

# NRA MANUAL OF CONTRACT DOCUMENTS FOR ROAD WORKS

## A BRIEF DESCRIPTION OF MARCH 2011 AMENDMENTS

DOCUMENT	DESCRIPTION OF CHANGES SINCE DECEMBER 2010
<p>Series 000</p> <p>Introduction</p>	<p>Series 000 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW) and revised in December 2007 and January 2009.</p> <p>Series 000 was last revised in March 2011 by the following documents:</p> <ul style="list-style-type: none"> <li>• Volume 2 Notes for Guidance on the Specification for Road Works, Series NG 000.</li> <li>• Volume 3 Section 1: Method of Measurement for Road Works, Chapter I, Chapter II &amp; Chapter III.</li> <li>• Volume 3 Section 2: Notes for Guidance on the Method of Measurement for Road Works, Chapters I, II &amp; III.</li> </ul> <p>The revisions are as follows:</p> <ol style="list-style-type: none"> <li>1. Update of Sample Appendix 0/3 List of numbered appendices referred to in the Specification and Included in the Contract to include new appendices introduced in the December 2010 and March 2011 Revisions.</li> <li>2. Terminology has been updated for consistency with the Public Works Contracts.</li> </ol>
<p>Series 100</p> <p>Preliminaries</p>	<p>Series 100 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW).</p> <p>Series 100 is updated in March 2011 by the issue of the following documents:</p> <ul style="list-style-type: none"> <li>• Volume 1 Specification for Road Works, Series 100.</li> <li>• Volume 2 Notes for Guidance on the Specification for Road Works, Series NG 100.</li> <li>• Volume 3 Section 1 : Method of Measurement for Road Works Chapter IV Series 100.</li> <li>• Volume 3 Section 2 : Notes for Guidance on the Method of Measurement for Road Works Chapter IV Series 100.</li> </ul> <p>The revisions of particular note are as follows:</p> <ol style="list-style-type: none"> <li>1. Allowance for mobile telephones to be provided as the Communication System for the Employer's Personnel.</li> <li>2. Provision of a new clause to include Property Condition Surveys.</li> <li>3. Terminology has been updated for consistency with the Public Works Contracts.</li> </ol>

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<p>Series 300</p> <p>Fencing and Environmental Noise Barriers</p> <p>Erratum No.1 March 2011</p>	<p>Series 300 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW) and revised in January 2009.</p> <p>Minor amendments have been made to the Series 300 as published in January 2009 by the issue of the following Erratum:</p> <ul style="list-style-type: none"> <li>• Volume 1 Specification for Road Works, Series 300 Erratum No. 1 (March 2011).</li> </ul> <p>The March 2011 version of the NRA MCDRW includes this minor amendment to Series 300:</p> <ol style="list-style-type: none"> <li>1. Correction of Design Standard for Noise Barrier Foundations from NRA DMRB BD 37 to Eurocodes and the relevant national annex.</li> </ol>
<p>Series 400</p> <p>Safety Barriers and Pedestrian Guardrails</p> <p>Erratum No.1 March 2011</p>	<p>Series 400 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW) and revised in January 2009.</p> <p>Minor amendments have been made to the Series 400 as published in January 2009 by the issue of the following documents:</p> <ul style="list-style-type: none"> <li>• Volume 1 Specification for Road Works, Series 400.</li> <li>• Volume 4 Road Construction Details, Series 400, RCD/400/2.</li> </ul> <p>The principal revisions are as follows:</p> <ol style="list-style-type: none"> <li>1. Rewording of sub-Clause 401.1 regarding CE marking.</li> <li>2. Note 4 of RCD/400/2 has been amended to require a minimum ggbs content.</li> </ol>
<p>Series 500</p> <p>Drainage and Service Ducts</p>	<p>Series 500 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW) and revised in January 2009 with Errata in October 2009 and December 2010.</p> <p>Minor amendments have been made to the Series 500 as published in December 2010 by the issue of the following documents:-.</p> <ul style="list-style-type: none"> <li>• Volume 4 Road Construction Details, Series 500, RCD/500/02.</li> </ul> <p>The revisions of particular note are as follows:</p> <ol style="list-style-type: none"> <li>1. Amendments to the notes and key to better correspond to the requirements in Clauses 503 and 505 of Volume 1.</li> </ol>

