

APPENDIX A

QUALITY MANAGEMENT SCHEMES

PART 1 (11/07): Accepted Quality Management Schemes

National Highway Sector Schemes (NHSS) are being progressively developed in the UK by Technical Advisory Committees having representation from Highway Authorities, relevant Trade Associations, Certification Bodies and training organisations to provide a consistent standard for each sector scheme. Such schemes will be identified separately within the scope of accreditation of each certification body accredited by the United Kingdom Accreditation Service (UKAS) or equivalent European Accreditation Organisation, which is party to a multi-lateral agreement with UKAS. (The scopes of UK accredited certification bodies are available on the UKAS web site (www.ukas.com)). Only current certificates of assessment to the relevant NHSS, which have been issued to organizations by these UKAS accredited certification bodies, shall be acceptable to the Overseeing Organisation. Such certificates shall include reference to the particular sector scheme document (SSD) and relevant scope.

Currently, 23 of the quality management schemes listed in this Appendix have been implemented as NHSS or will shortly be implemented. Table A/2 identifies these and other accepted schemes and it lists known certification bodies who are believed to have obtained accreditation against NHSS and other certification body quality management schemes that have been accepted by the Overseeing Organisations. Copies of sector scheme documents are available from UKAS Publication Sales. They can also be accessed from the UKAS web site (http://www.ukas.com/information_centre/publications.asp). Alternatively, where an Organization wishes to become registered to an NHSS they can be obtained from certification bodies having accreditation from UKAS (or equivalent body) for the relevant sector scheme. Full details of the accepted quality management schemes referred to in Clause 104 are given in Part 2 of this Appendix. Table A/1 provides a matrix of the schemes against Specification Series.

TABLE A/1: (11/07) Matrix of Specification Series against Accepted Quality Management Schemes Referred to in Clause 104

Series	Quality Management Scheme Number(s) which apply (See Part 2 for full Scheme details)										
	1	2 N	3	4 N	5 N †	6 N	7 N	8 N*	9A N ††	9B N*	10 N*
100											
300	✓	✓	✓	✓							
400	✓	✓	✓		✓						
500			✓								
600											
900											
1200							✓	✓		✓	✓
1300			✓			✓					
1400											✓
1500											
1600											
1700											
1800			✓								
1900											
2100											
2500	✓	✓	✓								
3000											
5000											

TABLE A/1: (11/07) Matrix of Specification Series against Accepted Quality Management Schemes Referred to in Clause 104 (continued)

Series	Quality Management Scheme Number(s) which apply (See Part 2 for full Scheme details)										
	11	12 N†	13 N	14 N	15 N†	16 N	17 N†††	18 N**	19A N**	20 N****	21 N***
100		✓					✓				
300											
400											✓
500											
600								✓			
900			✓	✓	✓	✓					
1200									✓		
1300									✓		
1400											
1500									✓		
1600									✓		
1700	✓										
1800									✓	✓	
1900									✓		
2100									✓		
2500									✓		
3000										✓	
5000										✓	

TABLE A/1: (11/07) Matrix of Specification Series against Accepted Quality Management Schemes Referred to in Clause 104 (continued)

- Notes:
1. (11/07) N† indicates that these quality management schemes have been implemented as national highway sector schemes 5A (The Manufacture of Parapets for Road Restraint Systems), 5B (The Installation of Parapets for Road Restraint Systems), 12A (Installing, maintaining and removing static temporary traffic management on motorways and high speed dual carriageways for schemes incorporating contraflow operations and/or temporary road markings), 12B (Static Temporary Traffic Management on Motorways and High Speed Dual Carriageways for Schemes Not Incorporating Contraflow Operations and/or Temporary Road Markings), 12C (Mobile Lane Closure Traffic Management on Motorways and Other Dual Carriageways) and 12D (Installing, maintaining and removing temporary traffic management on rural and urban roads). National highway sector schemes 12A and 12B were published as a combined document on 1 November 2006.
 2. (05/07) N†† indicates that national highway sector scheme 9A has been implemented and replaces existing certification body schemes 9 twelve months after publication on the UKAS website (January 2006). The period between publication and full implementation shall be regarded as a transitional period to allow registered organizations and certification bodies time to obtain registration and accreditation respectively against this NHSS. The transition period has been extended by a further 3 months ie to 1 March 2007.
 3. (11/07) N* indicates that national highway schemes 8, 9B and 10 are now combined into a single NHSS with a single sector scheme document.
 4. (11/07) N** indicates that national highway sector schemes 18 (The Environment and Landscape including Ecology) and 19A (Corrosion Protection of Ferrous Materials by Industrial Coatings) have been published on the UKAS website and are programmed for implementation on 1 August 2008 and 1 February 2008 respectively.
 5. (11/07) N indicates implementation of other national highway sector schemes which has taken place.
 6. (11/07) N*** indicates that national highway sector scheme 21 (The Installation, Maintenance and Repair of Insitu Concrete Vehicle Restraint Systems) is programmed for implementation 12 months after its publication on the UKAS website (publication is planned for autumn 2007).
 7. (11/07) N††† indicates that national highway sector scheme 17B (Vehicle Recovery and Removal on Controlled Roads) has been published on the UKAS website and is programmed for implementation on 1 April 2008.
 8. (11/07) N**** indicates that national highway sector scheme 20 (The Execution of Steelwork in Transportation Infrastructure Assets) is programmed for implementation as least 21 months after its publication on the UKAS website (publication is planned for winter 2007/spring 2008) or 21 months after the the publication of BS EN 1090-2 whichever is the longer.

TABLE A/2: (11/07) Matrix of Certification Bodies against Accepted Quality Management Schemes including NHSS for which specific accreditation is granted by UKAS

Certification Body (See Part 2 for full details)	Quality Management Scheme Number (N = NHSS)														
	1	2A N, N**	2B N, N**	2C N, N**	3	4 N	5A N, N†	5B N, N†	6 N	7 N	8 N, N***	9A N, N****	9B N, N***	10 N, N***	11
AFAQ-EAGA Limited											*		*	*	
BM TRADA	*	*	*	*	*	*	*	*		*	*	*	*	*	
BSI	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BVQI		*	*	*											
CARS (QA) Ltd															
DNV Certification B. V.			*								*		*	*	
Eagle Certification Ltd															
EQA		*													
ICS Registrars Ltd															
ISOQAR											*	*	*	*	
LRQA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

TABLE A/2: (11/07) Matrix of Certification Bodies against Accepted Quality Management Schemes including NHSS for which specific accreditation is granted by UKAS (continued)

Certification Body (See Part 2 for full details)	Quality Management Scheme Number (N = NHSS)														
	1	2A N, N**	2B N, N**	2C N, N**	3	4 N	5A N, N†	5B N, N†	6 N	7 N	8 N, N***	9A N, N****	9B N, N***	10 N, N***	11
Moody International										*					
NQA		*	*	*			*	*	*	*	*	*	*	*	
NSAI															
QA International															
QSRMC/CPC															
SAI Global												*			
SGS United Kingdom		*	*	*	*		*	*	*	*	*	*	*	*	
TUV UK Quality Assurance Ltd															
UK CARES															*
															14

TABLE A/2: (11/07) Matrix of Certification Bodies against Accepted Quality Management Schemes including NHSS for which specific accreditation is granted by UKAS (continued)

