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

**SECTION 2 IMPLEMENTING
STANDARDS**

PART 16

SD 15/03

**IMPLEMENTATION OF
NOVEMBER 2003 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 Standard introduces the November 2003 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. Implementation requirements for the amendments are given for their use in trunk road contracts in the UK.

INSTRUCTIONS FOR USE

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

1. Insert SD 15/03 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



Llywodraeth Cynulliad Cymru
Welsh Assembly Government

WELSH ASSEMBLY GOVERNMENT
LLYWODRAETH CYNULLIAD CYMRU



THE DEPARTMENT FOR REGIONAL DEVELOPMENT
NORTHERN IRELAND

Implementation of November 2003 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 Standard introduces the November 2003 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. 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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WORKS**

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1. INTRODUCTION AND IMPLEMENTATION

Introduction

1.1 This Standard introduces the November 2003 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 Bills of Quantities for Highway Works (MMHW, 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)

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)

SD 10/02 (Implementation of May 2002 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)

SD 11/02 (Implementation of November 2002 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works)

SD 12/02 (Implementation of February 2003 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)

SD 13/03 (Implementation of May 2003 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works and Preparation of Bills of Quantities for Highway Works)

SD 14/03 (Implementation of August 2003 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works and 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, August 1998, May 2001, May 2002, November 2002, February 2003, May 2003, August 2003 and November 2003.
- (ii) the 1991 edition for Volume 3 as amended in August 1993, August 1994, March 1998, July 1998, March 1999, January 2000, May 2000, May 2001, May 2002, February 2003, August 2003 and November 2003.
- (iii) the March 1998 edition for Volume 4 as amended in May 2001, May 2002, February 2003, May 2003 and November 2003.

Contracts for which tenders are to be invited after 1 January 2004 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, and sub-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 (sub-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 (Paragraph 1.5 is superseded by SD 6/94)

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 Highway 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 Highway 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

Part 11 SD 10/02 Implementation of May 2002 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

Part 12 SD 11/02 Implementation of November 2002 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works

Part 13 SD 12/03 Implementation of February 2003 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

Part 14 SD 13/03 Implementation of May 2003 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works and Preparation of Bills of Quantities for Highway Works

Part 15 SD 14/03 Implementation of August 2003 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works and Highway Construction Details

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 November 2003 Amendments to Volume 1 (as amended in August 1998,
May 2001, May 2002, November 2002, February 2003, May 2003 and August 2003)
Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
000	None	005.1
100	None	104.2, 4, 6, 7, 8 105.2, 3, 4, 6 104.2NI, 4NI, 6NI, 7NI, 8NI
300	None	305.1
500	#503.3(i) (c) and .3(i)(d): Testing for oxidisable sulfides (OS) content and total potential sulfate (TPS) in accordance with TRL Report 447 [These are also applicable to #503.3 (i)(c) NI and 3(i)(d)NI] 521 Low Pressure High Volume Jetting of Drainage Systems Table 5/12 Maximum Recommended Pump Pressures Table 5/13 Minimum Jetting Flow Rates	501.4(ii), .5, .6(i), .6(iii) Table 5/1 Table 5/2 502.1(i), #503.3(i)(b), #503.3(ii) Table 5/3 Table 5/4 #503.3(iii), 3(vi) 504.3(iv) 505.3(i), .3(iii), .3(iv) Table 5/5 506.3 507.1, .2, .3, .4, .5, .7, .11 #508.1, .3, .6, .7 509.5 511.1 512.1 513.2 514.4(i), .4(ii), .4(iii), .14(v) 515.5 Table 5/8 516.8 517.9 517.14 518.4 Table 5/9 Table 5/10 Table 5/11 518.8 518.12(iii)(i) 519.1, .5 520.3, .4, .6, .9, .11, .19(ii) 503.3(i)(b) 503.3(ii)NI 503.3(vi)NI re-written Table 5/3NI Table 5/4NI 503.6 508.1NI, .3NI, .6NI, .7NI
600	644 Determination of Sulfate Content	#601.14 #601.15 #601.19 (deleted) 603.(6), .(iii) 604.1, .2(i), .2(ii) 614.8, 10 615.10