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<p>Series 600</p> <p>Earthworks</p>	<p>Series 600 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW).</p> <p>Series 600 is updated in March 2011 by the following documents;</p> <ul style="list-style-type: none"> <li>• Volume 1      Specification for Road Works, Series 600.</li> <li>• Volume 3      Section 1: Method of Measurement for Road Works, Chapter IV Series 600.</li> </ul> <p>The revisions are limited to updating of the terminology for consistency with the Public Works Contracts.</p>
<p>Series 700</p> <p>Road Pavements - General</p>	<p>Series 700 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW) and revised in December 2010.</p> <p>Minor amendments have been made to the Series 700 in March 2011 by the issue of the following document:</p> <ul style="list-style-type: none"> <li>• Volume 2      Notes for Guidance on the Specification for Road Works, Series NG 700.</li> </ul> <p>The revisions are as follows:</p> <ol style="list-style-type: none"> <li>1. NG 717 amended to read NG 707</li> <li>2. Amendments to Table NG7/1 and Sample Appendix 7/1, Sheet 1 in order to be consistent with recent changes to Volume 1 of Series 900 with respect to PSV.</li> </ol>
<p>Series 800</p> <p>Road Pavements - Unbound Cement Bound Mixtures</p> <p>Erratum No.1 March 2011</p>	<p>Series 800 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW) and revised in May 2004 and subsequently in December 2010.</p> <p>Minor amendments have been made to the Series 800 as published in December 2010 by the issue of the following Erratum:</p> <ul style="list-style-type: none"> <li>• Volume 1      Specification for Road Works, Series 800 Erratum No. 1 (March 2011).</li> </ul> <p>The March 2011 version of the NRA MCDRW includes these minor amendments to Series 800:</p> <p>The revisions are as follows:</p> <ol style="list-style-type: none"> <li>1. Amendment to Table 8/2 Requirements for Aggregates Used in Unbound Mixtures for Subbase and Base – the text ‘Sulphur Content’ in the first row is amended to read ‘Total Sulphur’.</li> <li>2. Amendment to Table 8/4 Compaction Requirements for Unbound Mixtures to improve legibility of the text.</li> </ol>

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<p>Series 900</p> <p>Road Pavements - Bituminous Bound Materials</p>	<p>Series 900 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW) and revised dated January 2010.</p> <p>Minor amendments have been made to the Series 900 as follows:</p> <ul style="list-style-type: none"> <li>• Volume 1 Specification for Road Works, Series 900.</li> </ul> <p>The revisions are as follows:</p> <ol style="list-style-type: none"> <li>1. The standard minimum PSV categories of coarse aggregates in Surface Courses (Clauses 912, 915, 938 and 942) have been changed, with location-specific requirements to be specified in Appendix 7/1.</li> <li>2. Additional requirement in CI 901.4 for aggregates used in surface courses to be of a single rock type and source.</li> <li>3. Minor amendments to the locations of wheel-track zones under CI 903.25 to be consistent with 3.5m wide carriageways.</li> <li>4. Removal of the word “existing” from the first sentence of CI 920.1</li> </ol>
<p>Series 1000</p> <p>Road Pavements – Concrete Materials</p>	<p>Series 1000 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW) and revised in December 2010.</p> <p>Minor amendments have been made to the Series 1000 as published in December 2010 as follows:</p> <ul style="list-style-type: none"> <li>• Volume 4 Road Construction Details: RCD/1000/19 to RCD/1000/29.</li> </ul> <p>The revisions are as follows:</p> <ol style="list-style-type: none"> <li>5. On RCD/100/19 the words “Standard Construction Detail Drawings” have been changed to “Road Construction Details”.</li> <li>6. On RCD/100/20 - 29 the words “Highway Construction Details” have been changed to “Road Construction Details”.</li> </ol> <p>As there is no change to the body of the drawings, the drawing revisions remain unchanged.</p>
<p>Series 1100</p> <p>Kerbs, Footways and Paved Areas</p>	<p>Series 1100 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW) and revised in December 2010.</p> <p>Minor amendments have been made to the Series 1100 as published in December 2010 as follows:</p> <ul style="list-style-type: none"> <li>• Volume 2 Notes for Guidance on the Specification for Road Works, Series NG 1100</li> </ul> <p>The revisions of particular note are as follows:</p> <ol style="list-style-type: none"> <li>1. Notes to compiler for Appendix 11/2.amended</li> </ol>

