

## Scottish Trunk Road Network Management Contract

### South East Unit

#### Attachment 8.1 – Certificates In Relation To Certification Procedures

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|   |                             |
|---|-----------------------------|
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#### NOTE:

(S) = Structures certificate

(EW) = Earthworks certificate

(RRS) = Road Restraint System certificate

(R) = Roads certificate

(\*) = ability to use certificate as part of phased construction activities

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8.1.1 - Approval in Principle form and notes

**APPROVAL IN PRINCIPLE**

**FORM TA1**

**Order Reference** .....

**Scheme Identifier**.....

**1. NAME OF SCHEME** .....

- 1.1 Type of Road (from TD 27)
- 1.2 Permitted traffic speed (for a bridge give over and/or under).
- 1.3 Existing restrictions

**2. NAME OF STRUCTURE** .....

- 2.1 Obstacle crossed.

**3. PROPOSED STRUCTURE**

- 3.1 Description of Structure
- 3.2 Structural type )
- 3.3 Foundation type ) Include reasons for choice
- 3.4 Span arrangements )
- 3.5 Articulation arrangements )
- 3.6 Parapet type
- 3.7 Proposed arrangements for inspection and maintenance / Inspection for Assessment\*
  - 3.7.1 Traffic management
  - 3.7.2 Access
  - 3.7.3<sup>A</sup> Intrusive or further investigations proposed
- 3.8 Sustainability issues considered. Materials and finishes/Material strengths assumed and basis of assumptions
- 3.9 Risks and hazards considered
- 3.10<sup>D\*</sup> Estimated cost of proposed Structure together with other structural forms considered, including where appropriate manufactured structure, and the reasons for their rejection including comparative whole life costs with date of estimates.
- 3.11<sup>D\*</sup> Proposed arrangements for construction
  - 3.11.1 Traffic management
  - 3.11.2 Service diversions
  - 3.11.3 Interface with existing structures
- 3.12<sup>A\*</sup> Tear of construction

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3.11<sup>A\*</sup> Reason for assessment

3.12<sup>A\*</sup> Part of structure to be assessed

#### 4. DESIGN/ASSESSMENT CRITERIA

4.1 Live Loading, Headroom

4.1.1 HA loading

4.1.2 HB loading ..... units

4.1.3 Footway or footbridge live loading.

4.1.4 Provision for exceptional abnormal loads.

4.1.4.1 Gross weight ..... tonnes on vehicle No .....

4.1.4.2 Axle load and spacing

4.1.4.3 Air cushion ..... tonnes over .....mx.....metres.

4.1.4.4 Location of vehicle track on deck cross-section.

4.1.5 Any special loading not covered above.

4.1.6 Department heavy or high load route requirements and arrangements being made to preserve the route.

4.1.7 Minimum headroom provided .....metres.

4.1.8 Relevant Authorities consulted and any special conditions required.

4.2 List of relevant documents from the TAS (dated ..... from Annex B of BD 2).

4.2.1 Additional relevant Design Manual for Roads and Bridges Standards published since the above edition of the TAS including amendments.

4.3 Proposed departures from standards given in 4.2 and 4.2.1

4.4 Proposed methods of dealing with aspects not covered by standards in 4.2 and 4.2.1.

#### 5. STRUCTURAL ANALYSIS

5.1 Methods of analysis proposed for superstructure, substructure and foundations.

5.2 Description and diagram of idealised structure to be used for analysis.

5.3 Assumptions intended for calculation of structural element stiffness.

5.4 Proposed earth pressure coefficients ( $k_a$ ,  $k_o$  and  $k_p$ ) to be used in Design/Assessment\* for earth retaining elements.

#### 6. GROUND CONDITIONS

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- 6.1 Acceptance of interpretative recommendations of the soils report to be used in the Design/Assessment\* and reasons for any proposed departures.
- 6.2 Describe foundations fully including the reasons for adoption of allowable and proposed bearing pressures/pile loads, strata in which foundations are located, provision for skin friction effects on piles and for lateral pressures due to compression of underlying strata.
- 6.3 Differential settlement to be allowed for in Design/Assessment\* for Structure.
- 6.4 Anticipated ground movements or settlement due to embankment loading, mineral extraction, flowing water, and measures proposed to deal with these effect as far as they affect the Structure.
- 6.5 Results of tests of ground water and any counteracting measures proposed.