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
600 (cont)		616.4(ii) 626.4 641.1 641.2 642.4 643.17 643.19 Table 6/1 Table 6/3 632.6SE, .7SE 601.14NI 601.15NI 601.19NI (deleted)
700	None	#702.10(ii) 710.1 710.5, .8(i), .8 (ii) Table 7/3 711.5 702.10(ii)NI
800	None	#801.17 801.17NI
900	909.3 Resistance to Polishing and Abrasion 912.3 Resistance to Polishing and Abrasion 914.3 Resistance to Polishing and Abrasion 915.2-4 Resistance to Polishing and Abrasion 916.2 Resistance to Polishing and Abrasion 919.5 Resistance to Polishing and Abrasion 923 Title amended and Clause completely revised 937.4 Flakiness of Coarse Aggregate 937.5 Fine Aggregate 943.4 Binder Volume 943.6 Coarse Aggregate 947.4 Binder	901.2, .7, .14, .21, .24, .28, .30 901.2(ii) deleted 902.3 903.1, .3 904.1, .3 905.1, .3 906.1, .3 907.1, .5 908.1, .3 909.3 (deleted and replaced) 909.4 910.1, 2, 3, 4 911.1, 2, 3, 8 912.1, .4 912.3 (deleted and replaced) 914.1, .4, .5 914.3 (deleted and replaced) 915.1 915.2, .3, .4 (deleted and replaced) 916.1, .3 916.2 (deleted and replaced) 918.6, .23, .31 919.2, .4, .6 919.5 (deleted and replaced) 920.3, 4, .5, .6, .8, .9, .11, .12, .13 922.5, .7, .8, .9, .14 924.4 925.2 926.8 929.1, .4, .7, .9(ii), .9(iii), .13, .16 Table 9/3 Table 9/4 930.1, .3 932.1, .3 933.1, .3

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
900 (cont)		934.1, .3 935.1, .2 936.1, .2 937.2, .6, .7, .12, .19, .32, .33, .34 937.4 (deleted and replaced) 937.5 (deleted and replaced) Table 9/5 Table 9/6 938.1, .2, .3, .6, .11(ii)(a) and (b), .24 Table 9/7 939.6(b) 941.4(i) 942.2, .5 943.1, .3, .7 943.4 (deleted and replaced) 943.6 (deleted and replaced) 943.10 - .29 deleted 943.30 - .34 re-numbered 943.32 (now 943.12) (amended) 944.1, .3, .6, .7, .8, .9, .10, .11, .12 946.1, .3, .4 947.1, 3 947.1, .2, .3, .4, .5, .6 (re-numbered) 948.3, 4, .5, .9, .10, .11, .13, 20, .34, .44, .45, .63 Table 9/12 Table 9/13 Table 9/14 952.1, .4, .7
1000	1001.2 Concrete design and constituents 1002.13 Acid-soluble sulfate 1002.14 Total sulfur 1003.3 Core diameter and density of layers 1004 Pavement Concrete Strength Table 10/5 7 Day Corrected Core Compressive Strengths 1031 Measurements of Macrottexture Depth - Volumetric Patch Technique	1001 (title amended) 1001.1 Table 10/1 (title amended) 1001.2 (deleted and replaced) 1001.3(ii)(b) 1001.3(iii) (Table deleted) Table 10/2 1001.4, .5, .6 1001.6, .7, 8, 9, 12 1001.13 (deleted) 1002.1 Table 10/3 (re-numbered) 1002.2, .3 1003.1, 2 (deleted and replaced) Table 10/4 1003.4 (re-numbered and amended) 1003.5, .6 (re-numbered) 1004 (deleted and replace with new text) Table 10/3 (deleted) 1005 (Title amended) 1005.1 (deleted) 1005..2, .3 (re-numbered) 1006 (deleted) 1011.1, .7 1012.1, .2 Table 10/5 (re-numbered) 1013.5 Table 10/6 (re-numbered and amended) 1015.2(ii)(a)