Certification Body (See Part 2 for full details)	Quality Management Scheme Number (N = NHSS)														
	12A N	12B N	12C N	12D N	13A N	13B N	14 N	15 N	16 N	17 N	17B N, N††	18 N	19A N	20 N, N†††	21 N
AFAQ-EAGA Limited															
BM TRADA	*	*	*	*	*	*	*		*						
BSI	*	*	*	*	*	*	*	*	*						
BVQI	*	*	*	*											
CARS (QA) Ltd										*					
DNV Certification B. V.	*	*	*	*	*	*									
Eagle Certification Ltd										*					
EQA															
ICS Registrars Ltd										*					
ISOQAR		*					*		*						
LRQA	*	*	*	*	*		*	*	*						

TABLE A/2: (11/07) Matrix of Certification Bodies against Accepted Quality Management Schemes including NHSS for which specific accreditation is granted by UKAS (continued)

Certification Body (See Part 2 for full details)	Quality Management Scheme Number (N = NHSS)														
	12A N	12B N	12C N	12D N	13A N	13B N	14 N	15 N	16 N	17 N	17B N, N ^{††}	18 N	19A N	20 N, N ^{†††}	21 N
Moody International										*					
NQA	*	*	*	*	*	*		*							
NSAI	*	*	*	*	*	*	*		*						
QA International	*	*	*	*			*		*						
QSRMC/CPC							*		*						
SAI Global															
SGS United Kingdom	*	*	*	*	*		*	*	*						
TUV UK Quality Assurance Ltd										*					
UK CARES															

TABLE A/2: (11/07) Matrix of Certification Bodies against Accepted Quality Management Schemes including NHSS for which specific accreditation is granted by UKAS (continued)

The numbered references above identify those Quality Sector Scheme Documents generated and administered by the certification bodies. Where the NHSS applies, references are for historic and record purposes only.

The reader shall confirm these accreditation details with UKAS.

1. (11/07) N† indicates that these schemes have been implemented as two separate NHSS - Scheme 5A (The Manufacture of Parapets for Road Restraint Systems) and Scheme 5B (The Installation of Parapets for Road Restraint Systems) since January 2005.
2. (05/06) N** Scheme 2 has been split into 3 parts, Scheme 2A for general fencing and security fencing, Scheme 2B for vehicle safety fencing and Scheme 2C dealing specifically with "Environmental Barriers (Structural)". The latter has been available on the UKAS web site since April 2004.
3. (05/06) N*** A national scheme combining the requirements of existing Schemes 8 and 10 has been developed with Scheme 9B for the installation of traffic signs and has been available since October 2004.
4. (05/07) N**** Scheme 9A will be implemented 15 months after publication of the scheme on the UKAS website (January 2006) at which time accreditation to certification body schemes listed as scheme 9 will no longer be recognised or accepted.
5. (05/07) Information on National Highway Sector Scheme accreditation status and scope of Certification Bodies is available on the UKAS website (<http://www.ukas.com/>).
6. (05/07) The Schedule of Suppliers website (www.scheduleofsuppliers.com), operated by Lantra Awards on behalf of the National Highway Sector Scheme Liaison Committee, links to a database which holds information on all approved Sector Scheme suppliers. It should be noted that the schedule only includes suppliers who have agreed to having their names included on the schedule; however Lantra Awards hold a full list of all companies registered and shall be contacted where confirmation is required.
7. (11/07) NHSS 18 and 19A for environment and landscaping including ecology and corrosion protection respectively were published in November 2006 and October 2006 respectively. These are completely new schemes and periods of 12 and 15 months respectively have been included in the process of implementing the schemes prior to full implementation. Reference shall be made to the documents published on the UKAS website to confirm implementation dates.
8. (05/07) NHSS 21 for installation of insitu concrete vehicle restraint systems is under development and planned to be published during 2007. This is a completely new scheme and it is expected that a period of 12 months will elapse before it can be fully implemented. Reference shall be made to the documents when they are published on the UKAS website to confirm implementation dates.
9. (11/07) N†† NHSS 17B for vehicle recovery and removal on controlled roads was published in April 2007. It is a new scheme and a period of 12 months has been included in the process of implementing the scheme prior to full implementation. Reference shall be made to the documents published on the UKAS website to confirm implementation dates and the current issue. It is proposed that Certification Bodies with accreditation for NHSS 17 will have an extension of scope to deal with NHSS 17B, this is to be confirmed.
10. (11/07) N††† NHSS 20 for Execution of Steelwork in Transportation Infrastructure Assets is under development and planned to be published during 2008. This is a completely new scheme which is being aligned with the publication of BS EN 1090-2; it is expected that a period of at least 21 months after the publication of BS EN 1090-2 will elapse before NHSS 20 can be fully implemented. Reference shall be made to the documents when they are published on the UKAS website to confirm implementation dates.

1 - QSS 32042	5 - QSS 015	10 - QSS 620/2	14 - CARES schedules PT2 (a)i and PT2a (iv)
2 - QGN 3204.2/194	6 - BN 164/D	11 - QSS 014	
3 - QSS 32043	8 - QAS 3480/376	12 - BN 183D	
4 - QAS 3433/287	9 - QAR 154	13 - SFSS5	

PART 2 (05/01): List of Accepted Quality Management Schemes

The following is the list of accepted quality management schemes referred to in Clause 104:

Scheme 1: Manufacture of Fencing Components
(05/05) (Certification Bodies' Scheme)

Specification: (05/04) Fencing components shall be in accordance with Series 300 and 2500 of the Specification and the Drawings referred to in the Contract.

(11/07) Road Restraint Systems (excluding metal bridge parapets, see Scheme 5A and concrete vehicle restraint systems, see Scheme 21) shall be in accordance with Series 400 of the Specification and the Drawings referred to in the Contract.

Scheme 2: (05/04) Supply and Installation of Fences

Scheme 2A: (11/06) The Design and/or Supply, Installation and Repair of Fences for Infrastructure Works
(National Scheme applies)

Certification Bodies: Certification bodies, which have been accredited by UKAS to issue certificates against the the Sector Scheme Document (SSD) for the Design and/or Supply, Installation and Repair of Fences for Infrastructure Works published by UKAS on behalf of the Sector Scheme Advisory Committee for Fencing, are listed in Table A/2.

Specification: (11/07) General fencing shall be in accordance with Series 300 and 2500 of the Specification and the following British Standard:

BS 1722 Fences
All Current Parts

- Notes
1. (11/07) Environmental barrier (structural) design is now included within NHSS 2C. Attention is drawn to the requirement within SHW for technical approvals to be obtained for these structures in accordance with the Technical Approval Scheme adopted by the Overseeing Organisation.
 2. (05/05) The NHSS requires training on an approved course administered by the Lantra Awards (formerly National Fencing Training Authority (NFTA)) (Tel: 024 7641 9703). All fencing installers and lead installers are required to carry FISS/CSCS registration/skill cards indicating what types of fencing they have been trained to erect.
 3. (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 4. (05/05) Copies of the SSD are available from UKAS Publications or on request from accredited certification bodies with whom the Organization is registered. It can also be accessed from the UKAS web site (http://www.ukas.com/information_centre/publications.asp).
 5. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

Scheme 2: (05/04) Supply and Installation of Fences

Scheme 2B: (11/06) The Supply, Installation and Repair of Vehicle Restraint Systems
(05/04) (National Scheme applies)

Certification Bodies: (05/05) Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Supply, Installation and Repair of Vehicle Restraint Systems published by UKAS on behalf of the Vehicle Restraint Systems Sector Scheme Advisory Committee, are listed in Table A/2.