**7. DESIGN CHECKS**

- 7.1 Proposed category of structure.
- 7.2 If Category III, name of proposed Independent Checkers.
- 7.3 Erection proposals or temporary works for which the Contractor shall be required to arrange an independent check listing the parts of the Structure affected with reasons for recommending an independent Design check.

**8. DRAWINGS AND DOCUMENTS**

- 8.1 List of drawings (and their numbers) and documents including departures accompanying the submission
- 8.2<sup>A\*</sup> List of construction and record drawings (including numbers) to be used in the assessment
- 8.3<sup>A\*</sup> List of pile driving or other construction records
- 8.4<sup>A\*</sup> List of previous inspection and assessment reports

**9. THE ABOVE IS SUBMITTED FOR ACCEPTANCE**

Signed ..... Firm .....

Name ..... Date .....

Designer/Assessment\* (Team leader)

Signed ..... Operating ..... Company .....  
..... (On behalf of the Operating Company)

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Name ..... Date .....  
(Block Capitals)

**10. THE ABOVE DEPARTURES FROM STANDARDS / ASPECTS FROM STANDARDS ARE REJECTED / AGREED**

Signed .....  
Director (Bridges Section)

Name ..... Date .....  
(Block Capitals)

**11. THE ABOVE IS ACCEPTED SUBJECT TO THE AMENDMENTS AND CONDITIONS SHOWN BELOW**

Signed .....  
Director (Bridges Section)

Name ..... Date .....  
(Block Capitals)

A = Assessment AIP D = Design AIP \* = Delete as appropriate

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#### **INSTRUCTIONS FOR THE OPERATING COMPANY'S COMPLETION OF APPROVAL IN PRINCIPLE FORM TA1 AND ASSOCIATED DOCUMENTS**

1.1 The form TA1 shall be completed and submitted in accordance with Standard BD 2 of *Design Manual for Roads and Bridges*, using the form as amended within this schedule.

1.2 Annex A, Annexes A2 to A7 within BD2 of the *Design Manual for Roads and Bridges* are not required.

1.3 Appendix A, TECHNICAL APPROVAL SCHEDULE, shall include but not be limited to

(i) Annex B to BD/02 – model TAS schedule

(ii) Annex B1 – schedules of documents relating to design and assessment of highway bridges and structures

(iii) Alpha-numerical index as per *Design Manual for Roads and Bridges*

(a) BA Series

(b) BD Series

(c) BE Series

(d) Scottish Addenda

(e) Scottish Executive Enterprise and Lifelong Learning Department

#### Interim Amendments

1.4 The alpha-numerical index as per Design Manual for Roads and Bridges Volume 1 Section 0 Part 2 referred to in paragraph 1.4 above shall be reproduced clearly identifying the standards which apply by striking through the standards that do not apply.

1.5 Annex B, Annexes B2 to B4 are not required.

1.5 Annex B1, add Scottish Addenda to Departmental Standards and Advice Notes to the list contained therein.

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8.1.2 - Design Interim Certificate: Structures

**DESIGN INTERIM CERTIFICATE: STRUCTURES**

**CERTIFICATE No:**

**DIC(S).....**

**Structure No.....**

**Order Reference.....**

**Route.....**

**Scheme Identifier.....**

1. We hereby certify to the Scottish Ministers in respect of the design of the following further divided part of the Design or Design Element namely:

..... **(Name of further divided part of Structure)**

..... **(Name of Structure)**

that reasonable professional skill and care has been taken by us with a view to securing that the further divided part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and bar bending schedules bearing the unique numbers listed below:
- (iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Design Certificate(s).

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.**

Signed: ..... Firm: .....  
DESIGNER (Team leader for Designer)

Name: ..... Date: .....  
(Block Capitals)

Signed: ..... Firm: .....  
(On behalf of the Operating Company)

Name: ..... Date: .....  
(Block Capitals)



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**8.1.3 - Design Check Interim Certificate: Structures**

**CERTIFICATE NO: DCIC(S).....**

**Order Reference.....**

**Scheme Identifier.....**

1. We hereby certify to the Scottish Ministers in respect of the check of the following further divided part for the Design or Design Element namely:

..... **(Name of further divided part of Structure)**

..... **(Name of Structure)**

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the part of the Design or Design Element with a view to securing that the further divided part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and bar bending schedules bearing the unique numbers listed below:
- (iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Check Certificate(s).

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm:  
CHECKER (Team leader for Checker) .....

Name: ..... Date:  
(Block Capitals) .....

Signed: ..... Firm:  
(On behalf of the Operating Company) .....

Name: ..... Date  
.....

