

---

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

**SECTION 2 IMPLEMENTING  
STANDARDS**

---

**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**

**SUMMARY**

This Standard introduces the 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. 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 10/02 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  
NORTHERN IRELAND

# **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**

Summary: This Standard introduces the May 2002 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

**REGISTRATION OF AMENDMENTS**

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

---

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

**SECTION 2 IMPLEMENTING  
STANDARDS**

---

**PART 11**

**SD 10/02**

**IMPLEMENTATION OF MAY 2002  
AMENDMENTS TO THE  
SPECIFICATION FOR HIGHWAY  
WORKS, THE NOTES FOR GUIDANCE  
ON THE SPECIFICATION FOR  
HIGHWAY WORKS, THE HIGHWAY  
CONSTRUCTION DETAILS AND  
PREPARATION OF BILLS OF  
QUANTITIES FOR HIGHWAY WORKS**

**Contents**

Chapter

1. Introduction and Implementation
2. References
3. Enquiries

Annex A Schedule of Amendments to Volume 1

Annex B Schedule of Amendments to Volume 2

Annex C Schedule of Amendments to Volume 3

Annex D Schedule of Amendments to Volume 4

# 1. INTRODUCTION AND IMPLEMENTATION

## Introduction

1.1 This Standard introduces the May 2002 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 Annual 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

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, May 2001, and May 2002.
- (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, and May 2002.
- (iii) the March 1998 edition for Volume 4 as amended in May 2001 and May 2002.

Contracts for which tenders are to be invited after 1 November 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:

Chief Highway Engineer  
The Highways Agency  
St Christopher House  
Southwark Street  
London SE1 0TE

G CLARKE  
Chief Highway Engineer

Chief Road Engineer  
Scottish Executive Development Department  
Victoria Quay  
Edinburgh  
EH6 6QQ

J HOWISON  
Chief Road Engineer

Chief Highway Engineer  
The National Assembly for Wales  
Cynulliad Cenedlaethol Cymru  
Crown Buildings  
Cathays Park  
Cardiff CF10 3NQ

J R REES  
Chief Highway Engineer

Director of Engineering  
Department for Regional Development  
Roads Service  
Clarence Court  
10-18 Adelaide Street  
Belfast BT2 8GB

G W ALLISTER  
Director of Engineering

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

**Schedule of May 2002 Amendments to Volume 1 (as amended in August 1998)  
Specification for Highway works**

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
700	None	701.1,2 Table 7/1 702 .3, 5, 6, 9(i), 9(iii), 10(ii), 10(iii), 10(iv) Table 7/2 706.3, 5 713.2, 5 716 (title amended) 716.6, 9, 15(iii), 19, 23, 26(iv) Table 7/5 Table 7/1NI 702 .3NI, 5NI, 6NI, 9(i)NI, 9(iii)NI,9(iv)NI, 10(ii)NI, 10(iii)NI, 10(iv)NI Table 7/2NI 706.3NI, 9NI
900	901.32 Introduction Penetration Reference Concept 952 Deformation Resistance for Binder Course and Base	901 (title amended) 901.8, 11, 15 ,19-23, 25, 26,28,30 902 (title amended) 902.1, 4, 5, 6 Table 9/1 903 (title amended) 903.1, 3 904 (title amended) 904.1, 3 905 (title amended) 905.1, 3, 5,, 6, 7 906 (title amended) 906.1, 3 907.3 908.3 909 (title amended) 909.1, 4 910 (title amended) 910.1, 2 911 (title amended) 911.1, 2, 5, 7 912 (title amended) 912.1, 4 914 (title amended) 914.1, 4, 5 916 (title amended) 916.1, 3 919.2 920,4 921 (title amended) 921.1 922.5 923.7 926.3, 5, 8, 9, 16, 18 928.1, 4, 6 929 (title amended) 929.2, 929.10(iii), 11(i), 11(ii), 13, 19, 21(i), 21(ii), 22 Table 9/3

