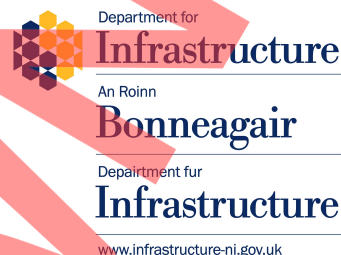


# Design Manual for Roads and Bridges



General Principles & Scheme Governance

General Information

## GG 000

# Design Manual for Roads and Bridges index

(formerly GG 000 30-Apr-2024)

31-May-2024

## Summary

This document contains the current index of Design Manual for Roads and Bridges (DMRB) documents as of the date of publication, superseding the previous version of GG 000. A full summary of changes incorporated is included within the introduction.

## Feedback and Enquiries

Users of this document are encouraged to raise any enquiries and/or provide feedback on the content and usage of this document to the dedicated National Highways team. The online feedback form for all enquiries and feedback can be accessed at: [www.standardsforhighways.co.uk/feedback](https://www.standardsforhighways.co.uk/feedback).

**This is a controlled document.**

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1 RELEASE NOTES

| Version | Date        | Details of amendments                         |
|---------|-------------|-----------------------------------------------|
|         | 31-May-2024 | Amends and supersedes index dated 30-Apr-2024 |

WITHDRAWN

## **2 FOREWORD**

### **2.1 Publishing information**

This document is published by National Highways.

This document superseded GG 000, which is withdrawn.

### **2.2 Contractual and legal considerations**

This document forms part of the works specification. It does not purport to include all the necessary provisions of a contract. Users are responsible for applying all appropriate documents applicable to their contract.

WITHDRAWN

**3 INTRODUCTION**

Changes introduced in this revision of the index of DMRB documents.

**3.1 Published**

- 1. CG 300 Assessment TAS Version 0.9.0 - Generic Assessment Technical Approval Schedule (TAS)**  
Public Notes: Schedule of documents relating to the assessment of highway bridges and structures.  
Supersedes: 1. CG 300 Assessment TAS Version 0.8.0 - Generic Assessment Technical Approval Schedule (TAS)
- 2. CG 300 Design TAS Version 1.27.0 - Generic Design Technical Approval Schedule (TAS)**  
Public Notes: Schedule of documents relating to the design of highway bridges and structures.  
Supersedes: 1. CG 300 Design TAS Version 1.26.0 - Generic Design Technical Approval Schedule (TAS)
- 3. GG 000 31-May-2024 - Design Manual for Roads and Bridges index 0.1.1**  
Public Notes: Amends and supersedes index dated 30-Apr-2024  
Supersedes: 1. GG 000 30-Apr-2024 - Design Manual for Roads and Bridges index 0.1.1

**3.2 Withdrawn**

- 1. CG 300 Assessment TAS Version 0.8.0 - Generic Assessment Technical Approval Schedule (TAS)**  
Public Notes: No public notes given  
Superseded By: 1. CG 300 Assessment TAS Version 0.9.0 - Generic Assessment Technical Approval Schedule (TAS)
- 2. CG 300 Design TAS Version 1.26.0 - Generic Design Technical Approval Schedule (TAS)**  
Public Notes: No public notes given  
Superseded By: 1. CG 300 Design TAS Version 1.27.0 - Generic Design Technical Approval Schedule (TAS)
- 3. GG 000 30-Apr-2024 - Design Manual for Roads and Bridges index 0.1.1**  
Public Notes: No public notes given  
Superseded By: 1. GG 000 31-May-2024 - Design Manual for Roads and Bridges index 0.1.1

## 4 SCOPE

This document lists, by discipline and asset lifecycle, an index of the documents in the DMRB, their legacy decimal references and date of issue. All information is correct as of May 2024.

Legacy decimal references are expressed with reference to the volume, section and part of the DMRB, which was the format used to structure the DMRB prior to March 2020. This information is included in the short-term to aid the transition to the new DMRB structure and will be phased out in future revisions.