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(Block Capitals)

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8.1.4 - Design Certificate: Structures

**CERTIFICATE NO : DC(S).....**

**Order**

**Reference.....**

**Scheme**

**Identifier.....**

1. We hereby certify to the Scottish Ministers in respect of the design of the following part of the Design or Design Element namely

.....

**(Name of Structure)**

that reasonable professional skill and care has been taken by us with a view to securing that the part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and bar bending schedules bearing the unique numbers listed below:
- (iii) shall not be detrimental to the whole Design or Design Element.
- (iv) where required a Safety Audit Certificate for Stage \*[2] \*[3] is attached

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm: .....  
DESIGNER (Team leader for Designer)

Name: ..... Date: .....  
(Block Capitals)

Signed: ..... Firm: .....  
(On behalf of the Operating Company)

Name: ..... Date: .....  
(Block Capitals)

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8.1.5 – Design Check Certificate: Structures

**CERTIFICATE NO : DCC(S).....**

**Order Reference.....**

**Scheme Identifier.....**

1. We hereby certify to the Scottish Ministers in respect of the check of the following part of the Design or Design Element namely

.....  
**(Name of Structure)** that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the part of the Design or Design Element with a view to securing that the part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and bar bending schedules bearing the unique numbers listed below:
- (iii) shall not be detrimental to the whole Design or Design Element.

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm:  
CHECKER (Team leader for Checker) .....

Name: ..... Date:  
(Block Capitals) .....

Signed: ..... Firm:  
(On behalf of the Operating Company).....

Name: ..... Date:  
.....  
(Block Capitals)

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8.1.6 – Design Interim Certificate: Earthworks

**CERTIFICATE NO: DIC(EW).....**

**Order**

**Reference.....**

**Scheme Identifier.....**

1. We hereby certify to the Scottish Ministers in respect of the design of the following further divided part of the Design or Design Element namely

.....  
**(Name of further divided part of the Earthworks)**

.....  
**(Name of part of Earthworks or Earthworks Element)**

that reasonable professional skill and care has been taken by us with a view to securing that the further divided part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and other Design documents bearing the unique numbers listed below:
- (iii) shall not be detrimental to the Whole Design or Design Element shall not affect the completion of the Design Certificate(s).
- (iv) has been the subject of an interpretative geotechnical report and that the conclusions of that report have been taken into account in the Design or Design Element.

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm: .....  
DESIGNER (Team leader for Designer)

Name: ..... Date: .....

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(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name: ..... Date: .....

(Block Capitals)

8.1.7 – Design Check Interim Certificate: Earthworks

**CERTIFICATE NO : DCIC(EW).....**

**Order Reference.....**

**Scheme Identifier.....**

1. We hereby certify to the Scottish Ministers in respect of the check of the following further divided part of the Design or Design Element namely

.....  
**(Name of further divided part of the Earthworks)**

.....  
**(Name of part of Earthworks or Earthworks Element)**

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the Design or Design Element (including the interpretative geotechnical report referred to in (iv) below) with a view to securing that the further divided part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements
- (ii) has been accurately translated into the construction drawings and other Design documents bearing the unique numbers listed below:
- (iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Check Certificate(s)
- (iv) has been the subject of an interpretative geotechnical report and that the conclusions of that report have been taken into account in the Design or Design Element.

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**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm: .....

CHECKER (Team leader for  
Checker)

Name: ..... Date: .....  
(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating  
Company)

Name: ..... Date: .....  
(Block Capitals)

**8.1.8 – Design Certificate: Earthworks**

**CERTIFICATE NO:**  
**DC(EW).....**  
**Order Reference.....**  
**Scheme Identifier.....**

1. We hereby certify to the Scottish Ministers in respect of the design of the following part of the Design or Design Element namely

.....  
**(Name of Earthworks or Earthwork's Element)** that reasonable professional skill and care has been taken by us with a view to securing that the part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and other Design documents bearing the unique numbers listed below:

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- (iii) shall not be detrimental to the whole Design or Design Element.
- (iv) has been the subject of an interpretative geotechnical report and that the conclusions of that report have been taken into account in the Design or Design Element.