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
1000 (cont)		1016.3, .6 Table 10/7 (re-numbered) 1016.11 1017.6 1018.6 1020.3 1021 (deleted) 1022 (deleted) 1023.1 (deleted) 1023.2 (re-numbered) 1024.4, .21, .22 Table 10/8 (re-numbered) 1025.7 1026.2, .4, .5 Table 10/9 (re-numbered) 1028.1, .2, .5, .7 1030.1 1030.2, .3, .11, .13, .14 (deleted) 1032.2 1033.14, .16 1034.1 Table 10/7 (re-numbered and amended) 1035.2, 4, .6, .14 Table 10/11 (re-numbered and amended) 1035.18 1036.1, .2 Table 10/12 (re-numbered and amended) 1037.1, 2, .3 Table 10/13 (re-numbered and amended) 1038.1, .2 Table 10/14 (re-numbered and amended) 1039.1 1040.2 1043.2 (i) and (ii), .3 1044.4, .5(ii)-(v) and (viii), .6(v), .28, .31 1046.2, .3, .4 Table 10/15 (re-numbered and amended) 1046.5, .6, .9, .16, .25, .40, .41, .42 Table 10/15 (renumbered) Table 10/16 (re-numbered and amended) Table 10/17 (re-numbered) 1046.43, .47, .49 1047.10(ii) 1048.2, .3, .4
1100	None	#1101.1, .2 1103.2 1104.1, .2 #1105.1 1107.1 1109.5 1101.1NI, .2NI 1105.1NI
1300	None	Title of Series #1301.1, .2, .3, .6, .7 1302 (title amended) 1302.1, .2 1302.3 (deleted) 1303.1, .2

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
1300 (cont)		1304.1, .5 1305.1, .3(iii), .4, .5, .7, .8, .9, .10 1306.1, .2 1307.1, .3, .4 #1308.1, .2, .4 1309 1310 (title amended) 1310.1 1310.2 (title and text amended) 1311 (title amended) 1311.1 (title and text amended) 1312 (title amended) 1312.2 1313.8, .11, .13-16 1314.3, .7 1301.1NI, .2NI, .3NI, .6NI, .7NI 1308.1NI, 2NI, 4NI
1400	None	1406 1418.7 1421.6 1424.7
1500	None	1507.31 1522.2 1527.2 1531.9 1532.4, .6, .7, .9
1600	None	1601.23 1602.1, .6, .7, .16, .17 1603.4, .11, .12, .13, .16 Table 16/2 1603.17, .22 1604.7, .13, .14 1605.17, .18, .19, .21, .22 1606.7 1610.3, .11 1611.3, .10, .11 1612.2, .3, .6, .9, .10 1613.2 1614.1, .6 1615.7, .11 1618.3
1700	None	1708.1 1711.1 to 10 Table 17/15 Table 17/15 1718.5
1800	None	1803
1900	None	1901.2 1902.1 1903.7, .8, .9, .11, .12, .13, .14, .15, .16, .17, .18, .19, .20 1906.23

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
1900 (cont)		1910.1 #1911.7 Table 19/2A Table 19/2B #1911.9 Table 19/4A Table 19/4B Table 19/4C #1912.3, .5, .9 1913.1 1914.1, .4(i), .9, .10, .11 1916.5 1921 (title amended) 1921.3, .4, .5 1911.6SE 1912.4SE, .5SE
2100	None	2102.1 2104
2400		2401.1(i) 2404.2, .3, .4 2405.1 2406.1 2410.1, .2 2411.1 Table 24/1 2415.1 2416.4
2500	None	2501.2 2501.12 2501.15(i) 2502.1, .3, .4(i), .4(ii), .8, .9(i), .9(ii), .11(iii), .12, .13 2503.2, .3, .4, .21 2504.3 2504.9, .16 2506.17, .19, .21, .27
2600	None	2601.2, .4 2602.2(i), .(vii), .(viii), .(ix), .4(ii)(a), .4(iv)(c), .4(iv)(d)-(e), .4(vi), 4(vii), (viii)(a) 2602.4(ii) 2602.2, .3, .4, .5, .6, .8, .11 Table 26/1 2603.1 2604.1 2605.1 2606.2(iii) 2607.1, .3
5000		#5007.4(i), .4(ii) Table 50/2 #5009.4 5015 (title amended)
Appendix A		General update, including Table A/2 and addresses