Specification: (05/05) Vehicle Restraint Systems shall be in accordance with Series 400 of the Specification, the Drawings referred to in the Contract and BS 7669 Part 3. (The scheme does not include for the design, supply and installation of bridge parapets, which are covered by schemes 5A and 5B.) The scheme incorporates training for the use of Temporary Vertical Concrete Barriers (TVCB) and proprietary Temporary Steel Vehicle Restraint Systems.

- Notes:
1. (05/05) This Scheme requires training on an approved course administered by the Lantra Awards (formerly the National Fencing Training Authority (NFTA)) (Tel: 024 7641 9703). All Vehicle Restraint Systems lead installers are required to carry FISS/CSCS registration/skill cards indicating what types of fencing they have been trained to erect.
 2. (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 3. (05/05) Copies of the SSD are available from UKAS Publications or on request from accredited certification bodies with whom the Organization is registered. It can also be accessed from the UKAS website (http://www.ukas.com/information_centre/publications.asp).
 4. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

(05/04) **Scheme 2: Supply and Installation of Fences**

Scheme 2C (11/06) **The Design, Supply, Installation and Repair of Environmental Barriers (Structural) for Infrastructure Works**
(National Scheme applies)

Certification Bodies: (11/06) Initially Certification Bodies, which have been accredited by UKAS to issue certificates against Sector Scheme Document (SSD) 2A for the Design and/or Supply, Environmental Barriers (Structural) for Infrastructure Works, published by UKAS on behalf of the Sector Scheme Advisory Committee for Fencing. These are listed in Table A/2.

Specification: Environmental Barriers (Structural) shall be in accordance with Series 300 and 2500 of the Specification and the following British Standards:

BS EN 1793 Road Traffic Noise Reducing Devices - Test Method for determining acoustic performance

BS EN 1794 Road Traffic Noise Reducing Devices - non acoustic performance

- Notes
1. Attention is drawn to the requirement within SHW for technical approvals to be obtained for these structures in accordance with the Technical Approval Scheme adopted by the Overseeing Organisation.
 2. (05/05) The NHSS requires operatives to reach appropriate levels of competency and receive training on an approved course administered by the Lantra Awards (formerly National Fencing Training Authority (NFTA)) (Tel: 024 7641 9703). All fencing installers and lead installers are required to carry FISS/CSCS registration/skill cards indicating what types of fencing they are qualified/competent to install.
 3. (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 4. (05/05) Copies of the SSD will be available from UKAS Publications or on request from accredited certification bodies with which the Organization is registered after the scheme is posted on the UKAS web site. It will also be accessible from the UKAS website (http://www.ukas.com/information_centre/publications.asp).

5. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

Scheme 3: Manufacture of Industrial Fasteners and Associated Items

(05/05) (Certification Bodies' Schemes)

Certification Bodies: Certification bodies which have been accredited by UKAS to issue certificates in respect of the manufacture of industrial fasteners and associated items.

Specification: (05/04) Nuts, bolts and fixings shall be in accordance with Series 300, 400, 500, 1300, 1800 and 2500 of the Specification and shall be manufactured to the requirements of the following Standards:

BS 3410	Specification for metal washers for general engineering purposes;
BS 4320	Specification for metal washers for general engineering purposes Metric series;
BS 4395	Specification for high strength friction grip bolts and associated nuts and washers for structural engineering;
BS 4933	Specification for ISO metric black cup and countersunk head bolts and screws with hexagon nuts.
BS EN ISO 898	Mechanical properties of fasteners made of carbon steel and alloy steel (05/06)
BS EN ISO 4014	Hexagon head bolts Product grades A and B (11/03)
BS EN ISO 4016	Hexagon head bolts Product grade C (11/03)
BS EN ISO 4017	Hexagon head screws Product grades A and B (11/03)
BS EN ISO 4018	Hexagon head screws Product grade C (11/03)
BS EN ISO 4032	Hexagon nuts, style 1 Product grades A and B (11/03)
BS EN ISO 4034	Hexagon nuts Product grade C (11/03)

Alternatively nuts, bolts and fixings shall be manufactured to the dimensions and tolerances of the Standards listed above, using materials to the following Standards:

BS EN ISO 3506	Mechanical properties of corrosion-resistant stainless steel fasteners (11/03)
BS EN ISO 3506-1	Part 1: Bolts, screws and studs (11/03)
BS EN ISO 3506-2	Part 2: Nuts (11/03)
ASTM A325-04b	Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength (05/06)
JSS II-09-1996	Society of Steel Construction of Japan (02/03)

- Notes:
1. (05/05) Where the Contractor can demonstrate that the fastener required is made by fewer than three organizations within this Scheme, the requirement to comply with the Scheme shall not apply.
 2. Where the Contractor obtains fasteners from a stockist, the stockist shall be registered under Part 1 of the BSI Registered Stockist System, or equivalent. The System requirement shall be 'Level A, Quality Assured Material with Lot Traceability' (P00012). Where the Contractor can demonstrate that the fastener required is supplied by fewer than three stockists within this System, the requirement to comply with the System shall not apply.
 3. (11/07) New European Standards for industrial fasteners including various parts of BS EN 14399 are being introduced and will supersede existing standards; however, BS 4395 remains current.

Scheme 4: Preservative Treatment of Timber (BWPDA Guidance Note QGN -2)
(National Scheme applies)

Certification Bodies: (05/05) Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Preservative Treatment of Timber published by UKAS on behalf of the Natural & Confirmed Durability of Timber Sector Scheme Advisory Committee, are listed in Table A/2.

Specification: Chemicals used, and timber preservative treatment to be carried out, shall comply with Clause 311 of the Specification.

- Notes:**
- (05/05) Timber used for general fencing shall be treated by organizations registered by these bodies, and organizations shall only obtain chemical products used in treatment from a registered source.
 - The National Scheme for the Preservative Treatment of Timber incorporates BWPDA Guidance Note QGN 2 which superseded BSI's Quality Assessment Schedule QAS 4620/290.
 - (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 - (05/05) The National Scheme requires plant operators to obtain NVQs.
 - (05/05) Copies of the SSD are available from UKAS Publications or on request from accredited certification bodies with whom the Organization is registered. It can also be accessed from the UKAS website (http://www.ukas.com/information_centre/publications.asp).
 - (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

(05/04) **Scheme 5: Bridge Parapets**

Scheme 5A The Manufacture of Parapets for Road Restraint Systems
(11/06) (National Scheme applies)

Certification Bodies: (05/05) Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Manufacture of Parapets for Road Restraint Systems published by UKAS on behalf of the Sector Scheme Advisory Committee for Bridge Parapets, are listed in Table A/2.

Specification: (05/05) The production of metal bridge parapets shall comply with the requirements of Series 400 of the Specification and the relevant parts of BS EN 1317.