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm: .....  
DESIGNER (Team leader for Designer)

Name: ..... Date: .....  
(Block Capitals)

Signed: ..... Firm: .....  
(On behalf of the Operating Company)

Name: ..... Date: .....  
(Block Capitals)



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8.1.9 – Design Check Certificate: Earthworks

**CERTIFICATE NO: DCC(EW).....**

**Order Reference .....**

**Scheme Identifier.....**

1. We hereby certify to the Scottish Ministers in respect of the check of the following part of the Design or Design Element namely

.....  
**(Name of Earthworks or Earthworks Element)**

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the Design or Design Element (including the interpretative geotechnical report referred to in (iv) below) with a view to securing that the part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and other Design documents bearing the unique numbers listed below:
- (iii) shall not detrimental to the whole Design or Design Element.
- (iv) has been the subject of an interpretative geotechnical report and that the conclusions of that report have been taken into account in the Design or Design Element.

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed:

Firm:

.....

.....

CHECKER (Team leader for  
Checker)

**Scottish Trunk Road Network Management Contract**

**South East Unit**

Name:

Date:

.....

.....

(Block Capitals)

Signed:

Firm:

.....

.....

(On behalf of the Operating  
Company)

Name:

Date

.....

.....

(Block Capitals)

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8.1.10 – Design Interim Certificate: Road Restraint Systems

**CERTIFICATE NO: DIC(RRS)...**

**Order Reference .....**

**Scheme Identifier.....**

1. We hereby certify to the Scottish Ministers in respect of the design of the following further divided part of the Design or Design Element namely

.....  
**(Name of further divided part of Safety Road Restraint System or Element)**

.....  
**(Name of part of Road Restraint System or Element)**

that reasonable professional skill and care has been taken by us with a view to securing that the further divided part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and other Design documents bearing the unique numbers listed below:
- (iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Design Certificate(s).
- (iv) that all aspects of the Design or Design Element of the Road Restraint System on the Contract have been developed by the use of a risk assessment approach.

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm: .....

DESIGNER (Team leader for Designer)

Name: ..... Date: .....

(Block Capitals)

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Signed: ..... Firm: .....  
(On behalf of the Operating Company)

Name: ..... Date: .....  
(Block Capitals)

8.1.11 – Design Check Interim Certificate: Road Restraint Systems

**CERTIFICATE NO: DCIC(RRS).....**

**Order Reference .....**

**Scheme Identifier.....**

1. We hereby certify to the Scottish Ministers in respect of the check of the following further divided part of the Design or Design Element namely

.....  
.. **(Name of further divided part of Road Restraint System or Element)**

.....  
. **(Name of part of Road Restraint System or Element)**

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the Design or Design Element with a view to securing that the further divided part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and other design documents bearing the unique numbers listed below:
- (iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Check Certificate(s).
- (iv) that all aspects of the Design or Design Element of the Road Restraint System on the Contract have been developed by the use of a risk assessment approach.

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**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: \_\_\_\_\_ Firm: \_\_\_\_\_

.....

CHECKER (Team leader for  
Checker)

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
.....

(Block Capitals)

Signed: \_\_\_\_\_ Firm: \_\_\_\_\_

.....

(On behalf of the Operating  
Company)

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
.....

(Block Capitals)

**8.1.12 – Design Certificate: Road Restraint Systems**

**CERTIFICATE NO: DC(RRS).....**

**Order Reference .....**

**Scheme Identifier.....**

1. We hereby certify to the Scottish Ministers in respect of the design of the following part of the Design or Design Element namely

.....

**(Name of Part of Road Restraint System or Element)**

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that reasonable professional skill and care has been taken by us with a view to securing that the part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
  - (ii) has been accurately translated into the construction drawings and other Design documents bearing the unique numbers listed below:
  - (iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Design Certificate(s).
  - (iv) that all aspects of the Design or Design Element of the Road Restraint System on the Contract have been developed by the use of a risk assessment approach.
- iv) where required a Safety Audit Certificate for Stage \*[2] \*[3] is

attached \* delete as appropriate

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm: .....  
DESIGNER (Team leader for Designer)

Name: ..... Date: .....  
(Block Capitals)

Signed: ..... Firm: .....  
(On behalf of the Operating Company)

Name: ..... Date: .....  
(Block Capitals)

8.1.13 – Design Check Certificate: Road Restraint Systems

**CERTIFICATE NO: DCC(RRS)..**

**Order Reference**

.....

**Scheme**

**Identifier.....**

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1. We hereby certify to the Scottish Ministers in respect of the check of the following part of the Design or Design Element namely

.....  
**(Name of Part of the Road Restraint System or Element)**

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the part of the Design or Design Element with a view to securing that the part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and other Design documents bearing the unique numbers listed below:
- (iii) shall not be detrimental to the whole Design or Design Element
- (iv) that all aspects of the Design or Design Element of the Road Restraint System on the Contract have been developed by the use of a risk assessment approach.

