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**SERIES NG 000  
INTRODUCTION**

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# INTRODUCTION

## NG 000 Introduction

### General

1 The Notes for Guidance on the Specification for Highway Works are published as Volume 2 of the Manual of Contract Documents for Highway Works and divided into Series corresponding to those in the Specification. The NG Clauses directly relate to Clauses in the Specification; however there are not corresponding NG Clauses to every Specification Clause. Guidance on the Lettered Appendices is given in NG 003.

2 Throughout the Notes for Guidance the term “compiler” has been used to refer to the individual or organisation responsible for the preparation of Contract-specific information and requirements.

### Incorporation of the Specification into the Contract

3 (05/01) The Specification for Highway Works has been drafted so as to allow its use with a wide range of procurement methods and forms of contract. The use of terms specific to any particular form of contract have thus been avoided and in particular no references to approvals and/or directions by the Engineer are included.

Directions or approvals that are used refer generally to the Overseeing Organisation. This term will need defining in each particular Contract to suit the specific roles and responsibilities of the parties to the Contract and the responsibilities of the parties involved in the construction, maintenance and operation of the Works.

Where the Specification is used in conjunction with the ICE Conditions of Contract 5th Edition, compilers should note that this form of contract provides for all work to be executed in strict accordance with the Contract and to the satisfaction of the Engineer. Continual reference to workmanship and/or materials being to the approval of the Engineer is therefore unnecessary within the Specification. The Numbered Appendices to the Specification are intended to provide for the defining of project specific requirements. Where compilers consider that such information as is called for by these Appendices cannot be determined at time of tender, phrases such as “as directed by the Overseeing Organisation” may be entered. It should be appreciated however that Contractors cannot price for undefined requirements and such “directions” when issued will constitute variations to the Contract.

4 The Contract will require the preparation of a Preamble to the Specification and incorporation of a Schedule of Pages and Relevant Publication Dates listing the publication date of each page of the Specification for Highway Works applicable to the Contract. A standard Preamble to the Specification and Schedule of Pages and Relevant Publication Dates is included in these Notes for Guidance.

The Preamble also contains statements which should be used to ascribe the roles and functions of the Overseeing Organisation to particular parties to the Contract.

### Proprietary Work, Goods or Materials

5 Proprietary work, goods or materials must not be specified unless their function cannot be described in any other way using specifications which are sufficiently precise and easily understood. Where the specification of proprietary work, goods or materials cannot be avoided, European law requires that the brand name or type be followed by the words ‘or equivalent’. Guidance on the assessment of equivalence is given in Advice Note SA2.

### Use of the Specification for Highway Works

6 The Specification for Highway Works has been widely drawn to cover all highway contracts from the provision of new to the improvement or reconstruction of existing roads and bridges. It also covers such schemes as the installation of road lighting, traffic signals or other traffic signing schemes on existing highways. Its use is mandatory for highway contracts on trunk roads including trunk road motorways.

7 There is no need to reproduce the Specification for Highway Works in the documents as it is incorporated by reference.

8 Contract-specific requirements should be incorporated in the Numbered Appendices to the Specification (without the need to alter Clauses, etc.) in one of two ways:

- (i) Specific requirements referred to in the national requirements:

These are generally indicated by the words “as described/stated in Appendix -/-”

[These are identified in Table NG 0/1].

(ii) Alternatives to national requirements:

These are generally indicated by the words “unless otherwise described in Appendix -/-”

[These are identified in Table NG 0/2].

**9** The Specification for Highway Works should be used as it stands wherever possible but when alterations to Clauses, Tables or Figures are considered necessary, these are to be agreed with the Overseeing Organisation. Such alterations will need to be submitted to the Overseeing Organisation in good time with justification and identification of changes to existing text, in drafts of Appendices 0/1 and 0/2 prepared in accordance with the requirements set out below for incorporation in the Contract. The loose-leaf format has been adopted solely to facilitate the incorporation of published national alterations. Under no circumstances should replacement pages be produced to incorporate Contract-specific alterations.

**10** The information contained in the Numbered Appendices 0/1 to 0/5 and 1/1 onwards should be bound either in one volume or more as appropriate. Each volume should be clearly titled as to the content.

**11** The compiler’s attention is drawn to the requirements of the Construction (Design and Management) Regulations and in particular the need for a health and safety plan to be prepared and provided at the same time as the tender documents, (Ref. SD 10). In particular the compiler should ensure consistency between information referred to in the above plan and the detailed information included in Appendices to the Specification. Appendices likely to be referred to, include but are not confined to:

Appendix 1/7	Site extent and limits of use
Appendix 1/9	Control of noise and vibration
Appendix 1/13	Programme of works
Appendix 1/16	Privately and publicly owned services and supplies
Appendix 1/17	Traffic safety and management
Appendix 1/18	Temporary diversions for traffic
Appendix 1/19	Routing of vehicles
Appendix 1/23	Risks to health and safety from materials or substances.

## NG 002 Terms and Abbreviations

**1** Terms and abbreviations used in Additional, and Substitute Clauses and in minor alterations made by ‘delete and insert’ methods must be consistent with those described in Clause 002.

**2** (05/01) The Specification is based on the Highways Agency (HA) requirements and where possible those of the Scottish Executive Development Department (SEDD), the National Assembly for Wales (NAW) and the Department for Regional Development, a department of the Northern Ireland Executive (DRDNI). The Standards issued by HA, SEDD, NAW or DRDNI, and forming part of Volume 0 of the Manual of Contract Documents for Highway Works, give implementing and other instructions on the use of the Specification and related procedures within their geographical areas. In addition, the Standards issued by SEDD, NAW or DRDNI, will contain any special national alterations to be included in Appendix 0/5.

## NG 003 Appendices

### Lettered Appendices

**1** All lettered Appendices are national requirements and are intended to be used without alteration, except for Appendix F (see sub-Clause 3).

**2** Appendices A to G comprise lists of accepted quality management schemes, product certification schemes, information relating to British Board of Agrément Certificates, other approval procedures, publications referred to in the Specification and petrographical examination procedures. Appendix H contains requirements relating to Quality Records.

**3** Appendix F is to list all the publications referred to in the Specification. When Additional, Substitute or minor alterations to Clauses are required, or references to publications are made in the Numbered Appendices, the list of publications contained in Appendix F is to be checked. Any alterations to Appendix F are to be included in Appendix 0/2 (see below).

### Numbered Appendices - General

**4** The Numbered Appendices to the Specification are to be drawn up for the Contract by the compiler and included in the documents. Where it is considered appropriate to include Contract-specific information on the Drawings, cross-reference should be made in the Numbered Appendix to the relevant drawing number.

**5** The Numbered Appendices are to be compiled using advice given in the Notes for Guidance Clauses and in the NG Sample Appendices given at the end of each Notes for Guidance Series. Their content should be agreed with the Overseeing Organisation. Some Numbered Appendices are to be completed by the Tenderer or the Contractor.

**6** The Numbered Appendices 1/1 onwards should only be used to extend the information in Specification

Clauses, Tables or Figures and NOT to change them. Where the Contract requires new methods or special requirements these should only be introduced by Additional or Substitute Clauses in Appendix 0/1 or by minor alterations in Appendix 0/2.

7 New Numbered Appendices can be used to extend Contract-specific alterations, but see Sample Appendix 0/3 regarding numbering of additional Numbered Appendices.

### Numbered Appendices - 0/1 to 0/5

8 The 'Zero' Series Numbered Appendices (0/1 to 0/5) should be compiled in accordance with the Samples following and as explained below.

9 The Contract-specific alterations to the Specification for Highway Works (having prior approval, see NG 000.9) should be described in Appendices 0/1 and 0/2 taking account of the following:

- (i) Requirements relating to Clauses equally apply to Tables and Figures.
- (ii) Care should be taken to ensure compatibility between Clauses and any associated Tables and Figures which are altered.
- (iii) Text which duplicates the provisions of the Conditions of Contract is to be avoided.

10 Appendix 0/1 is for incorporation of Contract-specific alterations to the Specification for Highway Works as follows:

- (i) Additional Clause - written in Appendix 0/1 with suffix 'AR' added to the Clause number.
- (ii) Substitute Clause - rewritten in Appendix 0/1 in full with existing Clause number and with suffix 'SR'.
- (iii) Cancelled Clause - Clause number with suffix 'CR' followed by its title written in Appendix 0/1, with the word 'Cancelled' alongside it.

If there are no Additional, Substitute or Cancelled Clauses to be included in the Contract write 'NONE' in Appendix 0/1.

11 Appendix 0/2 is for incorporation of Contract-specific minor alterations to existing Clauses, Tables and Figures and any alterations to Appendix F. These can be described by the 'delete and insert' or 'add new sub-clause' procedure, provided they are neither extensive nor confusing. The Clause is not then a Substitute Clause and there is no need to add a suffix. The instructions for these minor alterations are to be

written in Appendix 0/2. If there are none write 'NONE'.

12 Appendix 0/3 is to comprise a complete list of Numbered Appendices included in the Contract. List A contains those referred to in the national Specification and List B contains any additional Numbered Appendices devised by the compiler. Where a Numbered Appendix in List A is not used, this should be marked 'Not Used' alongside its number. Those to be completed by the Tenderer/Contractor must be identified and blanks of 'pro-formas', copied from the Notes for Guidance, are to be included as appropriate.

13 Appendix 0/4 is to list the Drawings in the Contract (including those from the HCD, which is published as Volume 3 of the Manual of Contract Documents for Highway Works).

14 Appendix 0/5 is to include special national alterations of the Overseeing Organisation of Scotland, Wales or Northern Ireland.

### NG Tables NG 0/1 to NG 0/3

15 Tables NG 0/1 to NG 0/3 following are check lists to be used as an aide-memoire to compilers of the Contract as follows:

- (i) Table NG 0/1: Identifies sub-Clauses that contain a reference to a Numbered Appendix, which will contain Contract-specific requirements.
- (ii) Table NG 0/2: Identifies sub-Clauses, etc. which are complete but which recognise that Contract-specific requirements may be applicable.
- (iii) Table NG 0/3: Identifies sub-Clauses which require the Contractor to submit information to the Overseeing Organisation.

### NG 004 British Standards, British Standard Codes of Practice, Harmonised European Standards, European Standards and Other Reference Documents

1 The Contract documentation should establish, for each British Standard incorporated in the Contract, the respective edition which is to be used.

2 Any alterations to the text of SHW and NG Clauses required as a result of the publication of new Harmonised European Standards, European Standards, British Standards or amendments to Standards will be drawn up by the Overseeing Organisations and published at appropriate intervals.

**3** The compiler should ascertain whether any amendments or new editions of the reference documents have been issued since the last published national alteration to the SHW and where appropriate include Contract-specific alterations in Appendix 0/1 or 0/2. Where a Harmonised European Standard or a European Standard has been issued in the period between the date stated in the Contract and the date of the last published national alteration to the SHW, Contract-specific alterations should be made to ensure the European Standard is properly incorporated in the Contract. Use of European Standards issued prior to the date stated in the Contract is mandatory and sub-Clause 004.4 provides for their incorporation in the Contract by default.

**4** The compiler should ensure that there are no inconsistencies between the reference documents specified in the Contract and those used in the design. Where necessary, Contract-specific alterations should be included in Appendix 0/1 or 0/2 to achieve consistency. Amendments to Harmonised European Standards are not permitted. Amendments to European Standards may be considered only in exceptional circumstances where there is clear and proper justification. In such circumstances, and in cases where the basis of design may be compromised unless amendments are made, the Overseeing Organisation should be consulted.

**5** The compiler should consider whether reference document amendments published after the Contract has been awarded should be incorporated in the Contract. Amendments, such as those issued by BSI making editorial changes to British Standards, will often have negligible cost implications and should usually be adopted.

**6** British Standards, and other publications, referred to in the Notes for Guidance are listed in Annex 1.

### **NG 005 Thickness of Material and Tolerances**

**1** It is not considered necessary or desirable to specify tolerances for all dimensions. Where dictated by functional or aesthetic need, tolerances are included in the Specification for Highway Works. Other tolerances are incorporated by reference to British Standards and other publications. If the compiler requires further tolerances to apply these should be given on the Drawings. Unnecessarily fine tolerances have the effect of increasing prices and should be avoided.

**TABLE NG 0/1: (05/01) List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix**

<u>0/1</u>	<u>0/2</u>	<u>0/3</u>	<u>0/4</u>	<u>0/5</u>	<u>1/1</u>	<u>1/2</u>	<u>1/3</u>	<u>1/4</u>	<u>1/5</u>	<u>1/6</u>	<u>1/7</u>	<u>1/8</u>	<u>1/9</u>
*	*	*	*	*	101.1	102.1	103.1	#104.17	105.2	105.5	107.1	108.1	109.1
		003.2		001.1	101.2	108.4	103.2	104.17NI	105.3	105.6	3010.11		109.2
					101.3		103.4	1202.5(i)	105.5	105.7			3010.11
					101.7				105.7				
									404.3				
									509.1				
									509.7				
									517.20(vii)				
									901.2				
									919.5				
									919.12				
									920.5				
									922.8				
									922.14				
									937.37				
									943.29				
									1214.20				
									1306.3				
									1518.1				
									1601.31				
									1706.2				
									1718.5				
									1910.1				
									2208.3				

Note: \*These Numbered Appendices are referred to in the Preamble to the Specification.