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
Appendix B	Appendix re re-organised to 1 Schemes for Products With Markings 2 Schemes for Products Without Markings 2.1 Ready Mixed Concrete (Product conformity requirements of concrete to BS 5328) 2.2 Product Conformity Requirements of Concrete to BS EN 206-1 and BS 8500	Table B/1 Section 1 (title amended) Section 2 (title and make up amended)
Appendix F		General update
Appendix H		General update

Schedule of November 2003 Amendments to Volume 2 (as amended in August 1998,
May 2001, May 2002, November 2002, February 2003, May 2003 and August 2003)
Notes for Guidance on the Specification for Highway Works

NG Series	Additional Clauses NG/Tables NG/Figures NG	Amended Clauses NG/Tables NG/Figures NG
NG 000	None	Schedule of Pages and Relevant Publication Dates Table NG 0/1, 0/2, 0/3 Schedule of pages and relevant publication Dates Sample List A
NG 100	None	NG 101.5, .6 NG 104.3, .5-7, .15 Table NG 1/2 NG 105.8 NG 106.3 NG 106.5 (and title to sub-Clause) Table NG 1/1 NG Sample Appendix 1/5, 1/6, 1/20, 1/24
NG 500	NG 521 Low Pressure High Volume Jetting of Drainage Systems	NG 501.2, .3 NG 502.2 NG 503.1, .2 NG 507.1 NG 509.3 NG 517.1 Table NG 5/1 NG Sample Appendix 5/1, 5/4, 5/5, 5/7
NG 600	NG 601.8 Advice on Sulfur compounds added NG 644 Determination of Sulfate Content	NG601.8 NG605.4 NG609.5 NG 631.3 NG 642.1, .2 NG Sample Appendix 6/1 NG Sample Appendix 6/3
NG 700	None	NG 701.1 NG Sample Appendix 7/1 (Schedules 3, 5) NG Sample Appendix 7/2 NG Sample Appendix 7/3 (sheets 1, 2, 3) NG Sample Appendix 7/4 (sheets 1, 2) NG Sample Appendix 7/7 (sheets 1, 2, 3) NG Sample Appendix 7/12 NG Sample Appendix 7/13 NG Sample Appendix 7/21 (sheets 1, 2)
NG 900	None	NG 901.1, .2, .7, .8 NG 904.1 NG 908.1 NG 909.1 NG 910.1 # NG 911.1, .2, .3, .4 NG 914.1 NG 915.4

