
**VOLUME 0 MODEL CONTRACT
DOCUMENT FOR MAJOR
WORKS AND
IMPLEMENTATION
REQUIREMENTS**

**SECTION 2 IMPLEMENTING
STANDARDS**

PART 10

SD 9/01

**IMPLEMENTATION OF MAY 2001
AMENDMENTS TO SPECIFICATION
FOR HIGHWAY WORKS AND NOTES
FOR GUIDANCE ON SPECIFICATION
FOR HIGHWAY WORKS, HIGHWAY
CONSTRUCTION DETAILS AND
PREPARATION OF BILLS OF
QUANTITIES FOR HIGHWAY WORKS**

SUMMARY

This document provides guidance on the implementation of the May 2001 amendments to the Specification for Highway Works and Notes for Guidance on the Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works.

INSTRUCTIONS FOR USE

This is a new document to be incorporated into the manual.

1. Insert SD 9/01 into Volume 0, Section 2.
2. Archive this sheet as appropriate.

Note: A quarterly index with a full set of Volume Contents Pages is available separately from The Stationery Office Ltd.



THE HIGHWAYS AGENCY



SCOTTISH EXECUTIVE DEVELOPMENT DEPARTMENT



THE NATIONAL ASSEMBLY FOR WALES
CYNULLIAD CENEDLAETHOL CYMRU



THE DEPARTMENT FOR REGIONAL DEVELOPMENT*

Implementation of May 2001 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works

* A Government Department in Northern Ireland

Summary: This Standard introduces the May 2001 amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills for Quantities for Highway Works. Implementation requirements for the amendments are given for their use in trunk road contracts in the UK.

REGISTRATION OF AMENDMENTS

Amend No	Page No	Signature & Date of incorporation of amendments	Amend No	Page No	Signature & Date of incorporation of amendments

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**IMPLEMENTATION OF MAY 2001
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SPECIFICATION FOR HIGHWAY
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ON THE SPECIFICATION FOR
HIGHWAY WORKS, THE HIGHWAY
CONSTRUCTION DETAILS AND
PREPARATION OF BILLS OF
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1. INTRODUCTION AND IMPLEMENTATION

Introduction

1.1 This Standard introduces the May 2001 national amendments to the Specification for Highway Works (SHW) and the Notes for Guidance on Specification for Highway Works (NG), the Highway Construction Details (HCD) and the Preparation of Bills of Quantities for Highway Works (MMHW, NGMMHW, LSID).

1.2 The amendments are to be used in the preparation of documents for contracts for the construction, improvement or maintenance of trunk roads including motorways in England, Scotland, Wales and Northern Ireland. (In Northern Ireland the amended documents will be applicable to those roads designated by the Overseeing Organisation.)

1.3 This amending Standard is to be used in conjunction with:

SD 1/98 (Implementation of Specification for Highway Works and Notes for Guidance)

SD 2/92 (Implementation of Highway Construction Details)

SD 3/98 (Preparation of Bills of Quantities for Highway Works)

Annex C of SD 6/94 (Implementation of 1993 Annual Amendments to Specification for Highway Works and Notes for Guidance, Highway Construction Details and Preparation of Bills of Quantities for Highway Works)

Annex C of SD 6/95 (Implementation of 1994 Annual Amendments to Specification for Highway Works and Notes for Guidance, Highway Construction Details and Preparation of Bills of Quantities for Highway Works)

SD 6/98 (Implementation of 1998 Annual Amendments to Highway Construction Details)

SD 7/98 (Implementation of July 1998 Amendments to Specification for Highway Works, Notes for Guidance and Highway Construction Details)

SD 8/00 (Implementation of January 2000 and May 2000 Amendments to the Highway Construction Details)

Implementation

1.4 Contracts for construction, improvement or maintenance of all UK trunk roads including motorways (in Northern Ireland those roads designated by the Overseeing Organisation) shall be prepared using:

- (i) the documents contained in the Manual of Contract Documents for Highway Works (MCHW) March 1998 edition for Volumes 1 and 2, as amended in June, July and August 1998, and May 2001
- (ii) the 1991 edition for Volume 3 as amended in August 1993, August 1994, March 1998, July 1998, March 1999, January 2000, May 2000 and May 2001, and
- (iii) the March 1998 edition for Volume 4 as amended in May 2001.

Contracts for which tenders are to be invited after 1 January 2002 shall incorporate by reference the amendments implemented by this Standard, except where the preparation of a contract has reached a stage at which in the opinion of the Overseeing Organisation use of the amendments would result in significant additional expense or delay progress.

1.5 The method of incorporating the amendments to the SHW by reference in tender documents is explained in the Notes for Guidance, Series NG 000, Clause NG 000.4. The amendment to the Notes for Guidance includes a revised Schedule of Pages and Relevant Publication Dates. A model Preamble is included in the Notes for Guidance. The Preamble to the Specification and the Schedule of Pages and Relevant Publication Dates shall be reproduced unaltered and bound in the Specification with the Numbered Appendices.

1.6 The drawings from the HCD brought into the Contract by reference are to be listed in Appendix 0/4 and dated as appropriate (Clause NG 003.13 and NG Sample Appendix 0/4 in the Notes for Guidance refer).

Superseded Text and Drawings

1.7 Superseded text and drawings in the MCHW Volumes 1, 2, 3 and 4 shall be retained

- (i) for those schemes for which the Contract has already been awarded using contract documents incorporating by reference the superseded text, and
- (ii) for new schemes for which specific approval has been given to use the superseded text under paragraph 1.4 above.

In these cases, working copies of the MCHW should not have the new amendments incorporated.

1.8 Where working copies of the MCHW are maintained for use on new schemes not covered by the exceptions in paragraph 1.7 above, the superseded pages should be removed and replaced with amended pages (together with all new pages issued).

1.9 Instructions for incorporating the amendments are contained in the published amendment packages.

1.10 The Overseeing Organisations will ensure each office retains an archive copy of MCHW Volumes 1, 2, 3 and 4 incorporating the relevant amendments.

2. REFERENCES

2.1 Manual of Contract Documents for Highway Works:

Volume 0: Model Contract Document for Major Works and Implementing Requirements (MCHW 0)

Section 2: Implementing Standards

Part 1 SD 1/98 Implementation of Specification for Highway Works and Notes for Guidance

Part 2 SD 2/92 Implementation of Highway Construction Details

Part 3 SD 3/98 Preparation of Bills of Quantities for Highway Works

Part 5 SD 6/94 Implementation of 1993 Annual Amendments to Specification for Highway Works and Notes for Guidance, Highway Construction Details and Preparation of Bills of Quantities for Highway Works

Part 5 SD 6/95 Implementation of 1994 Annual Amendments to Specification for Highway Works and Notes for Guidance, Highway Construction Details and Preparation of Bills of Quantities for Highway Works

Part 7 SD 6/98 Implementation of 1998 Annual Amendments to Highways Construction Details

Part 8 SD 7/98 Implementation of July 1998 Amendments to Specification for Highway Works, Notes for Guidance, and Highway Construction Details

Part 9 SD 8/00 Implementation of January 2000 and May 2000 Amendments to the Highways Construction Details

Part 10 SD 9/01 Implementation of May 2001 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works

Volume 1: Specification for Highway Works (MCHW 1)

Volume 2: Notes for Guidance on the Specification for Highway Works (MCHW 2)

Volume 3: Highway Construction Details (MCHW 3)

Section 1: Carriageway and Other Details

Section 2: Safety Fences and Barriers

Section 3: National Motorway Communications System Installation Drawings

Volume 4: Bills of Quantities for Highway Works (MCHW 4)

Section 1: Method of Measurement for Highway Works (MMHW)

Section 2: Notes for Guidance on the Method of Measurement for Highway Works (NGMMHW)

Section 3: Library of Standard Item Descriptions (LSID)

3. ENQUIRIES

Approval of this document for publication is given by the undersigned:

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All technical enquiries or comments on this document should be sent in writing as appropriate to the above.