WITHDRAWN

## 5 INDEX OF DMRB DOCUMENTS

### 5.1 General Principles & Scheme Governance (G\* 101-999)

#### 5.1.1 GG - General Information

| Document Reference   | Title                                                                                                                               | Date of Issue | Legacy Decimal Reference |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------|
| GAMP                 | General Asbestos Management Plan                                                                                                    | May-11        | 0.2.4                    |
| GG 000 31-May-2024   | Design Manual for Roads and Bridges index                                                                                           | May-24        | 0.1.1                    |
| GG 101 Version 0.1.0 | Introduction to the Design Manual for Roads and Bridges                                                                             | Sep-21        |                          |
| GG 102               | Quality management systems for highway works                                                                                        | May-19        | 0.2.1                    |
| GG 103               | Introduction and general requirements for sustainable development and design                                                        | Jul-19        | 0.2.2                    |
| GG 104               | Requirements for safety risk assessment                                                                                             | Jun-18        | 0.2.3                    |
| GG 105               | Asbestos management                                                                                                                 | Jan-20        | 0.2.4                    |
| GG 115               | Requirements for works on the hard shoulder and road side verges on high speed dual carriageways                                    | Mar-20        | 0.2.3                    |
| GG 116               | Requirements and guidance on temporary traffic management short term lane closures for relaxation works, types 0, 1 and 2           | Mar-20        | 0.2.3                    |
| GG 117 Version 1.0.1 | The design and implementation of temporary traffic management and road works                                                        | Feb-24        |                          |
| GG 119 Revision 2    | Road safety audit                                                                                                                   | Jan-20        | 5.2.2                    |
| GG 128 Version 1.0.0 | Requirements for reporting incidents, events and undesirable circumstances: health, safety, wellbeing, structural and environmental | Nov-22        |                          |
| GG 142               | Walking, cycling and horse-riding assessment and review                                                                             | Nov-19        | 5.2.5                    |
| GG 182 Revision 1    | Major schemes: Enabling handover into operation and maintenance                                                                     | Mar-20        | 0.2.3                    |
| GG 184               | Specification for the use of Computer Aided Design                                                                                  | Feb-20        | 0.2.3                    |
| GG 901 Version 1.0.0 | Customer service standard for the quality and timeliness of responses to customer contact                                           | Jun-21        |                          |
| GG 902 Version 1.0.0 | Customer service standard for accurate advance notification of planned closures                                                     | May-22        |                          |
| GG 903               | Customer service standard for diversion routes for unplanned events                                                                 | Aug-20        |                          |
| GG 906 Version 1.0.0 | Customer service standard for scheme billboards                                                                                     | Apr-21        |                          |
| GG 907 Version 1.0.1 | Customer service standard for diversion routes for planned works and activities                                                     | Aug-21        |                          |
| GG 951 Version 1.0.0 | General requirements for geomatical surveys                                                                                         | Aug-21        |                          |
| GG 953 Version 1.0.0 | Local grid layout for England digital map                                                                                           | Aug-21        |                          |
| GG 954 Version 1.0.1 | Drones operations                                                                                                                   | Sep-23        |                          |

**5.1.2 GA - Appraisal**

There are no Appraisal documents associated with this discipline.

**5.1.3 GD - Design**

| Document Reference   | Title                                                                                                 | Date of Issue | Legacy Decimal Reference |
|----------------------|-------------------------------------------------------------------------------------------------------|---------------|--------------------------|
| GD 300 Revision 2    | Requirements for new and upgraded all-purpose trunk roads (expressways)                               | Apr-20        | 0.2.5                    |
| GD 301 Version 0.0.1 | Smart motorways                                                                                       | Dec-21        |                          |
| GD 304 Revision 2    | Designing health and safety into maintenance                                                          | Mar-20        | 0.2.5                    |
| GD 368               | Infrastructure requirements for emergency access and egress from motorway and all-purpose trunk roads | Mar-20        | 0.2.5                    |
| GD 904               | The use of highest safe speed limits including advice on using 60mph at/through road works            | Nov-20        |                          |

**5.1.4 GC - Construction**

There are no Construction documents associated with this discipline.