NG Series	Additional Clauses NG/Tables NG/Figures NG	Amended Clauses NG/Tables NG/Figures NG
NG 900	None	NG 916.1, .2, 3 NG 918.12, .16, .17 Table NG 9/4 NG 919.2, .9, .14 NG 920.2, 3, .4, .8 NG 922.6, 9-11, .14, .16, .19, .29, .30 NG 923 (all) NG 924.7 NG 926.1 NG 936.3, .4 NG 938.1, .2 NG 942.8, .14 NG 943.1, .2 NG 943.3 (deleted) NG 943.2-12 (re-numbered) NG 943.13-27 (amended and renumbered) NG 943.31, .32 (deleted) NG 943.28 (re-numbered) Table NG 9/32 (deleted) Table NG 9/33 (deleted) NG 944.1 Table NG 9/34 (re-numbered) NG 948.22, .23 NG 952.4, .5, .9, .10 Table NG 9/35 (re-numbered) Table NG 9/36 (re-numbered) Table NG 9/37 (re-numbered) NG 911SE .1, .2, .3, .4, .5, .6 Table NG 9/1 SE
NG 1000	NG 1002 Air Content NG 1000.3-6: Further guidance on end performance given NG 1001.4 Further guidance on minimum cement given NG 1001.25, 26 Further guidance on determination of acid soluble content of the fine aggregate. Further guidance on aggregate category to resistance fragmentation. NG 1003.2, 3, 4 Further guidance on the determination of volume of the core to be tested. NG 1003.7, 8: Further guidance on the density assessment Table NG 10/1 7 Day Cube Compressive Strengths NG 1005.1 Further guidance on consistence NG 1005.8 Further guidance on Compaction Index None	NG 1000.1 NG 1001 (title) NG 1001.1-3, NG 1001.4-6, .8-12, .14, .15, .19, .20 NG 1001.7, .13, .16-18, .21-23 NG 1003.1 NG 1003.4, .5 (deleted) Table NG 10/1 (deleted) NG 1003.2 (re-numbered) NG 1004 Table NG 10/2 (deleted) NG 1005 (title) NG 1005.1-6 NG 1006 (deleted) NG 1021 (deleted) NG 1022, NG 1023 (deleted) NG 1024.2 NG 1026.1, .3 NG 1030.1 NG 1035.4, .5, .18, .19 NG 1039.1, .3, .5, .6 NG 1043.1-3 NG 1044.4, .7 Table 10/3 (re-numbered and amended) NG 1046.22, .23, .27, .35, .40, .45, .54, .64, .65 NG 1048.1

NG Series	Additional Clauses NG/Tables NG/Figures NG	Amended Clauses NG/Tables NG/Figures NG
NG 1100	None	None
NG 1300	<p>NG Sample Appendix 13/7: Information to be provided when specifying cantilever masts</p> <p>Appendix 13/8: Typical cantilever masts data - sheet 1</p> <p>Appendix 13/8: Typical cantilever masts data - sheet 2</p> <p>NG Sample Appendix 13/9: Instructions for completion of cantilever masts data sheets</p>	<p>Title of Series NG 1300 #NG 1301.1, .2, .6, .7 #NG 1302 (title) #NG 1302.1 NG 1303.1 NG 1305.1, .2(a), .4 NG 1307.1, .2 NG 1309 (title) NG 1309.1, .2</p> <p>NG 1310 (title) NG 1310.3, .4 #NG Sample Appendix 13/1 Appendix 13/2 - Sheet 1 Appendix 13/2 - Sheet 2 NG Sample Appendix 13/4 Appendix 13/5 Appendix 13/6 NG 1301.1, .2, .6, .7NI NG 1302NI (title) NG 1302.1NI NG Sample Appendix 13/1NI</p>
NG 1400	None	NG Sample Appendix 14/5
NG 1500	None	NG 1531.1
NG 1600	None	<p>NG 1601.1-3, 5, 8 NG 1602.3, 4, 12 NG 1603.2-4, 7, 8, 10 NG 1604.2 NG 1605.2 NG 1606.1, 2, 4 NG 1609.3 NG 1610.2, 5 NG 1611.10 NG 1612.1-3 NG 1613.5 NG 1614.4 NG 1615.7 NG Sample Appendix 16/2 Table NG 16/2 NG Sample Appendix 16/3 NG Sample Appendix 16/4 NG Sample Appendix 16/5 NG Sample Appendix 16/8 NG Sample Appendix 16/10 NG Sample Appendix 16/11 NG Sample Appendix 16/12 NG Sample Appendix 16/13 NG Sample Appendix 16/14 NG Sample Appendix 16/16 NG Sample Appendix 16/17 NG Sample Appendix 16/18</p>