- Notes:**
- This scheme is an interim document which provides guidance to producers of parapets until BS EN 1317-5 becomes available, after which it will continue to provide guidance on best practice where appropriate.
 - (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 - (05/05) Copies of the SSD are available from UKAS Publications or on request from the accredited certification bodies with whom the Organization is registered. It may be accessed from UKAS website (http://www.ukas.com/information_centre/publications.asp).
 - (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

(05/04) **Scheme 5: Bridge Parapets**

Scheme 5B The Installation of Parapets for Road Restraint Systems

(11/06) (National Scheme applies)

Certification Bodies: (05/05) Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Manufacture of Parapets for Road Restraint Systems published by UKAS on behalf of the Sector Scheme Advisory Committee for Bridge Parapets, are listed in Table A/2.

Specification: The installation of metal bridge parapets shall comply with the requirements of the Specification for Highway Works, Series 400 and the relevant parts of BS EN 1317.

- Notes:**
- (11/06) Within the meaning of BS EN 1317, anchorages for new parapets are considered to be part of the vehicle restraint system (VRS) and as such are tested in accordance with the provisions of that standard as a complete system. Maintenance of parapets designed in accordance with BS EN 1317, remain the responsibility of the manufacturer who shall be consulted when repairs have to be carried out including replacement of anchorage systems. Such conditions do not apply where parapets were installed in accordance with previous standards. However, where anchorages need to be replaced, the designer shall have to demonstrate that replacement anchorages are suitable and fit for the intended use. (Note: Prior to the introduction of BS EN 1317 such requirements were met by using anchorages having a relevant HAPAS certificate of conformity).
 - (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 - (05/05) Copies of the SSD are available from UKAS Publications or on request from the accredited certification bodies with whom the Organization is registered. It may be accessed from UKAS website (http://www.ukas.com/information_centre/publications.asp).
 - (05/05) The NHSS requires operatives to reach appropriate levels of competency and receive training on an approved course administered by the Lantra Awards (formerly National Fencing Training Authority (NFTA)) (Tel: 024 7641 9703). All fencing installers and lead installers are required to carry FISS/CSCS registration/skill cards indicating what types of parapets they are qualified/competent to install.
 - (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

Scheme 6: (11/06) **The Manufacture and Verification of Lighting Columns**
(National Scheme applies)

Certification Bodies: (11/06) Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Manufacture and Verification of Lighting Columns published by UKAS on behalf of the Lighting Column Sector Scheme Technical Advisory Committee, are listed in Table A/2.

Specification: (11/06) The manufacture and verification of lighting columns shall comply with Series 1300 of the Specification, Standard BD 26 (DMRB 2.2.1) and the Technical Approval Scheme adopted by the Overseeing Organisation.

- Note:**
- (05/05) Copies of the SSD are available from UKAS Publications or on request from accredited certification bodies with whom the Organization is registered. It can also be accessed from the UKAS web site (http://www.ukas.com/information_centre/publications.asp).

2. (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
3. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

Scheme 7: Application of Road Marking Materials and Road Studs to Road Surfaces
(National Scheme applies)

Certification Bodies: (05/05) Certification bodies which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Application of Road Marking Materials and Road Studs to Road Surfaces published by UKAS on behalf of the Road Marking Sector Scheme Technical Advisory Committee, are listed in Table A/2.

Specification: Road marking materials shall be in accordance with Series 1200 of the Specification and shall be manufactured to comply with all of the appropriate requirements of one of the following British Standards:

- | | |
|--------------|---|
| BS EN 1423 | Road marking materials - Drop on materials - Glass beads, antiskid aggregates and mixtures of the two |
| BS EN 1424 | Road Marking Materials - Premix glass beads |
| BS EN 1436 | Road marking materials - Road marking performance for road users; |
| BS EN 1463-1 | Road marking materials - Retroreflecting road studs - Part 1. Initial performance |
| BS EN 1463-2 | Road marking materials - Retroreflecting road studs - Part 2. Road test performance specifications |
| BS EN 1790 | Road marking materials - Preformed road markings |
| BS EN 1824 | Road marking materials - Road trials |
| BS EN 1871 | Road marking materials - Physical properties |

- Notes:**
1. (11/07) The scheme requires operatives to have successfully undergone a course of approved training currently managed by RSMA in conjunction with NERO and the Local Government National Training Organisation (formerly Local Government Management Board) and/or have achieved NVQ level 2 in Road Marking and/or undertaken an apprenticeship for road marking. All road marking operatives are required to carry a CSCS registration/skill card indicating what types of marking they are qualified to apply.
 2. (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 3. (05/05) Copies of the SSD are available from UKAS Publications or on request from the accredited certification bodies with whom the Organization is registered. It can also be accessed from the UKAS website (http://www.ukas.com/information_centre/publications.asp).
 4. (05/04) The manufacture of road marking materials to BS EN 1423, BS EN 1424, BS EN 1436, BS EN 1790 and BS EN 1824 is subject to product certification requirements (see Appendix B - Marked Schemes).
 5. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

Scheme 8: Installation and Maintenance of Traffic Signals
(05/04) (Certification Bodies' Scheme)

Specification: (05/05) All works shall be in accordance with the relevant Clauses of 1200 Series of the Specification for the installation of traffic signals. Equipment shall be manufactured to comply with all of the appropriate requirements of BS 505.

Notes 1. (11/06) Organizations registered to this scheme shall have been up-graded to the NHSS 8, 9B and 10 in order to continue to be recognised as a competent supplier for new work.

(05/06) Schemes 8, 9B and 10, The Installation and Maintenance of Highway Electrical and/or Highway Electronic Equipment and/or Associated Highway Works (National Scheme applies)

Certification Bodies: (05/06) Certification Bodies, which have been accredited by UKAS to issue certificates against schemes 8, 9B and 10 for the Installation and Maintenance of Highway Electrical and/or Highway Electronic Equipment and/or Associated Highway Works (formerly called 'Installation and Maintenance of Highway Electrical Equipment and Road Traffic Signs'), are listed in Table A/2.

Specification: (11/06) Installation and Maintenance of Highway Electrical and/or Highway Electronic Equipment and/or Associated Highway works shall be in accordance with Series 1200 (Schemes 8 and/or 9B) and/or Series 1400 (Scheme 10) of the Specification as appropriate and the following British Standards:

BS 5489-1 Code of practice for the design of road lighting. Lighting of roads and public amenity areas

BS 5489-2 Code of practice for the design of road lighting. Lighting of tunnels

BS 5649 Lighting Columns

BS 7671 Requirements for Electrical Installations, IEE Wiring Regulations - Sixteenth edition

BS EN 40 Lighting Columns

Notes: 1. (05/05) Copies of the SSD will be available from UKAS Publications or on request from accredited certification bodies with which the Organizations is registered after the scheme is posted on the UKAS web site. It will also be accessible from the UKAS website (http://www.ukas.com/information_centre/publications.asp).

2. (05/05) The NHSS requires operatives to reach appropriate levels of competency and receive training on an approved course. All operatives are required to carry registration/skill cards indicating what types of electrical work they are qualified/competent to install and maintain

3. (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)

4. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

5. (11/06) The scheme was fully implemented in October 2005.

Scheme 9: Traffic Sign Manufacture

(05/05) (Certification Bodies' Schemes)

Specification: (05/05) Signs to BS 873, BS EN 13422 and to Series 1200 of the Specification.