<u>1/10</u>	<u>1/11</u>	<u>1/12</u>	<u>1/13</u>	<u>1/14</u>	<u>1/15</u>	<u>1/16</u>	<u>1/17</u>	<u>1/18</u>	<u>1/19</u>	<u>1/20</u>	<u>1/21</u>	<u>1/22</u>	<u>1/23</u>
106.1	106.4	111.1	113.1	114.1	115.1	116.3	#117.2	#117.2	119.1	120.1	110.1	122.1	124.1
106.3	110.1	#112.1	918.1		307.1	116.4	117.2NI	117.2NI		120.3			
501.1	516.1	112.1NI	918.15			116.5	#117.3	#117.8		120.8			
625.1	517.1	#112.4	919.1				117.3NI	117.8NI		120.11			
1601.24	624.1	112.4NI	919.9				#117.4	118.2		120.13			
2501.2	1601.24	#702.1	922.1				117.4NI	118.3		120.14			
2502.1		702.1NI	922.11				#117.6	118.5		120.16			
2504.15		Table 16/1					117.6NI	118.6		120.17			
2505.2							#117.7			120.19			
							117.7NI			120.20			
							#117.8			120.21			
							117.8NI			120.22			
							#117.10						
							117.10NI						
							#117.11						
							117.11NI						
							#117.15						
							117.15NI						
							#117.16						
							117.16NI						
							#117.19						
							117.19NI						
							#117.21						
							117.21NI						
							#117.23						
							117.23NI						
							#117.32						
							117.32NI						
							709.5						
							917.5						

**TABLE NG 0/1: (11.02) List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)**

1/24	1/25	1/26	1/27	2/1	2/2	2/3	2/4	2/5	3/1	4/1	4/2	5/1
#104.2	125.1	NG1/17	NG117.15	201.1	201.4	201.6	109.2	204.1	302.1	402.1	412.1	501.1
104.2NI	125.6		5	201.2	1421.17	201.8	203.1		302.2	403.1		501.2
#104.6	125.17			201.3		202.1			303.1	403.2(i)		501.3
104.6NI						309.1			303.3	403.6		501.4(i)
						#706.4			304.2	403.9(i)		501.4(ii)
						706.4NI			304.6	404.3		501.5
						709.9			305.1	404.4(i)		Table 5/1
									306.1	404.4(ii)		502.2
									306.2	408.2		#503.2
									106.4	409.3		503.2NI
									(4.6.6)	411.2		#503.3
									106.4			503.3NI
									(6.1.1)			#503.3(v)
									306.3			503.3(v)NI
									(7.2.2)			503.6NI
									306.5			504.2
									306.6			504.3(i)
									306.8			505.2
									308.1			505.3(iv)
									308.4			Table 5/5
									308.5			505.6
									308.6			506.1
									311.2(i)			506.3
									312.4			507.1
									312.5			507.4
									312.6			507.5
									2605.3			507.8
												507.9
												507.12
												507.13
												507.14
												507.18
												#508.1
												508.1NI
												#508.3
												508.3NI
												#508.4
												508.4NI
												508.5
												508.5NI
												#508.7
												508.7NI
												#508.8
												508.8NI
												509.1
												509.5
												509.7
												509.8
												511.1
												511.4
												512.1
												513.1
												513.2
												518.1
												520.1
												520.4
												608.8
												2506.15

**TABLE NG 0/1: List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)**

<u>5/2</u>	<u>5/3</u>	<u>5/4</u>	<u>5/5</u>	<u>5/6</u>	<u>5/7</u>	<u>6/1</u>	<u>6/2</u>	<u>6/3</u>	<u>6/4</u>	<u>6/5</u>
501.7	510.1	514.1	516.1	517.1	518.2	#601.1(i)& (ii)	602.5	109.2	605.1(i)	609.1
501.8		514.4(iv)	516.1(i)	517.3		601.1(i)NI &(ii)NI	602.18	203.1	605.1(iii)	609.2
Table 5/2		514.4(v)	608.8	517.4		#601.2(i) & (ii)		505.6	605.1(v)	609.4
503.5		514.5(ii)		517.7		601.2NI (i) & (ii)		#601.13	605.1(vii)	609.4(i)
503.5NI		514.9		517.9		#601.2(f)		601.13NI	605.1(viii)	609.5
503.6NI		514.10		517.17(ii)		601.2(f)NI		#601.14	605.1(viii)(a&b)	609.7
504.2		514.11		517.18		#601.4		601.14NI	605.1(x)	609.8
505.7		515.1		517.20(ii)		601.4NI		#601.15	605.1(xi)	
518.4		515.5				#601.5(ii)		601.15NI		
1421.2		Table 5/8				601.5(ii)NI		#601.17		
1421.19		515.6				#601.16		601.17NI		
		515.7				601.16NI		#601.18		
						602.1		601.18NI		
						602.3		602.12		
						602.4		603.1		
						602.5		603.2		
						602.17		603.3		
						605.1		603.4		
						605.1(xi)		603.5(ii)		
						608.1(ii) & (iii)		603.5(iv)		
						614.3		603.6		
						614.10		603.6(i)		
						614.14		603.6(ii)		
						615.5		603.6(iii)		
						615.13		603.6(iv)		
						615.16		603.7		
						622.3		603.7(i)		
						622.4		603.7(iv)		
						622.5(i)		604.1		
						626.2		604.2(ii)		
						632.1SE		606.1		
						#632.2		606.4		
						632.2SE		#607.1		
						#632.3		607.1NI		
						632.3SE		#607.2(vi)(a)		
						632.4SE		#607.2(vi)(a)NI		
						632.5SE		#607.2(vii)(c)		
						633.1		&(e)		
						633.3		607.2(vii)(c)		
						633.4		&(e)NI		
						635.2		608.1(i)		
						636.1		608.2		
						636.5		608.5		
						637.1		608.6		
						637.2		608.7		
						638.1		608.9(i)(b)		
						638.2		608.11		
						638.5		608.12		
						639.5		612.1		
						640.1		612.9		
						642.1		612.10(ii)		
						642.8		612.15		
						643.6		618.5(i)		
						643.19		622.6		
						643.22		623.2		
						Table 6/1		623.4		
								623.7		
								623.13		
								2506.14		
								3000.13		

**TABLE NG 0/1: (05/02) List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)**

6/6	6/7	6/8	6/9	6/10	6/11	6/12	6/13	7/1	7/1 (contd)	7/1 (contd)	7/2
610.(iv)	613.1	505.6	619.1	603.6(iv)	627.1	629.1	109.2	701.1	911.6	945.4	#706.2
610.2	613.2	602.9	619.4	624.1	627.2	629.2	608.2	#702.2	911.8	945.5	706.2NI
610.6	613.3	602.10	620.1	625.1	628.1		630.1	702.2NI	912.1	945.6	#706.5
Table 6/1	613.4	602.11	620.2	626.1			630.2	#702.4	912.2	946.1	#706.8
	613.5	608.11	620.3	626.3			630.4	702.4NI	912.3	946.3	#706.9
	613.6	618.2	620.4	626.3(i)			630.5	#702.7	912.4	951.5	#706.10
	613.7	618.3	620.5	626.3(ii)			630.7	702.7NI	914.1	952.7	706.6NI
	613.8	618.3(i)	621.1	626.5			630.9	#702.8	914.2	1028.1	706.7NI
	613.11	618.4(ii)					630.10	702.8NI	914.3	1028.2	706.13NI
	613.12	618.4(ii)(a)					630.11	Table 7/2	914.4	1028.5(v)	706.14NI
	614.11	2506.14					630.14	Table	914.5	1030.13	1017.1
	614.2						630.15	7/2NI	915.2	1033.7	1033.4
	614.5						630.17	#706.9	915.3	1001.1	1033.9
	614.7						630.20	706.9NI	916.1	1001.2	1033.12
	614.11						630.21	706.13NI	916.2	Table 10/1	1033.13
	615.3							713.1	916.3	1004.7	1033.15
	615.4							713.5	921.2	1008.9	1033.16
	615.6							713.7	924.3	1008.11	
	615.7							715.1	924.4	1009.1	
	615.8							716.1	926.14	1033.10	
	615.9							#801.1	926.15	1035.1	
	615.15							801.1NI	926.22	1042.1	
	616.1							#801.7	930.1	1044.5(i)	
	616.4							801.7NI	932.1	1044.5(ii)	
	616.4(i)							#801.16	933.1	1044.5(v)	
	616.4(ii)							801.16NI	934.1	1044.27	
	616.6							804.3	935.1	1044.31	
	643.3							805.2	936.1		
	643.4							806.3	937.7		
	643.5							806.5	937.9		
	643.8							850.5SE	937.15(iv)		
	643.9							850.9SE	937.26		
	643.10							901.1	937.31		
	643.15							901.2	937.38		
	643.16							901.19	938.1		
	643.20							901.28(i)	938.2		
								901.28(ii)	942.1		
								902.3	942.5		
								903.1	942.7		
								903.3	942.8		
								904.1	942.9		
								904.3	942.13		
								905.1	942.14		
								905.3	943.1		
								906.1	943.2		
								906.3	943.5		
								907.1	943.8(vi)		
								907.3	943.17		
								908.1	943.20		
								908.3	943.21		
								909.1	943.27		
								909.2	943.32		
								909.3	944.1		
								909.4	944.9(ii)		
								910.1	944.12(I)		
								910.2	945.3		
								910.3			
								910.4			
								911.1			
								911.3			
								911.4			

**TABLE NG 0/1: List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)**

<u>7/3</u>	<u>7/4</u>	<u>7/5</u>	<u>7/6</u>	<u>7/7</u>	<u>7/8</u>	<u>7/9</u>	<u>7/10</u>	<u>7/11</u>	<u>7/12</u>	<u>7/13</u>
922.1	713.5	926.1	707.1	707.1	Not used	709.1	710.8(h)	711.4	712.1	713.1
922.2(i)	715.1	926.3		707.6		709.11		711.5		713.2
922.2(iv)	716.1	926.11		918.1						713.7
922.3	901.30	926.12		918.2						
922.4	920.1	926.16		918.2(iv)						
922.5	920.2	926.21		918.3						
922.6	920.3			918.4						
922.7	920.4			918.5						
922.8	920.7			918.6						
922.9	920.8			918.7						
922.13				918.8						
922.15				918.11						
922.16				918.13						
922.19				918.17						
922.20				918.21						
942.13				918.31						
				918.32						
				918.33						
				918.35						
<u>7/14</u>	<u>7/15</u>	<u>7/16</u>	<u>7/17</u>	<u>7/18</u>	<u>7/19</u>	<u>7/20</u>	<u>7/21</u>	<u>7/22</u>	<u>10/1</u>	
714.1	715.1	716.1	715.12	948.2	1046.2	#801.13	919.1	949.1	1044.2	
714.3	715.4	716.7	715.20(iii)	948.12	1046.8	801.13NI	919.1(ii)		1044.3	
	715.5	716.8	716.8	948.14	1046.10	1035.17	919.1(iv)		1044.6	
	715.7	716.10	716.15(iii)	948.17	1046.13	1046.44	919.2		1044.8	
	715.8	716.12		948.19	1046.15	1046.50	919.3		1044.12	
	715.10	716.13		948.32	1046.26	1047.1	919.4		1044.16	
	715.11	716.15		948.49	1046.29	1047.3	919.5		1044.23	
	715.12	716.15(ii)		948.50	1046.34	1047.5	919.6			
	715.14	716.15(iii)		Table 9/11	1046.35	1047.7	919.10			
	715.16	716.15(iv)			1046.44	1047.9	919.15			
	715.17	716.16(iv)								
	715.20	716.16(v)								
	715.20(ii)	Table 7/5								
	715.20(iii)	716.21(iii)								
	715.20(iv)	716.23								
	715.21(iii)	716.25								
	715.21(iv)	716.26(iv)								
	715.23									
	715.27(iii)									
	Table 7/4									
	715.29									
	715.31									

**TABLE NG 0/1: List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)**

<u>11/1</u>	<u>11/2</u>	<u>12/1</u>	<u>12/2</u>	<u>12/3</u>	<u>12/4</u>	<u>12/5</u>	<u>12/6</u>
#1101.1	1110.1	1201.1NAW	1208.6	#1212.1	1214.4	1217.1	1208.6
1101.1NI		1201.3(ii)NI	1211.1	1212.1NI	1214.18	1217.2	1220.2
#1101.2		#1201.4(ii)	1211.2	#1212.2	1214.56	1217.3	
1101.2NI		1201.4(ii)AW	1211.3	1212.2NI		1217.5	
#1101.3		1202.1		#1212.2(iii)		1217.6	
1101.3NI		1202.3		1212.2(iii)NI		1217.7	
1102.2		1202.4		#1212.6		1217.12	
1103.1		1202.5		1212.6NI		1217.13	
1103.3		1202.5(i)		#1212.10		1219.1	
1104.1		1202.5(ii)		1212.10NI		1219.2	
1104.2		1202.6		#1212.11		1219.4	
1104.5		1202.7		1212.11NI			
#1105.1		1203.3		#1212.15			
1105.1NI		1203.4		1212.15NI			
#1105.2		1203.5		#1213.5			
1105.2NI		1204.1		1213.5NI			
#1105.3		1204.1(iii)		#1213.7			
1105.3NI		1204.4		1213.7NI			
#1106.1		1204.5		1216.5			
1106.1NI		1204.6					
#1106.2		1205.5					
1106.2NI		1206.1					
#1106.3		1207.8					
1106.3NI		1208.1					
1107.1		1208.3					
1107.3		1208.4					
1108.1		1208.6					
1108.3		1209.1					
1109.1		1209.7					
1109.2		1210.1					
1109.3		1210.2					
1109.4		1216.2(i)(b&c)					
1109.6		1221.1					
1109.7		1221.3					
1109.8		1407.3					
1109.9		1407.3(ii)					
		1407.3(iii)					
		1509.1					
<u>13/1</u>	<u>13/2</u>	<u>13/3</u>	<u>13/4</u>	<u>13/5</u>	<u>13/6</u>		
#1301.2 & 2(i)	1303.1	1303.1	#1301.2(ii)	1303.1	1303.1		
1301.2 & 2(i)NI	Table 9/4C		1301.2(ii)NI				
#1301.6			#1301.6				
1301.6NI			1301.6NI				
1302.3			1303.1				
1303.1			1304.5				
1304.5			1305.8				
1305.3(i)			1308.4NI				
1305.3(ii)			1308.5NI				
1305.5							
1305.8							
1305.10							
#1308.4							
1308.4NI							
#1308.5							
1308.5NI							
1309, p5 clause 4							
1309, p7 clause 6							
1313.10							
1314.9							

