**Name of Project:** _____
**Name of Structure:** _____
**Structure Reference No:** _____

1. We certify that reasonable professional skill and care has been used in the preparation of the design and check of the Standard sign base, anchorage system, sign posts and fixings for the (*details of sign)* listed in 1.iii. with a view to securing that:

   i. It has been designed and checked in accordance with the following standards listed within the attached TAS.

   ii. It has been checked for compliance with the relevant Standards listed within the attached TAS.

   iii. It has been accurately translated into construction drawings and bar bending schedules (all of which have been checked). The design life of the structures listed below is based on a 25 year period. The unique numbers of these drawings and schedules are:

   **Drawings (Supplied):**

| Drawing Number | Drawing Title |
|---|---|
| 1 | Location Plan |
| 2 | General Arrangement |

   **Drawings (Not Supplied):**

| Drawing Number | Drawing Title |
|---|---|
| 1 | Reinforcement Details |

   **Bar bending Schedules (Not Supplied):**

Signed: ----------

Name : ----------

Engineering Qualifications ----------

Signed: ----------

Name : ----------

Date: ----------

2. The certificate is accepted by the TAA.

Signed: .....

Name : .....

Engineering Qualifications .....

TAA .....

Date: .....

## APPENDIX A

## SCHEDULE OF DESIGN DOCUMENTS RELATING TO HIGHWAY BRIDGES AND STRUCTURES INCLUDING RELEVANT DOCUMENTS FROM THE DMRB

**(November 2007)**

(Documents assigned with a ✓ in the right hand column indicate ones relevant to this AIP)

| **1.0** | **British Standards** | |
|---|---|---|
| BS 5268 | Part 2:2002 – Structural Use of Timber | |
| BS 5400 | Steel, Concrete and Composite Bridges | |
| | Part 1 : 1988 General Statement (see BD 15/92) | |
| | Part 2 : 1978 Specification for Loads (see BD 37/01) | |
| | Part 3 : 2000 CP for Design of Steel Bridges (see BD 13/90) | |
| | Part 4 : 1990 CP for Design of Concrete Bridges (see BD 24/92) | |
| | Part 5 : 1979 CP for Design of Composite Bridges (see BD16/82) | |
| | Part 9 : 1983 Bridge Bearings (see BD 20/92) | |
| | Part 10 : 1980 CP for Fatigue (see BD 9/81) | |
| BS 5628 | Part 1 : 1992 – Unreinforced Masonry | |
| BS 5930 | 1999 – Site Investigations | |
| BS 6031 | 1981 – Earthworks | |
| BS 8002 | 1994: Code of practice for earth retaining structures | |
| BS 8004 | 1986: Code of practice for foundations | |
| BS 8118 | 1991: The Structural use of aluminium | |
| BS EN | Road restraint systems | |

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|---|---|---|
| 1317 | Part 1:1998 – Terminology and general criteria for test methods | |
| | Part 2:1998 – Performance classes, impact test acceptance criteria and test methods for safety barriers | |
| | Part 3:2000 – Performance classes, impact test acceptance criteria an test methods for crash cushions | |
| | Part 4:2002 – Performance classes, impact test acceptance criteria an test methods for terminals and transitions of safety barriers | |
| BS EN 12899-1 | Fixed,Vertical road traffic signs | |
| BS EN 14388 | Road traffic noise reducing devices – Specification | |
| **2.0** | **Miscellaneous** | |
| | Circular Roads No 61/72 – Routes for Heavy and High Abnormal Loads. | |
| | Railway Group Approved Code of Practice GC/RC5510: Recommendations for the Design of Bridges (2000) | |
| | Simplified Tables of External Loads on Buried Pipelines (1986) | |
| | Traffic Management Act 2004 | |
| **3.0** | **Manual of Contract Documents for Highway Works (MCDHW)** | |
| Volume 1 | Specification for Highway Works and Notes for Guidance (March 1998 up to and including November 2007 amendments). | |
| Volume 2 | Notes for Guidance on the Specification for Highway Works (March 1998 up to and including November 2007 amendments) | |
| Volume 3 | Highway Construction Details (March 1998 up to and including November 2007 amendments). | |
| **4.0** | **Design Manual for Roads and Bridges (DMRB)** | |

