TRITS) series spanning the broad scope of road infrastructure development and management in the ACT:

- TRITS 01 Roadworks
- TRITS 02 Earthworks
- TRITS 03 Underground Services
- TRITS 04 Flexible Pavements
- TRITS 05 Rigid Pavements
- TRITS 06 Kerbs and Footpaths
- TRITS 07 Segmental Paving
- TRITS 08 Incidental Works
- TRITS 09 Landscape
- TRITS 10 Bridges and Related Structures
- TRITS II Pavement Marking
- TRITS 12 Street Lighting
- TRITS 13 Traffic Signals
- TRITS 14 Road Signs
- TRITS 15 Road Furniture

This ACT Trunk Road Infrastructure Technical Specification No. 02 – EARTHWORKS prescribes the detailed practices for earthworks in the ACT. It is issued to clarify any exceptions or additional requirements for implementation in the ACT, and to identify relevant complementary documents.

In many areas of road infrastructure construction and management, the ACT has adopted the relevant specifications of the NSW Roads and Maritime Services (formerly RTA NSW). The relevant RMS documents are identified and referenced in these ACT Trunk Road Infrastructure Technical Specifications.

The works must be carried out according to the referenced RMS specifications with the exception of items detailed in the Technical Exception Clauses.

Where any differences in practice exist between the RMS Specifications and this Trunk Road Infrastructure Technical Specification, the latter will prevail.

The ACT Government replaces RMS where applicable as the Road Authority. ACT replaces NSW where applicable as the place where the work is conducted. Equivalent ACT authorised organisations and legislation replace NSW's where applicable. Roads ACT's athorised representative is equivalent to RMS's principal.

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I INTRODUCTION

The works covered in this specification comprise the formation by cutting or filling of the earthworks for roadways, paths, open drains and all incidental works other than underground services. Requirements are also included for the clearing and grubbing of vegetation, removal of existing structures, stripping and stockpiling of top soil and for the final trimming and finishing of surfaces of various purposes.

This specification may also be applied to ancillary works such as temporary drainage and soil conservation measures for the protection of permanent works during construction and the prevention of damage to the site and adjacent areas as a result of soil erosion.

2 REFERENCE DOCUMENTS

2.1 LEGISLATIVE DOCUMENTS

2.2 **GUIDELINES**

Austroads Guide to Pavement Technology

Part I: Introduction to Pavement Technology

Part 2: Pavement Structural Design Part 3: **Pavement Surfacings** Part 4: Pavement Materials

Part 4A: Granular Base and subbase

Part 4B: Asphalt

Part 4C: Materials for concrete road pavements

Part 4D: Stabilised materials Part 4F: Bituminous binders Part 4G: Geotextiles and geogrids

Part 4H: Test methods

Part 4I: Earthworks materials Part 41: Aggregate and source rock

Part 4K: Seals

Part 4L: Stabilising binders

Part 5: Pavement Evaluation and Treatment Design

Part 6: Unsealed pavements Part 7: Pavement maintenance

Part 8: Pavement Construction Assurance

Part 9: Pavement work practice

Part 10: Surface drainage

Supplementary **Documents**

RMS Pub. I I.050 RMS Austroads Guide Supplements - Supplement to the Austroads Guide to

Pavement Technology Part 2: Pavement Structural Design

2.1.1 **Guide to the RMS Specifications**

CR082 Guide to QA Specification R82

CR083 Guide to QA specifications R83 and R84

NG36 Guide to Roads and Maritime Services (replacing Roads and Traffic Authority) QA

Specification G36 – Environmental Protection

RELATED TECHNICAL SPECIFICATIONS 2.3

AS 1289 Methods of Testing Soils for Engineering Purposes including:

AS 1289.6.1.1 Determination of the California Bearing Ratio of a soil - Standard laboratory method

a remoulded specimen.

AS 1289.3.3.1 Calculation of the plasticity index of a soil.

AS 1289.5.1.1 Determination of the dry density/moisture content relation of a soil using standard

compactive effort.

AS 1289.5.4.1 Compaction control test - Dry density ratio, moisture variation and moisture ratio.

AS 1289.5.7.1 Compaction Control Test (Rapid Method). Explosives, Storage, transport and use AS 2187

AS 2189 Explosives Glossary of Terms

AS 1348 Road & Traffic Engineering -Glossary of Terms

3 CLEARING AND GRUBBING

Clearing and grubbing according to RMS G40.

4 EARTHWORKS

Earthworks according to ACT editied RMS R44.

5 CONSTRUCTION OF VERGES

Construction of verges according to RMS R49.

6 STABILISATION OF EARTHWORKS

Stabilisation of earthworks according to RMS G50.

7 REFERENCES

Roads and Maritime Services 2003, QA Specification G40: Clearing and grubbing, Roads and Maritime Services, Sydney, NSW.

Roads and Maritime Services 2011, QA Specification R44: Earthworks, Roads and Maritime Services, Sydney, NSW.

Roads and Maritime Services 2011, QA Specification R50: Stabilisation of earthworks, Roads and Maritime Services, Sydney, NSW.

Roads and Maritime Services 2012, QA Specification R49: Construction of verges, Roads and Maritime Services, Sydney, NSW.

8 STANDARD DRAWINGS