Note: 1. (05/06) Organizations registered to this scheme shall upgrade to SSD 9A within twelve months of publication of scheme 9A on the UKAS website to continue to be recognised as a competent supplier for new work.

Scheme 9A: (05/06) The Manufacture of Permanent and/or Temporary Road Traffic Signs (11/06) (National Scheme applies)

Certification Bodies: (11/06) Certification Bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for Traffic Sign of Permanent and/or Temporary Road Traffic Signs, are listed in Table A/2. The scheme was published by UKAS on behalf of the Sector Scheme Advisory Committee for Traffic Sign Manufacture on 1 January 2006.)

Specification: Signs to BS 873, BS EN 13422 and to Series 1200 of the Specification.

- Notes:
1. Copies of the SSD 9A will be available from UKAS Publications or on request from the accredited certification bodies with whom the Organization is registered. It will also be accessible from the UKAS website (http://www.ukas.com/information_centre/publications.asp) when published.
 2. (11/06) It is anticipated that the scheme will be implemented 12 months after publication of the scheme on the UKAS website (January 2006) at which time accreditation to certification body schemes listed as scheme 9 will no longer be recognised or accepted.
 3. Confirmation of the accreditation status of certification bodies should be checked with UKAS (See UKAS website <http://www.ukas.com/>).
 4. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

Scheme 10: Installation and Maintenance of Electrical Apparatus and Cabling for Highway Lighting and Traffic Signs

(05/04) (Certification Bodies' Schemes)

Specification: (05/05) All works shall be in accordance with Series 1400 and relevant Clauses of Series 1200 of the Specification.

- Note:
1. (05/05) Organizations may be certificated only for installation or maintenance of electrical apparatus and cabling for highway lighting and highway signs.
 2. (05/05) Organizations registered by this scheme will need to up-grade to the NHSS 8. 9B and 10 by October 2005 to continue to be recognised as a competent supplier for new work.

Scheme 11: Supply and Installation of Post-Tensioning Systems in Concrete Structures

(05/06) (Certification Bodies' Schemes)

Specification: Installation of ducts, tendons, anchorages and grouting of post-tensioning systems complying with the requirements of the Concrete Society Technical Report No 47: Durable Post-Tensioned Concrete Bridges.

- Note:
1. (05/06) Prestressing wire strand to BS 5896, hot rolled alloy steel bars to BS 4486 and prestressing anchorages to BS EN 13391 are required to have product certification under this scheme (see Appendix B).

Scheme 12: Temporary Traffic Management

Scheme 12A: (11/03) Static Temporary Traffic Management on Motorways and High Speed Dual Carriageways for Schemes Incorporating Contraflow Operations and/or Temporary Road Markings

(National Scheme applies)

Certification Bodies: (05/05) Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document for the Static Temporary Traffic Management on Motorways and High Speed Dual Carriageways for Schemes Incorporating Contraflow Operations and/or Temporary Road Markings published by UKAS on behalf of the Sector Scheme Advisory Committee for Traffic Management, are listed in Table A/2.

Specification: Traffic management shall be in accordance with the 100 Series of the Specification, the Drawings referred to in the Contract and Chapter 8 of the Traffic Signs Manual: Traffic Safety Measures and Signs for Road Works and Temporary Situations.

- Notes:**
1. (05/05) This Scheme requires training and competency assessment on an approved course. All traffic management operatives are required to carry a Lantra/CSCS registration/skill card indicating what types of traffic management they have been trained and assessed to carry out.
 2. (05/05) Copies of the SSD are available from UKAS Publications or on request from the accredited certification bodies with whom the Organization is registered. It may also be accessed from the UKAS website (http://www.ukas.com/information_centre/publications.asp).
 3. (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 4. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

Scheme 12: Temporary Traffic Management

Scheme 12B: Static Temporary Traffic Management on Motorways and High Speed Dual Carriageways for Schemes not Incorporating Contraflow Operations and/or Temporary Road Markings
(National Scheme applies)

Certification Bodies: (05/05) Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document for the Static Temporary Traffic Management on Motorways and High Speed Dual Carriageways for Schemes not Incorporating Contraflow Operations and/or Temporary Road Markings published by UKAS on behalf of the Sector Scheme Advisory Committee for Traffic Management, are listed in Table A/2.

Specification: Traffic management shall be in accordance with Series 100 of the Specification, the Drawings referred to in the Contract and Chapter 8 of the Traffic Signs Manual: Traffic Safety Measures and Signs for Road Works and Temporary Situations.

- Notes:**
1. (05/05) This Scheme requires training and competency assessment on an approved course. All traffic management operatives are required to carry a Lantra/CSCS registration/skill card indicating what types of traffic management they have been trained and assessed to carry out.
 2. (05/05) Copies of the SSD are available from UKAS Publications or on request from accredited certification bodies with whom the Organization is registered. It may be accessed from UKAS website (http://www.ukas.com/information_centre/publications.asp).
 3. This scheme was implemented by the Highways Agency on 1 April 2001. Training and competency assessment arrangements are in place.

4. (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
5. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

(11/07) **Scheme 12**

Scheme 12A/B Static Temporary Traffic Management on Motorways and High Speed Dual Carriageways including On-line Widening Schemes
(National Scheme applies)

Certification Bodies: Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document for the Static Temporary Traffic Management on Motorways and High Speed Dual Carriageways including On-line Widening Schemes published by UKAS on behalf of the Sector Scheme Advisory Committee for Traffic Management, are listed in Table A/2.

Specification: Traffic management shall be in accordance with Series 100 of the Specification, the Drawings referred to in the Contract and Chapter 8 of the Traffic Signs Manual: Traffic Safety Measures and Signs for Road Works and Temporary Situations.

- Notes:**
1. This Scheme requires training and competency assessment on an approved course. All traffic management operatives are required to carry a Lantra/CSCS registration/skill card indicating what types of traffic management they have been trained and assessed to carry out.
 2. Copies of the SSD are available from UKAS Publications or on request from accredited certification bodies with whom the Organization is registered. It may be accessed from UKAS website (http://www.ukas.com/information_centre/publications.asp).
 3. This scheme was implemented by the Highways Agency on 1 April 2001. Training and competency assessment arrangements are in place.
 4. Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 5. This scheme incorporates and supersedes NHSS 12A and 12B, certificates issued under these schemes will continue to be valid until the organizations are re-assessed. (Normally within 12 months of publication of this scheme (November 2006).)
 6. A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

Scheme 12: Temporary Traffic Management

Scheme 12C: (11/06) Mobile Lane Closure Traffic Management on Motorways and other Dual Carriageways
(National Scheme applies)

Certification Bodies: (11/06) Certification bodies which have been accredited by UKAS to issue certificates against the Sector Scheme Document for the Mobile Lane Closure Traffic Management on Motorways and other Dual Carriageways published by UKAS on behalf of the Sector Scheme Advisory Committee for Traffic Management are listed in Table A/2.

Specification: Traffic management shall be in accordance with the 100 Series of the Specification, the Drawings referred to in the Contract and Chapter 8 of the Traffic Signs Manual: Traffic Safety Measures and Signs for Road Works and Temporary Situations.