**Schedule of May 2001 Amendments to Volume 1 (as amended in August 1998)
Specification for Highway works**

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
000	None	000.1 001.1 002.1 004.1 Table 0/1 006.1(i)
100	105.7 The Contractor shall Provide for Rates of Sampling #117.32 & Temporary Automatic Speed Camera System 117.32NI for Enforcement of Mandatory Speed Limits at Roadworks (TASCAR) 120.3 Recovery Vehicles Shall Not be Changed 120.7 Copies of Certificates 120.23 Contractor to Consult with the Police to Establish Procedures 104.12NI Departmental Authorisation before Incorporating any Traffic Signs in the Works	102.1 #104.1-8, 10-12, 14, 17 105.1, 2, 4, 6, 7 (re-numbered) 106.1 #117.1, 25 Table 1/1 120.1, 3 (amended & re-numbered), 4 (re-numbered), 5 (amended & re-numbered), 6 (re-numbered), 7-10 (amended & re-numbered), 11 (re-numbered), 12 (re-numbered), 13-19 (amended & re-numbered) 122.2 150NAW (WO amended to NAW) 151NAW (WO amended to NAW) 152NAW (WO amended to NAW) 104.1NI-8NI, 104.10NI, 104.14NI, 104.17NI 117.1NI, 117.14NI, 117.25NI
200	202.3 Cutting Back Existing Trees, Bushes and Hedges	201.1-3, 8 (deleted), 9 (amended & re-numbered), 10 (re-numbered) 202 (title amended) 202.2
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500	516.3 Units used adjacent to porous asphalt surfacing 518 Thermoplastics Structured Wall Pipes and Fittings Table 5/9 Requirements for Structured Wall Pipe Table 5/10 Requirements for Fittings Table 5/11 Requirements for the Systems 519 Concrete Bagwork 520 The Cleaning of Existing Drainage Systems	501.1-3, 4 (sub-title amended), 5, 6, 7 Table 5/1 Table 5/2 Table 5/3 (title amended) #503.3 Table 5/3 (title amended) Table 5/4 (title amended) 504.3, 4, 6 505.3

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600	#601.12 & 601.12NI #601.19 & 601.19NI 643	Use of Recycled Aggregate Requirements for Water Soluble Sulfate Content for Recycled Aggregate Lime and Cement Stabilisation to Form Capping	#601.11, 12-17 (all re-numbered) 602.9-10, 19 603.7 608.11 612.12 613.1-3, 5, 11, 12 618 (title amended) 618.1-3, 4 (deleted), 5 (deleted), 6 (amended & re-numbered), 7-13 (deleted) 619.4 620.5 641.1 Table 6/1 Table 6/2 Table 6/5 (deleted) Table 6/6 (re-numbered) 632SE (SO amended to SE) 601.11NI 601.12 NI-17NI (re-numbered)
700 Totally Revised	701.2 706.8 706.11 & 706.15NI 709 710 Table 7/3 711 712 713 Figure 7/1 714 715 Table 7/4: 716	Contractor's Choice of Permitted Materials (was Clause 705.1) Reinstatement of Other Areas Compressed Air Cold-milling (Planing) of Bituminous Bound Flexible Pavement (from Series 900 with amendments) Testing for Constituent Materials in Recycled Coarse Aggregate and Recycled Concrete Aggregate Minimum Mass of Each Test Portion Overband and Inlaid Sealing Systems Maintenance of Arrester Beds Saw-cut and Seal Bituminous Overlays on Existing Jointed Concrete Pavements Detail of Saw-cut and Seal Groove With Sealant in Bituminous Overlay Preparation of Jointed Concrete Pavements Prior to Overlaying and Saw-cut and Seal of the Bituminous Overlay Saw-cut, Crack and Seat Existing Jointed Reinforced Concrete Pavements Saw-cut, Crack and Seat Existing Jointed Reinforced Concrete Pavements – Assessment Criteria for Acceptance of Trials and for the Main Production Work Cracking and Seating of Existing Jointed Unreinforced Concrete Pavements and CBM Roadbases	701.1 #702.6, 10 703 moved to Series 800/1000 704 moved to Series 800/900/1000 705.1 moved to Clause 701.2, 2 moved to Series 800, 3 moved to Series 800 #706.1, 3 (re-numbered), 4-6 (amended & re-numbered), 7, 8 (amended & re-numbered) #708 moved to Series 900 Figure 7/1 moved to Series 900 Figure 7/2 moved to Series 900 702.6NI, 10NI 706.1NI, 10NI, 13NI, 14NI

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2100	None	None

Series	Additional Clauses/Tables/Figures		Amended Clauses/Tables/Figures
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2300	None		2301.2
2400	None		None
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2600	None		None
3000 (New Series)	3000 3001 3002 3003 3004 3005 3006 Table 30/1 3007 3008 3009 3010 3011 3012	Landscape and Ecology General Weed Control Control of Rabbits and Deer Ground Preparation Grass Seeding, Wildflower Seeding and Turfing Planting Planting Pits, Beds and Trenches Grass, Bulbs and Wildflower Maintenance Watering Establishment Maintenance for Planting Maintenance of Established Trees and Shrubs Management of Waterbodies Special Ecological Measures	Not Applicable
Appendices (major revision to these)	Appendix A: Table A/1 Table A/2 Appendix B: Table B/1: Appendix F:	Matrix of Specification Series against Accepted Quality Management Schemes Referred to in Clause 104 Matrix of Certification Bodies Against Accepted Quality Management Schemes Including National QMSS for which Specific Accreditation is Granted by UKAS Matrix of Product Certification Bodies Against Schemes, Marked or Unmarked for Which Approval Has Been Granted by UKAS or Highways Agency Contents Page	Appendix A: (completely new text) Appendix B: (major text amendments) Appendix C: (completely amended) Appendix D: (completely amended) Appendix E: (completely amended) Appendix E (NI) (completely amended) Appendix F (major text amendments) Appendix H (major text amendments)

Schedule of May 2001 Amendments to Volume 2 (as amended in August 1998)
Notes for Guidance on the Specification for Highway works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 000	None	NG000.3 NG0002.2 Table NG 0/1, 0/2, 0/3 Schedule of pages and relevant publication dates NG Sample Appendix 0/1, 0/2, 0/3, 0/4 Sample list A
NG 100	<p>NG102.3 Frequency of Cleaning the Overseeing Organisation's Vehicles</p> <p>NG104.3-14 Development of National QMSS</p> <p>NG105.9 Contractor's Obligations for Testing</p> <p>NG117.15 & NG117.15NI Instructions for Tendering for a Temporary Automotive Speed Camera System for the Enforcement of Mandatory Speed Limits at Roadworks (TASCAR)</p> <p>Table NG 1/2 Summary of National Sector Scheme Requirements for ID/Registration/Skill Cards</p> <p>NG Sample Appendix 1/20 & 1/20NI: Sheet 2 Recovery Vehicles Daily Check Sheet Sheet 4 Vehicle Recovery Log Sheet</p> <p>NG Sample Appendix 1/26: Temporary Automotive Speed Camera System for the Enforcement of Mandatory Speed Limits at Roadworks (TASCAR)</p> <p>NG Sample Appendix 1/27: Temporary Automatic Speed Camera System for the Enforcement of Mandatory Speed Limits at Roadworks (TASCAR) - Particular Requirements</p>	<p>NG101.1</p> <p>NG103.1</p> <p>NG104.2, 3-6 (amended & re-numbered), 7 (re-numbered), 8 (re-numbered), 9 (re-numbered and amended), 10 (re-numbered), 11 (re-numbered and amended), 12-14 (re-numbered), 15 (re-numbered and amended)</p> <p>NG105.2 (re-numbered and amended), 3 (re-numbered), 4 (re-numbered and amended), 6, 9 (re-numbered), 10 (re-numbered)</p> <p>NG106.1, 2, 3, 5</p> <p>#NG110.2</p> <p>NG118.1</p> <p>NG120.1, 2</p> <p>Table NG 1/1</p> <p>NG Sample Appendix 1/1</p> <p>#NG Sample Appendix 1/2</p> <p>NG Sample Appendix 1/5</p> <p>NG Sample Appendix 1/6</p> <p>NG Sample Appendix 1/13</p> <p>NG Sample Appendix 1/17</p> <p>NG Sample Appendix 1/18</p> <p>#NG Sample Appendix 1/20</p> <p>NG Sample Appendix 1/24</p> <p>NG Sample Appendix 1/25</p> <p>NG150 NAW (WO amended to NAW)</p> <p>NG151 NAW (WO amended to NAW)</p> <p>NG152 NAW (WO amended to NAW)</p> <p>NG Sample Appendix 1/1 WO (deleted)</p> <p>NG Sample Appendix 1/13 WO (deleted)</p> <p>NG Sample Appendix 1/2NI</p> <p>NG Sample Appendix 1/20NI</p>
NG 200	None	NG201.1, 5 NG204.1 NG Sample Appendix 2/1 NG Sample Appendix 2/5
NG 300	<p>NG304.2 Advise on the Identification of Suitable Species for Preservation Treatment of Posts</p> <p>NG306.9 Options to Select Type of Fencing to Protect Planted Areas</p> <p>NG306.10 Securing Fences Against Rabbits and/or Badgers</p>	<p>NG306.3, 4</p> <p>NG308.1</p> <p>NG311.1-11</p> <p>NG Sample Appendix 3/1</p>
NG 400	None	NG401.2, 3 NG409.1 NG411.1