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
900 (cont.)		930 (title amended) 930.1, 3 932 (title amended) 932.1 933 (title amended) 933.1,3 934 (title amended) 934.1 935 (title amended) 935.1, 2 936 (title amended) 936.1, 2 937 (title amended) 937.7, 8,15(i), 19, 26, 34, 38 938.11 Table 9/8 Table 9/9 941.3(i), 4(i), 4(ix), 5(i), 5(ii) 943 (title amended) 943.1, 2, 3, 5, 8(i), 11, 17 944 (title amended) 944.1, 2, 3, 5-12 945.3-8 Figure 9/7 (title amended) Figure 9/8 (title amended) 946 (title amended) 946.1, 4, 5 Table 9/10 947 (title amended) 947.3 948.1, 5, 27, 57, 61 951.1, 16
1000	None	Table 10/1 1010.1 1024.21 1026.6 1027.6 1035.8, 11, 16 1042.1 1043.1 1043.2 (deleted) 1043.3-6 (re-numbered) 1044.8 1044.30, 42 1047.8 1048.2, 4
1700	Table 17/4 Concrete Qualities to Resist Chemical Attacks  Table 17/5 Aggressive Chemical Environment for Concrete Site Classification  Table 17/6 Structural Performance Level of Buried Concrete  Table 17/7 Concrete Quality and Number of Additional Protective Measures Recommended for General Use of In-situ and Precast Concrete  Table 17/8 Options Available to Provide Additional Protective Measures for Buried Concrete	1702.1(i)-(vi) 1703.1(i)-(v) 1703.4(i) Table 17/2 1704.6(vii), (x), (ix), (xii),(xiii), (xiv), (xv), (xvi) 1704.7(i) 1704.7(ii)-(iv) deleted Table 17/4 (replaced by new content) Table 17/4a (also re-number as Table 17/9) Table 17/4b (also re-number as Table 17/10) Table 17/4c (deleted)

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
1700 (cont.)	1712.5-6 Stainless Steel Reinforcement	Table 17/4d (deleted) 1705.2(iii) 1706.1 1707.2(ii) Table 17/6 (re-numbered as Table 17/11) 1710.5(i)-(ii) Table 17/7 (re-numbered and title amended as Table 17/12) Table 17/8 (Note and re-numbered as Table 17/13) 1710.5(ii) 1711.2 1711.8 Table 17/9 (re-numbered as Table 17/14) 1711.9 Table 17/10 (re-numbered as Table 17/15) 1711.10 1712.1 (also heading to sub-Clause amended) 1712.2 1712.5 (re-numbered) 1713 (title amended) 1713.1 1714.1 1717.1-5 (also titled to sub-Clauses 2-4 amended) 1726.1
Appendices	None	Appendix B Appendix C Appendix F Appendix H

**Schedule of May 2002 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	Tables NG 0/1, 0/2, 0/3 Schedule of Pages and Relevant Publication Dates Sample List A
NG 100	None	Table NG 1/1 NG Sample Appendix 1/6
NG 700	None	NG 702.1, 3 NG 706.2, 3 NG 711.5 NG 713.6 (and table) NG 715.2 NG 716 (title amended) NG 716.1(vi) NG Sample Appendix 7/1.3, .4, .5, .7 NG Sample Appendix 7/3 Binder Data sheet NG Sample Appendix 7/4 Binder Data sheet NG Sample Appendix 7/5 NG Sample Appendix 7/7 Sheet 3 NG Sample Appendix 7/14.4 NG Sample Appendix 7/16 (title and text) NG Sample Appendix 7/21 Binder Data Sheet NG Sample Appendix 7/22.3 NG 706.2NI
NG 900	NG 952 Deformation Resistance for Binder Course and Base Table NG 9/37: Classification of Sites by Traffic and Stress Condition	NG 901 (title amended) NG 901.1, 3, 8 NG 903 (title amended) NG 903.1 NG 904 (title amended) NG 904.1 NG 905 (title amended) NG 906 (title amended) NG 906.1 NG 909 (title amended) NG 910 (title amended) NG 910.1, 3 #NG 911 (title amended) #NG 911.2 #NG 911.6 (deleted) NG 912 (title amended) NG 912.1 NG 914 (title amended) NG 915.1, 3 NG 916 (title amended) NG 916.2 NG 921 (title amended) NG 921.4, 5, 6 NG 921.6 (deleted) NG 924.6 NG 926.2 NG 928.15