**TABLE NG 0/1: List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)**

14/1	14/2	14/3	14/4	14/5	15/1	15/2	16/1	16/2	16/3	16/4
1402.1	#1401.5 1403.1	1405.1	1221.7 1407.1 1407.2(i),(iii) & (iv)	1417.1 1419.1 1509.1	1502.1(i) 1502.1(ii) 1502.1(iii) 1502.1(iv) 1502.1(v)	1530.1 1530.2 1530.7 1532.1 1532.6 1532.10 1532.11 1532.13	1601.23 1601.24 1601.26 1601.27 1601.28 1601.29 1601.31 1610.5	1601.24 1602.2 1602.6 1602.7 1602.13 1602.22 1602.23 1602.28 1602.29 1602.30 1602.31 1602.32 1602.33 1603.13 1903.16	1601.24 1603.4 1603.5 1603.9 1603.11 1603.19 1603.23 1603.24 1603.28	1601.24 1604.6 1604.7 1604.15 Table 16/3
			1409.1 1409.3 1409.4 1411.1(ii) 1412.1 1413.1 1416.3 1416.5 1416.6 1417.1 1418.1 1418.3 1418.5 1418.6 1418.7 1419.1 1419.7 1419.8 1421.3 1421.4 1421.5 1421.7 1421.8 1421.11 1421.13 1422.3 1422.6 1423.1		1505.1 1505.3 1505.6 1506.1 1506.2 1506.2(ii) 1507.1 1507.2 1507.24 1507.26 1507.28 1507.29 1507.32 1508.1 1508.5 1510.1 1510.2 1512.1 1512.2 1512.3 1512.4 1513.10 1513.12 1516.1 1516.2 1516.9 1517.1 1518.3 1519.1 1519.2 1519.4 1519.5 1519.7 1520.1 1521.1 1521.2 1521.3 1521.5 1521.6 1521.7 1522.1 1522.2 1523.3 1524.1 1527.1 1528.1 1534.1					

**TABLE NG 0/1: (05/02) List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)**

<u>16/5</u>	<u>16/6</u>	<u>16/7</u>	<u>16/8</u>	<u>16/9</u>	<u>16/10</u>	<u>16/11</u>	<u>16/12</u>	<u>16/13</u>	<u>16/14</u>	<u>16/15</u>	<u>16/16</u>	<u>16/17</u>
1601.24	1601.24	1601.24	1601.24	1601.24	1601.11	1601.24	1601.24	1601.24	1601.24	1601.24	1601.24	1601.24
1602.30	1602.28	1607.1	1608.1	1609.1	1601.24	1610.23	1610.23	1610.23	1611.9	1615.5	1616.2	1617.1
1605.1	1602.30	1607.5	1608.2	1609.6	1610.5	1611.1	1611.9	1611.9	1611.9	1611.11	1615.7	1617.2
1605.5	1602.31	1607.6	1608.4	1609.7	1610.9	1611.9	1611.11	1611.11	1611.11	1611.15		1617.3
1605.7	1606.9	1607.7	1608.8	1609.21	1610.11	1611.11	1611.15	1611.15	1614.8			1617.5
1605.8	1606.10	1607.8	1608.15	1609.33	1610.15	1611.15	1611.21	1611.21	1614.10			1617.10
1605.10	1606.12			1609.34	1610.20	1611.17	1611.22	1611.23	1614.11			1617.11
1605.12	1606.15				1610.21	1611.21	1611.23	1613.1				1617.12
1605.17	1606.18				1610.22	1611.22	1612.1	1613.8				1617.15
	1606.27				1610.23	1611.23	1612.3					1617.17
	1606.32						1612.11					
	1606.36						1612.13					
<u>16/18</u>	<u>17/1</u>	<u>17/2</u>	<u>17/3</u>	<u>17/4</u>	<u>17/5</u>	<u>17/6</u>	<u>18/1</u>	<u>18/1 (contd.)</u>	<u>18/1 (contd.)</u>			
1601.24	1701.1	1709.1	1708.1	1701.1	1711.1	1711.1	1801.1	1803 (4.4.4)	1803 (5.5.1.1)			
1618.1	1704.2	1710.5(i)	1708.4(i)	1703.1		1711.3	1801.2	1803 (4.5.1)	1803 (5.5.1.2)			
1618.3	1704.3		1708.4(ii)	1703.2		1711.5	1802.1	1803 (4.7.1)	1803 (5.5.2.3.2)			
	1707.2(iii)			1703.4(i)			1803 (3.1.1)	1803 (4.7.2)	Table 7			
	1707.4			1707.1			1803 (3.1.3)	1803 (4.7.3)	1803.(5.8)			
	1708.2			1707.2(iii)			1803 (3.1.4.3)	1803 (4.7.4)	1803 (5.9)			
	1711.1			1710.1			1803 (3.1.5)	1803 (4.8)	1803			
				1710.2(ii)			1803 (3.1.6)	1803 (4.9)	Table 4 &			
				1710.2(iv)			1803 (3.10.1)	1803 (4.11)	1803 (6.3.1)			
				1710.8(ii)			1803 (3.2)	1803 (4.13)				
				1710.8(iii)			1803 (3.3)	1803 (4.14)				
				1710.8(iv)			1803 (3.4.3)	1803 (4.15)				
				1712.7			1803 (3.4.4)	1803 (4.16)				
				1714.1(ii)			1803 (3.4.5)	1803 (4.17)				
				1717.1			1803 (4.2.2)	1803 (5.3)				
				1723.1			1803 (4.2.3)	1803 (5.4.1.1)				
				1724.3(ii)			1803 (4.3.3)	1803 (5.4.1.2)				
				1724.4			1803 (4.3.6)					
				1725.1			1803 (4.4)					
				1727.1								
<u>19/1</u>	<u>19/2</u>	<u>19/3</u>	<u>19/4</u>	<u>19/5</u>	<u>19/5(contd.)</u>	<u>20/1</u>	<u>21/1</u>					
1307.3	1221.4	HA/P2	1221.4	1901.3	1911.5SE	2004.4	2101.1					
#1911.2	1221.5	1918.1	1221.5	1902.1	#1911.6	2006.1	2102.1					
1911.2SE	1221.8		1221.6(ii)	1902.10	#1911.9(vi)	2007.1	2104 (3.1)					
#1920.1	1221.9		1221.9	1903.1	#1912.1	2008.1	2104 (3.7.4.1)					
1918	1906.12			1903.12	1915.1		2104 (4.3.2)					
1921.1	1906.23			1905.3(i)	1917.1		2104 (4.7)					
1920.1SE	Table			1905.3(ii)	1917.3		2104 (5.1)					
	19/3B			1906.2	#1920.1		2104 (5.4.8)					
	1914.3			1906.7	1921.		2104 (6.1)					
	1920.1			1906.8			2104 (6.2)					
	1920.1SE			1906.16			2104 (7.2)					
				1909.1			2104 (8.3.1)					
				1909.2			2104 (8.3.2.2)					
				1909.2SE			2601.1					
				1909.3								
				1909.4								
				1909.5								
				1909.5 SE								
				1911.9								

**TABLE NG 0/1: (11/02) List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)**

<u>22/1</u>	<u>23/1</u>	<u>23/2</u>	<u>24/1</u>	<u>25/1</u>	<u>25/2</u>	<u>25/3</u>	<u>25/4</u>	<u>25/5</u>	<u>25/5 cont.</u>	<u>26/1</u>	<u>26/2</u>	<u>26/3</u>
2201.1	2301.1	2301.1	2401.1(iii)	2501.2	2502.1	2503.3	304.6	Table 25/1	2506.21	2602.1	508.8	2606.1
2202.1	2301.4	2303.1	2404.1	2501.11		2503.5	2504.2	2506.2	2506.22	2602.3	2601.1(i)	
2201.3	2302.5		2406.1	2501.12		2503.6	2504.5(iii)	2506.3	2506.23	2602.4	2601.1(ii)	
2203.1	2302.8		2407.1	2501.19		2503.18	2504.7	2506.4	2506.25	2602.6	2602. (iii)	
2204.1 (9.4.2.3.5)	2304.1		2408.1	2505.2		2503.22	2504.9	2506.5	2506.27	2602.8	2601.3(v)	
2202.4			2409.1	2505.3		2503.29	2504.14	2506.7		2602.9		
2207.1			2412.1	2505.6		2503.32	2504.15	2506.9				
2207.2			2412.5	2506.1		2503.33	2504.15(i)	2506.12				
2208.3			2412.6				2504.15(vi)	2506.14				
			2413.6				2504.15(x)	2506.15				
			2413.9				2504.16	2506.16				
			2416.4				2504.17	2506.19				
							2504.18					
							2504.19(i)					

  

<u>30/1</u>	<u>30/2</u>	<u>30/3</u>	<u>30/4</u>	<u>30/5</u>	<u>30/6</u>	<u>30/6</u>	<u>30/7</u>	<u>30/8</u>	<u>30/9</u>	<u>30/10</u>	<u>30/11</u>	<u>30/12</u>
3001.1	3002.1	3003.1	3004.1	608.11	618.2	3006.53	3007.1	3008.6	3009.1	3010.1	3011.1	3012.1
3001.1(x)	3002.3	3003.5	3004.2	618.4(i)	3006.3	3006.54	3007.5	3008.7	3009.4	3010.2	3011.3	3012.2
3001.2	3002.4	3003.8	3004.5	620.5	3006.4	3006.55	3007.6	3008.7(ii)	3009.10	3010.4	3011.4	3012.3
3001.2(ii)	3002.5	3303.9	3004.6	3005.1	3006.5	3006.56	3007.9		3009.11	3010.4(v)	3011.6	3012.4
3001.2(iii)	3002.6	3003.12	3004.7	3005.2	3006.6	3006.58	3007.13		3009.12	3010.4(vi)	3011.8	3012.5
3001.12	3002.7	3003.14	3004.8	3005.3	3006.7	3006.60	3007.17		3009.13	3010.4(vii)	3011.9	3012.6
3001.13	3002.8			3005.4	3006.10	3006.60(iv)	3007.18		3009.16	3010.4(viii)		3012.7
3001.14	3002.9			3005.7	3006.12	3006.61	3007.19		3009.19	3010.4(ix)		3012.8
	3002.10			3005.8	3006.13	3006.62	3007.20		3009.20	3010.8(i)		3012.9
				3005.10	3006.14	3006.63	3007.21		3009.24	3010.8(vii)		3012.10
				3005.13	3006.15	3006.64	3007.22		3009.25	3010.12		3012.11
				3005.14	3006.16	3006.65	3007.23		3009.25(ii)	3010.15		3012.12
				3005.25	3006.17	3006.66	3007.24			3010.20		3012.13
				3005.26	3006.19	3006.67	3007.25			3010.20(iii)		
				3005.29	3006.22	3006.68	3007.26			3010.22		
				3005.30	3006.23	3006.69	3007.26(i)			3010.23		
					3006.23(iv)	3006.71	3007.26(ii)			3010.23(ii)(a)		
					3006.24	3006.73	3007.26(iii)			3010.27		
					3006.27	3006.77	3007.27			3010.30		
					3006.28	3006.80	3007.28			3010.31		
					3006.29	3006.87	3007.29			3010.32		
					3006.30	3006.89	3007.30			3010.34		
					3006.33	3006.91	3007.31			3010.35		
					3006.34	3006.92	3007.32			3010.45		
					3006.35					3010.51		
					3006.36					3010.54		
					3006.37					3010.55		
					3006.38					3010.56		
					3006.41					3010.57		
					3006.42					3010.58		
					3006.43					3010.59		
					3006.44					3010.59(iii)		
					3006.45					3010.60		
					3006.46					3010.61		
					3006.49					3010.62		
					3006.50					3010.63		
					3006.52					3010.65		
										3010.68		
										3010.69		
										3010.70		
										3010.71		

**TABLE NG 0/2: (05/01) List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. Sub-Clauses state “ ... unless otherwise described in Appendix -/-”**