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm: .....

CHECKER (Team leader for Checker)

Name: ..... Date: .....  
(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name..... Date .....  
(Block Capitals)





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8.1.14 – Design Interim Certificate: Other Part of Design or Design Element

**CERTIFICATE NO: DIC(\*)**.....  
**Order Reference** .....  
**Scheme Identifier**.....

1. We hereby certify to the Scottish Ministers in respect of the design of the following part of the Design or Design Element namely:

.....  
**(Name of further divided part of Design or Design Element)**

.....  
.....  
**(Name of Part of the Design or Design Element)**

that reasonable professional skill and care has been taken by us with a view to securing that the further divided part of the Design or Design Element: (i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction drawings and other Design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Design Certificate.

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm: .....  
DESIGNER (Team leader for Designer)

Name: ..... Date: .....  
(Block Capitals)

Signed: ..... Firm: .....  
(Operating Company)

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**South East Unit**

Name: ..... Date: .....

(Block Capitals)

\* Insert Description of part of Design or Design Element:

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|  |      |                               |       |
|--|------|-------------------------------|-------|
| Accommodation Works                                  | (A)  | Lighting and Electrical Works | (L)   |
| Drainage   | (D)  | Road Pavements                | (P)   |
| Environmental and Landscaping                        | (E)  | Road Layout                   | (RL)  |
| Earthworks   | (EW) | Signs and Road Markings       | (SRM) |
| Fencing and Environmental Barriers                   | (F)  | Piling                        | (X)   |
| Kerbs, Footways and Paved Areas                      | (K)  |                               |       |
| Any other relevant parts of Design or Design Element |      |                               | (Y)   |

**Scottish Trunk Road Network Management Contract**

**South East Unit**

8.1.15 – Design Interim Certificate: Other Part of Design or Design Element

**CERTIFICATE NO: DCIC(\*)**.....

**Order Reference** .....

**Scheme Identifier**.....

1. We hereby certify to the Scottish Ministers in respect of the check of the following further divided part of the Design or Design Element namely:

.....  
..... **(Name of further divided part of Design or Design Element)**

.....  
.....

**(Name of Part of the Design or Design Element)**

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the further divided part of the Design or Design Element with a view to securing that the further divided part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and other Design documents bearing the unique numbers listed below:
- (iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Design Certificate.

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm: .....  
CHECKER (Team leader for Checker)

Name: ..... Date: .....  
(Block Capitals)

Signed: ..... Firm: .....  
(Operating Company)

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Name: ..... Date: .....

(Block Capitals) \*

Insert Description of part of Design or Design Element:      Design or Design

Element      (Y)

**Scottish Trunk Road Network Management Contract**

**South East Unit**

8.1.16 – Design Certificate: Other Part of Design or Design Element

**CERTIFICATE NO: DC(\*)**.....

**Order Reference** .....

**Scheme Identifier**.....

1. We hereby certify to the Scottish Ministers in respect of the design of the following part of the Design or Design Element namely:

.....  
..... **(Name of Part of the Design or Design Element)**

that reasonable professional skill and care has been taken by us with a view to securing that the part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and other Design documents bearing the unique numbers listed below:
- (iii) shall not be detrimental to the whole Design or Design Element.
- (iv) where required a Safety Audit Certificate for Stage **\*\*[2] \*\*[3]** is attached

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm: .....  
DESIGNER (Team leader for Designer)

Name: ..... Date: .....  
(Block Capitals)

Signed: ..... Firm: .....  
(Operating Company)

Name: ..... Date: .....  
(Block Capitals)

*\* Insert Description of part of Design or Design Element.*

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*\*\* delete as appropriate*

Design or Design Element

(Y)

**Scottish Trunk Road Network Management Contract**

**South East Unit**

8.1.17 – Design Check Certificate: Other Part of Design or Design Element

**CERTIFICATE NO: DCC(\*)**.....

**Order Reference** .....

**Scheme Identifier**.....

1. We hereby certify to the Scottish Ministers' in respect of the check of the following part of the Design or Design Element namely:

.....  
.....

**(Name of Design Element)**

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the part of the Design or Design Element with a view to securing that the part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and other Design documents bearing the unique numbers listed below:
- (iii) shall not be detrimental to the whole Design or Design Element.