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 900 (cont.)		NG 929 (title amended) NG 929.1, 6, 12 NG 930, NG 932, NG 933, NG934 (title amended) NG 932 (title amended) NG 933 (title amended) NG 934 (title amended) NG 935 (title amended) NG 935.2 NG 936.2, 4 NG 937 (title amended) NG 937.1 (deleted) NG 937.2-6 (re-numbered) and amended NG 937.3 NG 938 (title amended) NG 938.1 NG 943 (title amended) NG 943.1, 21, 24, 31 NG 944 (title amended) NG 944.1, 3, 6, 11 Table NG 9/34 NG 945.1, 2, 3, 4, 6 NG 946 (title amended) NG 947 (title amended) NG 947.3, 4 NG 948.53 NG 911SE (title amended) NG 911.1SE, 5SE NG 911.8SE (deleted) NG 914SE (title amended)
NG 1000	None	NG 1001.4 NG 1001.10 NG 1008.2 NG 1009.3 NG 1027.2 (title amended) NG 1048.1
NG 1700	NG 1704.6(vi): Additional Protective Measures  NG 1712.2 Stainless Steel Reinforcement	NG 1702.1 NG 1703.3(ii) NG 1704.2(ii) NG 1704.5(iv) NG 1704.6(i)-(xiii) (also re-numbered) Table NG 17/2 (deleted) NG 1707.2(i) NG 1710.4(ii) NG 1710.9(i)(c) NG 1710.9(v)(b) NG 1713 (title amended) NG 1716.3(v) NG Sample Appendix 17/4 NG Sample Appendix 17/5 (also title amended) NG 1703.3(ii)SE
Annex 1	None	Text amendments

**Schedule of May 2002 Amendments to Volume 3, Sections 1 and 3 (as amended in May 2001)  
Highway Construction Details**

<b>Series</b>	<b>New Drawings</b>	<b>Amended Drawings</b>
B	None	B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B16, B17, B18
C	None	C1, C7/1, C7/2, C7/3, C/18
G	None	G7, G13, G16, G17
I	I3, I4, I5	None
K	None	K4
MCX	MCX 0489 Sheet 07, 0583 Sheet 12, MCX 1022 Sheets 01, 02, 03, 04, 05	All existing drawings introduced in Amendment May 2001 MCX 0170 Sheet 10 - Deleted

**Schedule of May 2002 Amendments to Volume 4** (dated March 1998 and May 2001)  
**Bill of Quantities for Highway works**

**Section 1: Method of Measurement for Highway Works**

Chapter	Series	Additional Paragraph/Tables	Amended Paragraphs/Tables
III	Preparation of Bill of Quantities	None	Table 6
	600	None	1 32 44 49 51 1NI 32NI 44NI 49NI 51NI
	700	None	6 7 8 9 13 14 32 36 43 48 Heading above Paragraph 60 64
	1100	None	15 21
	2000	None	4

**Section 3: Library of Standard Item Descriptions for Highway Works**

<b>Chapter</b>	<b>Series</b>	<b>Additional Paragraph/Tables</b>	<b>Amended Paragraphs/Tables</b>
-	600	None	Variable Group 10
-	700	None	Root Narrative Heading Above Item 2 Root Narrative Item 2 Root Narrative Item 3 Root Narrative Item 4 Root Narrative Item 5 Root Narrative Item 6 Root Narrative Item 7 Root Narrative Heading Above Item 2 Variable Group 2 Variable Group 3 Variable Group 10 Variable Group 11 Variable Group 30
-	1100	None	Variable Group 6 Variable Group 7