**5.1.5 GM - Maintenance & Operation**

| Document Reference   | Title                                            | Date of Issue | Legacy Decimal Reference |
|----------------------|--------------------------------------------------|---------------|--------------------------|
| GM 701 Revision 1    | Asset delivery asset maintenance requirements    | Mar-20        | 0.2.6                    |
| GM 702 Version 0.1.1 | Operational requirements for network occupancy   | Nov-23        |                          |
| GM 703               | Operational requirements for incident management | Apr-20        |                          |
| GM 704               | Operational requirements for severe weather      | Apr-20        |                          |

**5.1.6 GS - Inspection & Assessment**

| Document Reference   | Title                                        | Date of Issue | Legacy Decimal Reference |
|----------------------|----------------------------------------------|---------------|--------------------------|
| GS 801 Revision 1    | Asset delivery asset inspection requirements | Mar-20        | 0.2.7                    |
| GS 952 Version 1.0.0 | Requirements for topographical surveys       | Aug-21        |                          |

**5.1.7 GZ - Disposal**

There are no Disposal documents associated with this discipline.

## 5.2 Sustainability & Environment (L\* 101-999)

### 5.2.1 LG - General Information

There are no General Information documents associated with this discipline.

### 5.2.2 LA - Appraisal

| Document Reference      | Title                                                  | Date of Issue | Legacy Decimal Reference |
|-------------------------|--------------------------------------------------------|---------------|--------------------------|
| LA 101                  | Introduction to environmental assessment               | Jul-19        | 11.1.1                   |
| LA 102                  | Screening projects for Environmental Impact Assessment | Jul-19        | 11.2.2                   |
| LA 103<br>Revision 1    | Scoping projects for environmental assessment          | Jan-20        | 11.2.3                   |
| LA 104<br>Revision 1    | Environmental assessment and monitoring                | Aug-20        | 11.2.4                   |
| LA 105                  | Air quality                                            | Nov-19        | 11.3.1                   |
| LA 106<br>Revision 1    | Cultural heritage assessment                           | Jan-20        | 11.3.2                   |
| LA 107<br>Revision 2    | Landscape and visual effects                           | Feb-20        | 11.3.5                   |
| LA 108<br>Revision 1    | Biodiversity                                           | Mar-20        | 11.3.4                   |
| LA 109                  | Geology and soils                                      | Oct-19        | 11.3.11                  |
| LA 110                  | Material assets and waste                              | Aug-19        | 11.3.13                  |
| LA 111<br>Revision 2    | Noise and vibration                                    | May-20        | 11.3.7                   |
| LA 112<br>Revision 1    | Population and human health                            | Jan-20        | 11.3.6                   |
| LA 113<br>Revision 1    | Road drainage and the water environment                | Mar-20        | 11.3.10                  |
| LA 114<br>Version 0.0.1 | Climate                                                | Jun-21        |                          |
| LA 115<br>Revision 1    | Habitats Regulations assessment                        | Jan-20        | 11.4.1                   |
| LA 116                  | Cultural heritage asset management plans               | Sep-19        | 10.6.2                   |
| LA 120<br>Revision 1    | Environmental management plans                         | Mar-20        | 11.2.8                   |

### 5.2.3 LD - Design

| Document Reference | Title                                             | Date of Issue | Legacy Decimal Reference |
|--------------------|---------------------------------------------------|---------------|--------------------------|
| LD 117             | Landscape design                                  | Mar-20        | 10.0.3                   |
| LD 118             | Biodiversity design                               | Mar-20        | 10.4.1                   |
| LD 119             | Roadside environmental mitigation and enhancement | Mar-20        | 10.5.1                   |

### 5.2.4 LC - Construction

There are no Construction documents associated with this discipline.

**5.2.5 LM - Maintenance & Operation**

There are no Maintenance & Operation documents associated with this discipline.

**5.2.6 LS - Inspection & Assessment**

There are no Inspection & Assessment documents associated with this discipline.

**5.2.7 LZ - Disposal**

There are no Disposal documents associated with this discipline.

