

The following information is associated with Network Rail Standard:
[NR/L2/CIV/003](#) Issue 4

Additional Content Access

Click the links below to access non PDF related content associated with this standard.

Word Documents

- [NR/L2/CIV/003/F001](#)
- [NR/L2/CIV/003/F002](#)
- [NR/L2/CIV/003/F003](#)
- [NR/L2/CIV/003/F004](#)
- [NR/L2/CIV/003/F005](#)
- [NR/L2/CIV/003/F006](#)
- [NR/L2/CIV/003/F1990](#)
- [NR/L2/CIV/003/F1991](#)
- [NR/L2/CIV/003/F1992](#)
- [NR/L2/CIV/003/F1993](#)
- [NR/L2/CIV/003/F1994](#)
- [NR/L2/CIV/003/F1997](#)

If you have any questions, or need assistance, please contact [IHS Support](#)

Information accessed via the links above is the property of the Copyright holder

IHS Additional Content Page

Information for users

The following document:

NR/L2/CIV/003
Issue 4

has had changes made to it, most recently, with effect from **2 March 2015**.

Instructions for use

It is essential that you first read and understand each letter of instruction pertaining to the standard before proceeding to use the standard. You must then apply the requirements of each letter to the standard.

NR/BS/LI/349	Issue 1	2 March 2015	Proceed to letter ►
NR/L2/CIV/003	Issue 4	02 June 2012	Proceed to standard ►

For further information, please contact:

[IHS Customer Support](#)

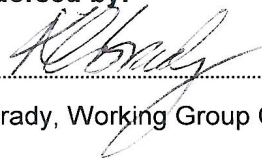
Reference	NR/L2/CIV/003
Issue	4
Publication date	2 nd June 2012
Compliance date	1 st September 2012

Level 2

Engineering Assurance of Building and Civil Engineering Works

Endorsement and Authorisation

Endorsed by:



K Brady, Working Group Chair

Authorised by:



N Ricketts, Professional Head (Buildings and Civils)

Accepted for issue by:



M. McManus, National Standards Manager

This document is the property of Network Rail. It shall not be reproduced in whole or part nor disclosed to a third party without the written permission of the Standard Owner.

© Copyright 2012 Network Rail.

Uncontrolled copy once printed from its electronic source.

Published and issued by Network Rail Kings Place, 90 York Way London N19AG.



Reference	NR/L2/CIV/003
Issue	4
Publication date	2 nd June 2012
Compliance date	1 st September 2012

User information

This standard contains colour-coding according to the following Red–Amber–Green classification.

Red requirements – *No deviations, could stop the railway*

- **Red requirements shall** always be complied with and achieved.
- Red requirements shall be presented in a red box **with the word “shall” or expressed as a direct instruction**.
- Accountability for the efficacy of red requirements lies with the Professional Head/Standard Owner.
- Red requirements are monitored for compliance.
- Corrective actions shall be enforced if deviations are discovered through functional checks (e.g. engineering verification visits, audit or Operations Self-Assurance).

Amber requirements – *Controlled deviations, approved risk analysis and mitigation*

- **Amber requirements shall** be complied with unless deviation has been approved in advance.
- Amber requirements shall be presented with an amber sidebar **and with the word “shall” or expressed as a direct instruction**.
- Accountability for the efficacy of these requirements lies with the Professional Head/Standard Owner, or their nominated Delegated Authority.
- Amber requirements are monitored for compliance.
- Deviations **may** be permitted. Deviations are approved by the Standard Owner or through existing Delegated Authority arrangements.
- Corrective actions shall be enforced if **non-approved** deviations are discovered through functional checks (e.g. engineering verification visits, audit or Operations Self-Assurance).

Green – *Guidance*

- Guidance is based on good practice. Guidance represents supporting information to help achieve **Red** and **Amber** requirements.
- Guidance shall be presented with a dotted green sidebar **and with the word “should” (usually in notes) or as a direct instruction**.
- Guidance is **not mandatory** and is not monitored for compliance.
- Alternative solutions may be used. Alternative solutions do not need to be formally approved.
- Decisions made by a competent person to use alternative solutions should be backed up by appropriate evidence or documentation.