- Notes:
1. (05/04) This Scheme requires training and competency assessment on an approved course. All mobile lane closures traffic management operatives are required to carry a registration/skill card indicating what types of traffic management they have been trained and assessed to carry out.
 2. (05/04) Copies of the SSD are available from UKAS Publications or on request from accredited certification bodies with whom the Supplier is registered. It may be accessed from UKAS website (http://www.ukas.com/information_centre/publications.asp).
 3. This scheme was implemented by Highways Agency on 1 January 2001. Training and competency assessment arrangements are in place.
 4. (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 5. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

(05/05) **Scheme 12: Temporary Traffic Management**

Scheme 12D: (05/05) **Installation, Maintenance and Removal of Temporary Traffic Management on Rural and Urban Roads** (National Scheme applies)

Certification Bodies: Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document for the installation, maintenance and removal of temporary traffic management on rural and urban roads published by UKAS on behalf of the Sector Scheme Advisory Committee for Traffic Management, will be listed in Table A/2.

Specification Traffic management shall be in accordance with Series 100 of the Specification, the Drawings referred to in the Contract and Chapter 8 of the Traffic Signs Manual: Traffic Safety Measures and Signs for Road Works and Temporary Situations.

- Notes:
1. This Scheme requires training and competency assessment on an approved course. All temporary traffic management operatives are required to carry a Lantra/CSCS registration/skill card indicating what types of traffic management they have been trained and assessed to carry out.
 2. Copies of the SSD will be available from UKAS Publications or on request from accredited certification bodies with which the Organization is registered after the scheme is posted on the UKAS website. It will also be accessible from the UKAS website. (http://www.ukas.com/information_centre/publications.asp).
 3. (11/06) The scheme was posted on the UKAS website on 1 July 2005.
 4. The scheme also provides for training and competency assessment for individual operatives whose main activity is not necessarily temporary traffic management. It is expected that relevant sector scheme committees will include requirements/recommendations for a number of nominated operatives to have undertaken training and competency assessment for temporary traffic management.
 5. Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>).
 6. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

(11/04) **Scheme 13: The Supply and Application to Road Surfaces**

Scheme 13A: (11/04) **The Supply and Application of Surface Dressings to Road Surfaces**
(National Scheme applies)

Certification Bodies: (05/05) Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document for the Supply and Application of Surface Dressings to Road Surfaces published by UKAS on behalf of the Sector Scheme Advisory Committee for Surface Dressing, are listed in Table A/2.

Specification: Surface Dressing shall be in accordance with Series 900 of the Specification and the Drawings referred to in the Contract.

- Note:**
- (05/05) Copies of the SSD are available from UKAS Publications or on request from accredited certification bodies with whom the Organization is registered. It may be accessed from UKAS website (http://www.ukas.com/information_centre/publications.asp).
 - (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com>).
 - (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).
 - (05/05) This Scheme requires training and competency assessment on an approved course. All surface dressing operatives are required to carry a CSCS registration/skill card indicating the type of work they have been trained and assessed to carry out.

(05/04) **Scheme 13B:** **The Supply and Application of Microsurfacing**
(National Scheme applies)

Certification Bodies: (05/05) Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document for the Supply and Application of Microsurfacing published by UKAS on behalf of the Sector Scheme Advisory Committee for Microsurfacing, are listed in Table A/2.

Specification: Microsurfacing shall be in accordance with Series 900 of the Specification and the Drawings referred to in the Contract.

- Notes**
- (05/05) Copies of the SSD are available from UKAS Publications or on request from the accredited certification bodies with whom the Organization is registered. It may be accessed from UKAS website (http://www.ukas.com/information_centre/publications.asp).
 - (05/05) The scheme was posted on the UKAS website at the end of December 2003. Implementation was effective from 1 January 2005.
 - (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com>).
 - (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).
 - (05/05) This Scheme requires training and competency assessment on an approved course. All surface dressing operatives are required to carry a CSCS registration/skill card indicating the type of work they have been trained and assessed to carry out.

Scheme 14: Production of Asphalt Mixes
(National Scheme applies)

Certification Bodies: (05/05) Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Production of Asphalt Mixes, published by UKAS on behalf of the Sector Scheme Advisory Committee for the Quality Assurance of the Production of Asphalt Mixes, are listed in Table A/2.

Specification: (11/04) The supply of asphalt shall comply with the Specification for Highway Works, in particular Series 900. Where specified, asphalt shall be produced in accordance with the relevant British Standard. The following list, which is not comprehensive, indicates representative British Standards which are intended to be included by this scheme:

- BS 594 Hot rolled asphalt for roads and other paved areas.
Part 1. Specification for constituent materials and asphalt mixtures.
Part 2. Specification for the transport, laying and compaction of rolled asphalt.
- BS 598 Sampling and examination of bituminous mixtures for roads and other paved areas
Part 100. Methods for sampling for analysis.
Part 101. Methods for preparatory treatment of samples for analysis.
Part 102. Analytical test methods.
Part 104. Methods of test for the determination of density and compaction. (05/06)
Part 105. Methods of test for the determination of texture depth. (05/06)
Part 107. Methods of test for the determination of the composition of design surface course rolled asphalt. (05/06)
Part 108. Methods for the determination of the condition of the binder on coated chippings and for measurement of the rate of spread of coated chippings. (05/06)
Part 109. Methods for the assessment of the compaction performance of a roller and recommended procedures for the measurement of the temperature of bituminous mixtures. (05/06)
- BS 4987 (11/03) Coated macadam (asphalt concrete) for roads and other paved areas
BS 4987-1 Part 1. Specification for constituent materials and for mixtures
BS 4987-2 Part 2. Specification for transport, laying and compaction
- BS EN 13036 (05/06) Road and airfield surface characteristics. Test Methods
BS EN 13036-1 (05/06) Part 1. Measurement of pavement surface macrotexture depth using a volumetric patch technique.

- Note:**
- (05/05) Copies of the SSD are available from UKAS Publications or on request from the accredited certification bodies with whom the Organization is registered. It may also be accessed from the UKAS website (http://www.ukas.com/information_centre/publications.asp).
 - (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 - (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).
 - (11/07) The UK will be adopting new European Standards for the production and testing of asphalt after 1 January 2008, the references to current BS listed above will lapse and be replaced by the relevant standards in BS EN 13108 Series for Standards. In anticipation of this event, a revised version of NHSS 14 has been developed for implementation after 1 January 2008.

(11/02) **Scheme 15: Supply of Paving Grade Bitumen**
(National Scheme applies)

Certification Bodies: (05/05) Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Supply of Paving Grade Bitumen, published by UKAS on behalf of the Sector Scheme Advisory Committee for the Quality Assurance of the Supply of Paving Grade Bitumen, are listed in Table A/2.

Specification: (05/05) The supply of paving grade bitumen shall comply with Series 900 of the Specification and the following British Standards:

BS EN 12591 Bitumen and bituminous binders - Specifications for paving grade bitumens.

- Notes:**
- (05/05) Copies of the SSD are available from UKAS Publications or on request from the accredited certification bodies with whom the Organization is registered. It may also be accessed from the UKAS website (http://www.ukas.com/information_centre/publications.asp).
 - (05/05) This NHSS was introduced in April 2003.
 - (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 - (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

(05/04) **Scheme 16: The Laying of Asphalt Mixes**
(National Scheme applies)

Certification Bodies: (05/05) Certification bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Laying of Asphalt Mixes, published by UKAS on behalf of the Sector Scheme Advisory Committee for the Quality Assurance of the Laying of Asphalt Mixes, are listed in Table A/2.

