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

**SECTION 2 IMPLEMENTING
STANDARDS**

PART 21

SD 20/06

**IMPLEMENTATION OF MAY 2006
AMENDMENTS TO SPECIFICATION
FOR HIGHWAY WORKS, NOTES FOR
GUIDANCE ON SPECIFICATION FOR
HIGHWAY WORKS AND HIGHWAY
CONSTRUCTION DETAILS**

SUMMARY

This Standard introduces the May 2006 amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works and Highway Construction Details. Implementation requirements for the amendments are given for their use in trunk road including motorway contracts in the UK.

INSTRUCTIONS FOR USE

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

1. Insert SD 20/06 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



TRANSPORT SCOTLAND



Llywodraeth Cynulliad Cymru
Welsh Assembly Government

WELSH ASSEMBLY GOVERNMENT
LLYWODRAETH CYNULLIAD CYMRU



THE DEPARTMENT FOR REGIONAL DEVELOPMENT
NORTHERN IRELAND

Implementation of May 2006 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works and Highway Construction Details

Summary: This Standard introduces the May 2006 amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works and Highway Construction Details. Implementation requirements for the amendments are given for their use in trunk road including motorway 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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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

1. INTRODUCTION AND IMPLEMENTATION

Introduction

1.1 This Standard introduces the May 2006 national amendments to the Specification for Highway Works (SHW), the Notes for Guidance on Specification for Highway Works (NfG) and the Highway Construction Details (HCD).

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)

SD 15/04 (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)

SD 16/04 (Implementation of May 2004 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 17/04 (Implementation of November 2004 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works)

SD 18/05 (Implementation of May 2005 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works)

SD 19/05 (Implementation of November 2005 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works and Highway Construction Details)

SD 20/06 (Implementation of May 2006 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, November 2003, May 2004, November 2004, May 2005, November 2005 and May 2006.
- (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, November 2003, May 2004, November 2004, May 2005, November 2005 and May 2006.
- (iii) the March 1998 edition for Volume 4 as amended in May 2001, May 2002, February 2003, May 2003, November 2003, May 2004, November 2004 and May 2005.

Contracts for which tenders are to be invited after 1 November 2006 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 0 to 6 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 20 SD 19/05	Implementation of November 2005 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works and Highway Construction Details
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	Part 21 SD 20/06	Implementation of May 2006 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works and Highway Construction Details
Part 16 SD 15/03	Implementation of November 2003 Amendments to Specification for Highway Works, 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:	Not Used (05/04)
Part 17 SD 16/04	Implementation of May 2004 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works	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)
Part 18 SD 17/04	Implementation of November 2004 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works	Section 2:	Notes for Guidance on the Method of Measurement for Highway Works (NGMMHW)
		Section 3:	Library of Standard Item Descriptions (LSID)
Part 19 SD 18/05	Implementation of May 2005 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works		

3. ENQUIRIES

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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 2006 Amendments to Volume 1 (as amended in August 1998,
May 2001, May 2002, November 2002, February 2003, May 2003, August 2003 and
November 2003, May 2004, November 2004, May 2005, November 2005 and May 2006)
Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
100		#104.1(i) #104.1(iii) #104.1(iv) #104.5 #104.10 #104.14 #104.15 #105.4 104.1(i)NI 104.1(ii)NI 104.1(iv)NI 104.5NI 104.10NI 104.14NI 104.15NI
300		305.1 311.2(v)
500		501.4(ii) 501.6(iii) #508.1 and 508NI.1 518.4
900		901.29 937.12 938.6 938.11(ii)(b)
1000		1001.3(ii)(b) Table 10/1 1001.8 1007.3 1008.1(i) 1008.1(iii) 1008.2 1008.3 1008.6 1008.9 (Heading) 1009.14 1010.1 1010.6 1011.1 1012.1 Table 10/5 1024.9 1024.18 1024.21

Schedule of May 2006 Amendments to Volume 1 (as amended in August 1998,
May 2001, May 2002, November 2002, February 2003, May 2003, August 2003 and
November 2003, May 2004, November 2004, May 2005, November 2005 and May 2006)
Specification for Highway Works (continued)