WITHDRAWN

**5.3 Road Layout (C\* 101-199)****5.3.1 CG - General Information**

| Document Reference | Title                                                        | Date of Issue | Legacy Decimal Reference |
|--------------------|--------------------------------------------------------------|---------------|--------------------------|
| CG 152             | Traffic signs to tourist destinations and leisure facilities | Oct-19        | 8.2.4                    |
| CG 153             | Traffic signs to retail destinations and exhibition centres  | Oct-19        | 8.2.6                    |

**5.3.2 CA - Appraisal**

| Document Reference | Title                     | Date of Issue | Legacy Decimal Reference |
|--------------------|---------------------------|---------------|--------------------------|
| CA 185             | Vehicle speed measurement | Nov-19        | 5.1.4                    |

**5.3.3 CD - Design**

| Document Reference   | Title                                                                                                 | Date of Issue | Legacy Decimal Reference |
|----------------------|-------------------------------------------------------------------------------------------------------|---------------|--------------------------|
| CD 109 Revision 1    | Highway link design                                                                                   | Mar-20        | 6.1.1                    |
| CD 116 Version 2.1.0 | Geometric design of roundabouts                                                                       | May-23        |                          |
| CD 122 Version 1.1.1 | Geometric design of grade separated junctions                                                         | Jan-22        |                          |
| CD 123 Version 2.1.0 | Geometric design of at-grade priority and signal-controlled junctions                                 | Nov-21        |                          |
| CD 127 Version 1.0.1 | Cross-sections and headrooms                                                                          | Jul-21        |                          |
| CD 143 Version 2.0.1 | Designing for walking, cycling and horse-riding                                                       | Mar-21        |                          |
| CD 146 Version 2.0.0 | Positioning of signalling and advance direction signs                                                 | Sep-23        |                          |
| CD 169 Version 1.1.0 | The design of lay-bys, maintenance hardstandings, rest areas, service areas and observation platforms | Nov-22        |                          |
| CD 192 Revision 1    | The design of crossovers and changeovers                                                              | Jan-20        | 8.4.6                    |
| CD 193 Revision 2    | Driver location signs                                                                                 | Feb-20        | 8.2.2                    |
| CD 195 Version 1.0.1 | Designing for cycle traffic                                                                           | Mar-21        |                          |

**5.3.4 CC - Construction**

There are no Construction documents associated with this discipline.

**5.3.5 CM - Maintenance & Operation**

| Document Reference   | Title                        | Date of Issue | Legacy Decimal Reference |
|----------------------|------------------------------|---------------|--------------------------|
| CM 125<br>Revision 1 | Maintenance of traffic signs | Mar-20        | 8.2.2                    |

**5.3.6 CS - Inspection & Assessment**

| Document Reference      | Title                                                     | Date of Issue | Legacy Decimal Reference |
|-------------------------|-----------------------------------------------------------|---------------|--------------------------|
| CS 125<br>Revision 2    | Inspection of traffic signs                               | Mar-20        | 8.2.2                    |
| CS 126<br>Version 0.1.0 | Inspection and assessment of road markings and road studs | May-22        |                          |

**5.3.7 CZ - Disposal**

| Document Reference   | Title                     | Date of Issue | Legacy Decimal Reference |
|----------------------|---------------------------|---------------|--------------------------|
| CZ 125<br>Revision 1 | Disposal of traffic signs | Mar-20        | 8.2.2                    |

**5.4 Pavement (C\* 201-299)****5.4.1 CG - General Information**

There are no General Information documents associated with this discipline.

**5.4.2 CA - Appraisal**

There are no Appraisal documents associated with this discipline.

**5.4.3 CD - Design**

| Document Reference      | Title                                     | Date of Issue | Legacy Decimal Reference |
|-------------------------|-------------------------------------------|---------------|--------------------------|
| CD 224                  | Traffic assessment                        | Mar-20        | 7.2.1                    |
| CD 225<br>Revision 1    | Design for new pavement foundations       | Apr-20        | 7.2.2                    |
| CD 226<br>Version 0.1.0 | Design for new pavement construction      | Nov-21        |                          |
| CD 227                  | Design for pavement maintenance           | Mar-20        | 7.3.3                    |
| CD 236<br>Version 4.1.0 | Surface course materials for construction | Dec-22        |                          |
| CD 239<br>Revision 1    | Footway and cycleway pavement design      | Mar-20        | 7.2.5                    |

**5.4.4 CC - Construction**

There are no Construction documents associated with this discipline.