Specification: (05/05) The laying of asphalt shall comply with Series 900 of the Specification and the following British Standards:

BS 594 Hot rolled asphalt for roads and other paved areas
Part 1. Specification for constituent materials and asphalt mixtures
Part 2. Specification for the transport, laying and compaction of rolled asphalt

BS 4987 Coated macadam (asphalt concrete) for roads and other paved areas
Part 1. Specification for constituent materials and for mixtures
Part 2. Specification for transport, laying and compaction

- Notes:**
- (05/05) Copies of the SSD available from UKAS Publications or on request from accredited certification bodies with which the Organization is registered. It is also accessible from the UKAS website (http://www.ukas.com/information_centre/publications.asp).
 - (11/06) Implementation of the scheme was effective from 1 July 2005.
 - (05/05) Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>)
 - (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

5. (11/07) The UK will be adopting new European Standards for the production and testing of asphalt after 1 January 2008. At this time BS 594 : Part 1 will be superseded by BS EN 13108-4 : 2006 : Bituminous mixtures - Material specifications - Part 4 : Hot Rolled Asphalt.

BS 4987 : Part 1 will be superseded by BS EN 13108-1 : 2006 : Bituminous mixtures - Material specifications - Part 1 : Asphalt Concrete.

BS 594987 : 2007:Asphalts for roads and other paved areas - Specifications for transport, laying and compaction and type testing protocols will replace BS 594 Part 2 and BS 4987 Part 2, and will be used, where appropriate, with the relevant parts of BS EN 13108 : 2006 : Bituminous mixtures - Material specifications.

(05/04) Scheme 17: Vehicle Recovery at Highway Construction Sites

(National Scheme applies)

Certification Bodies: (05/06) Certification and Inspection bodies which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Vehicle Recovery at Highway Construction Sites, are listed in Table A/2. (The SSD was published on UKAS website on 1 September 2005.)

Specification: (05/06) Vehicle recovery at highway construction sites shall comply with Series 100 of the Specification, PAS 43 "Safe working of vehicle breakdown and recovery operators" and SSD 17.

- Notes**
1. (05/06) Copies of the SSD are available from UKAS Publications or on request from accredited certification bodies with whom the Organization is registered. It may also be accessible from the UKAS website (http://www.ukas.com/information_centre/publications.asp)
 2. (05/06) The scheme will be effective 12 months after publication on the UKAS website, i.e., from 1 September 2006.
 3. (05/06) Confirmation of the accreditation status of certification boides should be checked with UKAS (see UKAS website <http://www.ukas.com/>).
 4. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

(11/07) Scheme 17B: Vehicle Recovery and Removal on Controlled Roads

(National Scheme applies)

Certification Bodies: Certification Bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Vehicle Recovery and Removal on Controlled Roads, are listed in Table A/2. (The SSD was published on the UKAS website on 1 April 2007.)

Specification: Vehicle recovery and removal on Controlled Roads sites shall comply with Series 100 of the Specification, PAS 43 'Safe working of vehicle breakdown and recovery operators' and SSD 17B.

- Notes:**
1. Copies of the SSD are available from UKAS Publications or on request from accredited certification bodies with whom the Organization is registered. It may also be freely downloaded from the UKAS website (http://www.ukas.com/information_centre/publications.asp)
 2. The scheme will be effective twelve months after publication on the UKAS website, i.e., from 1 April 2008.
 3. Confirmation of the accreditation status of certification bodies should be checked with UKAS (See UKAS website <http://www.ukas.com/>)

4. A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the Advisory Committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

(05/06) **Scheme 18: The Environment and Landscape including Ecology**
(National Scheme applies)

Certification Bodies: (11/07) Certification Bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Environment and Landscaping, are listed in Table A/2.

Specification: Series 600 and 3000 of the Specification for Highway Works.

- Notes:
1. (11/07) Copies of the SSD 18 are available from UKAS Publications or on request from the accredited certification bodies with whom the Organization is registered. It is accessible from the UKAS website (http://www.ukas.com/information_centre/publications.asp).
 2. (11/07) The scheme shall be implemented 21 months after publication of the scheme on the UKAS website (November 2006).
 3. Confirmation of the accreditation status of certification bodies should be checked with UKAS (See UKAS website <http://www.ukas.com/>).
 4. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

(11/07) **Scheme 19: Corrosion Protection of Transportation Infrastructure Assets,**

(11/07) **Scheme 19A: Corrosion Protection of Ferrous Materials by Industrial Coatings**
(National Scheme applies)

Certification Bodies: (11/06) Certification Bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Corrosion Protection of Transportation Infrastructure Assets, 19A: Corrosion Protection of Ferrous Materials by Industrial Coatings, are listed in Table A/2.

Specification: Series 1900 and 5000 of the Specification for Highway Works.

- Notes:
1. (11/07) Copies of the SSD 19 will be available from UKAS Publications or on request from the accredited certification bodies with whom the Organization is registered. It is also accessible from the UKAS website (http://www.ukas.com/information_centre/publications.asp).
 2. (11/07) The scheme will be implemented on 1 February 2008.
 3. Confirmation of the accreditation status of certification bodies should be checked with UKAS (See UKAS website <http://www.ukas.com/>).
 4. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

(11/07) **Scheme 20: The Execution of Steelwork in Transportation Infrastructure Assets**
(National Scheme applies)

Certification Bodies: Certification Bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the execution of steelwork in transportation infrastructure assets will be in Table A/2. (It is anticipated that the SSD will be published by UKAS on behalf of the Sector Scheme Advisory Committee for the Execution of Steelwork in winter 2007/ spring 2008.)

Specification: Series 1800 of the Specification for Highway Works.

- Notes:
1. Copies of the SSD 20 will be available from UKAS Publications or on request from the accredited certification bodies with whom the Organization is registered. It will also be accessible from the UKAS website (http://www.ukas.com/information_centre/publications.asp) when published.
 2. It is anticipated that the scheme will be implemented to align with the implementation of BS EN 1090-2 (to be published in mid 2008) with an introductory period of up to 21 months.
 3. Confirmation of the accreditation status of certification bodies should be checked with UKAS (See UKAS website <http://www.ukas.com/>).
 4. A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com), however information will not be available until at least 6 months following publication of the NHSS 20 document.

(05/07) **Scheme 21: The Installation, Maintenance and Repair of Insitu Concrete Vehicle Restraint Systems**
(National Scheme applies)

Certification Bodies: Certification Bodies, which have been accredited by UKAS to issue certificates against the Sector Scheme Document (SSD) for the Installation, Maintenance and Repair of Insitu Concrete Vehicle Restraint Systems published by UKAS on behalf of the Vehicle Restraint Systems Sector Scheme Advisory Committee, are listed in Table A/2.

Specification: Vehicle Restraint Systems shall be in accordance with Series 400 of the Specification and the Drawings referred to in the Contract. (The scheme does not include for the testing and design verification of a system to meet the requirements of EN 1317 for concrete step barriers, which is the responsibility of a notified body, nor does it include for the supply and installation of metal vehicle restraint systems or temporary vertical concrete (vehicle restraint systems) barriers (TVCB) or metal bridge parapets, which are covered by schemes 2B, 5A and 5B.).