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
1000 (concluded)		1027.6 1028.1 1028.4 1033.2
1100		#1101.1 1101.1NI
1300		1301.3 1313.13
1400	1407.2(iv) 'for the luminaire control gear housing have a degree of protection rating IP 43 to BS EN 60529 unless a higher rating is specified in Appendix 14/4.' 1418.3 The feeder pillar shall be fitted with a suitably rated 1 or 3-phase and neutral switch fuse to BS EN 60947-3 as appropriate for the supply cable.	1407.2(iii) 1407.2(iv) re-numbered to 1407.2(v) 1407.2(v) re-numbered to 1407.2(vi) 1407.3 1412.1 1416.5 1416.6 1418.3 to 1418.8 re-numbered to 1418.4 to 1418.9 1421.1 1421.2 1422.1
1500		1522.2 1530.2
1700		1712.1 1712.2 1712.3 1712.4 1712.5 1712.6 1713.1 1717.5 1724.4(ii)
2400		2404.6 Table 24/3 2417.2 Table 24/3 re-numbered to Table 24/4 2417.8 Table 24/4 re-numbered to Table 24/5 2417.9 Table 24/5 re-numbered to Table 24/6

Schedule of May 2006 Amendments to Volume 1 (as amended in August 1998,
May 2001, May 2002, November 2002, February 2003, May 2003, August 2003 and
November 2003, May 2004, November 2004, May 2005, November 2005 and May 2006)
Specification for Highway Works (concluded)

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
2500		2502.8(i) 2502.9(i) 2503.18
3000	3001.1: Quality Management Schemes(05/06) Organizations providing landscape and ecology works for highway schemes shall comply with this Series and the associated quality management schemes detailed in Appendix A.	3001.1 to 3001.14 re-numbered to 3001.2 to 3001.15
Appendix A	New National Highway Sector Schemes (NHSS) introduced: Scheme 9A - Traffic Sign Manufacture Scheme 18 - The Environment and Landscaping including Ecology Scheme 19 - Corrosion Protection of Transportation Infrastructure Scheme 19A - Corrosion Protection of Ferrous Materials by Industrial Coatings	Part 1 Table A/1 Table A/2 Part 2
Appendix B		Consequential update to all sections
Appendix F		Consequential update to all sections

Schedule of May 2006 Amendments to Volume 2 (as amended in August 1998,
May 2001, May 2002, November 2002, February 2003, May 2003, August 2003,
November 2003, May 2004, November 2004, May 2005, November 2005 and May 2006)
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
000		002.2 Table NG 0/1 Table NG 0/2 Schedule of Pages and Relevant Publication Dates
100		104.12 104.16 Table NG 1/2 104.4 104.7 104.17 104.19 104.24 106.1 106.2 106.3 106.6 Table NG 1/1 Appendix 1/20NI - Sheet 1
400		Appendix 4/1
500		508.1 Appendix 5/1
700		Appendix 7/1 - Sheets 3 and 5
1000		1001.2 1001.26 1009.3 1009.4
1400		1401.2 1418.3(iii) deleted 1418.3(iv) to .3(vii) re-numbered to 1418.3(iii) to .3(vi) 1422.3 Appendix 14/1 Appendix 14/2 Appendix 14/3 Appendix 14/4
1500		1501.2 1525.5 1527.2
1700		1712.1 Appendix 17/4

Schedule of May 2006 Amendments to Volume 2 (as amended in August 1998,
May 2001, May 2002, November 2002, February 2003, May 2003, August 2003,
November 2003, May 2004, November 2004, May 2005, November 2005 and May 2006)
Notes for Guidance on the Specification for Highway Works (concluded)

NG Series	Additional Clauses NG/Tables NG/Figures NG	Amended Clauses NG/Tables NG/Figures NG
3000		3001.1(i) 3001.1(ii) Appendix 30/1 - Sheet 1
Annex 1		Consequential amendments to all sections

Schedule of May 2006 Amendments to Volume 3, Sections 1, 2 and 3
(as last amended in May 2001, May 2002, February 2003, August 2003, November 2003,
May 2004, November 2004, May 2005, November 2005 and May 2006)