**5.4.5 CM - Maintenance & Operation**

| Document Reference | Title                    | Date of Issue | Legacy Decimal Reference |
|--------------------|--------------------------|---------------|--------------------------|
| CM 231             | Pavement surface repairs | Mar-20        | 7.4.1                    |

**5.4.6 CS - Inspection & Assessment**

| Document Reference                | Title                                     | Date of Issue | Legacy Decimal Reference |
|-----------------------------------|-------------------------------------------|---------------|--------------------------|
| CS 228<br>Revision 2              | Skidding resistance                       | Jan-21        |                          |
| CS 228 HE<br>Crash Model<br>v1.02 | Highways England Crash Model              | Feb-21        |                          |
| CS 229                            | Data for pavement assessment              | Mar-20        | 7.3.2                    |
| CS 230<br>Version 0.1.0           | Pavement maintenance assessment procedure | Dec-22        |                          |

**5.4.7 CZ - Disposal**

There are no Disposal documents associated with this discipline.

## 5.5 Highway Structures & Bridges (C\* 301-499)

### 5.5.1 CG - General Information

| Document Reference                           | Title                                                                | Date of Issue | Legacy Decimal Reference |
|----------------------------------------------|----------------------------------------------------------------------|---------------|--------------------------|
| CG 300<br>Version 0.1.0                      | Technical approval of highway structures                             | Apr-21        |                          |
| CG 300<br>Assessment<br>TAS Version<br>0.9.0 | Generic Assessment Technical Approval Schedule (TAS)                 | May-24        |                          |
| CG 300<br>Design TAS<br>Version<br>1.27.0    | Generic Design Technical Approval Schedule (TAS)                     | May-24        |                          |
| CG 302                                       | As-built, operational and maintenance records for highway structures | Mar-20        | 3.2.1                    |
| CG 303                                       | Quality assurance scheme for paints and similar protective coatings  | Feb-19        | 2.4.1                    |
| CG 304                                       | Conservation of highway structures                                   | Mar-20        | 3.2.4                    |
| CG 305                                       | Identification marking of highway structures                         | Mar-20        | 3.1.1                    |

### 5.5.2 CA - Appraisal

There are no Appraisal documents associated with this discipline.

### 5.5.3 CD - Design

| Document Reference      | Title                                                                            | Date of Issue | Legacy Decimal Reference |
|-------------------------|----------------------------------------------------------------------------------|---------------|--------------------------|
| CD 350                  | The design of highway structures                                                 | Mar-20        | 1.3.19                   |
| CD 351                  | The design and appearance of highway structures                                  | Mar-20        | 1.3.11                   |
| CD 352                  | Design of road tunnels                                                           | Mar-20        | 2.2.9                    |
| CD 353                  | Design criteria for footbridges                                                  | Mar-20        | 2.2.8                    |
| CD 354<br>Version 1.1.0 | Design of minor structures                                                       | Feb-22        |                          |
| CD 355                  | Application of whole-life costs for design and maintenance of highway structures | Jul-19        | 1.2.1                    |
| CD 356<br>Revision 1    | Design of highway structures for hydraulic action                                | Mar-20        | 1.3.6                    |
| CD 357<br>Revision 1    | Bridge expansion joints                                                          | Mar-20        | 2.3.6                    |
| CD 358<br>Version 2.4.0 | Waterproofing and surfacing of concrete bridge decks                             | Mar-22        |                          |
| CD 359                  | Design requirements for permanent soffit formwork                                | Mar-20        | 2.3.7                    |
| CD 360<br>Revision 2    | Use of compressive membrane action in bridge decks                               | Mar-20        | 3.4.20                   |
| CD 361                  | Weathering steel for highway structures                                          | Sep-19        | 2.3.8                    |
| CD 362<br>Revision 1    | Enclosure of bridges                                                             | Mar-20        | 2.2.7                    |

