

NETWORK RAIL (Civils Standard Designs & Details) **FORM B: CERTIFICATE OF DESIGN AND CHECKING**

(Page 1 of 4)

Title of Scheme: Standard Design & Detail Efficiency Project – Phase 2			
Location Various locations across Network Rail Infrastructure (Various)			
ELR Various	Mileage Various	OS grid ref. Various	Structure No. Various
Document No. NR/CIV/SD/FORMB/320			Revision B

Part 1: Design

Design organisation: Tony Gee and Partners

I certify that reasonable professional skill and care have been used in the Design of the Scheme (or part of Scheme) identified above, with the objective of ensuring that the Design:

- (a) complies with the Approval in Principle recorded on Form A signed by K. Teager on 11th May 2006, including associated comments by the Professional Head of Civil Engineering in giving endorsement;
- (b) complies with the Design standards, codes and methods stated on the above Form A (including any stated departures or dispensations), with the following amendments and/or additions:
None
- (c) is accurately described by the following drawings, schedules, performance, materials and workmanship specifications and other documents:

Document No.	Rev	Title
NR/CIV/SD/320	B	450 – 900 Dia Culvert Details Sheet 1 of 2
NR/CIV/SD/321	B	450 – 900 Dia Culvert Details Sheet 2 of 2
NR/CIV/SD/322	B	Standard Details for Crest Drains
NR/CIV/SD/323	B	Crest Drain Outfall Standard Details Sheet 1 of 4
NR/CIV/SD/324	B	Crest Drain Outfall Standard Details Sheet 2 of 4
NR/CIV/SD/325	B	Crest Drain Outfall Standard Details Sheet 3 of 4
NR/CIV/SD/326	B	Crest Drain Outfall Standard Details Sheet 4 of 4
NR/CIV/SD/327	B	Slope Drain Details
NR/CIV/SD/328	B	Drainage Details
NR/CIV/SD/FORMA/320	P1	Earthworks Drainage -Form A
Form B - Appendix A	B	Designer's Check Statement

Signed 	Title Engineer
Name (Print) Hilton So	Date 30/05/07.
To be signed by the Designer or other person authorised to sign on behalf of the organisation responsible for the Design.	

I certify that the staff who have prepared the above Design are competent to carry out their duties and that they have used reasonable professional skill and care.

Signed 	Title Director
Name (Print) N.G.A. Yarwood	Date 30 May 2007
To be signed by the Director or other person authorised to sign on behalf of the organisation responsible for the Design to whom the Designer is responsible.	

NR/CIV/SD/FORMB/320

NETWORK RAIL (Civils Standard Designs & Details)
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(Page 2 of 4)

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Part 2: Check

Checking organisation: Tony Gee and Partners

I certify that reasonable professional skill and care have been used in checking the Design of the Scheme (or part of Scheme) identified in Part 1 of this certificate, with the objective of ensuring that the Design:

- (a) complies with the Approval in Principle recorded on Form A signed by K. Teager on 11th May 2006, including associated comments by the Professional Head of Civil Engineering in giving endorsement;
- (b) complies with the Design standards, codes and methods stated on the above Form A (including any stated deviations or dispensations), with the amendments and/or additions (if any) stated in Part 1 of this certificate: The justification given for these amendments and/or additions is acceptable.

I confirm that the Design was checked as Design Check category **II** and that the Design Check has been carried out with the independence specified in NR/SP/CIV/003 (formerly RT/CE/S/003).

Signed <i>R. M. Allnutt</i>	Title Principal Engineer
Name (Print) Martin Allnutt	Date <i>30th May 2007</i>
To be signed by the Checker or other person authorised to sign on behalf of the organisation responsible for the Design Check.	

I certify that the staff who have completed the above check are competent to carry out their duties and that they have used reasonable professional skill and care.

Signed <i>Nigel G. Yarwood</i>	Title Director
Name (Print) N.G.A. Yarwood	Date <i>30 May 2007</i>
To be signed by the Director or other person authorised to sign on behalf of the organisation responsible for the Design Check to whom the Checker is responsible.	

(Note: for categories I and II the signature above may be the same as that in Part 1.)