Reference	NR/L2/CIV/003
Issue	4
Publication date	2 nd June 2012
Compliance date	1 st September 2012

Issue record

Issue	Date	Comments
1	October 2001	Supersedes RT/CE/P/003
2	February 2004	Supersedes RT/CE/S/003 Issue 1
3	June 2011	Updated to reflect changes to the organisation and streamlining of Technical Approval procedure.
4	June 2012	Editorial edits to eliminate typographical errors, improve clarity and capture feedback gained from the briefing out process and usage of Issue 3.

Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail and its contractors if applicable from 1st September 2012.

When this standard is implemented, it is permissible for all projects that have formally completed GRIP Stage 3 (Option Selection) to continue to comply with the issue of any relevant Network Rail standards current when GRIP Stage 3 was completed and not to comply with requirements contained herein, unless stipulated otherwise in the scope of this standard.

Reference documentation

Network Rail standards

NR/L2/EBM/STP001	Network Rail standards management - Process requirements
NR/L2/INI/02009	Engineering management for projects
NR/L2/INI/CP0047	Application of the Construction Design and Management Regulations to Network Rail Construction Works
NR/L2/INI/CP0069	Route requirement management and engineering remit production
NR/L1/INI/PM/GRIP/100	Governance for Railway Investment Projects (GRIP) - Policy
NR/L3/CIV/006	Handbook for the examination of structures
NR/L3/CIV/151	Engineering Assurance of Standard Designs and Details for Building and Civil Engineering Works

Reference	NR/L2/CIV/003
Issue	4
Publication date	2 nd June 2012
Compliance date	1 st September 2012

Forms associated with this standard

NR/L2/CIV/003/F001	Approval in Principle
NR/L2/CIV/003/F002	Statement of Design Intent
NR/L2/CIV/003/F003	Certificate of Design and Check
NR/L2/CIV/003/F004	Architectural and layout acceptance
NR/L2/CIV/003/F005	Certificate of fitness to be taken into use
NR/L2/CIV/003/F006	Roads/Highways Authority Agreement to Bridgeworks
NR/L2/CIV/003/F1990	Technical Design Requirements for BS EN 1990
NR/L2/CIV/003/F1991	Technical Design Requirements for BS EN 1991
NR/L2/CIV/003/F1992	Technical Design Requirements for BS EN 1992
NR/L2/CIV/003/F1993	Technical Design Requirements for BS EN 1993
NR/L2/CIV/003/F1994	Technical Design Requirements for BS EN 1994
NR/L2/CIV/003/F1997	Technical Design Requirements for BS EN 1997

Other references

New Roads and Street Works Act 1991

The Construction (Design and Management) Regulations 2007 (SI No. 320)

Technical Approval of Highway Structures (Design Manual for Roads and Bridges:
Department for Transport

Disclaimer

In issuing this document for its stated purpose, Network Rail makes no warranties, express or implied, that compliance with all or any documents it issues is sufficient on its own to ensure safe systems or operation. Users are reminded of their own duties under health and safety legislation.

Supply

Copies of documents are available electronically, within Network Rail's organisation. Hard copies of their document may be available to Network Rail people on request to the relevant controlled publication distributor. Other organisations may obtain copies of this document from IHS. Tel: 01344 328039.

Reference	NR/L2/CIV/003
Issue	4
Publication date	2 nd June 2012
Compliance date	1 st September 2012

Contents

1 Purpose	6
2 Scope	6
3 Roles and responsibilities	7
4 Definitions and abbreviations	7
5 Procedure	10
6 Alterations to the Design	17
7 External stakeholders	17
Appendix A Design Check Categories	18

© Network Rail 2012. All rights reserved.