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 400 (cont)	None	NG Sample Appendix 4/2
NG 500	NG501.8 Performance required from Trenchless Installation NG507.4 Coatings on Castings NG516.3 Advice on Location of Class C & D Systems NG518 Thermoplastics Structured Wall Pipes and Fittings Table NG 5/1 Additional Information for Structured Wall Pipe	NG501.2, 3, 7 NG503.1 NG507.2 NG Sample Appendix 5/1 NG Sample Appendix 5/2 NG Sample Appendix 5/5 NG Sample Appendix 5/7
NG 600		NG610.4 NG618 (title amended) NG618.3 (deleted), 4 (deleted) NG630.14 NG Sample Appendix 6/1 NG Sample Appendix 6/3 NG Sample Appendix 6/7 NG Sample Appendix 6/8 NG Sample Appendix 6/9 NG632SO (SO amended to SE)
NG700 Totally Revised	NG710 Testing for Constituent Materials in Recycled Coarse Aggregate and Recycled Concrete Aggregate NG711 Overband and Inlaid Sealing Systems NG713 Saw-Cut and Seal Bituminous Overlays on Existing Jointed Concrete Pavements NG715 Saw-cut, Crack and Seat Existing Jointed Reinforced Concrete Pavements NG716 Cracking and Seating of Existing Jointed Unreinforced Concrete Pavements and CBM Roadbases NG SAMPLE APPENDIX 7/9: Cold-Milling (Planing) of Bituminous Bound Flexible Pavement NG SAMPLE APPENDIX 7/10: Worksheet Proforma for Results of Testing for Constituent Materials In Recycled Coarse Aggregate and Recycled Concrete Aggregate NG SAMPLE APPENDIX 7/11: Overband and Inlaid Sealing Systems NG SAMPLE APPENDIX 7/12: Arrester Beds NG SAMPLE APPENDIX 7/13: Saw-Cut and Seal Bituminous Overlays on Existing Jointed Concrete Pavements NG SAMPLE APPENDIX 7/14: Preparation of Jointed Concrete Pavements Prior to Overlaying and Saw-Cut and Seal of the Bituminous Overlay NG SAMPLE APPENDIX 7/15: Saw-Cut, Crack and Seat Existing Jointed Reinforced Concrete Pavements NG SAMPLE APPENDIX 7/16: Cracking and Seating Of Existing Jointed Unreinforced Concrete Pavements and CBM Roadbases	NG700.1 NG701.2, 3, 4 (deleted) NG702.1, 5 NG703 moved to Series NG1000 NG704 moved to Series NG800/NG900/NG1000 NG705 moved to Series NG800 #NG706.5 NG708 moved to Series NG900 NG Sample Appendix 7/1 NG Sample Appendix 7/2 (title and text) NG Sample Appendix 7/3 (title and text) NG Sample Appendix 7/4 (title and text) NG Sample Appendix 7/7 (title and text) NG Sample Appendix 7/8 deleted NG706.2NI NG706.4NI

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 700 (cont)	NG APPENDIX 7/17: Cracking Plant and Equipment Progress Record NG SAMPLE APPENDIX 7/18: Site Specific Details and Requirements for In Situ Recycled Foamed Bitumen Bound Material NG SAMPLE APPENDIX 7/19: Site Specific Details and Requirements for Recycled Cement Bound Material NG SAMPLE APPENDIX 7/20: Site Specific Details and Requirements for Inducing Cracks NG SAMPLE APPENDIX 7/21: Surface Dressing Recipe Specification NG SAMPLE APPENDIX 7/22: Repairs to Potholes	
NG 800 Totally Revised	#NG801.2 & NG801.3NI: Compaction (from Clause NG802 with amendment) #NG801.3-7, & NG801.4NI-8NI: Use of Surfaces by Traffic and Construction Plant (from Series NG700 with amendments) #NG801.8-10, & NG801.9NI-11NI: Frost Heave (from Series NG700 with amendments) NG803 & NG804 Sub-Clause 6: The Test Procedure Adopted for Identifying and Quantifying Constituent Materials in Recycled Coarse Aggregate or Recycled Concrete Aggregate NG803 & NG804 Sub-Clause 7: Foreign Materials Component of Recycled Coarse Aggregate or Recycled Concrete Aggregate NG805 Slag Bound Material NG806 Granular Sub-base Material Type 4	Title of Series NG800 (title amended) NG800.1 #NG801 (title amended) NG802 deleted NG803 & NG804 Sub Clauses 1, 4, 5 NG850 SE (SO amended to SE) NG850.2SE-8SE NG801NI (title amended) NG801.1 NI
NG 900 Totally Revised	NG918 Slurry Surfacing Incorporating Micro Surfacing Table NG 9/1: Minimum Sand Patch Texture Depth Requirements (or Sand Patch Equivalent) in the Nearside Wheel Track at the End of the Guarantee Period Table NG 9/2: Defect Classification : Area Table NG 9/3: Defect Classification : Linear Defects Table NG 9/4: Transverse Regularity – Requirements Table NG 9/5: Transverse Regularity - Class Limits Table NG 9/6: Longitudinal Regularity - Requirements Table NG 9/7: Longitudinal Requirements - Class Limits NG920 Bond Coats, Tack Coats and Other Bituminous Sprays	NG900.1 NG901.1, 2 NG902 (totally revised) NG903.3 (deleted) NG913 (deleted) NG918 title and entire Clause amended NG919.2, 4-10 NG919.14, 18, 19 Tables NG 9/1 - NG 9/5 (re-numbered) NG920 (title and entire Clause amended) NG922 (title and entire Clause amended) Tables NG 9/6 - NG 9/13 (re-numbered) Table NG 9/14 (deleted) NG923 (title and contents totally revised) NG924.3-5, 7 Table NG 9/15 (amended & re-numbered) NG927 deleted Tables NG 9/16 - NG 9/23 (deleted) NG928 title and entire Clause amended Table NG 9/24 (deleted) Table NG 9/25 (deleted) NG930,932,933 and 934 (title amended) NG931 deleted

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
<p>NG900 (cont)</p>	<p>TABLE NG 9/19: Minimum Sand Patch Test Texture Depth Requirements (or Sand Patch Equivalent) in the Nearside and Offside Wheel Tracks for Double and Multiple-layered Surface Dressing at the End of the Guarantee Period</p> <p>NG928 Determination of the Complex Shear (Stiffness) Modulus (G*) and Phase Angle (δ) of Bituminous Binders Using a Dynamic Shear Rheometer (DSR)</p> <p>NG935 High Modules Base Roadbase</p> <p>NG936 High Modules Base Basecourse</p> <p>NG937 Stone Mastic Asphalt Binder Course and Regulating Course</p> <p>Table NG 9/23: Wheel-tracking Limits</p> <p>NG942 Thin Surface Course Systems</p> <p>Table NG 9/26: Site Stress Level Classifications</p> <p>Table NG 9/27: Classification of Sites by Traffic and Stress Condition</p> <p>Table NG 9/28: Wheel Tracking Levels</p> <p>Table NG 9/29: Road/Tyre Noise Levels</p> <p>NG939.7 Measured Parameters to be Used</p> <p>Table NG 9/30: Nominal Installation Depth Classifications</p> <p>Table NG 9/31: Sand-Patch Texture Levels</p> <p>NG944 Design, Testing and Compliance of Performance Specified Roadbase</p> <p>Table NG 9/34: Characteristics Stiffness Modulus Values</p> <p>NG945 Weather Conditions for Laying Bituminous Material (from Series 700)</p> <p>NG946 China Clay Sand Asphalt Roadbase</p> <p>NG947 Slate Macadam Roadbase</p> <p>NG948 Cold Recycled Bitumen Bound Material</p>	<p>NG939.5, 7 (amended & re-numbered), 8 (re-numbered)</p> <p>Table NG 9/26 (re-numbered)</p> <p>Table NG 9/27 (re-numbered)</p> <p>NG942 (title and entire Clause amended)</p> <p>NG943.1, 26, 30, 31</p> <p>Table NG 9/28 (re-numbered)</p> <p>Table NG 9/29 (re-numbered)</p> <p>NG911SE (SO amended to SE)</p> <p>Table NG 9/1SE (SO amended to SE)</p>
<p>NG 1000</p>	<p>NG1001.22 Determination of Maximum Allowable Proportion of Recycled Coarse Aggregate or Recycled Concrete Aggregate</p> <p>NG1001.23 Method of Test for Chloride Content in Recycled Coarse and Concrete Aggregates</p> <p>NG1016, NG1017 sub-Clause 8: Avoidance of Contrasting Colour of Joint Sealant and Pavement</p> <p>NG1045 Weather Conditions for Laying of Cementious Materials (from Series NG700)</p> <p>NG1046 Cold Recycled Cement Bound Material</p> <p>NG1047 Induced Cracking of Cement and Hydraulically Bound Material</p> <p>NG1048 Use of Surfaces by Traffic and Construction Plant (from Series NG700)</p>	<p>NG1000.1, 2</p> <p>NG1001 (title amended)</p> <p>NG1001.4, 5, 20, 21</p> <p>NG1007 (title amended)</p> <p>NG1007.1</p> <p>NG1009.4</p> <p>Table NG 10/1</p> <p>NG1011, NG1012, NG1019 sub-Clauses 4, 5</p> <p>NG1016, NG1017, sub-Clause 8</p> <p>NG1035.7, 15</p> <p>NG 1042</p> <p>NG1043 (title amended)</p> <p>NG1044.3, 7</p> <p>NG Sample Appendix 10/1</p>