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company**

Signed: ..... Firm: .....  
CHECKER (Team leader for Checker)

Name: ..... Date: .....  
(Block Capitals)

Signed: ..... Firm: .....  
(Operating Company)

Name: ..... Date: .....  
(Block Capitals)



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\* Insert Description of part of Design or Design Element:

Design or Design Element (Y)

**Scottish Trunk Road Network Management Contract**

**South East Unit**

8.1.18 – Combined Design and Design Check Certificate

**CERTIFICATE NO: DC/DCC....**

**Scheme:**..... **Order Reference**.....  
**Scheme Identifier**.....

1. We hereby certify to the Scottish Ministers in respect of the design and design check of the following part of the Design or Design Element namely:

- ⑨ Accommodation Works (A)  Road Restraint Systems (B)
- ⑨ Drainage (D)
- ⑨ Environmental and Landscaping (E)
- ⑨ Earthworks (EW)
- ⑨ Fencing and Environmental Barriers (F)
- ⑨ Kerb, Footways and Paved Areas (K)
- ⑨ Lighting and Electrical Works (L)
- ⑨ Road Pavements (P)
- ⑨ Road Layout (RL)
- ⑨ Signs and Road Markings (SRM)
- ⑨ Piling (X)
- ⑨ Other (Y)

that reasonable professional skill and care has been taken by us with a view to securing that the part of the Design or Design Element:

- (i) complies with the Scottish Ministers' Requirements.
- (ii) has been accurately translated into the construction drawings and other Design documents, where applicable, bearing the unique number contained in the certificate number above.
- (iii) is not detrimental to the whole Design or Design Element.
- (iv) where applicable to earthworks (EW), has been the subject of an interpretative geotechnical report and that the conclusions of that report have been taken into account in the Design or Design Element.
- (v) where applicable to road restraint systems (B), that all aspects of the Design or Design Element of the road restraint system on the Contract have been developed by the use of a risk assessment approach.
- (vi) where required a Safety Audit Certificate for Stage \*[2] \*[3] is attached

*\* delete as appropriate*

**Scottish Trunk Road Network Management Contract**

**South East Unit**

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.**

Signed: ..... Firm: .....

CHECKER (Team leader for Checker)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

**Scottish Trunk Road Network Management Contract**

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**To be inserted as Appendix to:**

8.1.19 – Road Safety Audit (as Appendix to DC or DC/CC)

**CERTIFICATE NO: RSAC.....**

|                      |                                |                  |
|----------------------|--------------------------------|------------------|
| <b>Scheme:</b> ..... | <b>Order</b>                   | <b>Reference</b> |
|                      | .....                          |                  |
|                      | <b>Scheme Identifier</b> ..... |                  |

Form of certificate to be used by the Designer for certifying that a Safety Audit has been carried out in accordance with Schedule 1.

The Design for the Scheme has been the subject of a Road Safety Audit in accordance with Stage \*[2] \*[3] of the Design Manual for Roads and Bridges Standard HD 19 or equivalent and we certify that all recommendations agreed or recommended by the road safety auditors have been incorporated in the Design.

*\* delete as appropriate*

Signed: ..... Firm: .....  
CHECKER (Team leader for Checker)

Name: ..... Date: .....  
(Block Capitals)

Signed: ..... Firm: .....  
(Operating Company)

Name: ..... Date: .....  
(Block Capitals)

**Scottish Trunk Road Network Management Contract**

**South East Unit**

8.1.20 – Design Construction Completion Certificate

**CERTIFICATE No: DCComp.....**

(For Works Contracts and Operations executed by Operating Company)

(Issued upon completion of identified stage/element of the operations/works)

**Order Reference .....**

**Scheme Identifier .....**

We hereby certify to the Scottish Ministers in respect of the construction of the following part of the Design or Design Element:

.....

**(Name of Design or Design Element)**

that reasonable professional skill and care has been taken by us in supervising the construction and completion of the Design or Design Element with a view to securing that the part of the Design or Design Element:

- (i) complies with the Scottish Ministers requirements
- (ii) has been constructed in accordance with the Design or Design Element.

**We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.**

Signed: ..... Firm: .....  
(Operating Company)

Name: ..... Date: .....  
(Block Capitals)

8.1.21 – Construction Completion Certificate

**CERTIFICATE No: CCompC .....**

(For Operations executed by Operating Company)

**Scottish Trunk Road Network Management Contract**

**South East Unit**

(Issued upon substantial completion of the operations)

**Order Reference .....**

**Scheme Identifier .....**

Scheme

Name:

.....