<b>INTRODUCTION</b>	
001.1	Application of the National Alterations of the Overseeing Organisations of Scotland, Wales and Northern Ireland.
<b>PRELIMINARIES</b>	
101.2	Occupation date for accommodation for the Overseeing Organisation.
103.1	Alternative date for provision of communications system.
103.2	Provision of separate communication system for the Overseeing Organisation.
#104.2, 104.2NI	Institute a quality management system complying with BS EN ISO 9002 : 1994.
105.2	Provision of sampling and testing.
105.6	Provision of providing samples including source samples and goods.
#112.1, 112.1NI	Timing of check of setting out data.
114.1	Comply with the requirements described in Appendix 1/14 concerning applications for payment.
116.5	Interruption of privately and publicly owned services or supplies.
#117.3, 117.3NI	Traffic safety and management proposals.
#117.4, 117.4NI	Removal of central reserve crossovers.
#117.8, 117.8NI	Provision of traffic signs.
#117.10, 117.10NI	Maintenance of traffic signs.
#117.19, 117.19NI	Traffic safety and control officer.
#117.23, 117.23NI	Driver information signs at roadworks.
118.3	Removal of temporary diversions for traffic specified by the Overseeing Organisation.
120.13	Limits of recovery service for breakdowns.
<b>SITE CLEARANCE</b>	
201.2	Severance of lines of existing fences, hedges or walls.
201.4	Removal of disused services.
201.4	Backfilling trenches.
202.1	Disposal of felled timber.
<b>FENCING</b>	
302.1	Use of barbed wire on temporary fencing and choice of temporary fencing.
302.2	Removal of temporary fencing.
303.1	Type of temporary fencing and choice of temporary fencing.
303.3	Preservation treatment of temporary fencing.
304.2	Timber quality.
305.1	Grade of bolts, screws and nuts.
306.1	Alignment of fencing and joining to existing hedges, fences etc.
306.3 (clause 6.1.1)	Coated wires.
311.2(i)	Preservation of timber.
<b>SAFETY FENCES, SAFETY BARRIERS AND PEDESTRIAN GUARDRAILS</b>	
403.9 (i)	Timing of submission of evidence of capability of anchorages in drilled holes.
404.4 (i)	Timing of post foundation tests.

**TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. Sub-Clauses state “ ... unless otherwise described in Appendix -/-”(continued)**

<b>DRAINAGE AND SERVICE DUCTS</b>	
501.2	Type of pipe between consecutive chambers.
501.4	Minimum thickness of corrugated steel pipes.
501.7	Internal diameter of pipes for service ducts.
502.2	Placing of pipes under new embankments.
503.2, 503.2NI	Laying of corrugated coilable perforated pipes.
503.3 (v), 503.3 (v)NI	Materials for bedding haunching and surrounding filter drains.
504.2	Watertight joints for ducts.
505.2	Backfilling of trenches.
505.6	Removal of supports to trenches.
507.4	Concrete for in situ concrete chambers.
507.12	Uncoated covers, gratings and frames.
507.18	Setting of chamber frames and gratings or covers.
508.5, 508.5NI	Gully grating profile and protective coating.
508.8, 508.8NI	Setting of gully frames and gratings or covers.
509.5	Video camera survey of foul drains.
511.4	Filling to disturbed mole channels.
512.1	Backfilling to pipe bays and verges on bridges.
513.1, 513.2	Permeable backing to earth retaining structures.
514.1	Meanings of terms for fin drains.
514.9	Backfill material for fin drains.
514.10	Dimensions and drain slope angle for fin drains.
515.6	Dimensions and drain slope angle for narrow filter drains.
<b>EARTHWORKS</b>	
601.2 (ii), 601.2 (ii) NI	Composition of unacceptable material Class U1.
602.3	Removal of excavation material other than surplus.
602.5	Removal of surplus material.
602.6	Deposition of fill material.
602.10	Stock piling topsoil for more than two years.
602.12	Battering.
603.3	Halting of excavation.
603.6(i)	Depth of excavation of insecure material in cutting faces.
605.1 (v)	Maximum vehicle capacity for trafficking Class 3 material.
605.1 (x)	Treatment of Class 3 material at end of working day.
607.2 (vii)(c), 607.2 (vii)(c)NI	Arrangements for installing instruments off the Site.
608.4, 608.9	Construction of fills.
610.1 (iv)	Fill above structural concrete foundations.
612.1	Compaction of fills.
612.10 (ii)	Areas of fill requiring extra compaction.
613.3	Capping materials and layers.
613.8	Longitudinal gradient, crossfall and surface tolerances of sub-formation.
614.2	Cement type for stabilisation.

**TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. Sub-Clauses state “ ... unless otherwise described in Appendix -/-(continued)**

<b>EARTHWORKS <i>continued</i></b>	
614.5	Compaction thickness of cement stabilisation.
614.7	Method of cement stabilisation.
615.7	Compacted thickness of lime stabilisation.
615.8	Restrictions on when to carry out lime stabilisation.
615.9	Method of lime stabilisation.
618.4 (ii)(a)	Application of fertiliser and seed by hydraulic mulch.
619.1	Deposition and compaction to environmental bunds.
623.7	Fill level requirement for corrugated steel buried structures.
626.3,	Gabion mesh.
626.3(i),626.5	Minimum size of fill material to gabions.
630.5	Material requirements for vibrated stone columns.
631.1	Sampling and testing of earthworks materials.
633.1	Undrained shear strength tests.
636.1	Shear box or triaxial test methods.
642.8	Positions of plate loading tests.
643.5	Cement for lime.
643.9	Requirements for stabilising material in signal layer.
643.10	Processing of stabilised layer - Class 9E or the silt and clay fraction of Class 9F.
643.15	Requirements for stabilising of material previously mixed with lime.
643.16	Processing of stabilised layer - lime - silt and clay fraction.
<b>ROAD PAVEMENTS - GENERAL</b>	
709.9	Stockpiling of milled material.
<b>ROAD PAVEMENTS - UNBOUND, HYDRAULICALLY BOUND AND OTHER MATERIALS</b>	
#801.16, 801.16NI	Frost susceptible material.

**TABLE NG 0/2: (05/02) List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. Sub-Clauses state “ ... unless otherwise described in Appendix -/-” (continued)**

<b>ROAD PAVEMENTS - BITUMINOUS BOUND MATERIALS</b>	
901.2	Bituminous base and surface materials - hardness, durability and cleanness of aggregates.
901.19	Bituminous base and surface materials - compaction level of dense macadam.
901.28	Bituminous base and surface materials - PSV value of chippings.
901.28(ii)	Bituminous base and surface materials - PSV value of aggregates.
903.1	Dense macadam base.
906.1	Dense macadam base.
907.3	Regulating Course - use of rolled asphalt for regulating courses.
918.31 & 922.19	Slurry surfacing - texture depths measurements after installation.
930.1	Heavy duty macadam base.
932.1	Dense bitumen macadam (DBM50) base with bitumen penetration reference 50.
933.1	Heavy duty macadam (HDM50) binder course.
934.1	Dense bitumen macadam (DBM50) binder course with bitumen penetration reference 50.
937.25	Stone mastic asphalt (SMA) - coring of laid material.
937.39	Stone mastic asphalt (SMA) - laying, compaction and thickness of material.
942.7	Thin surface course systems - coarse aggregate.
942.9	Thin surface course systems - binder penetration.
943.2	Hot rolled asphalt surface course.
943.17	Hot rolled asphalt surface course core samples.
945.3	Weather conditions for laying of bituminous materials - minimum delivery temperature of hot rolled asphalt surface course materials incorporating 30% coarse aggregate
945.4	Weather conditions for laying of bituminous materials - minimum delivery temperature of hot rolled asphalt surface course materials incorporating 35% coarse aggregate.
945.5	Weather conditions for laying of bituminous materials - minimum delivery temperature for binder course and base materials.
945.5	Laying requirements for dense and heavy duty macadams.
947.3	Target aggregate grading for slate macadam base.
<b>ROAD PAVEMENTS - CONCRETE AND CEMENT BOUND MATERIALS</b>	
1028.1	Submit a detailed description of the proposed materials, mix proportions, plant, equipment and construction methods.
1028.2	Demonstration through a trial length.
1033.4	Criteria for full-width repair or reinstatement.
1033.10	Butt-welding of reinforcement.
<b>KERBS, FOOTWAYS AND PAVED AREAS</b>	
1103.3	Curing of in situ concrete for kerbs etc.

**TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. Sub-Clauses state “ ... unless otherwise described in Appendix -/-” (continued)**

<b>TRAFFIC SIGNS</b>	
#1201.4 (ii), 1201.4NI, 1201.4 (ii)NAW 1202.4 1202.5 1203.1 1203.3 1203.4 1204.4 1204.5 1208.3 1208.4 1209.1 1210.2 1212.1, 1212.1NI 1221.5 1221.6 (ii) 1221.7 1221.8 1221.9	Classification of prescribed temporary traffic signs. Luminance category of lit traffic signs. Details of permanent traffic signs. Foundations for permanent traffic signs and signals. Foundations for single posts. Post foundation construction. Positioning of signs on single posts. Positioning of compartments for electrical equipment. Positioning of signs on two posts. Filling to pockets in post foundations. Covering of permanent traffic signs. Securing requirements for reflective-only bollards. Road markings alternative shade. Painting of aluminium posts and post housings. Minimum dry film thickness of paint for aluminium sign plates. Finish of aluminium internally housed electrical components and ancillary equipment. Finish of stainless steel components. Finish of internal surfaces of cast iron and cast steel components.
<b>ROAD LIGHTING COLUMNS AND BRACKETS AND CCTV MASTS</b>	
1305.5 1305.10 1309 p7, cl 6. 1313.10 1314.9	Backfill to planted columns. Timing of submission of evidence of capability of anchorages in drilled holes. Use of slotted holes in flange plates. Testing of GFRP laminates. Testing of polyurethane foam.
<b>ELECTRICAL WORK FOR ROAD LIGHTING AND TRAFFIC SIGNS</b>	
#1401.3,1401.3NI 1407.2 (iii) 1407.2 (iv) 1407.3 (ii) 1407.3 (iii) 1409.3 1411.1 (ii) 1412.1	Operating voltage of network. Degree of protection rating of luminaires. PECU socket requirements for luminaires. Mean sign luminance category requirements for luminaires. Impact strength category requirements for luminaires. PECU requirements for luminaires mounted on twin arm brackets. Reserve for time switches. Specification and voltage operation requirements for ballasts.

**TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. Sub-Clauses state “ ... unless otherwise described in Appendix -/-”(continued)**

<b>ELECTRICAL WORK FOR ROAD LIGHTING AND TRAFFIC SIGNS <i>continued</i></b>	
1413.1	Requirements for ignitors.
1418.3	Security requirements for feeder pillar doors. Material requirements for hinges and locks.
1418.7	Requirements for feeder pillar foundations.
1419.2	Wiring materials in lighting columns and traffic signs.
1419.7	Wiring requirements on double bracket columns.
1421.1	Wiring materials for underground cables.
1421.7	Laying requirements for cables in trench.
1421.8	Laying requirements for power supply cables.
1421.13	Bedding and covering requirements for cables in trench.
<b>MOTORWAY COMMUNICATIONS</b>	
1502.1 (i)	Requirements for collection of cables from the Overseeing Organisation.
1502.1 (ii)	Requirements for supply of ducts and chambers.
1502.1 (iii)	Requirements for supply of posts, boards and slabs for Motorway System.
1505.1	Supply of equipment.
1507.32	Drum length to be laid in one operation.
1510.2	Installation requirements for telephone housings.
1513.12	Supplying of Cable Joint Enclosures (CJE) by the Overseeing Organisation.
1521.7	Reinstatement at existing equipment and trench sites.
1530.2	Nominal sizes of ducts.
1531.7	Reinstatement of duct trenches.
1532.6	Cast in situ chamber construction.
<b>PILING AND EMBEDDED RETAINING WALLS</b>	
1602.30	Pile driving records.
1602.31	Set and temporary compression of piles.
1603.5	Minimum head of drilling fluid above external groundwater.
1605.10	Set for driven cast-in-place piles.
1609.21	Suitability of equipment for applying load.
1610.15	Tolerances of diaphragm wall construction.
1611.15	Time period between pile excavation and concrete placement.
1611.17	Tolerances of hard/hard secant pile wall construction.
1612.11	Time period between pile excavation and self hardening mix placement.
1612.13	Tolerances of hard/soft secant pile wall construction.
1613.8	Tolerances of contiguous pile construction.
1617.12	Placing of instrumentation in the concrete cover zone.

**TABLE NG 0/2: (05/02) List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. Sub-Clauses state “ ... unless otherwise described in Appendix -/-”(continued)**

<b>STRUCTURAL CONCRETE</b>	
1701.1	Concrete mix requirements.
1703.1	Types of cement.
1703.2	Specification requirements for lightweight aggregate.
1703.4(i)	Specification requirements for admixtures.
1704.3	Maximum cement content.
1707.1	Specification requirements for sampling and testing.
1708.4(i)	Pattern of formwork joints.
1709.1	Impregnation application in accordance with the manufacturer's instruction.
1710.1(ii)	Use of retarding agent.
1711.1	Timing of full scale grouting trial.
1711.3	Air pressure tests.
1711.5	Maximum water cement ratio.
1711.6	Rate of grout injection.
1714.1	Actual concrete cover to reinforcement.
1717.1	Welding of reinforcement.
1723.1	Alignment tolerance for sheath or duct.
1724.3	Stressing of pretensioned prestressed concrete.
1724.4(iv)	Stressing of post-tensioned prestressed concrete.
<b>STRUCTURAL STEELWORK</b>	
1801.2	Specification requirements for structural steelwork.
1802.1	Requirements for surface preparation and protection against corrosion.

**TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. Sub-Clauses state “ ... unless otherwise described in Appendix -/-”(continued)**

<b>PROTECTION OF STEELWORK AGAINST CORROSION</b>	
1902.1	Use of solvents.
1902.10	Cleaning of final shop coats.
1903.1	Abrasives for dry blast cleaning in shops.
1903.12	Use of air/water/abrasive system for wet blast cleaning on site.
1905.3 (i) & (ii)	Standard of restored surface preparation and coatings.
1906.2	Treatment of threaded fasteners.
1906.7, 1906.8	Metal spraying of joints made with HSEFG bolts.
1906.12	Protective system to non-friction bolted site joints.
1906.16	Stepping back of shop paint coats at non-friction bolted joints.
1909.1	Specification for galvanized coatings.
1909.2	Specification for thermally sprayed metal coatings.
1909.3	Specification for sheradized coatings.
1909.4	Specification for electroplated coatings.
#1911.6, 1911.5SE	Use of paints from more than one source.
#1911.9	Nominal 'ground' or 'plinth level' distance below the door opening.
#1912.1, 1912.1SE	Provision of 'A' samples.
1914.3	Method of application of paint.
1915.1	Requirements for procedure trials.
1917.1	Returning of protective system at surfaces in contact with concrete.
1917.3	Galvanized coatings in contact with concrete.
#1920.1, 1920.1SE	Additional requirements for the protection of steel in bridge bearings.
1921.1	Additional requirements for the protection of steel lighting columns and bracket arms.
<b>WATERPROOFING FOR CONCRETE STRUCTURES</b>	
2006.1	Priming for tar and bitumen waterproofing.
<b>BRIDGE BEARINGS</b>	
2101.1	Specification for supply and installation.
2102.1	Requirements for surface preparation and protection against corrosion.
<b>PARAPETS</b>	
2202.1	Specification requirements for metal parapets.
2202.3	Specification requirements for pedestrian parapets.
2203.1	Specification requirements for anchorages and attachment systems.
2207.1	Inspection requirements for parapet posts.
2207.2	Certification requirements for parapet posts.

**TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. Sub-Clauses state “ ... unless otherwise described in Appendix -/-”(continued)**

<b>BRIDGE EXPANSION JOINTS AND SEALING OF GAPS</b>	
2301.4	Combination of different joint systems.
2304.1	Protective treatment.
<b>BRICKWORK, BLOCKWORK AND STONEMWORK</b>	
2401.1(iii)	Requirement for sulfate resisting Portland cement.
2406.4	Types of brick used in chambers and gullies.
2412.3	Overhand work.
2413.1	Dimensions of stones for stonework.
2413.7	Treatment to exposed face of stone.
2413.9	Dimensions of bond stones in random rubble.
<b>SPECIAL STRUCTURES</b>	
2503.3	Concrete mix requirements.
2504.1	Construction materials for environmental barriers.
2504.5(iii)	Tolerances for environmental barriers.
2504.7	Timber surfaces to be sawn.
2504.9	Fittings for environmental barriers.
2504.19(i)	Results of post tests.
2505.2	Type of pipe to be used between consecutive chambers.
2506.3	Laying of pipes in or under embankments.
2506.9	Usage of rigid joints.
2506.12	Backfill material to trenches.
2506.15	Connections to existing drains.
2506.19	Concrete for cast in situ concrete chambers.
2506.25	Setting levels for replaced chamber frames and covers.
<b>MISCELLANEOUS</b>	
2601.1 (i)	Compressive strength of bedding mortar.
2601.1 (ii)	Temperature range for placing bedding mortar.
2602.4	Nominal maximum size of aggregates for concrete.
2602.6, Table 26/1	Concrete mixes to be used.
2602.9	Requirements for surface finishes.
<b>LANDSCAPE AND ECOLOGY</b>	
3001.1	Notice and liaison to commence work.
3001.14	Inspection reports for activities carried out under Clauses 3007, 3009 and 3010.
3002.7	Weed control by spot application of herbicide.
3002.9	Weed control by cutting.
3002.10	Arisings from weed control operations.
3003.1	Control of rabbits and deer.

**TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. Sub-Clauses state “ ... unless otherwise described in Appendix -/-”(continued)**

<b>LANDSCAPE AND ECOLOGY continued</b>	
3003.5	Treatment of herbage arisings.
3003.9	Joint site inspection to rabbit infested road boundary areas.
3004.1	Vegetation clearance.
3004.2	Application of a non-residual translocated herbicide.
3004.5	Minimum of depth of subsoil treatment
3004.8	Requirement for final preparations of soils.
3005.1	Grass seeding, wildflower seeding and turfing season.
3005.8	Sowing method.
3006.2	Schedule of plants and requirements.
3006.4	Grafted plant supply.
3006.10	Retaining of canes and ties on the plant.
3006.19	Planting time for bulbs.
3006.23	Plant depth for plants other than cell-grown plants.
3006.27	Drainage materials at bottom of 1200mm x 1800mm x 750mm pits.
3006.36	Stakes and ties requirements.
3006.37	Materials permitted for adjustable tree ties, strapping or spacers.
3006.41	Requirements for using shortest possible stake tree above ground.
3006.42	Requirements for fixing ties to all standards and feathered trees.
3006.43	Requirements for driving stakes.
3006.44	Requirements for securing extra heavy standards and heavy standards.
3006.46	Requirements for type of backfill to tree pits.
3006.58	Sizes of mulch-mats.
3006.61	Manufacture requirements for sheet mulch.
3006.89	Requirements for replacement plants and replacements cost.
3007.6	Dispersing of grass clippings and arisings.
3007.24	Treatment of arisings resulting from grass cutting in areas of planting.
3007.29	Requirements for herbicide application to undesirable broad-leafed species.
3008.7	Additional watering.
3010.23	Type of materials used for staking and/or binding.
3010.30	Treatment of all cut material and other arisings.
3010.34	Treatment of cuts and wounds.
3010.65	Requirements for thinning.
3012.13	Use of licensed operatives for works in the vicinity of protected species.

**TABLE NG 0/3: (05/01) List of sub-Clauses which require the Contractor to submit information to the Overseeing Organisation.**

**Note. Information that the Contractor may submit when seeking approval is not listed in this table**

<b>PRELIMINARIES</b>	
#104.2,104.2NI	Contractor's quality plan if indicated in Appendix 1/24.
#104.4,104.4NI	Quality management scheme or a sector scheme for quality management, or product certification scheme - submit certificates of conformity.
#104.6, 104.6NI	Suppliers' Quality Plans and the relevant sector scheme document for quality management in highway works.
#104.7, 104.7NI	Contemporary quality records as identified in BS EN ISO 9002 : 1994.
#104.8, 104.8NI	Quality records required by this Specification, as indicated in Appendix H.
#104.9,104.9NI	British Board of Agrément Certificates - submit certificates.
#104.11	Traffic signs requiring statutory type approval - submit written evidence of approval.
#104.13, 104.13NI	Type approval/registration - submit type approval/registration certificates, as indicated in Appendix E.
#104.16,18, #104.16NI,18NI	Provision of information - submit information and certificates.
105.2	Sampling and testing - supply test results and test certificates, as indicated in Appendix 1/5.
105.6	Sampling and testing - supply and deliver samples for test.
105.6	Provide source samples as described in Appendix 1/6.
106.2	Structures designed by the Contractor - submit Approval in Principle form.
106.3	Structures designed by the Contractor - supply copies of drawings and design certificates.
106.4	Structural elements and other features designed by the Contractor - submit proposals.
111.1	Existing ground levels - submit schedule of levels considered to be in error.
112.1,112.1NI	Permanent ground markers and permanent bench marks - supply details.
113.1	Programme of Works - submit programme.
115.1	Accommodation works - give notice of start dates.
#117.3, 117.3NI	Traffic safety and management - prepare and submit traffic management proposals within given timescale.
#117.5, 117.5NI	Traffic safety and management - submit outline of central reserve crossovers proposed by the Contractor.
#117.6, 117.6NI	Traffic safety and management - provide details agreed with the highway authority.
#117.6, 117.6NI	Traffic safety and management - submit application for statutory orders or notices.
#117.8, 117.8NI	Traffic safety and management - submit proposals for dealing with situations not provided for in the Contract.
#117.11, 117.11NI	Traffic safety and management - give notice within given timescale, for signs to be moved.
#117.19, 117.19NI	Traffic safety and management - provide details of the traffic safety and control officer and nominated deputies.
118.5	Temporary diversions for traffic proposed by the Contractor - submit application for statutory orders or notices.
118.7	Temporary diversions for traffic proposed by the Contractor - provide details agreed with the highway authority.
120.1	Recovery vehicles for breakdowns - submit inspection certificate.
120.7	Recovery vehicles for breakdowns - submit operatives' certificate.
120.8	Recovery vehicles for breakdowns - submit operatives' weekly time sheets.
120.19	Recovery vehicles for breakdowns - submit weekly logs.
122.3	Progress photographs - deliver within 4 weeks of exposure.

**TABLE NG 0/3: List of sub-Clauses which require the Contractor to submit information to the Overseeing Organisation (continued)**

**Note. Information that the Contractor may submit when seeking approval is not listed in this table**

<b>FENCING</b>	
306.7	Report any damage to existing fencing.
<b>SAFETY FENCES, SAFETY BARRIERS AND PEDESTRIAN GUARDRAILS</b>	
402.5(v)	Destructive testing of welds - provide copies of reports for earlier contracts.
402.7(iii)	Wire rope terminals - provide evidence of tensile tests.
403.9	Anchorage in drilled holes - provide evidence of capability.
404.4(i)	Post foundation tests - submit test results.
<b>DRAINAGE AND SERVICE DUCTS</b>	
501.3	Pipes for drainage - provide a schedule.
506.1	Connecting to existing drains - record positions and hand copy to Overseeing Organisation.
506.2	Connecting to existing drains - give notice to responsible authority.
509.5	Foul drains - supply recording of survey by video camera, if required in Appendix 5/1.
511.3	Land drains - give notice if blocked or defective.
514.12	Fin drains - supply consignment details.
515.8	Narrow filter drains - supply consignment details.
516.3	Combined drainage and kerb systems - provide evidence of suitability of application.
517.11	Linear drainage channel systems - provide evidence of fixity of grating systems.
517.17(iii)	Linear drainage channel systems - provide details of connection pipes and fittings.
517.17(iv)	Linear drainage channel systems - provide design calculations.
517.19	Linear drainage channel systems - provide evidence of suitability of materials.
517.20(v)	Linear drainage channel systems - supply details of quality control procedures.
517.20(vii)	Linear drainage channel systems - provide test certificates.
518.1	Thermoplastics structured wall pipes and fittings - provide completed information sheet.
520.3	Cleaning of existing drainage system - Report any damage or defects to bridge drainage system.
520.13	Cleaning of existing drainage system - Report any blockage.
520.21	Cleaning of existing drainage system - Report any damage and defects to drainage system.
<b>EARTHWORKS</b>	
601.18	Record of the type, source of the pulverised and name of the power station and certification of results of tests.
607.2(ii), 607.2(ii)NI	Blasting - give written notice of each blasting event.
609.2	Geotextiles - provide evidence of durability.
612.2	Obtain permission from the Overseeing Organisation before carrying out compaction outside working hours.
613.5	Capping - provide test records substantiating compliance with criteria.
615.4	Lime - make available a report of chemical analysis for each source of available lime made in accordance with sub-Clause 641.2.
617.3	Use of sub-formation or formation by construction plant - make available protection proposal.
629.2	Instrumentation - supply results of monitoring.
630.6	Vibrated stone columns - report if ground conditions differ from those expected.
632.6SE	Moisture condition value - provide test certificate.
637.3	In situ resistivity tests - give notice of date, time and location.
637.6	In situ resistivity tests - make available details of tests when depth is too great.
638.4	In situ redox potential tests - give notice of testing arrangements.
643.4	Lime - make available a report of chemical analysis for each source of available lime made in accordance with sub-Clause 641.2.