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 1100	#NG Sample Appendix 11/2 and 11/2NAW: Access Steps NG1110NAW: Access Steps	NG Sample Appendix 11/1
NG 1200	NG1212.7 Functional Life of a Road Marking NG1212.8 Relevant Luminance Factors	NG1201.2 NG1202.2 NG1212.2, 3, 5, 6, 7-9 (re-numbered and amended) NG1212.10, 11 NG1213.1-4 NG1216.1 NG1217.8 NG1219.3 NG1221.1 #NG Sample Appendix 12/1 NG Sample Appendix 12/3 NG Sample Appendix 12/1NAW NG Sample Appendix 12/1NI
NG 1300	NG1305.1 Installation of Planted Root Columns NG Sample Appendix 13/4: Information to be Provided When Specifying CCTV Masts Appendix 13/5: Typical CCTV Mast Data Sheet Appendix 13/6: Instructions for Completion of CCTV Data Sheets	Title of Series NG1300 NG1301.1, 2, 6 NG1302 (title amended) NG1302.1, 3 NG1303.1 NG1304.1 NG1305.1 (amended & re-numbered), 2 (re-numbered), 3 (amended & re-numbered), 4 (re-numbered), 5 (re-numbered) NG1307.1-3 NG1309 (title amended) NG1310 (title amended) NG1310.1-3 NG1313 (title amended) #NG Sample Appendix 13/1 Sample Appendix 13/2 (title & contents) Sample Appendix 13/3 (title & contents) NG Sample Appendix 13/1NI
NG 1400	None	NG1404.1 NG1410 (title amended) NG1412.1 NG Sample Appendix 14/1 NG Sample Appendix 14/2 NG Sample Appendix 14/4
NG 1500	None	Content Sheet : Note to cover the applicability of the Series NG1500 to the NAW is added. NG1501.2 NG1507.4, 5 NG1508.1 NG1510.1 NG1516 (title amended) NG1530.1 NG1531.1, 2 NG1532.1, 2, 3 NG Sample Appendix 15/1 NG Sample Appendix 15/2
NG 1600	None	None
NG 1700	NG1704.6 Buried Concrete Exposed to Sulfates Table NG17/2: Structural Performance Level of Buried Concrete NG1709.5 Protective Measures NG1709.8 Disposal of Silane	NG1701.1, 5 NG1702.2(iv) #NG1703.3(ii) #NG1704.2, 5 NG1705.1

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 1700 (cont)	NG1709.9 Materials Testing NG1711.7 Duct Assembly Verification Test NG1711.8 Expanding Grout Admixtures Appendix 17/5: NG1709.1-3, 5, 6 (amended & re-numbered) Buried Concrete - Sulfate Attack Appendix 17/6: NG1711 (title amended) Grouting and Duct Systems for Post-tensioned Tendons	NG1706.3, 4(iii) NG1707.2(i), (iv) NG1708.3, 4(ii) NG1710.1, 4(ii), 5(i), 5(iii)(c), 8 NG1711.1-4 NG1712.1 (deleted), NG1712.2 (amended & re-numbered) NG1713.1, 2 NG1714.1 NG1715.1 NG1717.1 NG1719.1 NG1720.1 NG1722.1 NG1724.2, 4(i), 4(iii) NG1725.3 NG1727.2(i),2(ii) 4 NG Sample Appendix 17/4 NG1703SE (SO amended to SE) NG1703.3(i)SE
NG 1800	None	NG1801.1 NG Sample Appendix 18/1
NG 1900 Totally Revised	NG1912SE Testing of Paints NG1918SE Form HA/P1 (New Works) Paint System Sheet (Appendix 19/1) Form HA/P2 Paint Data Sheet (Appendix 19/3) Appendix 19/4SE: Form SEDD/P3 Paint Sample Despatch List NG1912NI Testing of Paints Appendix 19/4NI: Form HA/P3 Paint Sample Despatch List	NG1901.1-5, 6-18 (deleted) NG1902.5, 8 #NG1903.1-3, 5, 8, 9, 11, 12, 17 NG1904 to NG1912 amended and re-ordered NG1913.2, 3, 5 NG1914.1, 3, 4, 7-12 NG1915.3 NG1916.2, 5, 6 NG1917.1, 2 #NG1918 (title amended) NG1918.1, 2 NG1920.1, 2 NG1921.1-3 NG Sample Appendix 19/1 (amended title and text) NG Sample Appendix 19/2 (amended title and text) NG Sample Appendix 19/3 (amended title and text) Appendix 19/4 (amended title and text) NG Sample Appendix 19/5 (amended title and text) NG Sample Appendices 19/6-19/10 deleted NG1910SO deleted NG1918SO deleted NG Sample Appendix 19/6SO deleted NG Sample Appendix 19/7SO deleted NG1903.1NI-3NI, 5NI, 8NI, 9NI, 11NI, 12NI NG1910NI deleted NG Sample Appendix 19/6NI deleted NG Sample Appendix 19/7NI deleted
NG 2000	NG2001.7 Outguassing NG2008 Repair and Replacement of Bridge Deck Waterproofing	NG2001.5, 6 NG2003.1-4 NG2005.2, 5-12 (deleted), 13 (amended & re-numbered), 14 (re-numbered), 15 (re-numbered), 16-18 (amended & re-numbered) NG Sample Appendix 20/1 (title & contents amended) NG Sample Appendix 20/2 deleted

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 2100	None	NG2101.2 NG Sample Appendix 21/1
NG 2200	NG2203.3 Consequences of Cutting the Reinforcement NG2203.4 BBA/HAPAS Roads and Bridges Certification	NG2202.1,2 NG2204 (amended title) NG2204.4-6 NG Sample Appendix 22/1
NG 2300	None	NG Sample Appendix 23/1
NG 2400	None	None
NG 2500	NG2504.17 Mechanical Performance and Stability of Complete Barrier Systems NG2504.18 General Safety and Environmental Protection Features of Complete Barrier Systems NG2505 Drainage Structures NG2506 Buried Ridge Pipes for Drainage Structures NG Sample Appendix 25/5: Requirements for Buried Rigid Pipes for Drainage Structures	NG2504.14, 15 NG Sample Appendix 25/2 NG Sample Appendix 25/4 NG Sample Appendix 25/5
NG 2600	None	None
NG 3000 New Series NG	NG 3001 General NG 3002 Weed Control NG 3003 Control of Rabbits and Deer NG 3004 Ground Preparation NG 3005 Grass Seeding, Wildflower Seeding and Turfing NG 3006 Planting NG 3007 Grass, Bulbs and Wildflower Maintenance NG 3008 Watering NG 3009 Establishment Maintenance for Planting NG 3010 Maintenance of Established Trees and Shrubs NG 3011 Management of Waterbodies NG 3012 Special Ecological Measures NG Sample Appendix 30/1: General NG Sample Appendix 30/2 : Weed Control NG Sample Appendix 30/3 : Control of Rabbits and Deer NG Sample Appendix 30/4 : Ground Preparation NG Sample Appendix 30/5 : Grass seeding, Wildflower Seeding and Turfing NG Sample Appendix 30/6 : Planting NG Sample Appendix 30/7 : Grass, Bulbs and Wildflower Maintenance NG Sample Appendix 30/8 : Watering NG Sample Appendix 30/9 : Establishment Maintenance for Planting NG Sample Appendix 30/10 : Maintenance of Established Trees and shrubs NG Sample Appendix 30/11 : Management of Waterbodies NG Sample Appendix 30/12 : Special Ecological Measures	
Annex 1	Contents page	Completely amended