Note: Section 2 of Volume 3 was removed from Volume 3 in May 2004

Highway Construction Details

Series	New Drawings	Amended Drawings		
Section 1				
Series B	-	B1 Issue B, B4, B5 and B9 Issue C, B10, Issue F and B13 Issue C		
Series C	-	C1 Issue E, C2 Issue C, C3 and C4 Issue D, C5 Issue C, C7/1 to C7/3 Issue E, C8/1 to C8/2 Issue C, C9 Issue B, C10/1 to C10/2 Issue C, C13 to C15 Issue C, C16 Issue B, C17 Issue C, C19 Issue C, C20 Issue E, C21 to C22 Issue C, C23 Issue D, C24 to C25 Issue C and C6 Issue B		
Series F	-	F3 to F4 Issue E, F5 to F6 Issue F, F7 Issue E, F11 to F 12 Issue F, F13 Issue E, F14 Issue E, F25 Issue C and F26 Issue C.		
Section 3				
MCX		No	Sheet	Issue
		0069	1, 2 to 7	H, F
		0131	1, 2 to 3	N, H
		0132	1, 3, 4, 5, 6, 7, 8	N, J, K, F, D
		0134	1, 2	N, P
		0135	1, 2, 3, 4	J, H, G, F
		0137	1	K
		0139	1	K
		0142	1, 2, 3, 4	M, L, K, J
		0145	1, 4, 5	S, L, F
		0147	1, 2	N, K
		0149	1, 2	H, G
		0150	1	H
		0151	1, 2, 3, 4, 5, 6, 7, 8	L, K, L, H, F, G, C
		0152	1, 2	M, H
		0154	1	N
		0156	1, 2, 3, 4, 5	S, P, N, Q, B
		0157	1, 2, 3, 4, 5, 6	J, H, J, H, J, G
		0163	1	J
		0164	2, 3	L, G
		0165	1, 2, 3, 4	H, K, H, D
		0170	1, 2, 3, 4 to 5, 6, 7 to 8, 9	M, N, J, E, D, E, D
		0306	1 to 2, 3	J, H
		0337	1, 2, 3, 4, 5, 6, 7, 8, 10, 11	S, J, G, F, K, H, F, D, C
		0339	1 to 2, 3, 4	K, G, F
		0426	1 to 2	H
		0486	1, 2	H, F
		0489	1, 2, 3, 4, 5, 6, 7	G, J, H, F, J, B
		0490	5	L

Schedule of May 2006 Amendments to Volume 3, Sections 1, 2 and 3
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May 2004, November 2004, May 2005, November 2005 and May 2006)

Note: Section 2 of Volume 3 was removed from Volume 3 in May 2004

Highway Construction Details (concluded)

Series	New Drawings	Amended Drawings		
Section 3				
MCX (concluded)		No	Sheet	Issue
	0509	1, 2	D, F	
	0515	11 to 3	E	
	0542	1 to 4	G	
	0552	1 to 2	E	
	0560	1	F	
	0565	1	F	
	0583	3 to 4, 6 to 7, 8, 9, 10 to 11, 12	K, E, G, D, A, E, B	
	0584	1, 2, 6, 7, 9, 10	L, K, J, K, G, J	
	0587	1 to 3, 4	D, C	
	0590	1	H	
	0591	1	H	
	0592	1	G	
	0594	1 to 2, 4	G, H, C	
	0602	1 to 2	E	
	0723	3	D	
	0801	1 to 3, 5	H	
	0802	1	F	
	0810	3	E	
	0811	1, 4	H, H	
	0814	5	F	
	0820	1	E	
	0821	1 to 3	F	
	0822	1, 2 to 4, 5, 6	G, F, H, F	
	0823	1, 3, 4	E, H, F	
	0824	1	E	
	0831	1	F	
	0832	1 to 2	H, D	
	0834	1 to 3, 7 to 10	E, F	
	0851	1, 2, 3 to 4	E, F, E	
0852	1	F		
0853	1 to 3	E		
0854	1 to 3	E		
0861	1 to 3	E		
0862	1 to 3	E		
0863	1	F		
0864	1, 7	F, G		
0871	1, 2 to 3	F		
0872	1	E		
0873	1, 2	F, D		
0899	1	F		
01022	1 to 3, 4, 5	B, C, B		