**TABLE NG 0/3: List of sub-Clauses which require the Contractor to submit information to the Overseeing Organisation (continued)**

**Note. Information that the Contractor may submit when seeking approval is not listed in this table**

<b>ROAD PAVEMENTS - GENERAL</b>	
709.7	Notify the Overseeing Organisation of proposed programme of milling prior to commencement of work.
710.2	Results of quality control checks - deliver to the Overseeing Organisation on request.
715.9	Report as soon as possible if saw-cut fails to fully cut through reinforcement steel.
715.12	Provide, on demand by the Overseeing Organisation, cracking plant and equipment progress records.
715.21	Record of setting plant and equipment for saw-cut and cracking.
716.6	Report orally to the Overseeing Organisation within one hour and confirm in writing within two hours circumstances for not obtaining crack patterns. cracking plant and equipment progress records.
716.8	Provide, on demand by the Overseeing Organisation.
716.13	Provide certification of exact extent of seating work completed under this sub-Clause.
716.19	Notify the overseeing Organisation any particulars of the surface pattern of cracking.
<b>ROAD PAVEMENTS - UNBOUND, HYDRAULICALLY BOUND AND OTHER MATERIALS</b>	
805.27	Supply evidence of satisfactory strength and compliance of the proposed slag bound material mixture (SBM).
805.28	Supply evidence of proposed SBM mixture at 28 and 90 days at 20°C at 40°C.
806.12	Provide a performance report on the traffic trial behaviour of the type 4 granular sub-base.
<b>ROAD PAVEMENTS - BITUMINOUS BOUND MATERIALS</b>	
910.1	Recipe mix - notification prior to use.
911.1	Design mix - notification prior to use.
918.2(i) & 918.2(iii)	Slurry surfacing incorporating micro surfacing - provide design proposal and a quality plan.
918.4	Slurry surfacing incorporating micro surfacing - provide with the design proposal data sheet.
918.5	Slurry surfacing incorporating micro surfacing - provide mixture tests data.
918.6	Slurry surfacing incorporating micro surfacing - provide test certificate for aggregates.
918.7	Slurry surfacing incorporating micro surfacing - provide binder data sheets.
918.9	Slurry surfacing incorporating micro surfacing machine - provide test certificate.
918.30	Slurry surfacing - supply 'as built' manual within 30 days.
919.3	Surface dressing recipe specification - provide binder data sheets and rheological product identification data for each modified binder.
919.4, 922.6	Binder sprayer - provide test certificate prior to spraying.
919.5, 922.7	Chippings - provide test certificate before work commences.
919.6, 922.9	Chipping spreader - provide test certificates before use.
919.13, 922.14	Binder and chippings tests - report results within 24 hours.
919.18	Surface dressing recipe specification -provide 'as built' manual within 30 days.
920.2	Bond Coats, Tack Coats and Other Bituminous Sprays - provide a quality plan.
922.2(i) & 922.2(iii)	Surface dressing end product performance specification - provide design proposal and a quality plan.
922.4	Surface dressing end product performance specification - provide with the design proposal data sheet.
922.6	Surface dressing end product performance specification - provide test certificate for aggregates.
922.7	Surface dressing end product performance specification - provide binder data sheets.

**TABLE NG 0/3: (05/02)List of sub-Clauses which require the Contractor to submit information to the Overseeing Organisation (continued)**

**Note. Information that the Contractor may submit when seeking approval is not listed in this table**

<b>ROAD PAVEMENTS - BITUMINOUS BOUND MATERIALS <i>continued</i></b>	
922.18	Surface dressing end product performance specification - provide 'as built' manual within 30 days.
924.6	High friction surfacing - quantities, areas and coverage to be reported within 3 days.
926.14	Additional coarse and fine aggregates - amount to be notified.
928.22	Complex shear stiffness modulus and phase angle tests - provide report, graphs and data.
929.9	Design, compaction and compliance tests - provide copies of test sheets and results within 28 days.
929.20	Final nuclear density test - two copies of test results to be provided within 24 hours.
937.38	Stone Mastic Asphalt (SMA) Binder Course and Regulating Course - report results within two weeks.
937.39	Stone Mastic Asphalt (SMA) Binder Course and Regulating Course - provide data sheet for the properties of the modified binders or additive proposed.
938.8	Porous asphalt - proposed modifiers and related information.
938.12, 14	Porous asphalt - duplicate samples.
942.3	Thin surface course systems - provide copy of the BBA HAPAS Roads and Bridges Certificate, quality plan and installation method.
942.4	Thin surface course systems - details of aggregate, filler and bitumen proportions.
942.10	Thin surface course systems - evidence that deformation resistance of regulating material is compatible with sub-Clause 942.7.
943.5	HRA surface course (performance-related design mix) - obtain approvals before tender.
943.8	HRA surface course (performance-related design mix) - submit details.
943.28	Additional sampling and testing - where specified results forwarded within two weeks.
943.29	HRA surface course (performance-related design mix) - report results within two weeks.
943.30	Modified binders - details including weather conditions.
944.14	Design, testing and compliance of performance-specified base - submit location details of each day's production within one-day of material being laid.
949.65	Cold recycled bitumen bound material - declare details of the job standard mixture(s)
<b>ROAD PAVEMENTS - CONCRETE AND CEMENT BOUND MATERIALS</b>	
1028.1	Trial length - submit detailed proposals.
<b>TRAFFIC SIGNS</b>	
#1201.2, 1201.2NAW	Non-prescribed temporary signs - obtain agreement.
#1201.3, 1201.3NAW	Changeable signs (other than mechanical) - statutory type approval.
1202.5	Fabrication of traffic signs - submit fabrication drawings, etc.
1212.18 & 1212.18NI	Removal of permanent road markings.
1213.4,1213.4NI	Reflecting road studs - submit details.
1214.19	Flat traffic delineators - submit test certificate.
1214.21	Temporary cones, cylinders, FTDs, etc. - submit test certification.
<b>ROAD LIGHTING COLUMNS AND BRACKETS AND CCTV MASTS</b>	
1302.1	Lighting columns and brackets and CCTV masts - submit design and check certificates.
1302.2	Lighting columns and luminaires - submit designs for aesthetic approval.
1302.3	Foundations for planted columns - submit designs for acceptance.
1303.1	Data sheets - provide triplicate copies for each type of column and bracket and CCTV mast.
1305.10	Anchorage in drilled holes - provide evidence of capability.
1310.1(7.1.5), 1310.2(7.1.5)	Destructive testing of welds - provide copies of reports for earlier contracts.
1314.10	Evidence of quality control of brackets for laminated GFRP lighting columns.

**TABLE NG 0/3: List of sub-Clauses which require the Contractor to submit information to the Overseeing Organisation.**

**Note. Information that the Contractor may submit when seeking approval is not listed in this table (continued)**

<b>ELECTRICAL WORK FOR ROAD LIGHTING AND TRAFFIC SIGNS</b>	
#1401.1 & 1401.1NI	General - make available at all the times competent persons authorisation certificate.
1402.1	Electrical records - supply drawings, test certificates and manuals.
1402.3	Daily records - provide on next working day.
1402.4	As-built drawings for traffic signals - supply copies on completion.
1421.1	Evidence that each cable has been tested.
1422.2	Jointers competence - supply evidence.
1424.2	Network and lighting unit testing - supply test results.
1424.5	Testing - give at least 7 days' notice.
1424.6	Inspection and Testing - supply certificate verifying compliance.
<b>MOTORWAY COMMUNICATIONS</b>	
1502.4	General requirements - demonstrate competency to undertake work.
1504.1	Supply records.
1504.3	Supply daily records.
1505.2	Cabinets and ancillary items - supply profile of bulk purchase requirements.
1506.3	Cables - provide quality inspection certificates and results of sheath integrity tests.
1506.6	Cable drums - provide record of drums collected.
1513.12	CJE - supply schedule of tests.
1516.4	Cable joints - submit jointer records.
1516.6	Disruption of power supply - give notice.
1518.4	Cable testing - supply test results.
1518.7	Cable testing - give notice of intentions to test cable.
1519.6	Labelling and numbering - supply proposals for cabinet labels.
1521.3	Removal and resiting of existing equipment - give notice of intention to remove redundant equipment.
1525.2	Change to existing motorway network - give notice.
1526.1	The inspection and testing of electrical installations - certificates.
1526.2	Non-compliance of existing cabinets - immediate notifications.
1526.3	Calibration of instruments - copies of tests and certificates.
1527.2	Cable installation at transmission stations - give notice.
1528.4	Modifications to existing cabinets - give notice.
1529.2	Need for temporary emergency telephones - give notice.
1529.5	Need for connections/disconnections - give notice.
1530.8	Duct strapping and spacers - supply proposals.
1533.4	Proving and testing of ducts - certificates.
<b>STRUCTURAL CONCRETE</b>	
1702.3(b)	Obtain approval for the use of the water from the suggested source.
1709.4(iv)	Impregnation - submit temporary work schedule.
1709.6	Impregnation - submit method statement.
1711.1	Concrete Grouting - submit method statement and give 4 week's notice.
1710.8 (i)	Precast concrete construction - give notice of start date of manufacture.

**TABLE NG 0/3: List of sub-Clauses which require the Contractor to submit information to the Overseeing Organisation.**

**Note. Information that the Contractor may submit when seeking approval is not listed in this table (continued)**

<b>WATERPROOFING FOR CONCRETE STRUCTURES</b>	
2003.1	Permitted waterproof system - provide a copy of BBA Road and Bridges Agreement Certificate appropriate to the work to be done.
<b>PARAPETS</b>	
2204 (19.2.5)	Destructive testing of welds - make available reports from earlier contracts.
<b>SPECIAL STRUCTURES</b>	
2503.2	Reinforced clay brickwork retaining walls - provide tests results for water absorption, initial rate of suction and frost resistance designation and salt content, where requested.
2505.3	Reinforced clay brickwork retaining walls - provide a schedule showing details of all pipe types used including joints and name of manufacturer.
2504.15(ii) & (iii)	Environmental barriers : - submit design for aesthetic approval. - submit design calculations. - submit details of materials and components. - submit details of gates. - submit details of fixings. - provide working drawings of the design and details of fabrication.
2504.19	Environmental barriers - make post foundation test results available at least one week.
<b>MISCELLANEOUS</b>	
2601.2(v)	Furnish certificate for each patch or part batch.
2601.4(ii)	Report average time of efflux.
2601.4(iv)(f)	Cementitious bedding materials - report all compressive strengths tests results.
2601.4(v)(d)	Resinous bedding materials - report all compressive strengths tests results.
<b>LANDSCAPE AND ECOLOGY</b>	
3001.1	Notice and Liaison - give 48 hours' notice for operation stated in sub-Clause and appendix 30/1.
3001.2	Peat - provide proof that peat is extracted from areas of little conservation value.
3001.4	Pesticide Application - provide evidence of competency in the use of pesticides.
3001.12	Pesticide Application - provide copies of all record form of all pesticide use.
3001.14	Inspection Reports - provide inspection reports for all activities carried out under Clauses 3007, 3009 and 3010.
3005.6	Seed - provide grass seed certificates.
3005.7	Seed - provide evidence that seeds comply with any provenance requirements described in appendix 30/1.
3005.15	Turf - notify source of turf.
3006.6	Plants - provide written evidence of seed origin of plant prior to planting.
3006.7	Plants - provide written evidence that the supply of bulbs is from a cultivated source and give 14 days' notice prior to delivery.

**Preamble to the Specification**

**1** The Specification referred to in the Tender shall be the ‘Specification for Highway Works’, published by the Stationery Office (formerly HMSO) as Volume 1 of the Manual of Contract Documents for Highway Works, as modified and extended by the following:

- (i) Appendix 0/1: Contract-specific Additional, Substitute and Cancelled Clauses, Tables and Figures;
- (ii) Appendix 0/2: Contract-specific minor alterations to existing Clauses, Tables and Figures;
- (iii) The Numbered Appendices listed in Appendix 0/3;
- (iv) Appendix 0/5: Special national alterations of the Overseeing Organisation of Scotland, Wales or Northern Ireland.

Appendix 0/4 contains a list of the Drawings.

**2** The relevant publication date of each page of the Specification for Highway Works is given in the Schedule of Pages and Relevant Publication Dates.

**3** An Additional Clause as indicated by a suffix ‘A’ in Appendix 0/5 is an alteration originating from the Overseeing Organisation of Scotland, Wales or Northern Ireland. An Additional Clause as indicated by a suffix ‘AR’ in Appendix 0/1 is a Contract-specific alteration.

**4** A Substitute Clause, as indicated by the suffix ‘S’ in Appendix 0/5 is an alteration originating from the Overseeing Organisation of Scotland, Wales or Northern Ireland. A Substitute Clause as indicated by a suffix ‘SR’ in Appendix 0/1 is a Contract-specific alteration.

**5** A Cancelled Clause as indicated by a suffix ‘C’ in Appendix 0/5 is an alteration originating from the Overseeing Organisation of Scotland, Wales or Northern Ireland. A Cancelled Clause indicated by a suffix ‘CR’ in Appendix 0/1 is a Contract-specific alteration.

**6** Insofar as any of the Numbered Appendices may conflict or be inconsistent with any provision of the Specification for Highway Works the Numbered Appendices shall always prevail. Additionally, Numbered Appendices 0/1 and 0/2 shall take precedence over Numbered Appendix 0/5.

**7** Any reference in the Contract to a Clause number or Appendix shall be deemed to refer to the corresponding Substitute Clause number or Appendix listed in Appendix 0/1, 0/2 or 0/5.

**8** Where a Clause is altered any original Table/Figure referred to in the Clause shall apply unless the Table/Figure is also altered. Where a Table/Figure is altered any reference in a Clause to the original Table/Figure shall apply to the altered Table/Figure.

**9** Where a Clause in the Specification relates to work goods or materials which are not required for the Works it shall be deemed not to apply.

**10** Any Appendix referred to in the Specification which is not used shall be deemed not to apply.

**11** Where a Clause in the Specification is prefixed by an # this indicates that this particular Clause has a substitute National Alteration for one or more of the Overseeing Organisations of Scotland, Wales or Northern Ireland. Substitute or additional National Clauses shall be used within countries to which they specifically apply and they are deemed to replace corresponding Clauses in the main text of the Specification as appropriate. The substitute National Clauses are located at the end of the relevant Series together with the additional National Clauses of the Overseeing Organisations.

**12** Other than where references to the Overseeing Organisation are made in the context of the Overseeing Organisation granting statutory or type approvals, the roles and functions of the Overseeing Organisation shall be undertaken by .....†.