**Schedule of May 2001 Amendments to Volume 3, Sections 1 and 2 (as amended in May 2000)
 Highway Construction Details**

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C	-	C1, C2, C3, C4, C5, C6, C7/1, C7/2, C7/3, C8/1, C8/2, C/18, C/20
D	-	D1, D2, D3, D4, D5, D6, D7 (not used)
E	-	-
F	F25, F26, F27, F28	F3, F4, F5, F6, F7, F8 (not used), F9, F10, F11, F12
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H	H39, H40, H41, H42, H43, H44, H45, H46 (sheet 1 of 3) H47 (sheet 2 of 3), H48 (sheet 3 of 3)	H1, H2, H5, H8, H13, H14, H26
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(MCX 0070 to MCX 0130 not used)		MCX 0153 Sheet 1	H
MCX 0131 Sheet 1	L	MCX 0153 Sheet 2	D
MCX 0131 Sheet 2 to Sheet 3 inclusive	F	MCX 0154 Sheet 1	L
MCX 0132 Sheet 1	L	(MCX 0155 not used)	
MCX 0132 Sheet 2	M	MCX 0156 Sheet 1	N
MCX 0132 Sheet 3	G	MCX 0156 Sheet 2	L
MCX 0132 Sheet 4 to Sheet 5 inclusive	H	MCX 0156 Sheet 3 to Sheet 4 inclusive	K
MCX 0132 Sheet 6	D	MCX 0156 Sheet 5	G
MCX 0132 Sheet 7 to Sheet 8 inclusive	B	MCX 0157 Sheet 1	G
(MCX 0133 not used)		MCX 0157 Sheet 2	F
MCX 0134 Sheet 1	L	MCX 0157 Sheet 3	G
MCX 0135 Sheet 1	G	MCX 0157 Sheet 4	F
MCX 0135 Sheet 2	F	MCX 0157 Sheet 5	G
MCX 0135 Sheet 3	E	MCX 0157 Sheet 6	E
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MCX 0137 Sheet 1	H	(MCX 0161 to MCX 0162 not used)	
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MCX 0138 Sheet 2	D	MCX 0164 Sheet 1	G
MCX 0139 Sheet 1	H	MCX 0164 Sheet 2	H
MCX 0140 Sheet 1	N	MCX 0164 Sheet 3	F
MCX 0141 Sheet 1	M	MCX 0165 Sheet 1	F
MCX 0142 Sheet 1	K	MCX 0165 Sheet 2	H
MCX 0142 Sheet 2	J	MCX 0165 Sheet 3	F
MCX 0142 Sheet 3	H	MCX 0165 Sheet 4	B
MCX 0142 Sheet 4	G	(MCX 0166 to MCX 0169 not used)	
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MCX 0144 Sheet 1 to Sheet 2 inclusive	G	MCX 0170 Sheet 2	L
MCX 0144 Sheet 3	D	MCX 0170 Sheet 3	G
MCX 0144 Sheet 4	C	MCX 0170 Sheet 4 to Sheet 5 inclusive	C
MCX 0145 Sheet 1	N	MCX 0170 Sheet 6	B
MCX 0145 Sheet 2	J	MCX 0170 Sheet 7 to Sheet 8 inclusive	C
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MCX 0146 Sheet 1	J	MCX 0171 Sheet 2	D
MCX 0147 Sheet 1	K	(MCX 0172 to MCX 0305 not used)	
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MCX 0147 Sheet 3	C	MCX 0306 Sheet 3	F
(MCX 0148 not used)		(MCX 0307 to MCX 0336 not used)	
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MCX 0149 Sheet 2	E	MCX 0337 Sheet 2	G
MCX 0150 Sheet 1	F	MCX 0337 Sheet 3	E
MCX 0151 Sheet 1	J	MCX 0337 Sheet 4	D
MCX 0151 Sheet 2	H	MCX 0337 Sheet 5	H
MCX 0151 Sheet 3	J	MCX 0337 Sheet 6	F
MCX 0151 Sheet 4 to Sheet 5 inclusive	F	MCX 0337 Sheet 7 to Sheet 8 inclusive	D
MCX 0151 Sheet 6	C	MCX 0337 Sheet 9 to Sheet 10 inclusive	B
MCX 0151 Sheet 7	D	MCX 0337 Sheet 11 to Sheet 12 inclusive	A

Drawing Number	Issue	Drawing Number	Issue
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MCX 0339 Sheet 3	E	MCX 0592 Sheet 2 to Sheet 4 inclusive	C
MCX 0339 Sheet 4	D	(MCX 0593 not used)	
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MCX 0426 Sheet 1 to Sheet 2 inclusive	F	(MCX 0595 to MCX 0601 not used)	
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MCX 0486 Sheet 1	E	(MCX 0603 to MCX 0722 not used)	
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MCX 0490 Sheet 1 to Sheet 3 inclusive	G	MCX 0810 Sheet 1	C
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MCX 0582 Sheet 2 to Sheet 4 inclusive	A	MCX 0824 Sheet 1	C
MCX 0583 Sheet 1	H	(MCX 0825 to MCX 0829 not used)	
MCX 0583 Sheet 2	G	MCX 0830 Sheet 1	C
MCX 0583 Sheet 3 to Sheet 4 inclusive	H	MCX 0831 Sheet 1	C
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MCX 0583 Sheet 9 to Sheet 10 inclusive	B	MCX 0832 Sheet 2	C
MCX 0583 Sheet 11	C	MCX 0833 Sheet 1	D
MCX 0584 Sheet 1	J	MCX 0833 Sheet 2 to Sheet 3 inclusive	C
MCX 0584 Sheet 2	H	MCX 0834 Sheet 1 to Sheet 6 inclusive	C
MCX 0584 Sheet 3 to Sheet 5 inclusive	J	MCX 0834 Sheet 7 to Sheet 10 inclusive	D
MCX 0584 Sheet 6	G	(MCX 0835 to MCX 0850 not used)	
MCX 0584 Sheet 7	H	MCX 0851 Sheet 1	C
MCX 0584 Sheet 8 to Sheet 9 inclusive	F	MCX 0851 Sheet 2	D
MCX 0584 Sheet 10	E	MCX 0851 Sheet 3 to Sheet 4 inclusive	C
(MCX 0585 to MCX 0586 not used)		MCX 0852 Sheet 1	D
MCX 0587 Sheet 1 to Sheet 3	B	MCX 0853 Sheet 1 to Sheet 3 inclusive	C
MCX 0587 Sheet 4	A	MCX 0854 Sheet 1 to Sheet 3 inclusive	C
(MCX 0588 to MCX 0589 not used)		(MCX 0855 to MCX 0860 not used)	
MCX 0590 Sheet 1	F		

Drawing Number	Issue
MCX 0861 Sheet 1 to Sheet 3 inclusive	C
MCX 0862 Sheet 1 to Sheet 3 inclusive	C
MCX 0863 Sheet 1	D
MCX 0864 Sheet 1 to Sheet 3 inclusive	C
MCX 0864 Sheet 4	D
MCX 0864 Sheet 5	C
MCX 0864 Sheet 6 to Sheet 7 inclusive (MCX 0865 to MCX 0870 not used)	D
MCX 0871 Sheet 1	D
MCX 0871 Sheet 2 to Sheet 3 inclusive	C
MCX 0872 Sheet 1	C
MCX 0873 Sheet 1	D
MCX 0873 Sheet 2	B
(MCX 0874 to MCX 0898 not used)	
MCX 0899 Sheet 1	D