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|---|---|---|
| **4.1** | **Bridges and Structures, Advice Notes (BA Series)** | |
| BA 9/81 | The Use of BS 5400: Part 10: 1980. Code of Practice for Fatigue Amendment No.1 | |
| BA 16/97 | The Assessment of Highway Bridges and Structures. Amendment Nos.1 and 2 | |
| BA 19/85 | The Use of BS 5400: Part 3: 1982 | |
| BA 24/87 | Early Thermal Cracking of Concrete – Amendment No.1 | |
| BA 26/94 | Expansion Joints for Use in Highway Bridge Decks | |
| BA 28/92 | Evaluation of Maintenance Costs in Comparing Alternative Designs for Highway Structures | |
| BA 30/94 | Strengthening of Concrete Highway Structures Using Externally Bonded Plates | |
| BA 34/90 | Technical Requirements for the Assessment and Strengthening Programme for Highway Structures. Stage I – Older Short Span Bridges and Retaining Structures | |
| BA 35/90 | Inspection and Repair of Concrete Highway Structures | |
| BA 36/90 | The Use of Permanent Formwork | |
| BA 37/92 | Priority Ranking of Existing Parapets | |
| BA 38/93 | Assessment of the Fatigue Life of Corroded or Damaged Reinforcing Bars | |
| BA 39/93 | Assessment of Reinforced Concrete Half-joints | |
| BA 40/93 | Tack Welding of Reinforcing Bars | |
| BA 41/98 | The Design and Appearance of Bridges | |
| BA 42/96 | The Design of Integral Bridges [Incorporating Amendment No.1 dated May 2003] | |
| BA 43/94 | Strengthening, Repair and Monitoring of Post-tensioned Concrete Bridge Decks | |

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| BA 44/96 | Assessment of Concrete Highway Bridge and Structures | |
| BA 47/99 | Waterproofing and Surfacing of Concrete Bridge Decks | |
| BA 50/93 | Post-tensioned Concrete Bridges. Planning, Organisation and Methods for Carrying Out Special Inspections | |
| BA 51/95 | The Assessment of Concrete Structures Affected by Steel Corrosion | |
| BA 52/94 | The Assessment of Concrete Highway Structures Affected by Alkali Silica Reaction | |
| BA 53/94 | Bracing Systems and the Use of U-Frames in Steel Highway Bridges | |
| BA 54/94 | Load Testing for Bridge Assessment | |
| BA 55/06 | The Assessment of Bridge Substructures and Foundations, Retaining Walls and Buried Structures | |
| BA 56/96 | The Assessment of Steel Highway Bridges and Structures | |
| BA 57/01 | Design for Durability | |
| BA 58/94 | Design of Bridges and Concrete Structures with External Unbonded Prestressing | |
| BA 59/94 | Design of Highway Bridges for Hydraulic Action | |
| BA 61/96 | The Assessment of Composite Highway Bridges | |
| BA 67/96 | Enclosure of Bridges | |
| BA 68/97 | Crib Retaining Walls | |
| BA 72/03 | Maintenance of Road Tunnels | |
| BA 74/06 | The Assessment of Scour at Highway Bridges | |
| BA 80/99 | Use of Rockbolts | |
| BA 82/00 | Formation of Continuity Joints in Bridge Decks | |
| BA 83/02 | Cathodic Protection for use in Reinforced Concrete Structures | |

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| BA 84/02 | Use of Stainless Steel Reinforcement in Highway Structure | |
| BA 85/04 | Coatings for Concrete Highway Structures & Ancillary Structures | |
| BA 86/06 | Advice Notes on the Non-Destructive Testing of Highway Structures | |
| BA 87/04 | Management of Corrugated Steel Buried Structures | |
| BA 88/04 | Management of Buried Concrete Box Structures | |
| BA 92/07 | The Use of Recycled Concrete Aggregates in Structural Concrete | |
| **4.2** | **Bridges and Structures, Standards (BD Series)** | |
| BD 2/05 | Technical Approval of Highway Structures | |
| BD 7/01 | Weathering Steel for Highway Structures | |
| BD 9/81 | Implementation of BS 5400 : Part 10: 1980 CP for Fatigue | |
| BD10/97 | Design of Highway Structures in Areas of Mining Subsidence | |
| BD12/01 | Design of Corrugated Steel Buried Structures with Spans Greater than 0.9 Metres and up to 8m | |
| BD13/06 | Design of Steel Bridges – Use of BS 5400 : Part 3 : 2000 | |
| BD15/92 | General Principles for the design and Construction of Bridges - Use of BS 5400 : Part 1 : 1988 | |
| BD16/82 | Design of Composite Bridges – Use of BS 5400 : Part 5 : 1979 Amendment No.1 | |
| BD20/92 | Bridge Bearings – Use of BS 5400 : Part 9 : 1983 | |
| BD21/01 | The Assessment of Highway Bridges and Structures | |
| BD24/92 | Design of Concrete Bridges – Use of BS 5400 : Part 4 : 1990 | |
| BD27/86 | Materials for the Repair of Concrete Highway Structures | |
| BD28/87 | Early Thermal Cracking of Concrete – Amendment No. 1 | |