Where the Specification requires the provision of documentation to the Overseeing Organisation for statutory or type approval such documentation shall be provided to .....†.

**13** If the Specification is used in conjunction with a Contract under which the Contractor is responsible for the design of any part of the Permanent Works, the delegation of the roles and functions of the Overseeing Organisation as stated in paragraph 12 above shall be amended as follows:

- (i) If any agreement, consent or approval required to be obtained from the Overseeing Organisation impacts on the health and safety of the general public, the environment or any property or equipment not owned or operated by the Contractor or the Design Build Finance and Operate concessionaire, such agreement, consent, approval shall be obtained from ..... \*
- (ii) Where the Specification provides for the Overseeing Organisation to require a test, waive the requirement for a test or alter testing frequency, the party to whom the Overseeing Organisation’s roles and functions have been ascribed by paragraph

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12 above shall exercise such decisions in accordance with the Secretary of State's requirements stated in the Contract.\*\*

† Engineer: Project Manager: Designer etc as drawn from the Conditions of Contract.

\* Employer's Agent: Employer's Representative: Department's Agent etc as drawn from the Conditions of Contract.

\*\* Construction Requirements/Employer's Requirements.

*[Note to compiler: Where applicable the Preamble to the Specification and the Schedule of Pages and Relevant Publication Dates should be reproduced unaltered and bound in the Specification with the Numbered Appendices. A revised Schedule of Pages and Relevant Publication Dates will be included in each published national alteration to the Specification for Highway Works.]*

*[Note to compiler: Alterations relating to Bills of Quantities for Highway Works are included in a corresponding amendment to Volume 4 of the Manual of Contract Documents for Highway Works.]*

SUPERSEDED

**Specification for Highway Works**  
**Schedule of Pages and Relevant Publication Dates**

Series/Appendix	Page Number	Publication Date
000	1	March 1998
000	2 to 3F	May 2001
100	1 to 15F, W1F, N1 to N6F	May 2001
200	1 to 3F	May 2001
300	1	May 2001
300	2 to 6F	November 2002
400	1 to 12F	May 2001
500	1 to 27F, N1 to N3F	May 2001
600	1 to 29, 31 to 55, 57 to 60F, S1F, N1 to N3F	May 2001
600	30 and 56	November 2002
700	6 to 8, 10 to 17, N5F	May 2001
700	1 to 2, 5, 9, 18 to 25F, N4	May 2002
700	3 to 4, N1 to N3	November 2002
800	1 to 11F, S1F, N1 to N6F	May 2001
900	46 to 49	May 2001
900	2 to 3, 5 and 50	May 2002
900	1, 4, 6 to 45, 51 to 67F	November 2002
1000	4 to 8, 10 to 19,	May 2001
1000	2 to 3, 9	May 2002
1000	1, 20 to 47F	November 2002
1100	1, 3 to 4F, N1 to N2F	May 2001
1100	2	March 1998
1200	1 to 2, 5 to 15F, W1F, N1 to N4F	May 2001
1200	3 to 4	March 1998
1300	1 to 11F, N1F	May 2001
1400	1	March 1998
1400	2 to 8F, N1F	May 2001
1500	1 to 17F	May 2001
1600	1 to 49F	March 1998
1700	1 to 36F	May 2002
1800	1 to 10F	May 2001
1900	1 to 29F, S1 to S2F	May 2001
2000	1 to 4F	May 2001
2100	1 to 4F	March 1998
2200	1 to 3F	May 2001
2300	1	March 1998
2300	2 to 3F	May 2001
2400	1 to 4F	March 1998
2500	1 to 11F	May 2001
2600	1 to 7F	March 1998
3000	1 to 27F	May 2001
Appendix A	3 to 4, 7 to 8, 10 to 12F	May 2001
Appendix A	1 to 2, 5 to 6, 9	November 2002
Appendix B	2 to 5	May 2002
Appendix B	1	November 2002
Appendix B	6F	May 2001
Appendix C	1 to 2F	May 2002
#Appendix D	1F	May 2001
Appendix D (NI)	N1F	March 1998
#Appendix E	1F	May 2001
Appendix E (NI)	N1F	May 2001

Series/Appendix	Page Number	Publication Date
Appendix F	5 to 11, 13	May 2001
Appendix F	2 to 3, 12, 15 to 17, 19 to 23, 25	May 2002
Appendix F	1, 4, 14, 18, 24, 26 to 41F	November 2002
Appendix G	1F	March 1998
Appendix H	1, 7F	May 2001
Appendix H	4 to 5	May 2002
Appendix H	2 to 6	November 2002

SUPERSEDED

**NG SAMPLE APPENDIX 0/1: (05/01) CONTRACT-SPECIFIC ADDITIONAL, SUBSTITUTE AND CANCELLED CLAUSES, TABLES AND FIGURES INCLUDED IN THE CONTRACT**

**PART A: VOLUME 1 SPECIFICATION**

*[Note to compiler: See NG 000 regarding approval of contents of Appendix 0/1]*

**List of Additional Clauses, Tables and Figures**

Clause No. (etc.)	Title	Written on Page No. following
<i>[Note to compiler: List here Contract-specific Additional Clauses, Tables and Figures suffixed by the letters AR and preferably commencing with the 70th Clause, etc. of the respective Series]</i>		

**List of Substitute Clauses, Tables and Figures**

Clause No. (etc.)	Title	Written on Page No. following
<i>[Note to compiler: List here Contract-specific Substitute Clauses, Tables and Figures suffixed by the letters SR]</i>		

**List of Cancelled Clauses, Tables and Figures**

Clause No. (etc.)	Title	
<i>[Note to compiler: List here Contract-specific Cancelled Clauses, Tables and Figures suffixed by the letters CR]</i>		

**Additional Clauses, Tables and Figures**

Clause No. (etc.)	Title and written text
<i>[Note to compiler: Write here the Additional Clause etc. listed above]</i>	

**Substitute Clauses, Tables and Figures**

Clause No. (etc.)	Title and rewritten text
<i>[Note to compiler: Rewrite here the Substitute Clause etc. listed above]</i>	

**NG SAMPLE APPENDIX 0/1: (05/01) CONTRACT-SPECIFIC ADDITIONAL, SUBSTITUTE AND CANCELLED CLAUSES, TABLES AND FIGURES INCLUDED IN THE CONTRACT**

**PART B: VOLUME 2 NOTES FOR GUIDANCE ON THE SPECIFICATION FOR HIGHWAY WORKS**

*[Note to compiler: This is to be used only in circumstances where the Notes for Guidance on the Specification for Highway Works are brought into the Contract.]*

**List of Additional Clauses, Tables and Figures**

Clause No. (etc.)	Title	Written on Page No. following
<i>[Note to compiler: List here Contract-specific Additional Clauses, Tables and Figures suffixed by the letters AR and preferably commencing with the 70th Clause, etc. of the respective Series]</i>		

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**List of Substitute Clauses, Tables and Figures**

Clause No. (etc.)	Title	Written on Page No. following
<i>[Note to compiler: List here Contract-specific Substitute Clauses, Tables and Figures suffixed by the letters SR]</i>		

**List of Cancelled Clauses, Tables and Figures**

Clause No. (etc.)	Title
<i>[Note to compiler: List here Contract-specific Cancelled Clauses, Tables and Figures suffixed by the letters CR]</i>	

**Additional Clauses, Tables and Figures**

Clause No. (etc.)	Title and written text
<i>[Note to compiler: Write here the Additional Clause etc. listed above]</i>	

**Substitute Clauses, Tables and Figures**

Clause No. (etc.)	Title and rewritten text
<i>[Note to compiler: Rewrite here the Substitute Clause etc. listed above]</i>	

**NG SAMPLE APPENDIX 0/2: (05/01) CONTRACT-SPECIFIC MINOR ALTERATIONS TO EXISTING CLAUSES, TABLES AND FIGURES INCLUDED IN THE CONTRACT**

**PART A: VOLUME 1 SPECIFICATION**

*[Note to compiler: See NG 000 regarding approval of contents of Appendix 0/2]*

Clause No. (etc.)	Alterations to be made
<i>[Note to compiler: Write here the minor alteration using 'delete and insert' or 'add at end of Clause' techniques]</i>	

**NG SAMPLE APPENDIX 0/2: (05/01) CONTRACT-SPECIFIC MINOR ALTERATIONS TO EXISTING CLAUSES, TABLES AND FIGURES INCLUDED IN THE CONTRACT**

**PART B: VOLUME 2 NOTES FOR GUIDANCE ON THE SPECIFICATION FOR HIGHWAY WORKS**

*[Note to compiler: 1. See NG 000 regarding approval of contents of Appendix 0/2.  
2. This is to be used only in circumstances where the Notes for Guidance on the Specification for Highway Works are brought into the Contract.]*

Clause No. (etc.)	Alterations to be made
<i>[Note to compiler: Write here the minor alteration using 'delete and insert' or 'add at end of Clause' techniques]</i>	

**NG SAMPLE APPENDIX 0/3: LIST OF NUMBERED APPENDICES REFERRED TO IN THE SPECIFICATION AND INCLUDED IN THE CONTRACT**

*[Note to compiler: Include the following explanatory statements relating to List A and List B]*

**Appendix 0/3 is comprised of two lists, A and B, of Numbered Appendices as follows:**

List ‘A’ is a complete list of the Numbered Appendices referred to in the Specification for Highway Works with those not adopted marked ‘Not Used’. Those identified by the letters T or C shall be completed by the Tenderer or Contractor respectively.

*[Note to compiler: Reproduce here the following sample List A deleting the word ‘Sample’ and adding Volume No. where each is located within the documents and stating those Numbered Appendices not used. Omit the symbols relating to the type of Numbered Appendices except those Appendices that the Tenderer and/or Contractor completes; ensure the ‘Instructions for Tendering’ correspond.]*

**(05/01) Guide to types of Numbered Appendices - who compiles/completes**

*[Note to compiler: The symbols on Sample List A indicate the different types of Numbered Appendices to be included in the Contract documents.]*

- (05/01) Symbol
- (Co) Compiler compiles: Identified in the Notes for Guidance examples by the term ‘Sample’ included in their title
- (Co/C) Compiler partially compiles and Contractor completes and returns to Overseeing Organisation
- (Co/T) Compiler partially compiles and Tenderer completes and returns with Tender
- (C) Contractor completes and returns to Overseeing Organisation
- (P) This indicates the Appendix is a national proforma and format must not be altered

**List ‘B’ gives the list of Contract-specific Numbered Appendices devised for the Contract.**

*[Note to compiler: Preferably commence the numbering of these Contract-specific Numbered Appendices at the 70th Appendix of the respective Series (eg. 1/70) to avoid conflict with future national Additional Numbered Appendices.]*

Volume No.	Appendix No.	Appendix Title

**Sample List 'A': (05/01) List of Numbered Appendices Referred to in the Specification for Highway Works**

Volume No.	Completed by	Appx No.	Title
		( 0/1	INTRODUCTION
	(Co)	( 0/2	Contract-specific Additional, Substitute and Cancelled Clauses, Tables and Figures Included in the Contract
		( 0/3	Contract-specific Minor Alterations to Existing Clauses, Tables and Figures Included in the Contract
		( 0/4	List of Numbered Appendices Referred to in the Specification and Included in the Contract
		( 0/5	List of Drawings Included in the Contract
		(	Special National Alterations of the Overseeing Organisations of Scotland/Wales/Northern Ireland
		( 1/1	PRELIMINARIES
		( 1/2#	Temporary Accommodation and Equipment for the Overseeing Organisation
		( 1/3	Vehicles for the Overseeing Organisation
		( 1/4	Communication System for the Overseeing Organisation
		( 1/5	Working and Fabrication Drawings
		( 1/6	Testing to be Carried out by the Contractor
		( 1/7	Supply and Delivery of Samples to the Overseeing Organisation
		( 1/8	Site Extent and Limitations on Use
		( 1/9	Operatives for the Overseeing Organisation
		( 1/10	Control of Noise and Vibration
		( 1/11	Structures to be Designed by the Contractor
		( 1/12	Structural Elements and Other Features to be Designed by the Contractor
		( 1/13	Setting Out and Existing Ground Levels
		( 1/14	Programme of Works
	(Co)	( 1/15	Payment Applications
	(Co)(C)	( 1/16	Accommodation Works
		( 1/17	Privately & Publicly Owned Services & Supplies
		( 1/18	Traffic Safety & Management
		( 1/19	Temporary Diversions for Traffic
		( 1/20#	Routeing of Vehicles
		( 1/21	Recovery Vehicles for Breakdowns
		( 1/22	Information Boards
		( 1/23	Progress Photographs
		( 1/24	Risks to Health and Safety from Materials or Substances
		( 1/25	Quality Management System
		( 1/26	Temporary Closed Circuit Television (CCTV) System for the Monitoring of Traffic
		( 1/27	Temporary Automatic Speed Camera System for the Enforcement of Mandatory Speed Limits at Road Works (TASCAR)
		(	Temporary Automatic Speed Camera System for the Enforcement of Mandatory Speed Limits at Road Works (TASCAR) - Particular Requirements
		( 2/1	SITE CLEARANCE
		( 2/2	List of Buildings, etc. to be Demolished
	(Co)	( 2/3	Filling of Trenches & Pipes
		( 2/4	Retention of Material Arising from Site Clearance
		( 2/5	Explosives & Blasting
		(	Hazardous Materials
	(Co)	3/1	FENCING AND ENVIRONMENTAL BARRIERS
			Fencing, Gates and Stiles
	(Co)	( 4/1	SAFETY FENCES, SAFETY BARRIERS AND PEDESTRIAN GUARDRAILS
		( 4/2	Safety Fences and Safety Barriers
		(	Pedestrian Guardrails
		( 5/1	DRAINAGE AND SERVICE DUCTS
		( 5/2	Drainage Requirements
		(	Service Duct Requirements