**Schedule of May 2001 Amendments to Volume 4 (dated March 1998)
Bill of Quantities for Highway works**

Section 1: Method of Measurement for Highway Works

Chapter	Series	Additional Paragraph/Tables		Amended Paragraphs/Tables
I		None		None
II		None		1(b)
III	Preparation of Bill of Quantities	9	Landscape and Ecology Table 5 Series 3000 Landscape and Ecology Staged Payment Schedule Table 6 Factors for Bituminous Regulating Course Measured by Tonne	3 10 (Renumbered) Table 1
	Preamble to Bill of Quantities	18 19	Testing Landscape and Ecology	2 15 20 (Renumbered)
IV	100	23 35 37 39 48 49 50 51 52 53 54 55	Traffic Safety and Management for Landscape and Ecology Measurement of Recovery Vehicles Establishment of Recovery Vehicles Removal of Recovery Vehicles Maintenance of Temporary CCTV Removal of Temporary CCTV Temporary Automatic Speed Camera System for the Enforcement of Mandatory Speed Limits at Roadworks	7 8 14 20 21 22 24 (Renumbered) 25 (Renumbered & Amended) 26 (Renumbered & Amended) 27 (Renumbered & Amended) 28 (Renumbered) 29 (Renumbered) 30 (Renumbered) 31 (Renumbered) 32 (Renumbered) 33 (Renumbered) 34 (Renumbered & Amended) 36 (Renumbered & Amended) 38 (Renumbered & Amended) 40 (Renumbered) 41 (Renumbered) 42 (Renumbered) 43 (Renumbered) 44 (Renumbered & Amended) 45 (Renumbered & Amended) 46 (Renumbered & Amended) 47 (Renumbered & Amended)
	200	7	Partial Demolition of Individual Structures	1 2 3 4 5 6 Heading above Paragraph 8 8 (Renumbered & Amended) 9 (Renumbered & Amended) 10 (Renumbered & Amended) 11 (Renumbered & Amended) 11 Side Heading

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
IV (contd)	300	13 14 15 16 Excavation in Hard Material	Series Heading 1 2 3 4 5 5 Side Heading 6 7 8 9 11 11 Side Heading
	400	47 48 49 50 Loading Tests on Post Foundations	5 12 13 28 35 36 41 46
	500	1 2 3 4 24 60 62 77 78 79 80 81 82 83 84 Definition of Drain Drains Exceeding 900mm diameter Trenches and Ducts for Road Lighting and Traffic Signs Cabling Trenches and Ducts for Motorway Communication Cabling Excavate and Replace Filter Material Definition of Covers and Gratings Measurement of Raising and Lowering of Cover or Grating Concrete Bagwork Cleaning Existing Drainage Systems	5 (Renumbered) 6 (Renumbered) 7 (Renumbered) 8 (Renumbered) 9 (Renumbered & Amended) 10 (Renumbered & Amended) 11 (Renumbered & Amended) 12 (Renumbered) 13 (Renumbered) 14 (Renumbered & Amended) 15 (Renumbered & Amended) 16 (Renumbered & Amended) 17 (Renumbered & Amended) 18 (Renumbered) 19 (Renumbered & Amended) 20 (Renumbered & Amended) 21 (Renumbered & Amended) 22 (Renumbered & Amended) 23 (Renumbered & Amended) 25 (Renumbered) 26 (Renumbered) 27 (Renumbered) 28 (Renumbered & Amended) 29 (Renumbered & Amended) 30 (Renumbered & Amended) 31 (Renumbered & Amended) 32 (Renumbered & Amended) 33 (Renumbered) 34 (Renumbered) 35 (Renumbered)

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
IV (contd)	500 (contd)		36 (Renumbered) 37 (Renumbered & Amended) 38 (Renumbered & Amended) 39 (Renumbered & Amended) 40 (Renumbered & Amended) 41 (Renumbered & Amended) 42 (Renumbered & Amended) 43 (Renumbered) 44 (Renumbered & Amended) 45 (Renumbered) 46 (Renumbered & Amended) 47 (Renumbered & Amended) 48 (Renumbered) 49 (Renumbered) 50 (Renumbered) 51 (Renumbered) 52 (Renumbered) 53 (Renumbered) 54 (Renumbered) 55 (Renumbered & Amended) 56 (Renumbered) 57 (Renumbered & Amended) 58 (Renumbered) 59 (Renumbered & Amended) 61 (Renumbered & Amended) 63 (Renumbered & Amended) 64 (Renumbered & Amended) 65 (Renumbered) 66 (Renumbered) 67 (Renumbered) 68 (Renumbered & Amended) Heading above Paragraph 69 69 (Renumbered & Amended) 70 (Renumbered & Amended) 71 (Renumbered & Amended) 72 (Renumbered & Amended) 73 (Renumbered) 74 (Renumbered & Amended) 75 (Renumbered) 76 (Renumbered)
	600		10 (New Side Heading) 12 13 18 36 43 45 56 65 72 78 80 82 (Renumbered) 83 (Renumbered) 84 (Renumbered) 85 (Renumbered) 86 (Renumbered) 87 (Renumbered & Amended) 88 (Renumbered)

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
IV (contd)	600 (contd)		89 (Renumbered & Amended) 90 (Renumbered) 91 (Renumbered) 92 (Renumbered) 93 (Renumbered & Amended) 94 (Renumbered) 95 (Renumbered) 96 (Renumbered) 97 (Renumbered) 98 (Renumbered) 99 (Renumbered) 100 (Renumbered) 101 (Renumbered) 102 (Renumbered) 103 (Renumbered) 104 (Renumbered) 105 (Renumbered) 106 (Renumbered) 107 (Renumbered) 108 (Renumbered & Amended) 109 (Renumbered) 110 (Renumbered) 111 (Renumbered) 112 (Renumbered) 113 (Renumbered) 114 (Renumbered) 115 (Renumbered) 116 (Renumbered) 117 (Renumbered) 118 (Renumbered) 119 (Renumbered) 120 (Renumbered) 121 (Renumbered) 122 (Renumbered) 123 (Renumbered) 124 (Renumbered & Amended) 125 (Renumbered) 126 (Renumbered) 127 (Renumbered) 128 (Renumbered) 129 (Renumbered) 130 (Renumbered) 131 (Renumbered) 132 (Renumbered) 133 (Renumbered) 134 (Renumbered) 135 (Renumbered) 136 (Renumbered) 137 (Renumbered) 138 (Renumbered) 139 (Renumbered) 140 (Renumbered & Amended) 141 (Renumbered) 142 (Renumbered) 143 (Renumbered) 144 (Renumbered) 145 (Renumbered) 146 (Renumbered) 147 (Renumbered) 148 (Renumbered)

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
IV (contd)	600 (contd)		149 (Renumbered & Amended) 150 (Renumbered & Amended) 151 (Renumbered) 152 (Renumbered) 153 (Renumbered) 154 (Renumbered) 155 (Renumbered & Amended) 156 (Renumbered) 157 (Renumbered) 158 (Renumbered) 159 (Renumbered) 160 (Renumbered) 161 (Renumbered & Amended) 162 (Renumbered) 163 (Renumbered) 164 (Renumbered) 165 (Renumbered) 166 (Renumbered) 167 (Renumbered) 168 (Renumbered) 169 (Renumbered) 170 (Renumbered) 171 (Renumbered) 172 (Renumbered) 173 (Renumbered) 174 (Renumbered) 175 (Renumbered) 176 (Renumbered) 177 (Renumbered) 83NI (Renumbered)
	700	40 Measurement of Saw Cutting Grooves 41 Measurement of Sealing Grooves 44 Item Coverage for Saw Cutting Grooves and Sealing Grooves 45 Full Depth Repairs and Bay 46 Replacement Repairs to Existing 47 Concrete Carriageways 48 49 Saw Cutting, Cracking and Seating 50 Existing Jointed, Reinforced 51 Concrete Pavement 52 53 54 55 56 57 58 59 60 Cracking and Seating of Existing 61 Jointed Unreinforced Concrete 62 Pavement and CBM Roadbase 63 64 65 66	5 8 9 18 28 32 34 36 Heading above Paragraph 37 37 42 (Renumbered & Amended) 43 (Renumbered & Amended)

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
IV (cont)	700 (cont)	67 68 69 70 Overbanding and Inlaid Crack Sealing Repair Systems 71 72 73 74 Maintenance of Arrester Beds 75 76 77 Repairs and Patching 78 79 80 81	
	1100		Heading above Paragraph 1 1 2 3 4 4 Side Heading Heading above Paragraph 5 5 6 7 8 8 Side Heading Heading above Paragraph 9 9 10 11 12 12 Side Heading 17 21 Heading above Paragraph 23 23 24 25 26 26 Side Heading 30
	1200	26 Definition of Network	2 4 5 Heading above Paragraph 19 19 20 21 22 Side Heading 22 Heading above Paragraph 23 23 24 25 Heading above Paragraph 26

