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

**SECTION 2    IMPLEMENTING  
STANDARDS**

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**PART 1**

**SD 1/17 AMENDMENT NO. 1**

**IMPLEMENTATION OF THE  
SPECIFICATION FOR HIGHWAY  
WORKS, NOTES FOR GUIDANCE  
ON THE SPECIFICATION FOR  
HIGHWAY WORKS, THE HIGHWAY  
CONSTRUCTION DETAILS AND THE  
BILLS OF QUANTITIES FOR HIGHWAY  
WORKS**

**INSTRUCTIONS FOR USE**

This document replaces the existing implementation standard for the Specification for Highway Works, Notes for Guidance on the Specification for Highway Works, the Highway Construction Details and the Bills of Quantities for Highway Works.

1. Remove SD 1/17 and replace with this standard and archive in accordance with the relevant quality management system.
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.



HIGHWAYS ENGLAND



TRANSPORT SCOTLAND



Llywodraeth Cymru  
Welsh Government

LLYWODRAETH CYMRU  
WELSH GOVERNMENT



DEPARTMENT FOR INFRASTRUCTURE  
NORTHERN IRELAND

# Implementation of the Specification for Highway Works, Notes for Guidance on the Specification for Highway Works, the Highway Construction Details and the Bills of Quantities for Highway Works

Summary: This Standard implements Volumes 1 to 4 of the Manual of Contract Documents for Highway Works, and gives implementation requirements for their use on trunk road contracts, including motorways, 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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Specification for Highway Works  
May 2017

Annex B      Schedule of Amendments to Volume 2  
Notes for Guidance on the Specification  
for Highway Works May 2017

# 1. INTRODUCTION AND IMPLEMENTATION

## Introduction

- 1.1 This Standard implements the Specification for Highway Works (SHW), the Notes for Guidance on Specification for Highway Works (NfGSHW), the Highway Construction Details (HCD) and Bills of Quantities for Highway Works. These documents are Volumes 1 to 4 respectively of the Manual of Contract Documents for Highway Works (MCHW). They are to be used in the preparation of contracts for the construction, improvement or maintenance of trunk roads including motorways in England, Scotland, Wales and Northern Ireland (in Northern Ireland, the documents will be applicable to those roads designated by the Overseeing Organisation). The SHW shall be used on all contracts, the HCD shall be used for all relevant construction details and the Bills of Quantities for Highway Works shall be used on all contracts using one or more Bills of Quantities.
- 1.2 This Standard implements the above documents as they were published in February 2017 incorporating all amendments between March 1998 and February 2017. This Standard also introduces and implements the May 2017 amendments to the Specification for Highway Works and the Notes for Guidance on the Specification for Highway Works as listed in Annexes A and B. These and the amendments published between March 1998 and February 2017 are as listed in the Volume Contents pages, Volume 0, Section 0, Part 2.
- 1.3 This implementation standard replaces the existing implementation standard SD 1/17 which is hereby withdrawn.

## MCHW Volumes 1 to 4 Document Contents

- 1.4 The documents consist of:
- |          |  |
|----------|--|
| Volume 1 | Specification for Highway Works (SHW);                             |
| Volume 2 | Notes for Guidance on the Specification for Highway Works (NfGSHW) |
| Volume 3 | Highway Construction Details (HCD)                                 |
| Volume 4 | Bills of Quantities for Highway Works                              |
- 1.5 A Volume Index and set of volume contents pages are given in MCHW Volume 0, Section 0, Part 2.
- 1.6 Volumes 1 to 4 form part of the MCHW document set. MCHW also includes Volumes 0, 5 and 6. The Volumes are mutually compatible and contract users should use all parts that are relevant to the particular scheme.
- 1.7 The Specification for Highway Works is published in MCHW Volume 1. It contains numbered Series and lettered Appendices. It is to be used on contracts as part of the contract documentation. The contract will include contract specific information which the contract compiler will include using contract specific Numbered Appendices.
- 1.8 The Notes for Guidance on the Specification for Highway Works contains numbered Series which correspond to the Series in SHW and samples of the contract specific Numbered Appendices.