**For Operating Company Orders**

We hereby certify to the Scottish Ministers we have completed our obligations in respect of the above referenced Scheme and have executed Operations as required by the Order referenced above.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

**Scottish Trunk Road Network Management Contract**

**South East Unit**

8.1.22 – Construction Completion Certificate for Supervision of Works

**CERTIFICATE No: CCSupW .....**

(Issued on substantial completion of the Works)

**Order Reference.....**

**Scheme Identifier.....**

Scheme

Title:

.....

1. We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.
2. We hereby certify to the Scottish Ministers that we have supervised the construction and completion of the Works as defined in the Works Contract to which this Certificate relates and that we have exercised reasonable professional skill and care with a view to securing that such Works have been constructed in accordance with the requirements of the Design as set out in such Works Contract  
In our opinion the Works Contractor completed the Works under the Works Contract to which this certificate relates on  
<date> .....

Signed: ..... Firm.....

(On behalf of the Operating Company)

Name: ..... Date: .....

**Scottish Trunk Road Network Management Contract**

**South East Unit**

8.1.23 – Maintenance Certificate

(For Operations executed by Operating Company)

(Issued upon completion maintenance period of the Operations)

**CERTIFICATE No : MC .....**

**Order Reference .....**

**Scheme Identifier .....**

For Operations

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.

In our opinion we have completed our obligations to construct, complete and maintain the Operations under the Order to which this certificate relates

Signed: ..... Firm: .....  
(Operating Company)

Name: ..... Date: .....  
(Block Capitals)



**Scottish Trunk Road Network Management Contract**

**South East Unit**

8.1.24 – Maintenance Certificate (Supervision of works)

(Issued at end of maintenance period)

**CERTIFICATE No: MCSupW.....**

**Order Reference.....**

**Scheme Identifier.....**

Scheme

Title:

.....

1. We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.

We hereby certify to the Scottish Ministers that we have supervised the works as defined in the Works Contract during the Period(s) of Maintenance for such Works Contract to which this certificate relates and that we have exercised reasonable professional skill and care with a view to securing that such works have been completed in accordance with such Works Contract.

In our opinion the Works Contractor completed his obligations to construct complete and maintain the Works under the Works Contract to which this certificate relates on

<date> .....

Signed: ..... Firm.....

(On behalf of the Operating Company)

Name: ..... Date: .....

**Scottish Trunk Road Network Management Contract**

**South East Unit**

8.1.25 – Design Defects Correction Certificate

**CERTIFICATE No : DesDCC .....**

**Order Reference .....**

**Scheme Identifier .....**

Scheme

Title:

.....

We hereby certify to the Scottish Ministers in respect of the defects and non-conformances to the following part of the Design or Design Element:

.....

**(Name of Design or Design Element)**

that reasonable professional skill and care has been taken by us in supervising the correction of the Defects and Non-conformances to that part of the Design or Design Element with a view to securing that the Defects and Non-conformances have been corrected and that part of the Design or Design Element now complies with the Scottish Ministers' Requirements and has now been constructed in accordance with the Design or Design Element.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

**Scottish Trunk Road Network Management Contract**

**South East Unit**

8.1.26 – Consultation Certificate

**CERTIFICATE NO :- ConsultC.....**  
**Order Reference.....**  
**Scheme Identifier.....**  
**Scheme Title .....**  
**Route .....**

**CONSULTATION WITH ..... (Name of Consultee)**

**1. We hereby certify to the Scottish Ministers in respect of :**

.....  
(Name of part of Design or Design Element)

that we have consulted with .....(Name of Consultee) and  
have ascertained that they have no objections to the part of Design or Design Element  
as described on the construction drawings listed in an attachment.

**We agree that the words and phrases herein, unless otherwise stated, have the same  
meaning as attributed to them in this Contract between the Scottish Ministers  
and the Operating Company.**

Signed: .....

Firm. ....  
(On behalf of Operating Company)

Name: ..... Date: .....  
(Block Capitals)

**1. LIST OF CONSTRUCTION DOCUMENTS**

.....

**Scottish Trunk Road Network Management Contract**

**South East Unit**

**2. DECLARATION BY ..... (Name of Consultee)**

On behalf of ..... (Name of Consultee) I confirm that

- (i) consultations referred to above have been completed as indicated above.
  
- (ii) ..... (Name of Consultee) has no objections to the Design or Design Element as described on the drawings and documents listed in part 2 of this Consultation Certificate, and
  
- (iii) the drawings and documents listed in part 2 of this Consultation Certificate meet all known requirements of the Consultee.