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| BD29/04 | Design Criteria for Footbridges | |
| BD30/87 | Backfilled Retaining Walls and Bridge Abutments | |
| BD31/01 | The Design of Buried Concrete Box and Portal Frame Structures | |
| BD33/94 | Expansion Joints for Use in Highway Bridge Decks | |
| BD34/90 | Technical Requirements for the Assessment and Strengthening Programme for Highway Structures Stage 1 Older Short Span Bridges and Retaining Structures | |
| BD35/06 | Quality Assurance Scheme for Paints and Similar Protective Coatings | |
| BD36/92 | Evaluation of Maintenance Costs in Comparing Alternative Designs for Highway Structures | |
| BD37/01 | Loads for Highway Bridges | |
| BD41/97 | Reinforced Clay Brickwork Retaining Walls of Pocket Type and Grouted Cavity type Construction – Use of BS 5628: Part 2: 1995 | |
| BD42/00 | Design of Embedded Retaining Walls and Bridge Abutments | |
| BD43/03 | The Impregnation of Reinforced and Prestressed Concrete Highway Structures using Hydrophobic Pore-Lining Impregnants | |
| BD44/95 | The Assessment of Concrete Highway Bridges and Structures | |
| BD45/93 | Identification Marking of Highway Structures | |
| BD46/92 | Technical Requirements for the Assessment and Strengthening Programme for Highway Structures. Stage 2 – Modern Short Span Bridges | |
| BD47/99 | Waterproofing and Surfacing of Concrete Bridge Decks | |
| BD48/93 | The Assessment and Strengthening of Highway Bridge Supports | |
| BD49/01 | Design rules for Aerodynamic Effects on Bridges | |

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| BD50/92 | Technical Requirements for the Assessment and Strengthening Programme for Highway Structures. Stage 3 – Long Span Bridges | |
| BD51/98 | Design Criteria for Portal and Cantilever Sign/signal Gantries | |
| BD53/95 | Inspection & Records for Road Tunnels | |
| BD54/93 | Post-tensioned Concrete Bridges<br>Prioritisation of Special Inspections | |
| BD56/96 | The Assessment of Steel Highway Bridges and Structures | |
| BD57/01 | Design for Durability | |
| BD58/94 | The Design of Concrete Highway Bridges and Structures with External and Unbonded Prestressing Design of Highway Bridges for Vehicle Collison | |
| BD60/04 | The Design of Highway Bridges for Vehicle Collision Loads | |
| BD61/96 | The Assessment of Composite Highway Bridges | |
| BD62/07 | As Built, Operational and Maintenance Records for Highway Structures | |
| BD63/07 | Inspection of Highways Structures | |
| BD65/97 | Design Criteria for Collision Protection Beams | |
| BD67/96 | Enclosures of Bridges | |
| BD68/97 | Crib Retaining Walls | |
| BD70/03 | Strengthened/Reinforced Soils and Other Fills for Retaining Walls and Bridge Abutments. (Use of BS 8006 : 1995), incorporating Amendment No.1 (Issue 2 March 1999) | |
| BD74/00 | Foundations | |
| BD78/99 | Design of Road Tunnels | |
| BD79/06 | The Management of Sub-Standard Highway Structures | |
| BD81/02 (Correction | Use of Compressive Membrane Action in Bridge Decks | |

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| BD82/00 | Design of Buried Rigid Pipes | |
| BD84/02 | Strengthening of Concrete Bridge Supports for Vehicle Impact using Fibre Reinforced Polymers | |
| BD86/07 | The Assessment Of Highway Bridges & Structures For The Effects Of Special Type General Order (STGO) & Special Order (SO) Vehicles | |
| BD87/05 | Maintenance Painting of Steelwork | |
| BD89/03 | The Conservation of Highway Structures | |
| BD90/05 | Design of FRP Bridges and Highway Structures | |
| BD91/04 | Unreinforced Masonry Arch Bridge | |
| BD92/07 | The Use Of Recycled Concrete Aggregates In Structural Concrete | |
| BD94/07 | Design of Minor Structures | |
| BD95/07 | Treatment Of Existing Structures On Highway Widening Schemes | |
| **4.3** | **Bridges and Structures, Technical Memoranda (BE Series)** | |
| BE 13 | Fatigue Risk in Bailey Bridges | |
| BE 23 | Shear Key Decks – Amendment No.1 to Annex | |
| BE 5/75 | Rules for the Design and Use of Freyssinet Concrete Hinges in Highway Structures | |
| BE 7/04 | Departmental Standard (Interim) Motorway Sign/Signal Gantries | |
| **4.4** | **Traffic Engineering and Control, Advice Notes (TA Series)** | |
| TA89/05 | Use of Passively safe signposts, lighting columns and traffic signal posts to BS EN 12767:2000 | |
| **4.5** | **Traffic Engineering and Control, Standards (TD Series)** | |