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<p>Series 1200</p> <p>Traffic Signs</p>	<p>Series 1200 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW).</p> <p>Series 1200 is updated in March 2011 by the following documents.</p> <ul style="list-style-type: none"> <li>• Volume 1 Specification for Road Works, Series 1200.</li> <li>• Volume 3 Section 1: Method of Measurement for Road Works, Chapter IV Series 1200.</li> <li>• Volume 3 Section 2 : Notes for Guidance on the Method of Measurement for Road Works Chapter IV Series 1200</li> </ul> <p>The revisions are as follows:</p> <ol style="list-style-type: none"> <li>1. Terminology has been updated for consistency with the Public Works Contracts.</li> <li>2. Clause 1211 Road Markings has been revised to reflect current EN Standards for Road Marking Materials.</li> <li>3. Clause 1212 Reflecting Road Studs has been revised to reflect current EN Standards for Road Studs IS EN 1463 Parts 1 &amp; 2.</li> </ol>
<p>Series 1300</p> <p>Road Lighting Columns and Brackets</p>	<p>Series 1300 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW).</p> <p>Series 1300 is updated in March 2011 by the following documents:</p> <ul style="list-style-type: none"> <li>• Volume 1 Specification for Road Works, Series 1300.</li> </ul> <p>The revisions are limited to updating of the terminology for consistency with the Public Works Contracts.</p>
<p>Series 1400</p> <p>Electrical Work for Road Lighting and Traffic Signs</p>	<p>Series 1400 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW).</p> <p>Series 1400 is updated in March 2011 by the following documents:</p> <ul style="list-style-type: none"> <li>• Volume 1 Specification for Road Works, Series 1400.</li> <li>• Volume 3 Section 1: Method of Measurement for Road Works, Chapter IV Series 1400.</li> </ul> <p>The revisions are limited to updating of the terminology for consistency with the Public Works Contracts.</p>
<p>Series 1500</p> <p>Motorway Communications</p>	<p>Series 1500 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW).</p> <p>Series 1500 is updated in March 2011 by the following documents:</p> <ul style="list-style-type: none"> <li>• Volume 1 Specification for Road Works, Series 1500.</li> <li>• Volume 3 Section 1: Method of Measurement for Road Works, Chapter IV Series 1500.</li> </ul> <p>The revisions are limited to updating of the terminology for consistency with the Public Works Contracts.</p>

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<b>DOCUMENT</b>	<b>DESCRIPTION OF CHANGES SINCE DECEMBER 2010</b>
<p>Series 1600</p> <p>Piling and Embedded Retaining Walls</p> <p>Erratum No.1 March 2011</p>	<p>Series 1600 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW).</p> <p>Minor amendments have been made to the Series 1600 as published in December 2010 by the issue of the following Erratum:</p> <ul style="list-style-type: none"> <li>• Volume 1      Specification for Road Works, Series 1600 Erratum No. 1 (March 2011).</li> </ul> <p>The March 2011 version of the NRA MCDRW includes these minor amendments to Series 1600:</p> <p>The revisions are as follows:</p> <ol style="list-style-type: none"> <li>1. Amendment to Table 16/6: Minimum Loading Times for Pile Test.</li> <li>2. Amendment to Table 16/8: Test and Compliance Values for Support Fluid.</li> </ol>
<p>1800</p> <p>Structural Steelwork</p>	<p>Series 1800 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW).</p> <p>Series 1800 is updated in March 2011 by the issue of the following documents:</p> <ul style="list-style-type: none"> <li>• Volume 1      Specification for Road Works, Series 1800.</li> <li>• Volume 3      Section 1 : Method of Measurement for Road Works Chapter IV Series 1800.</li> </ul> <p>The revisions are limited to updating of the terminology for consistency with the Public Works Contracts.</p>
<p>1900</p> <p>Protection of Steelwork Against Corrosion</p>	<p>Series 1900 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW).</p> <p>Minor amendments have been made to the Series 1900 as published in December 2010:</p> <ul style="list-style-type: none"> <li>• Volume 2      Notes for Guidance on the Specification for Road Works, Series NG 100, Table NG 1/1 as relevant to Series 1900 – Clause reference 1911 amended to Clause 1912, reference 1976 amended to 1978.</li> <li>• Volume 2      Correction of some typographical errors in the sample appendices and formatting in the body of Volume 2. No amendments to the text of the NG Series.</li> </ul>