**Sample List 'A': (05/02) List of Numbered Appendices Referred to in the Specification for Highway Works [Continued]**

Volume No.	Completed by	Appx No.	Title
	(Co)	( 5/3	DRAINAGE AND SERVICE DUCTS (Continued)
		( 5/4	Surface Water Channels and Drainage Channel Blocks
		( 5/5	Fin Drains and Narrow Filter Drains
		( 5/6	Combined Drainage and Kerb Systems
		( 5/7	Linear Drainage Channel Systems
		( 5/7	Thermoplastics Structural Wall Pipes and Fittings
			<b>EARTHWORKS</b>
		( 6/1	Requirements for Acceptability & Testing etc. of Earthworks Materials
		( 6/2	Requirements for Dealing with Class U2 Unacceptable Material
		( 6/3	Requirements for Excavation, Deposition, Compaction (Other than Dynamic Compaction)
		( 6/4	Requirements for Class 3 Material
		( 6/5	Geotextiles Used to Separate Earthworks Materials
	(Co)	( 6/6	Fill to Structures & Fill Above Structural Foundations
		( 6/7	Sub-formation & Capping & Preparation & Surface Treatment of Formation
		( 6/8	Topsoiling
		( 6/9	Earthwork Environmental Bunds, Landscape Areas, Strengthened Embankments
		( 6/10	Ground Anchorages, Crib Walling and Gabions
	(Co)	( 6/11	Swallow Holes & Other Naturally Occurring Cavities & Disused Mine Workings
		( 6/12	Instrumentation & Monitoring
		( 6/13	Ground Improvement
			<b>ROAD PAVEMENTS - GENERAL</b>
	(Co)	( 7/1	Permitted Pavement Options Sheets 1, 2 & 3
		( 7/2	Excavation & Reinstatement of Existing Surfaces
	(Co)(C)(T)(P)	( 7/3	Surface Dressing Sheets 1 & 2
		( 7/4	Bituminous Sprays
		( 7/5	In Situ Recycling: The Remix and Repave Processes
		( 7/6	Breaking Up or Perforation of Existing Pavement
	(Co)(C)(T)(P)	( 7/7	Slurry Surfacing Incorporating Microsurfacing (Sheets 1, 2 & 3)
		( 7/8	Not Used
		( 7/9	Cold-Milling (Planing) of Bituminous Bound Flexible Pavement
	(C)	( 7/10	Worksheet Pro Forma for Results of Testing for Constituent Materials in Recycled Coarse Aggregate and Recycled Concrete
		( 7/11	Overbanding and Inlaid Crack Sealing Systems
		( 7/12	Arrester Beds
	(C)	( 7/13	Saw-Cut and Seal Bituminous Overlays on Existing Concrete Pavements
		( 7/14	Preparation of Jointed Concrete Pavements Prior to Overlaying and Saw-Cutting and Seal of Bituminous Overlay
		( 7/15	Saw-Cut and Seal Existing Jointed Concrete Pavements
		( 7/16	Cracking and Sealing of Existing Jointed Unreinforced Concrete Pavements and CBM Bases
	(C)	( 7/17	Cracking Plant and Equipment Progress Record
	(Co)	( 7/18	Site Specific Details and Requirements for Cold Recycled Bitumen Bound Material
		( 7/19	Site Specific Details and Requirements for Recycled Cement Bound Material
		( 7/20	Site Specific Details and Requirements for Inducing Cracks
	(Co)(C)(T)	( 7/21	Surface Dressing - Recipe Specification (Sheets 1 & 2)
		( 7/22	Repair to Potholes
			<b>ROAD PAVEMENTS - CONCRETE AND CEMENT BOUND MATERIALS</b>
	(T)	( 10/1	Plant and Equipment for the Construction of Exposed Aggregate Concrete Surface
			<b>KERBS, FOOTWAYS AND PAVED AREAS</b>
	(Co)	( 11/1	Kerbs, Footways & Paved Areas
	(Co)	( 11/2#	Access Steps
			<b>TRAFFIC SIGNS</b>
		( 12/1#	Traffic Signs: General
	(Co)	( 12/2	Traffic Signs: Marker Posts

**Sample List 'A': List of Numbered Appendices Referred to in the Specification for Highway Works [Continued]**

Volume No.	Completed by	Appx No.	Title
	(Co)	( 12/3 ( 12/4 ( 12/5 ( 12/6	TRAFFIC SIGNS (Continued) Traffic Signs: Road Markings and Studs Traffic Signs: Cones, Cylinders, FTDs & Other Traffic Delineators Traffic Signs: Traffic Signals Traffic Signs: Special Sign Requirements on Gantries
	(Co) (C)(P) (P) (Co) (C)(P) (P)	( 13/1# ( 13/2 ( 13/3 ( 13/4 ( 13/5 ( 13/6	ROAD LIGHTING COLUMNS AND BRACKETS Information to be Provided When Specifying Lighting Columns & Brackets Column & Bracket Data Sheets 1 & 2 Instructions for Completion of Column & Bracket Data Sheets Information to be Provided When Specifying CCTV Masts Typical CCTV Mast Data Sheet Instructions for Completion of CCTV Mast Sheets
	(Co) (Co/C)	( 14/1 ( 14/2 ( 14/3 14/4 14/5	ELECTRICAL WORK FOR ROAD LIGHTING AND TRAFFIC SIGNS Site Records Location of Lighting Units & Feeder Pillars Temporary Lighting Electrical Equipment for Road Lighting Electrical Equipment for Traffic Signs
	(Co)	15/1 15/2	MOTORWAY COMMUNICATIONS Motorway Communications Cable Duct Requirements
	(Co)	( 16/1 ( 16/2 ( 16/3 ( 16/4 ( 16/5 ( 16/6 ( 16/7 ( 16/8 ( 16/9 ( 16/10 ( 16/11 ( 16/12 ( 16/13 ( 16/14 ( 16/15 ( 16/16 ( 16/17 ( 16/18	PILING AND EMBEDDED RETAINING WALLS General Requirements for Piling and Embedded Retaining Walls Precast Reinforced and Prestressed Concrete Piles and Precast Reinforced Concrete Segmental Piles Bored Cast-in Place Piles Bored Piles Constructed using Continuous Flight Augers and Concrete or Grout Injection through Hollow Auger Stems Driven Cast-in-Place Piles Steel Bearing Piles Reduction of Friction on Piles Non-Destructive Methods for Testing Piles Static Load Testing of Piles Diaphragm Walls Hard/Hard Secant Pile Walls Hard/Soft Secant Pile Walls Contiguous Bored Pile Walls King Post Walls Steel Sheet Piles Integrity Testing of Wall Elements Instrumentation for Piles and Embedded Walls Support Fluid
	(Co)	( 17/1 ( 17/2 ( 17/3 ( 17/4 ( 17/5 ( 17/6	STRUCTURAL CONCRETE Concrete - Classification of Mixes Concrete - Impregnation Schedule Concrete - Surface Finishes Concrete - General Buried Concrete (05/02) Grouting and Duct Systems for Post-tensioned Tendons
	(Co)	18/1	STRUCTURAL STEELWORK Requirements for Structural Steelwork

**Sample List 'A': List of Numbered Appendices Referred to in the Specification for Highway Works [Continued]**

Volume No.	Completed by	Appx No.	Title
	(C)(P) (	19/1	PROTECTION OF STEELWORK AGAINST CORROSION Form HA/P1 (New Works) Paint System Sheet
	(C)(P) (	19/2	Requirements for Other Works
	(C)(P) (	19/3	Form HA/P2 Paint Data Sheet
	(C)(P) (	19/4#	Form HA/P3 Paint Sample Despatch List, sheets 1&2
	(Co) (	19/5	General Requirements
	(Co) (	20/1	WATERPROOFING FOR STRUCTURES Waterproofing for Concrete Structures
	(Co) (	21/1	BRIDGE BEARINGS Bridge Bearing Schedule
	(Co) (	22/1	PARAPETS Parapet Schedule
	(Co)	23/1	BRIDGE EXPANSION JOINTS AND SEALING OF GAPS Bridge Deck Expansion Joints Schedule
	(Co)	23/2	Sealing of Gaps Schedule (Other than in Bridge Deck Expansion Joints)
	(Co)	24/1	BRICKWORK, BLOCKWORK AND STONEMWORK Brickwork, Blockwork and Stonework
	(Co) (	25/1	SPECIAL STRUCTURES Requirements for Corrugated Steel Buried Structures
	(	25/2	Requirements for Reinforced Soil and Anchored Earth Structures
	(	25/3	Requirements for Pocket - Type and Grouted Cavity Reinforced Brickwork Retaining Wall Structures
	(Co) (	25/4	Environmental Barriers
	(	25/5	Requirements for Buried Rigid Pipes for Drainage Structures
	(Co) (	26/1	MISCELLANEOUS Ancillary Concrete
	(	26/2	Bedding Mortar
	(	26/3	Cored Thermoplastic Node Markers
	(Co)(C)(P) (	30/1	LANDSCAPE AND ECOLOGY General, sheets 1, 2 & 3
	(	30/2	Weed Control
	(Co) (	30/3	Control of Rabbits and Deer
	(	30/4	Ground Preparation
	(Co) (	30/5	Grass Seeding, Wildflower Seeding and Turfing
	(Co)(C)(P) (	30/6	Planting, sheets 1 & 2
	(Co) (	30/7	Grass, Bulbs and Wildflower Maintenance
	(	30/8	Watering
	(	30/9	Establishment Maintenance for Planting
	(Co) (	30/10	Maintenance of Established Trees and Shrubs
	(	30/11	Management of Waterbodies
	(	30/12	Special Ecological Measures

[Note to compiler:

# These Appendices relate to alternatives in the Sample Appendices to be used in contracts administered by the Overseeing Organisation of Scotland, Wales or Northern Ireland.]

**NG SAMPLE APPENDIX 0/4: LIST OF DRAWINGS INCLUDED IN THE CONTRACT**

**1 Contract-specific Drawings Supplied to Each Tenderer**

Drawing No.	Title
<i>[Note to compiler: List here all drawings especially drafted for the Contract. Also include re-numbered HCD which have Contract-specific amendments. See Notes to compiler on HCD below.]</i>	

**2 Standard Drawings**

**2(i) Supplied to Each Tenderer**

Drawing No.	Title	Volume No.
<i>[Note to compiler: List here any Standard Drawings being supplied to each tenderer unless they have been re-numbered and included in 1 above or are included in 2(ii) below for inspection by tenderers. Compiler can obtain copies of Standard Drawings from the Overseeing Organisation.]</i>		

**2(ii) (05/01) Inspected by Tenderers**

The following drawings are made available for inspection by tenderers at:

.....  
between the following dates .....  
and at the following times .....

One copy will be supplied to the Contractor.

Drawing No.	Title	Aspect required if not whole Drawing

**2(iii) Brought Into the Contract by Reference**

HCD published by The Stationery Office (formerly HMSO) as Volume 3 of the Manual of Contract Documents for Highway Works contains the following drawings brought into the Contract by reference. Unless otherwise stated below the whole drawing is brought into the Contract.

Drawing No.	Title	Date	Aspect/Alternative(s) required if not whole Drawing
<i>[Notes to compiler regarding HCD:</i>			

- 1 The drawings in the HCD are intended to be used directly in the Contract without reproducing them in the documents and without supplying them to the Contractor. The individual drawings to be included in the Contract are to be listed in 2(iii) by stating the drawing number (with amendment reference ie. A, B etc.), date, and aspect or permitted alternative(s) where the whole drawing is not required.*
- 2 Many drawings in the HCD contain more than one detail covering the same subject. Where alternatives are shown it is essential that the particular requirements or permitted alternatives are identified. These are to be stated in 2(iii).*
- 3 The intention is that the drawings in the HCD should be used without amendment but if this becomes essential, approval from the Overseeing Organisation will be necessary. A copy of the amended HCD is then to be incorporated in the documents and listed in Appendix 0/4 with a unique drawing number and new date inserted in the date panel.]*

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**NG SAMPLE APPENDIX 0/5: SPECIAL NATIONAL ALTERATIONS OF THE OVERSEEING ORGANISATION OF SCOTLAND/WALES/NORTHERN IRELAND**  
*[delete as appropriate]*

The following Additions, Substitutions, Cancellations and minor alterations shall be made:

*[Notes to compiler:*

*1 Include here any Special National Alterations of the Overseeing Organisation of Scotland, Wales or Northern Ireland using the 'A' suffix for Additional Clauses, 'S' suffix for Substitute Clauses and 'C' suffix to denote Cancelled Clauses, on the same basis as Appendix 0/1. Minor alterations should be on the same basis as Appendix 0/2.*

*2 Any Additional Clauses, etc. to be included in Appendix 0/5 should commence with the 50th number of the Series, or be numbered sequentially with the National Alteration Clauses contained in the SHW.]*

SUPERSEDED