|                      |                                                                                                                  |        |        |
|----------------------|------------------------------------------------------------------------------------------------------------------|--------|--------|
| CD 363               | Design rules for aerodynamic effects on bridges                                                                  | Jan-20 | 1.3.3  |
| CD 364               | Formation of continuity joints in bridge decks                                                                   | Mar-20 | 2.3.7  |
| CD 365<br>Revision 1 | Portal and cantilever signs/signals gantries                                                                     | Mar-20 | 2.2.4  |
| CD 366               | Design criteria for collision protection beams                                                                   | Mar-20 | 2.2.5  |
| CD 367               | Treatment of existing structures on highways widening schemes                                                    | Mar-20 | 1.2.3  |
| CD 368               | Design of fibre reinforced polymer bridges and highway structures                                                | Feb-20 | 1.3.17 |
| CD 369               | Surface protection for concrete highway structures                                                               | Mar-20 | 2.4.3  |
| CD 370<br>Revision 2 | Cathodic protection for use in reinforced concrete highway structures                                            | Apr-20 | 3.3.3  |
| CD 371               | Strengthening highway structures using fibre-reinforced polymers and externally bonded steel plates              | Mar-20 | 1.3.16 |
| CD 372               | Design of post-installed anchors and reinforcing bar connections in concrete                                     | Mar-20 | 2.3.10 |
| CD 373               | Impregnation of reinforced and prestressed concrete highway structures using hydrophobic pore-lining impregnants | Mar-20 | 2.4.2  |
| CD 374               | The use of recycled aggregates in structural concrete                                                            | Mar-20 | 2.3.9  |
| CD 375<br>Revision 1 | Design of corrugated steel buried structures                                                                     | Mar-20 | 2.2.6  |
| CD 376               | Unreinforced masonry arch bridges                                                                                | Mar-20 | 2.2.14 |
| CD 377<br>Revision 4 | Requirements for road restraint systems                                                                          | Jan-21 |        |
| CD 378               | Impact test and assessment criteria for truck mounted attenuators                                                | Feb-20 | 8.4.7  |

#### 5.5.4 CC - Construction

There are no Construction documents associated with this discipline.

#### 5.5.5 CM - Maintenance & Operation

| Document Reference   | Title                                         | Date of Issue | Legacy Decimal Reference |
|----------------------|-----------------------------------------------|---------------|--------------------------|
| CM 430               | Maintenance of road tunnels                   | Mar-20        | 3.2.3                    |
| CM 431               | Maintenance painting of steelwork             | Dec-19        | 3.2.2                    |
| CM 432<br>Revision 1 | Maintenance of buried concrete box structures | Mar-20        | 3.3.5                    |

#### 5.5.6 CS - Inspection & Assessment

| Document Reference      | Title                                                  | Date of Issue | Legacy Decimal Reference |
|-------------------------|--------------------------------------------------------|---------------|--------------------------|
| CS 432<br>Revision 1    | Inspection of buried concrete box structures           | Mar-20        | 3.3.5                    |
| CS 450<br>Version 0.1.0 | Inspection of highway structures                       | Apr-21        |                          |
| CS 451                  | Structural review and assessment of highway structures | Mar-20        | 3.4.22                   |

|                         |                                                                                                                                       |        |        |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| CS 452                  | Inspection and records for road tunnel systems                                                                                        | Mar-20 | 3.1.6  |
| CS 453                  | The assessment of highway bridge supports                                                                                             | Mar-20 | 3.4.7  |
| CS 454<br>Version 1.1.0 | Assessment of highway bridges and structures                                                                                          | Oct-22 |        |
| CS 455<br>Version 1.1.1 | The assessment of concrete highway bridges and structures                                                                             | Oct-22 |        |
| CS 456                  | The assessment of steel highway bridges and structures                                                                                | Mar-20 | 3.4.11 |
| CS 457<br>Revision 1    | The assessment of composite highway bridges and structures                                                                            | Mar-20 | 3.4.16 |
| CS 458                  | The assessment of highway bridges and structures for the effects of special type general order (STGO) and special order (SO) vehicles | Mar-20 | 3.4.19 |
| CS 459<br>Revision 1    | The assessment of bridge substructures, retaining structures and buried structures                                                    | Mar-20 | 3.4.9  |
| CS 460<br>Version 1.0.1 | Management of corrugated steel buried structures                                                                                      | Apr-23 |        |
| CS 461<br>Version 0.1.0 | Assessment and upgrading of in-service parapets                                                                                       | Jan-23 |        |
| CS 462                  | Repair and management of deteriorated concrete highway structures                                                                     | Mar-20 | 3.3.2  |
| CS 463                  | Load testing for bridge assessment                                                                                                    | Jun-19 | 3.4.8  |
| CS 464<br>Revision 1    | Non-destructive testing of highways structures                                                                                        | Mar-20 | 3.1.7  |
| CS 465                  | Management of post-tensioned concrete bridges                                                                                         | Mar-20 | 3.2.5  |
| CS 466                  | Risk management and structural assessment of concrete half-joint deck structures                                                      | Mar-20 | 3.4.6  |
| CS 467<br>Revision 1    | Risk management and structural assessment of concrete deck hinge structures                                                           | Apr-20 | 3.1.5  |
| CS 468<br>Revision 1    | Assessment of Freyssinet concrete hinges in highway structures                                                                        | Mar-20 | 1.3.20 |
| CS 469<br>Version 1.0.0 | Management of scour and other hydraulic actions at highway structures.                                                                | Apr-24 |        |
| CS 470                  | Management of sub-standard highway structures                                                                                         | Mar-20 | 3.4.18 |