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
IV (cont)	1200 (cont)		27 (Renumbered & Amended) 28 (Renumbered & Amended) 29 (Renumbered & Amended) 30 Side Heading 30 (Renumbered & Amended) 31 (Renumbered & Amended) 32 (Renumbered & Amended) 33 (Renumbered & Amended) 34 (Renumbered & Amended) 35 (Renumbered & Amended) 36 (Renumbered & Amended) 37 (Renumbered) 38 (Renumbered) 39 (Renumbered & Amended) 40 (Renumbered) 41 (Renumbered) 42 (Renumbered) 43 (Renumbered) 44 (Renumbered) 45 (Renumbered)
	1300	None	Series Heading Heading above Paragraph 1 1 2 3 4 Side Heading 4
	1400	5 Trench for Cable or Duct 6 7 8 9 Cable and Duct 10 11 12	2 3 13 (Renumbered) 14 (Renumbered & Amended) 15 (Renumbered & Amended) 15 Side Heading 16 (Renumbered) 17 (Renumbered) 18 (Renumbered) 19 (Renumbered & Amended) 20 (Renumbered) 21 (Renumbered) 22 (Renumbered & Amended) 23 (Renumbered & Amended) 24 (Renumbered) 25 (Renumbered) 26 (Renumbered) 27 (Renumbered & Amended) 28 (Renumbered) 29 (Renumbered) 30 (Renumbered) 31 (Renumbered) 32 (Renumbered & Amended)
	1500	5 Trench for Communications Cable or Duct 6 7 8 9 Communication Cable and Communication 10 Duct	2 3 4 12 13 (Renumbered) 14 (Renumbered & Amended)

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
IV (cont)	1500 (cont)	11 12	15 (Renumbered & Amended) 16 (Renumbered) 17 (Renumbered) 18 (Renumbered) 19 (Renumbered) 20 (Renumbered) 21 (Renumbered) 22 (Renumbered & Amended) 23 (Renumbered & Amended) 24 (Renumbered) 25 (Renumbered & Amended) 26 (Renumbered) 27 (Renumbered & Amended) 28 (Renumbered) 29 (Renumbered & Amended) 30 (Renumbered) 31 (Renumbered & Amended) 32 (Renumbered) 33 (Renumbered) 34 (Renumbered) 35 (Renumbered) 36 (Renumbered) 37 (Renumbered) 38 (Renumbered) 39 (Renumbered) 40 (Renumbered & Amended) 41 (Renumbered & Amended) 42 (Renumbered) 43 (Renumbered) 44 (Renumbered) 45 (Renumbered) 46 (Renumbered & Amended)
	1600	52 Steel Sheet Piles Measurement Rule	14 16 18 23 24 28 38 39 44 53 (Renumbered) 54 (Renumbered) 55 (Renumbered) 56 (Renumbered) 57 (Renumbered) 58 (Renumbered) 59 (Renumbered) 60 (Renumbered) 61 (Renumbered) 62 (Renumbered) 63 (Renumbered) 64 (Renumbered) 65 (Renumbered) 66 (Renumbered & Amended) 67 (Renumbered) 68 (Renumbered)

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
IV (cont)	1600 (cont)		69 (Renumbered) 70 (Renumbered & Amended) 71 (Renumbered) 72 (Renumbered) 73 (Renumbered) 74 (Renumbered & Amended) 75 (Renumbered) 76 (Renumbered) 77 (Renumbered) 78 (Renumbered & Amended) 79 (Renumbered) 80 (Renumbered) 81 (Renumbered) 82 (Renumbered) 83 (Renumbered) 84 (Renumbered) 85 (Renumbered) 86 (Renumbered) 87 (Renumbered) 88 (Renumbered) 89 (Renumbered) 90 (Renumbered) 91 (Renumbered) 92 (Renumbered & Amended) 93 (Renumbered) 94 (Renumbered) 95 (Renumbered) 96 (Renumbered)
	1700	1 Note Measurement of Surface Impregnation of Concrete	2 (Renumbered) 3 (Renumbered) 4 (Renumbered) 5 (Renumbered & Amended) 6 (Renumbered) 7 (Renumbered & Amended) 8 (Renumbered & Amended) 9 (Renumbered & Amended) 10 (Renumbered & Amended) 11 (Renumbered) 12 (Renumbered) 13 (Renumbered) 14 (Renumbered) 15 (Renumbered) 16 (Renumbered & Amended) 17 (Renumbered) 18 (Renumbered) 19 (Renumbered) 20 (Renumbered) 21 (Renumbered & Amended) 22 (Renumbered) 23 (Renumbered) 24 (Renumbered) 25 (Renumbered) 26 (Renumbered) 27 (Renumbered) 28 (Renumbered) 29 (Renumbered) 30 (Renumbered) 31 (Renumbered)

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
IV (cont)	1700 (cont)		32 (Renumbered) 33 (Renumbered) 34 (Renumbered) 35 (Renumbered) 36 (Renumbered) 37 (Renumbered & Amended) 38 (Renumbered & Amended) 39 (Renumbered)
	1800	None	6 9 14
	1900	None	4
	2000	9 Removal of Existing 10 Waterproofing 11 12	4 8
	2100	None	None
	2200	None	None
	2300	None	None
	2400	None	4 8
	2500	None	4
	2700	Heading above Paragraph 1 Heading above Paragraph 2 2 Provisional Sums Heading above Paragraph 3 3 Prime Cost Items	1
	3000	Complete New Series	

Section 2: Notes for Guidance on the Method of Measurement for Highway Works

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
I, II & III		None	3 (Renumbered & Amended) 4 (Renumbered & Amended) 5 (Renumbered) 6 (Renumbered & Amended) 7 (Renumbered) 8 (Renumbered) 9 (Renumbered)

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
IV	100	7	5
	200	2 General Site Clearance	3 (Renumbered & Amended) 4 (Renumbered)
	300	None 2	3 (Deleted)
	400	None	None
	500	None	Tabulated Drainage Example No 1 Chambers Example No 2
	600	16 Imported Topsoil and Topsoiling 17 Surcharge Material	7 9 15 Typical Roadworks Earthworks Schedule Typical Structures Earthworks Schedule
	700	6 Breaking Up or Perforation of Redundant Pavement	Heading above Paragraph 4 4 5
	1100	2 Bituminous and Cement Bound Regulating	None
	1200	3 Traffic Signal Installations Network Cabling	1
	1400	None	None
	1500	5 National Alterations of the Overseeing Organisations of Scotland, Wales and Northern Ireland	1
	1600	None	None
	1700	None	None
	1800	None	None
	2000	None	None
	2200	None	None
	2400	None	None
	2500	6 Drains Exceeding 900mm Internal Diameter, Box Culverts and Piped Culverts	None
	2600	None	None
	2700	2 Provisional Quantities, Provisional Sums, Daywork Schedules and Prime Cost Sums	None
3000	Complete New Series		

Section 3: Library of Standard Item Descriptions for Highway Works

Chapter	Series	Additional Paragraph/Tables		Amended Paragraphs/Tables
-	Introduction			1
-	100	<p>Root Narrative Item 16</p> <p>Root Narrative Item 22</p> <p>Root Narrative Item 23</p> <p>Root Narrative 29 and 30</p> <p>Root Narrative 31 to 33</p>	<p>Traffic Safety and Management for Landscape and Ecology</p> <p>Maintenance of Recovery Vehicle</p> <p>Removal of Recovery Vehicle</p> <p>Maintenance and Removal Items of CCTV System for the Monitoring of Traffic</p> <p>Installation, Maintenance Items and Removal of Automatic Speed Camera System for the Enforcement of Mandatory Speed Limits at Roadworks</p>	<p>Unit - Item 11</p> <p>Unit - Item 13</p> <p>Root Narrative Item 17 (Renumbered)</p> <p>Root Narrative Item 18 (Renumbered)</p> <p>Root Narrative Item 19 (Renumbered)</p> <p>Root Narrative Item 20 (Renumbered)</p> <p>Root Narrative Item 21 (Renumbered and amended)</p> <p>Root Narrative Item 24 (Renumbered)</p> <p>Root Narrative Item 25 (Renumbered)</p> <p>Root Narrative Item 26 (Renumbered)</p> <p>Root Narrative Item 27 (Renumbered)</p> <p>Root Narrative Item 28 (Renumbered and amended)</p> <p>Variable Group 5</p>
-	200	<p>Root Narrative Item 5</p> <p>Root Narrative 11</p> <p>Variable Group 10</p>	<p>Partial Demolition of Individual Structures</p> <p>Take Up or Down and Set Item Aside Safety Barriers/ Pedestrian Guardrails</p> <p>Safety Barriers/Pedestrian Guardrails</p>	<p>Heading above Item 6</p> <p>Root Narrative Items 6 to 10 (Renumbered and amended)</p> <p>Root Narrative Items 12 to 16 (Renumbered and amended)</p> <p>Variable Group 2 (Renumbered and amended)</p> <p>Variable Group 3 to 6 (Renumbered)</p> <p>Variable Group 7 (Renumbered and amended)</p> <p>Variable Group 8 to 16 (Renumbered)</p> <p>Variable Group 17 (Renumbered and amended)</p> <p>Variable Group 18 to 20 (Renumbered)</p>
-	300	<p>Root Narrative Item 9</p> <p>Root Narrative Item 10</p> <p>Root Narrative Item 11</p> <p>Root Narrative Item 12</p>	<p>Wire Mesh to Existing Rail Fence</p> <p>Wire Mesh to Existing Chain Link and Other Fence</p> <p>Wire Mesh to Existing Gate</p> <p>Fenced Tree Guards</p>	<p>Series Title</p> <p>Root Narrative Item 4</p> <p>Root Narrative Item 5</p> <p>Root Narrative Item 6</p> <p>Root Narrative Item 7</p> <p>Root Narrative Item 8</p> <p>Root Narrative Item 13 (Renumbered)</p> <p>Root Narrative Item 14 (Renumbered)</p> <p>Root Narrative Item 15 to 19 (Renumbered and amended)</p> <p>Root Narrative Original Item</p>