- Notes:
1. This Scheme requires training on an approved course administered by the Lantra Awards (Tel: 024 7641 9703). All Vehicle Restraint Systems lead installers are required to carry registration/skill cards indicating what types of fencing they have been trained to erect. It is anticipated that this will be a requirement of this scheme and that FISS/CSCS registration/skills cards will be issued.
 2. Confirmation of the accreditation status of certification bodies shall be checked with UKAS. (See UKAS website <http://www.ukas.com/>).
 3. Copies of the SSD will be available from UKAS Publications or on request from accredited certification bodies with whom the Organization is registered. It will also be accessible from the UKAS website (http://www.ukas.com/information_centre/publications.asp).
 4. (11/07) It is anticipated that the scheme will be implemented 12 months after publication on the UKAS website (expected winter 2007).
 5. (11/07) A register of Assessed Companies/Organizations is maintained by Lantra Awards (Tel: 024 7641 9703) on behalf of the advisory committee. A small charge may be made for the document. A limited register is also maintained on Lantra Award's website (www.scheduleofsuppliers.com).

Address of United Kingdom Accreditation Service (UKAS) from whom details of SSDs can be obtained:

(05/05) United Kingdom Accreditation Service (UKAS)

21 - 47 High Street
Feltham
Middlesex
TW13 4UN

Telephone: +44 (0) 20 8917 8400

Facsimile: +44 (0) 20 8917 8500

Website: http://www.ukas.com/information_centre/publications.asp

Addresses of Certification Bodies:

(11/06) AFAQ-EAQA Limited

185 Park Street
Bankside
London
SE1 9DY

Telephone: +44 (0) 20 7922 1638

Facsimile: +44 (0) 20 7922 1627

E Mail: rredmond@eaqa.co.uk

Website: <http://www.eaqa.co.uk>

(05/05) BM TRADA Certification Limited

Stocking Lane
Hughenden Valley
High Wycombe
Buckinghamshire
HP14 4NR

Telephone: +44 (0) 1494 565 484

Facsimile: +44 (0) 1494 565 487

E Mail: enquiries@bmtrada.com

Website: <http://www.bmtrada.com/>

(11/06) British Standards Institution

BSI Management Systems
PO Box 9000
Milton Keynes
MK14 6WT

Telephone: +44 (0) 845 080 9000

Facsimile: +44 (0) 845 080 9000

E Mail: John.Syddall@bsi-global.com

Website: <http://www.bsi-global.com>

(11/06) **Bureau Veritas Quality International (BVQI) Ltd**

Tower Bridge Court
224 – 226 Tower Bridge Road
London
SE1 2TX

Telephone: +44 (0) 20 7661 0700
Facsimile: +44 (0) 20 7661 0790
E Mail: scs@uk.bureauveritas.com
Website: http://www.bvqi.com/homePage_frameset.html

(11/07) **Consortium for Automotive Registration Services (Quality Assurance) Ltd**

PO Box 44908
London
N9 9RZ

Telephone: +44 (0) 20 83601288
Facsimile: +44 (0) 1992 449 001
E Mail: info@carsqa.co.uk
Website:

(11/06) **DNV Certification B. V.**

Haastrechtstraat 7
3079 DC Rotterdam
Netherlands

Telephone: +44 (0) 20 7357 6080
Facsimile: +44 (0) 20 7716 6739
E Mail: certificationuk@dnv.com
Website: <http://www.dnv.co.uk/certification>

(11/06) **European Quality Assurance Limited**

Navigation House
48 Millgate
Newark
Nottinghamshire
NG24 4TY

Telephone: +44 (0) 1636 611 226
Facsimile: +44 (0) 1636 611 704
E Mail: eqa@eqa.co.uk
Website: <http://www.eqa.co.uk>

(11/07) **ICS Registrars Ltd**

International House
178 Reddicap Heath Road
Sutton Coldfield
West Midlands
B75 7ET

Telephone: +44 (0) 121 241 2299
Facsimile: +44 (0) 121 241 4623
E Mail: wayne@ics-mail.com
Website: <http://www.icsregistrars.com>

(11/06) **ISOQAR Ltd**

First Floor
West Point
501 Chester Road
Manchester
M16 9HU

Telephone: +44 (0) 161 877 6914
Facsimile: +44 (0) 161 877 6915
E Mail: enquiries@isoqar.com
Website: <http://www.isoqar.com>

(11/06) **Lloyds Register Quality Assurance Limited**

Hiramford
Middlemarch Office Village
Siskin Drive
Coventry
CV3 4FJ

Telephone: +44 (0) 2476 88 2222
Facsimile: +44 (0) 2476 63 9493
E Mail: enquiries@lrqa.co.uk
Website: <http://www.lrqa.com>

(11/06) **NSAI-National Standards Authority of Ireland**

Glasnevin
Dublin 9
Ireland

Telephone: +353 (01) 807 3800
Facsimile: +353 (01) 807 3838
E Mail: nsai@nsai.ie
Website: <http://www.nsaie>

(11/06) **NICEIC Group Limited (Trading as NQA)**

Warwick House
Houghton Hall Park
Houghton Regis
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Telephone: +44 (0) 1582 866 766
Facsimile: +44 (0) 1582 866 700
E Mail: enquiries@nqa.com
Website: <http://www.nqa.com/>

(11/06) **Moody International Certification Ltd**

Salisbury House
Stephenson's Way
The Wyvern Business Park
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Telephone: +44 (0) 8707 529001
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E Mail: lee.poulton@moodyint.com
Website: <http://www.moodyint.com>

(05/05) **QA International Certification Ltd**

Suite 2-4
Cleveland Hall
Cleveland Street
Darlington
Co Durham
DL1 2PE

Telephone: +44 (0) 1325 384272
Facsimile: +44 (0) 1325 480980
E Mail: ukregister@aol.com
Website: <http://www.members.aol.com/ukregister/>

(11/06) **Quality Scheme for Ready Mixing Concrete
(Trading as Construction Products Certification)**

1 Mount Mews
High Street
Hampton
Middlesex
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Telephone: +44 (0) 20 8941 0273
Facsimile: +44 (0) 20 8979 4558
E Mail: colin.head@qsrmc.co.uk
Website: <http://www.qsrmc.co.uk>

(11/06) **SAI Global Certification Servixes Pty Ltd**

(Trading as SAI Global)

42 The Square
Kenilworth
Warwickshire
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Telephone: +44 (0) 1926 854111
Facsimile: +44 (0) 1926 854222
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Website: <http://www.sai-global.com>

(11/06) **SGS United Kingdom Ltd**

SGS House
217 - 221 London Road
Camberley
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Facsimile: +44 (0) 1276 697696
E Mail: ukenquiries@sgs.com
Website: <http://www.uk.sgs.com>

(11/07) **TÜV UK Quality Assurance Ltd**

Surrey House
Surrey Street
Croydon
CR9 1XZ

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Facsimile: +44 (0) 20 8680 4035
E Mail: enquiries@tuv-uk.com
Website: <http://www.tuv-uk.com>

(11/06) **UK Certification Authority for Reinforcing Steels (CARES)**

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21 Pembroke Road
Sevenoaks
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TN13 1XR

Telephone: +44 (0) 1732 450000
Facsimile: +44 (0) 1732 455917
E Mail: general@ukcares.com
Website: <http://www.ukcares.com>

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