### 5.5.7 CZ - Disposal

There are no Disposal documents associated with this discipline.

**5.6 Drainage (C\* 501-599)****5.6.1 CG - General Information**

| Document Reference      | Title                                | Date of Issue | Legacy Decimal Reference |
|-------------------------|--------------------------------------|---------------|--------------------------|
| CG 501<br>Version 2.1.0 | Design of highway drainage systems   | Aug-22        |                          |
| CG 502                  | The certification of drainage design | Oct-19        | 4.2.1                    |

**5.6.2 CA - Appraisal**

There are no Appraisal documents associated with this discipline.

**5.6.3 CD - Design**

| Document Reference      | Title                                                                                        | Date of Issue | Legacy Decimal Reference |
|-------------------------|----------------------------------------------------------------------------------------------|---------------|--------------------------|
| CD 521<br>Version 1.1.0 | Hydraulic design of road edge surface water channels and outlets                             | Nov-21        |                          |
| CD 522                  | Drainage of runoff from natural catchments                                                   | Mar-20        | 4.2.1                    |
| CD 523<br>Version 1.1.0 | Determination of pipe roughness and assessment of sediment deposition to aid pipeline design | Nov-21        |                          |
| CD 524<br>Version 0.1.0 | Edge of pavement details                                                                     | Nov-21        |                          |
| CD 525<br>Revision 1    | Design of combined surface and sub-surface drains and management of stone scatter            | Mar-20        | 4.2.4                    |
| CD 526<br>Revision 3    | Spacing of road gullies                                                                      | Jan-20        | 4.2.3                    |
| CD 527<br>Revision 1    | Sumpless gullies                                                                             | Mar-20        | 4.2.3                    |
| CD 528                  | Vortex separators for use with road drainage systems                                         | Feb-20        | 4.2.4                    |
| CD 529<br>Version 1.0.1 | Design of outfall and culvert details                                                        | Dec-21        |                          |
| CD 530<br>Version 1.1.0 | Design of soakaways                                                                          | Nov-21        |                          |
| CD 531<br>Version 0.1.0 | Reservoir pavements for drainage attenuation                                                 | Nov-21        |                          |
| CD 532<br>Version 0.1.0 | Vegetated drainage systems for highway runoff                                                | Nov-21        |                          |
| CD 533<br>Version 1.1.0 | Determination of pipe and bedding combinations for drainage works                            | Dec-21        |                          |
| CD 534<br>Version 0.1.0 | Chamber tops and gully tops for road drainage and services                                   | May-22        |                          |
| CD 535<br>Version 1.1.0 | Drainage asset data and risk management                                                      | Oct-21        |                          |

**5.6.4 CC - Construction**

There are no Construction documents associated with this discipline.

**5.6.5 CM - Maintenance & Operation**

There are no Maintenance & Operation documents associated with this discipline.

5.6.6 CS - Inspection & Assessment

| Document Reference      | Title            | Date of Issue | Legacy Decimal Reference |
|-------------------------|------------------|---------------|--------------------------|
| CS 551<br>Version 1.0.0 | Drainage surveys | Oct-21        |                          |

5.6.7 CZ - Disposal

There are no Disposal documents associated with this discipline.

**5.7 Geotechnics (C\* 601-699)****5.7.1 CG - General Information**

There are no General Information documents associated with this discipline.

**5.7.2 CA - Appraisal**

There are no Appraisal documents associated with this discipline.