Chapter	Series	Additional Paragraph/Tables		Amended Paragraphs/Tables
-	300 (cont)	Root Narrative Item 20	Excavation in Hard Material	16 (Deleted) Root Narrative Original Item 17 (Deleted) Variable Group 11 Variable Original Group 14 (Deleted) Variable Group 14 (Renumbered) Variable Group 15 (Renumbered) Variable Group 17 (Deleted) Variable Group 18 (Deleted) Variable Group 19 (Deleted) Variable Group 20 (Deleted)
-	400	Root Narrative Item 47	Loading Tests on Post Foundations	Root Narrative Item 14 Root Narrative Item 41 Root Narrative Item 42 Root Narrative Item 43 Root Narrative Item 44 Root Narrative Item 45 Root Narrative Item 46 Variable Original Group 13 (Deleted) Variable Group 13 (Renumbered) Variable Group 14 (Renumbered) Variable Group 15 (Renumbered) Variable Group 16 (Renumbered) Variable Group 17 (Renumbered) Variable Original Group 17 (Deleted)
-	500	Root Narrative Item 13	Excavate and Replace Filter Material	Root Narrative Heading Above Item 1 Root Narrative Item 1 Root Narrative Item 2 Root Narrative Item 3 Original (Deleted) Root Narrative Item 3 (Renumbered) Root Narrative Item 4 (Renumbered) Root Narrative Item 5 (Renumbered) Root Narrative Item 6 (Renumbered) Root Narrative Item 7 (Renumbered) Root Narrative Item 8 (Renumbered) Root Narrative Item 9 (Renumbered) Root Narrative Item 10 (Renumbered)
		Root Narrative Item 38	Replacement of Cover and Frame on Chamber	
		Root Narrative Item 39	Replacement of Grating and Frame on Gully	
		Root Narrative Item 46	Concrete Bagwork	
		Root Narrative Item 47 Item 48 Item 49 Item 50	Cleaning Existing Drainage Systems	

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
-	500 (cont)		Root Narrative Item 11 (Renumbered) Root Narrative Item 12 (Renumbered) Root Narrative Item 18 Root Narrative Heading above Item 27 Root Narrative Item 27 Root Narrative Item 28 Root Narrative Heading above Item 38 Root Narrative Item 40 (Renumbered) Root Narrative Item 41 (Renumbered) Root Narrative Item 42 (Renumbered) Root Narrative Item 43 (Renumbered) Root Narrative Heading Above Item 44 Root Narrative Item 44 (Renumbered and amended) Root Narrative Item 45 (Renumbered) Variable Group 16 Variable Group 24
-	600	None	Root Narrative Item 24 to 31 (Renumbered) Root Narrative Item 24 Original (Deleted) Root Narrative Item 32 (Renumbered and amended) Root Narrative Item 33 to 53 (Renumbered) Variable Group 12 Variable Group 26 Variable Group 27 Variable Group 65 (Renumbered and amended) Variable Group 66 to 67 (Renumbered)
-	700	Root Narrative Item 22 Saw cutting grooves Root Narrative Item 23 Sealing grooves Root Narrative Items 24 to 26 Full Depth Repairs to Existing Concrete Carriageway Root Narrative Items 27 to 32 Saw Cutting, Cracking and Seating Existing Jointed Reinforced Concrete Pavements	Root Narrative Items 5 to 7 Table for materials and aggregates deleted Root Narrative Item 13 Root Narrative Item 15 Root Narrative Item 20 heading Variable Groups 1 to 4 Variable Group 10

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
-	700 (cont)	<p>Root Narrative Items 33 to 37</p> <p>Cracking and Seating Existing Jointed Unreinforced Concrete Pavements and CBM Roadbases</p> <p>Root Narrative Items 38 to 40</p> <p>Overband and Inlaid Crack Sealing Repair Systems</p> <p>Root Narrative Item 41</p> <p>Maintenance of Arrester Beds</p> <p>Root Narrative Items 42 to 44</p> <p>Repairs and Patching</p> <p>Variable Group 22 Overlay</p> <p>Variable Group 23 Colour</p> <p>Variable Group 24 Depth of cut</p> <p>Variable Group 25 Stated thickness or depth</p> <p>Variable Group 26 In slabs</p> <p>Variable Group 27 Stated thickness</p> <p>Variable Group 28 Saw cuts depth</p> <p>Variable Group 29 Thickness</p> <p>Variable Group 30 Pavement and roadbase</p> <p>Variable Group 31 Crack centres</p> <p>Variable Group 32 Stated material</p> <p>Variable Group 33 Stated location</p> <p>Variable Group 34 Stated repair material or system</p> <p>Variable Group 35 Pavement areas</p> <p>Variable Group 36 Crack widths</p> <p>Variable Group 37 Stated width of crack</p>	
-	1100	None	<p>Root Narrative Heading above Item 1</p> <p>Root Narrative Heading above Item 3</p> <p>Root Narrative Heading above Item 4</p> <p>Table for materials and aggregates deleted</p> <p>Root Narrative Heading above Item 11</p> <p>Variable Group 3</p> <p>Variable Group 7</p> <p>Variable Group 17</p>
-	1200	None	<p>Root Narrative Heading above Item 15</p> <p>Root Narrative Item 15</p> <p>Root Narrative Heading above Item 16</p> <p>Root Narrative Item 16</p> <p>Root Narrative Heading above Item 17</p> <p>Root Narrative Item 17</p> <p>Variable Group 9</p> <p>Variable Group 17</p>

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
-	1300	Root Narrative Item 3 CCTV mast	Series title Root Narrative Heading above Item 1 Root Narrative Items 4 and 5 (Renumbered)
-	1400	Variable Group 17 Stated diameter of ducts	Root Narrative Heading above Item 2 Root Narrative Item 2 Root Narrative Heading above Item 3 Root Narrative Item 3 Root Narrative Item 4 Root Narrative Item 5 Root Narrative Item 10 (Deleted) Root Narrative Item 11 (Deleted) Variable Group 1 Variable Original Group 14 (Deleted) Variable Original Group 15 (Deleted) Variable Original Group 16 (Deleted) Variable Original Group 17 (Deleted) Variable Group 14 (Renumbered) Variable Group 15 (Renumbered) Variable Group 16 (Renumbered) Variable Group 18 (Renumbered and amended) Variable Original Group 22 (Deleted)
-	1500	Variable Group 35 Stated number of ducts	Root Narrative Heading above Item 2 Root Narrative Item 2 Root Narrative Heading above Item 3 Root Narrative Item 3 Root Narrative Item 4 Root Narrative Item 5 Variable Group 1 Variable Group 33
-	1600	None	None
-	1700	None	None
-	1800	None	None
-	1900	None	None
-	2000	Root Narrative Item 3 Removal of Existing Waterproofing	None

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
-	2100	None	None
-	2200	None	None
-	2300	None	None
-	2400	None	None
-	2500	None	Variable Group 2
-	2700	None	None
-	3000	Complete New Series	