NG Series	Additional Clauses NG/Tables NG/Figures NG	Amended Clauses NG/Tables NG/Figures NG
NG 1700	None	NG 1708.1, 4(ii), .4(iv) NG 1711.1-3, .5, .7,.9
NG 1800	None	NG1801
NG 1900	None	NG 1901.1, .2 NG 1907.9 NG 1909.1, 2 NG 1911.8, .9, .11, .13, .14(iii), .14(iv) NG 1914.9 NG 1916.5, 6 #NG 1918.1 NG 1921 (title) NG 1921.1-3 Appendix 19/1 NG Sample Appendix 19/5 NG 1918.1SE
NG 2400	None	NG 2406.2 NG 2409.1 NG 2413.4 NG Sample Appendix 24/1
NG 2500	None	NG 2502.2 NG 2504.2, .4, .7 NG Sample Appendix 25/2
NG 2600	None	NG 2602.1-3 NG 2606.1-2
Annex 1	None	General update

Schedule of November 2003 Amendments to Volume 3, Section 1
(as last amended in May 2001, May 2002, February 2003 and August 2003)

Highway Construction Details

Series	New Drawings	Amended Drawings
F	None	F 2 Issue C, F3 Issue D, F4 Issue C, F5 Issue D, F6 Issue D, F7 Issue C, F10 Issue C, F11 Issue D, F12 Issue D, F13 Issue C, F14 Issue C, F15 Issue B, F22 Issue B, F23 Issue B, F23 Issue B, F24 Issue B, F25 Issue B, F26 Issue B, F27 Issue B and F28 Issue C
G	None	G1 Issue C, G3 Issue C, G4 Issue C, G6 Issue B, G7 Issue E, G16 Issue D, G23 Issue D, G29 Issue B and G30 Issue B
MCX	None	MCX 0138 Sheet 1/1 Issue L, MCX 0143 Sheet 1/1 Issue P, MCX 0144 Sheet 1/4 Issue. J, MCX 0144 Sheet 2/4 Issue J, MCX 0145 Sheet 1/5 Issue. R, MCX 0145 Sheet 2/5 Issue L, MCX 0145 Sheet 3/5 Issue. G, MCX 0145 Sheet 4/5 Issue K, MCX 0489 Sheet 6/7 Issue H, MCX 0490 Sheet 4/5 Issue L, MXC 0565 Sheet 1/1 Issue E, MCX 0575 Sheet 1/1 Issue F, MCX 0584 Sheet 3/10 Issue L, MCX 0584 Sheet 4/10 Issue L, MCX 0584 Sheet 5/10 Issue L, MCX 0584 Sheet 10/10 Issue L, MCX 0813 Sheet 1/1 Issue G, MCX 0815 Sheet 1/4 Issue G and MCX 0815 Sheet 4/4 Issue G

Schedule of November 2003 Amendments to Volume 4
 (as last amended in March 1998, May 2001, May 2002, February 2003, May 2003
 and August 2003)

Bill of Quantities for Highway Works

Section 1: Method of Measurement for Highway Works

Chapter	Series	Additional Paragraphs/Tables	Amended Paragraphs/Tables
IV	500		84
IV	1300		Series title Heading above paragraph 1 1 2 3 4 Heading above paragraph 5 5 6 7

Schedule of November 2003 Amendments to Volume 4
(as last amended in March 1998, May 2001 and May 2003)

Bill of Quantities for Highway Works

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

Chapter	Series	Additional Paragraphs/Tables	Amended Paragraphs/Tables
IV	400	4	

Schedule of November 2003 Amendments to Volume 4
(as last amended in March 1998, May 2001, May 2002, February 2003 and May 2003)

Bill of Quantities for Highway Works

Section 3: Library of Standard Item Descriptions for Highway Works

Series	Additional Paragraphs/Tables	Amended Paragraphs/Table
1300	Root Narrative Item 7 Re-erection of CCTV mast Item 8 Re-erection of cantilever mast	Series title Heading above paragraph 1 3 Heading above paragraph 5 4 5