Signed .....

Name .....

(Block Capitals)

duly authorised to sign on behalf of ..... (Name of Consultee)

Date: .....

**8.1.27 – Variation Order / Change Instruction Proforma**

**Form Number CON VO/CI.....**

OPERATING COMPANY Unit .....

Scheme ID .....

Scheme Name .....

Sheet No .....OF .....

Operating Company Address

**VARIATION ORDER/CHANGE INSTRUCTION**

**No:**



**Scottish Trunk Road Network Management Contract**

**South East Unit**

To include Site Instruction Reference (where appropriate) and Method of Payment

Signed: ..... Firm.....

(On behalf of the Operating Company)

Name: ..... Date: .....

South East Unit

8.1.28 – Departure from Standard Templates

**CERTIFICATE No: DfS(S).....**  
**(Bridges and other Highway Structures)**

**APPLICANT:** .....

**PROJECT TITLE:** .....

**DEPARTURE NO:** .....

**STRUCTURE REF:** .....

**SUBMISSION DATE:** .....

**1. List of Supporting Documentation**

Standards:

Drawings:

Other:

**2. Description of Proposed Departure**

***(include details of DMRB Standards and clause numbers which are being departed from)*** Proposed Departure:

Clauses Being Departed From:

- Contract Version of Manual Contract for Highway Works
- Contract Version of Design Manual for Roads and Bridges
- Contract Employers' Requirements
- Other

**3. Designer / Assessor justification**

***(include reasons why existing DMRB Standards are inappropriate)***

**4. Cost Implications:**





South East Unit

(Block Capitals with Engineering Qualifications)

Date: .....

**7. Transport Scotland Chief Bridge Engineer recommendation:**

The above Departure is **approved / rejected** (*Delete as appropriate*)

Signed: .....

Name: .....

(Block Capitals with Engineering Qualifications)

Date: .....

---

8.1.29 – Departure from Standard Templates

**CERTIFICATE No: DfS(R).....**  
**(Roads & Highways)**

**APPLICANT:** .....

**PROJECT TITLE:** .....

**DEPARTURE NO:** .....

**SUBMISSION DATE:** .....

| PROJECT DETAILS                |  |
|--------------------------------|--|
| General description of project | <i>[Realignment, new road, value added maintenance etc.]</i> |

**Scottish Trunk Road Network Management Contract**

**South East Unit**

|                                    |  |
|------------------------------------|--|
| Route Strategy                     | <i>[Details of the Scottish Executive's current strategy with respect to the route affected by the proposed Departure from Standard. Applicants should seek guidance from the relevant Scottish Executive Project Manager where necessary]</i> |
| Road Category & Type               | <i>[Refer to TD9]</i>  |
| Proposed Carriageway Cross Section | <i>[Carriageway, lane, verge, central reserve, footpath widths etc.]</i>   |
| Design Speed Proposed              | <i>[Add Design Speed identified in accordance with TD9/93]</i>   |
| Future Traffic Flows & Composition | <i>[Project Details for requirements]</i>  |

| <b>DESCRIPTION OF DEPARTURE</b>      |  |
|--------------------------------------|--|
| Location and Chainage                | <i>[e.g. Junction of A8000/B8000, CH 1000 to CH 1050]</i>  |
| Departure Type                       | <i>[e.g. Stopping Sight Distance]</i>  |
| DMRB Reference                       | <i>[Volume. Section. Part paragraph No.]</i>   |
| Required Standard                    | <i>[Identify Desirable Minimum Standard]</i>   |
| Standard Provided                    | <i>[Identify Standard being provided and how it relates to the Desirable Minimum Standard]</i>   |
| Associated Departures or Relaxations | <i>[Identify any other Departures or Relaxations included within the proposed project that interact with the Departure being considered]</i> |
| Drawing Nos.                         | <i>[Add Drawing Reference Numbers. Refer to Table 2.3.1 for the minimum No./scale of Drawings to be provided]</i>                            |

| <b>JUSTIFICATION</b>   |  |
|------------------------|--|
| Detailed Justification | <i>[Justification for requirements]</i>        |
| Safety Implications    | <i>[Safety Implications for requirements]</i>  |
| Structural Integrity   | <i>[Structural Integrity for requirements]</i> |

| <b>ESSENTIAL COMPENSATORY MEASURES</b> |   |
|--|---|
| Compensatory Measures                  | <i>[Essential Compensatory Measures for requirements]</i> |