1.9 The Highway Construction Details consists of the following (Section 2 is not used):

Section 1 Carriageway and Other Details

Section 3 National Motorway Communications System Installation Drawings

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

1.10 Bills of Quantities for Highway Works comprises of the following:

Section 1 Method of Measurement for Highway Works (MMHW)

Chapter I Definitions

Chapter II General Principals

Chapter III Preparation of Bills of Quantities  
Preambles to Bill of Quantities  
Schedules of Pages and  
Relevant Publication Dates

Chapter IV Units and Method of Measurement

Section 2 Notes for Guidance on the Method of Measurement for Highways Works

Section 3 Library of Standard Item Descriptions for Highway Works

Where a contract includes one or more Bills of Quantities Volume 4 shall be used for the preparation of the Bills of Quantities.

Section 1 Chapter IV contains Series corresponding to those in the SHW and additionally Series 2700: Accommodation Works and Works for Statutory Undertakers. Not all of the Series are however, taken up.

Section 2 contains guidance notes on Series corresponding to those in the Method of Measurement.

Section 3 contains Series corresponding to those in the Method of Measurement and additionally Series 2800: Provisional Sums and Prime Cost Items. Not all of the Series are however, taken up.

### Implementation of Amendments

1.11 Contracts for which tenders are to be invited after 1st August 2017 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.

1.12 A Schedule of Pages and Relevant Publication Dates relevant to SHW, HCD and MMHW is included in Volumes 1, 3 and 4 respectively.

## 2. DEPARTURES FROM STANDARD

- 2.1 All requirements contained in MCHW documents shall be considered to have the status of Standards. Thus for Trunk Road works (and all roads in Northern Ireland) any variation or waiving of a requirement contained within an MCHW document, other than permitted changes, shall be a Departure from Standard.

The SHW and HCD should be used as they stand wherever possible but when alterations to Clauses, Tables or Figures are considered necessary Departures from Standard are to be agreed with the Overseeing Organisation. Refer to GD 01 'Introduction to the Design Manual for Roads and Bridges' (DMRB 0.1.2) for details of the Overseeing Organisations' requirements regarding Departures from Standards. Where such alterations require changes to the MMHW these shall be agreed with the Overseeing Organisation.

Any such requests for Departures from Standards will need to be submitted to the Overseeing Organisation in good time. They will require justification and identification of the changes which will need to be prepared in accordance with the requirements identified in NfGSHW Series NG 000 for incorporation into the contract.

Under no circumstances should replacement pages be produced to incorporate site specific alterations.



### 3. AMENDMENTS TO MCHW

- 3.1 Future amendments will be implemented using an amendment to this standard. Schedules of the relevant amendments are included in Annexes A to D.
- 3.2 Instructions for incorporating the amendments are contained in the published amendment packages. These instructions include a brief description of the amendments and instructions on page replacement and/or removal and/or new pages.
- 3.3 A revision to the Volume Contents pages, Volume 0, Section 0, Part 2, will be issued with each set of amendments.
- 3.4 The amendment to the SHW includes a revised Schedule of Pages and Relevant Publication Dates. (This schedule has previously been published as part of the NfGSHW, but is now contained in SHW Series 000).
- 3.5 Superseded text and drawings in the MCHW Volumes 1, 2, 3 and 4 shall be retained by document users:
- (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 1.11 above.
- In these cases, working copies of the MCHW should not have the new amendments incorporated. Project teams or administrators of individual contracts need to maintain complete sets of contract documentation for individual contracts and archive them as necessary for the specific contract.
- 3.6 Where working copies of the MCHW are maintained for use on new schemes not covered by the exceptions in paragraph 3.5 above, the superseded pages should be removed and replaced with amended pages (together with all new pages issued). The superseded pages should be archived as necessary.
- 3.7 When necessary the Overseeing Organisations may make interim amendments to MCHW using interim documents. These are published using the Overseeing Organisations' web sites. They give Overseeing Organisations' requirements and advice and have the same status as MCHW documents. Any such amendments to MCHW documents should be implemented in accordance with the instructions given in the individual interim document. They shall be incorporated into contract documents in accordance with the requirements identified in NfGSHW Series NG 000 using contract specific Appendices 0/1 and 0/2.