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|---|---|---|
| TD 9/93 | Road Layout and Geometry – Highway Link Design [Incorporating Amendment No.1 dated February 2002] | |
| TD 19/06 | Requirement for Road Restraint Systems | |
| TD27/05 | Cross Sections and Headroom | |
| TD36/93 | Subways for Pedestrians and Pedal Cyclists. Layout and Dimensions | |
| IRRRS/04 Rev 1 | Interim Requirements for Road Restraint Systems | |
| **4.6** | **Highways, Advice Notes (HA Series)** | |
| HA 59/92 | Mitigating Against Effects on Badgers | |
| HA 66/95 | Environmental Barriers – Technical Requirements | |
| HA 80/99 | Nature Conversation Advice in Relations to Bats | |
| HA 81/99 | Nature Conversation Advice in Relations to Otters | |
| HA 84/01 | Nature Conversation and Biodiversity | |
| HA 97/01 | Nature Conversation Management Advice in Relation to Dormice | |
| HA 98/01 | Nature Conversation Management Advice in Relation to Amphibians | |
| **4.7** | **Highways, Standards (HD Series)** | |
| HD 22/02 | Ground Investigation and Earthworks – Procedure for Geotechnical Certification | |
| **5.0** | **Documents in Addition to Original BD2 TAS** | |
| **5.1** | **British Standards** | |
| BS 153 | Part 3A – Specification for Steel Girder Bridges (see BE 1/77) | |
| BS 4360 | 1990 Specification for weldable Structural Steels | |
| BS 7608 | Fatigue Design and Assessment of steel structures | |

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| BS 8006 | 1995: Code of practice for strengthened/reinforced soils and other fills | |
| BS 8666 | 2005: Scheduling, Dimensioning, Bending and Cutting of Steel Reinforcement for Concrete – Specification | |
| **5.2** | **DMRB – Interim Advice Notes – Bridges and Structures** | |
| IAN 3/96 | BA 50/93 Post Tensioned Concrete Bridges | |
| IAN 4/96 | BD 44/95 The Assessment of Concrete Highway Bridges and Structures | |
| IAN 5/96 | BD 24/92 The Design of Concrete Highway Bridges and Structures. Use of BS 5400: Part 4: 1990 | |
| IAN 41/02 | European Cement Standards | |
| IAN 44/05 Rev 4 | Interim Requirements for Road Restraint Systems (Vehicle and Pedestrian) (Revision 4) | |
| IAN 47/02 | Post Tensioned Grouted Duct Concrete Bridges | |
| IAN 48/03 | Measures to Minimise The Risk of Sulphate Attack (Including Thaumasite) – New Construction and Structures Under Construction | |
| IAN 51/03 | Hinge Deck Structures | |
| IAN 53/04 | Concrete Half-Joint Deck Structures | |
| IAN 55/04 | Guidance on the Use of European Standard BS EN 1317 – Road Restraint Systems | |
| IAN 63/05 Rev. 1 | Asbestos Management Applicable to the Strategic Road Network | |
| IAN 64/05 | Driver Information at Road Works | |
| IAN 69/05 | Designing for Maintenance | |
| IAN 70/06 | Implementation of New Reinforcement Standards | |
| IAN 83/06 | Principal and General Inspection of Sign/Signal Gantries, and Gantries with low handrails or open mesh flooring | |

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| IAN 85/07 | Design Of Passively Safe Portal Signal Gantries | |
| IAN 86/07 | Amendments To Design Requirements For Portal And Cantilever Sign/Signal Gantries | |
| IAN 87/07 | The provision of Signal Gantries for Motorways with Four or more Running Lanes | |
| IAN 90/07 – Amnd.1 | Guidance For The Use Of Rapid Setting Emergency Repair Materials | |
| IAN 91/07 | Interim Advice on the Identification of 'Particularly at risk Supports' | |
| IAN 95/07 | Revised guidance regarding the use of BS8500(2006) for the design and construction of structures using concrete | |
| IAN 96/07 Rev.1 | Guidance On Implementing Results Of Research On Bridge Deck Waterproofing | |
| IAN 97/07 | Assessment and upgrading of existing parapets | |
| IAN 104/07 | The Anchorage of Reinforcement & Fixings in Hardened Concrete | |