**5.7.3 CD - Design**

| Document Reference   | Title                      | Date of Issue | Legacy Decimal Reference |
|----------------------|----------------------------|---------------|--------------------------|
| CD 622<br>Revision 1 | Managing geotechnical risk | Mar-20        | 4.1.2                    |

**5.7.4 CC - Construction**

There are no Construction documents associated with this discipline.

**5.7.5 CM - Maintenance & Operation**

There are no Maintenance & Operation documents associated with this discipline.

**5.7.6 CS - Inspection & Assessment**

| Document Reference | Title                                                   | Date of Issue | Legacy Decimal Reference |
|--------------------|---------------------------------------------------------|---------------|--------------------------|
| CS 641             | Managing the maintenance of highway geotechnical assets | Mar-20        | 4.1.3                    |

**5.7.7 CZ - Disposal**

There are no Disposal documents associated with this discipline.

**5.8 Control & Communications Technology (T\* 101-499)****5.8.1 TG - General Information**

| Document Reference      | Title                          | Date of Issue | Legacy Decimal Reference |
|-------------------------|--------------------------------|---------------|--------------------------|
| TG 411<br>Version 0.1.0 | Electricity supply connections | Jan-22        |                          |

**5.8.2 TA - Appraisal**

| Document Reference      | Title                              | Date of Issue | Legacy Decimal Reference |
|-------------------------|------------------------------------|---------------|--------------------------|
| TA 101<br>Version 0.0.1 | Traffic signalling systems         | Aug-22        |                          |
| TA 121                  | Ramp metering                      | Jan-20        | 9.3.1                    |
| TA 401<br>Version 1.0.0 | Renewable energy systems appraisal | Oct-23        |                          |

**5.8.3 TD - Design**

| Document Reference      | Title                                  | Date of Issue | Legacy Decimal Reference |
|-------------------------|----------------------------------------|---------------|--------------------------|
| TD 101<br>Version 1.1.0 | Traffic signalling systems (design)    | Aug-22        |                          |
| TD 121                  | Ramp metering                          | Jan-20        | 9.3.1                    |
| TD 131<br>Version 0.1.0 | Roadside technology and communications | Nov-23        |                          |

**5.8.4 TC - Construction**

There are no Construction documents associated with this discipline.

**5.8.5 TM - Maintenance & Operation**

| Document Reference      | Title                                                  | Date of Issue | Legacy Decimal Reference |
|-------------------------|--------------------------------------------------------|---------------|--------------------------|
| TM 101<br>Version 0.1.0 | Traffic signalling systems (maintenance and operation) | Aug-22        |                          |

**5.8.6 TS - Inspection & Assessment**

| Document Reference      | Title                                                  | Date of Issue | Legacy Decimal Reference |
|-------------------------|--------------------------------------------------------|---------------|--------------------------|
| TS 101<br>Version 0.1.0 | Traffic signalling systems (inspection and assessment) | Aug-22        |                          |

**5.8.7 TZ - Disposal**

There are no Disposal documents associated with this discipline.

**5.9 Road Lighting (T\* 501-999)****5.9.1 TG - General Information**

There are no General Information documents associated with this discipline.

**5.9.2 TA - Appraisal**

| Document Reference | Title                   | Date of Issue | Legacy Decimal Reference |
|--------------------|-------------------------|---------------|--------------------------|
| TA 501             | Road lighting appraisal | Mar-20        | 8.3.1                    |

**5.9.3 TD - Design**

| Document Reference | Title                | Date of Issue | Legacy Decimal Reference |
|--------------------|----------------------|---------------|--------------------------|
| TD 501             | Road lighting design | Mar-20        | 8.3.1                    |

**5.9.4 TC - Construction**

There are no Construction documents associated with this discipline.

**5.9.5 TM - Maintenance & Operation**

| Document Reference | Title                     | Date of Issue | Legacy Decimal Reference |
|--------------------|---------------------------|---------------|--------------------------|
| TM 501             | Road lighting maintenance | Mar-20        | 8.3.1                    |

**5.9.6 TS - Inspection & Assessment**

| Document Reference | Title                    | Date of Issue | Legacy Decimal Reference |
|--------------------|--------------------------|---------------|--------------------------|
| TS 501             | Road lighting inspection | Mar-20        | 8.3.1                    |

**5.9.7 TZ - Disposal**

There are no Disposal documents associated with this discipline.

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