## 4. NORMATIVE REFERENCES

- 4.1 Manual of Contract Documents for Highway Works Volume 4, Bills of Quantities for Highway Works.
- 4.2 Manual of Contract Documents for Highway Works, Volume 2, Notes for Guidance on the Specification for Highway Works:
- Series NG 000,
- sub-Clause NG 003.13
- NG Sample Contract Specific Appendix 0/4
- 4.3 Design Manual for Roads and Bridges, Volume 0:
- GD 01 'Introduction to the Design Manual for Roads and Bridges' (DMRB 0.1.2)

## 5. ENQUIRIES

All technical enquiries or comments on this Standard should be sent in writing as appropriate to:

Chief Highway Engineer  
Highways England  
Temple Quay House  
The Square  
Temple Quay  
Bristol  
BS1 6HA

M Wilson  
Chief Highway Engineer

Director, Trunk Road and Bus Operations  
Transport Scotland  
8th Floor, Buchanan House  
58 Port Dundas Road  
Glasgow  
G4 0HF

R Brannen  
Director, Trunk Road and  
Bus Operations

Deputy Director Network Management Division  
Network Management  
Welsh Government  
Cathays Park  
Cardiff  
CF10 3NQ

S Hague  
Deputy Director  
Network Management Division

Director of Engineering  
Department for Infrastructure  
Clarence Court  
10-18 Adelaide Street  
Belfast  
BT2 8GB

P B Doherty  
Director of Engineering

## Annex A Schedule of Amendments to Volume 1

### Specification for Highway Works

May 2017

Series	Clause / sub-Clause /Table Number	Amended, new, deleted
<b>Series 000</b>	Table 0/1 Schedule of Pages and Relevant Publication Dates	amended
<b>Series 400</b>	401.1 to 401.6 401.7 to 401.7	amended new sub-Clauses
	402.1 to 402.11 402.12	amended new sub-Clauses
	403.1 to 403.9 403.11 to 403.19 403.23 to 403.25 403.26 & 403.27	amended amended amended deleted
	404.1 to 404.5 404.6 to 404.8	amended deleted
	405.1 & 405.2	amended
	406.1 & 406.2 406.3 to 406.6	amended new sub-Clauses
	407.1 to 407.11 407.12 to 407.15	amended new sub-Clauses
	408.1 & 408.2	amended
	409.1 & 409.2	amended
	410.2 & 410.3	amended
	411.1 to 411.3 411.4 to 411.10	amended new sub-Clauses
	412.1	amended
<b>Appendix F</b>	Sections 1, 6 and 8	Consequential amendments

These Series have been notified in accordance with Directive 98/34/EC following the procedure for the provision of information in the field of technical standards and regulations.

## Annex B Schedule of Amendments to Volume 2

### Notes for Guidance on the Specification for Highway Works

May 2017

Series	Clause / sub-Clause / Table Number	Amended, new, deleted
Series NG 100	Table NG 1/1	amended
Series NG 400	NG 401.1 to NG 401.6 NG 401.7 to NG 401.9	amended new sub-Clauses
	NG 402.1 to NG 402.6 NG 402.7 & NG 402.8	amended new sub-Clauses
	NG 403.1 to NG 403.3 NG 403.6 & NG 403.7 NG 403.8	amended amended new sub-Clause
	NG 404.1 to NG 404.4	amended
	NG 406.1 to NG 406.3 NG 406.4	amended new sub-Clause
	NG 407.1 & NG 407.2 NG 407.3	amended new sub-Clause
	NG 408.1	amended
	NG 409.1	amended
	NG 410.1 & NG 410.2	amended
	NG 411.1 & NG 411.2 NG 411.3 & NG 411.4	amended new sub-Clauses
	NG 412.1	amended
	NG Sample Contract Specific Appendix 4/1	amended
	NG Sample Contract Specific Appendix 4/2	amended
Annex 1	Sections 1, 7 and 9	Consequential amendments

These Series have been notified in accordance with Directive 98/34/EC following the procedure for the provision of information in the field of technical standards and regulations.