Reference	NR/L2/CIV/003
Issue	4
Publication date	2 nd June 2012
Compliance date	1 st September 2012

1 Purpose

The purpose of this standard is to define the engineering assurance requirements for the Design and Construction of Works undertaken on Building and Civil Engineering infrastructure.

2 Scope

This standard applies to the following types of Works undertaken on B&C infrastructure (including Building Services) owned, or to be owned, by Network Rail.

- 1 Enhancements.
- 2 Replacements.
- 3 Repair Works - except where the Design of these is incorporated into the PRS (or similar specification provided by the Asset Manager) and there is no plan to appoint a Designer for implementation.
- 4 Emergency Works.
- 5 Temporary Works to facilitate the construction of permanent Works or staged construction, or to provide access for examination and inspection - and where the Temporary Works could have the same impact on the infrastructure as permanent Works.

This standard applies to Works undertaken by Network Rail on B&C infrastructure (including Building Services) owned by an Outside Party. The standard also applies to the Works undertaken on Outside Party infrastructure that is on, over or under Network Rail's infrastructure and where the Outside Party does not have an equivalent procedure to that defined in **5** (of this standard) for those Works. The procedure defined in the *Technical Approval of Highway Structures* is considered to be equivalent.

Network Rail has no power to enforce the requirements of this standard on Works undertaken on Outside Party infrastructure which lies entirely outside Network Rail's infrastructure - whether or not such Works could affect railway operations. For such Works, reasonable endeavours can be followed to apply the requirements of this standard or to obtain confirmation from the Outside Party that there is an equivalent procedure to that defined in **5** in place. Where an Outside Party follows the requirements of this standard, it is acceptable to use documents that are equivalent to the Sponsor's Instruction, PRS and CR-T, and modified versions of the Forms associated with this standard.

This standard does not apply to:

- 1 Consents or approvals from bodies outside Network Rail including;
 - regulatory and statutory authorities
 - planning, listed building and conservation authorities

Reference	NR/L2/CIV/003
Issue	4
Publication date	2 nd June 2012
Compliance date	1 st September 2012

- environmental agencies
 - land and property owners or leaseholders
 - statutory undertakers and other public services and utilities owners.
- 2 Obtaining approvals for the New Roads and Street Works Act.
 - 3 Obtaining approval from other Network Rail engineering disciplines for the equipment carried by ESS (such as for signal sighting and reduced clearances), or for the performance of that equipment.
 - 4 Non-structural aspects of Building Works (other than Building Services) - such as the general layout, means of escape, architectural fixtures and finishes - unless the PRS requires such aspects to be covered through the submission of [NR/L2/CIV/003/F004](#).
 - 5 Assessments of structures.

3 Roles and responsibilities

Asset Manager

The Asset Manager is accountable for the management of Building and Civil Engineering infrastructure, and is responsible for producing the PRS (or similar specification) and providing Approval in Principle of the Single Option.

Project Engineer (Building and Civil Engineering)

The PE (B&C) is appointed in accordance with [NR/L2/INI/02009](#): *Engineering management for projects*, and is responsible for (a) the Building and Civil Engineering aspects of the Project, and (b) for following the requirements of this standard, including Acceptance of the Engineering Deliverables.

Contractor's Responsible Engineer

The role of the CRE extends to both the design and construction phases of a Project. The CRE is accountable for the day-to-day management and co-ordination of the technical and engineering activities within a specific engineering discipline for a specific Contract. The CRE is appointed in accordance with [NR/L2/INI/02009](#) and is (a) authorised to sign the Forms associated with this standard on behalf of the design and/or contracting organisation, and (b) responsible for confirming that the Engineering Deliverables satisfy the requirements of the Contract and also meet the requirements of this standard.

4 Definitions and abbreviations

Acceptance (of Engineering Deliverables)

Acceptance that the PE (B&C) is satisfied that:

- 1 The Deliverables have been checked and approved by the design organisation in accordance with this standard and with [NR/L2/INI/02009](#).
- 2 Appropriate standards and/or design criteria have been used.