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<p>2100</p> <p>Bridge Bearings</p>	<p>Series 2100 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW).</p> <p>Series 2100 is updated in March 2011 by the issue of the following documents:-</p> <ul style="list-style-type: none"> <li>• Volume 1 Specification for Road Works, Series 2100</li> <li>• Volume 2 Notes for Guidance on the Specification for Road Works, Series NG 2100</li> <li>• Volume 3 Section 1 : Method of Measurement for Road Works Chapter IV Series 2100</li> </ul> <p>The revisions of particular note are as follows:</p> <ol style="list-style-type: none"> <li>1. A major revision to require Design, Specification, Installation and Testing of bearings to be in accordance with IS EN 1337 and PD 6703.</li> </ol>
<p>2200</p> <p>Parapets</p>	<p>Series 2200 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW).</p> <p>Series 2200 is updated in March 2011 by the issue of the following documents:</p> <ul style="list-style-type: none"> <li>• Volume 1 Specification for Road Works, Series 2200.</li> <li>• Volume 2 Notes for Guidance on the Specification for Road Works, Series NG 2200.</li> <li>• Volume 2 Notes for Guidance on the Specification for Road Works, Series NG 100, Table NG 1/1 as relevant to Series 2400.</li> <li>• Volume 3 Section 1 : Method of Measurement for Road Works Chapter IV Series 2200.</li> <li>• Volume 3 Section 2 : Notes for Guidance on the Method of Measurement for Road Works Chapter IV Series 2200.</li> </ul> <p>The revisions of particular note are as follows:</p> <ol style="list-style-type: none"> <li>1. General update for consistency with the Public Works Contracts and current Euronorms.</li> </ol>
<p>2300</p> <p>Bridge Expansion Joints and Sealing of Gaps</p>	<p>Series 2300 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2000 (NRA MCDRW).</p> <p>Minor amendments have been made to the Series 1900 as published in December 2010:</p> <ul style="list-style-type: none"> <li>• Volume 3 Section 1 : Method of Measurement for Road Works Chapter IV Series 2300.</li> </ul> <p>The revisions are minor, as follows:</p> <ol style="list-style-type: none"> <li>1. General updating for consistency with the Public Works Contracts.</li> </ol>

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<p>2700</p> <p>Watermains, Utilities and Accommodation Works</p>	<p>Series 2700 of The Manual of Contract Documents for Road Works was published by the National Roads Authority in March 2011 (NRA MCDRW).</p> <p>Series 2700 is updated in March 2011 by the issue of the following documents:</p> <ul style="list-style-type: none"> <li>• Volume 1 Specification for Road Works, Series 2700.</li> <li>• Volume 2 Notes for Guidance on the Specification for Road Works, Series NG 2700.</li> <li>• Volume 2 Notes for Guidance on the Specification for Road Works, Series NG 100, Table NG 1/1 as relevant to Series 2700.</li> <li>• Volume 3 Section 1 : Method of Measurement for Road Works Chapter IV Series 2700.</li> <li>• Volume 4 Road Construction Details, Series 2700.</li> </ul> <p>The revisions of particular note are as follows:</p> <ol style="list-style-type: none"> <li>1. Volumes 1 and 2 are introduced to add Watermains.</li> <li>2. Volume 3 is extended to include Watermains.</li> <li>3. Volume 4 - References for concrete in the RCDs are amended for consistency with IS EN 206.</li> </ol>
<p>Volume 1A</p> <p>Specification for Road Works: Amendments for use with Public Works Contracts</p>	<p>Volume 1A of the MCDRW was published by the National Roads Authority in January 2009.</p> <p>The March 2011 Revisions to Volume 1 incorporate all of the remaining amendments for use with Public Works Contracts and Volume 1A is now withdrawn.</p>
<p>Volume 3A</p> <p>Method of Measurement for Road Works: Amendments for use with Public Works Contracts</p>	<p>Volume 3A of the MCDRW was published by the National Roads Authority in January 2009.</p> <p>The March 2011 Revisions to Volume 3 incorporate all of the remaining amendments for use with Public Works Contracts and Volume 3A is now withdrawn.</p>