

## Design Manual for Roads and Bridges



General Principles & Scheme Governance

General Information

# GG 000

## Design Manual for Roads and Bridges index

30-May-2025

### 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 publication summary.

### 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

### 1.1 Latest publication

| Date        | Details of amendments                         |
|-------------|---|
| 30-May-2025 | Amends and supersedes index dated 30-Apr-2025 |

### 1.2 Previous publications (in the last 2 years)

| Date        | Details of amendments                         |
|-------------|---|
| 30-Apr-2025 | Amends and supersedes index dated 31-Mar-2025 |
| 31-Mar-2025 | Amends and supersedes index dated 28-Feb-2025 |
| 28-Feb-2025 | Amends and supersedes index dated 7-Feb-2025  |
| 7-Feb-2025  | Amends and supersedes index dated 31-Jan-2025 |
| 31-Jan-2025 | Amends and supersedes index dated 17-Jan-2025 |
| 17-Jan-2025 | Amends and supersedes index dated 18-Dec-2024 |
| 18-Dec-2024 | Amends and supersedes index dated 29-Nov-2024 |
| 29-Nov-2024 | Amends and supersedes index dated 31-Oct-2024 |
| 31-Oct-2024 | Amends and supersedes index dated 2-Oct-2024  |
| 2-Oct-2024  | Amends and supersedes index dated 1-Oct-2024  |
| 1-Oct-2024  | Amends and supersedes index dated 30-Sep-2024 |
| 30-Sep-2024 | Amends and supersedes index dated 31-Jul-2024 |
| 31-Jul-2024 | Amends and supersedes index dated 28-Jun-2024 |
| 28-Jun-2024 | Amends and supersedes index dated 31-May-2024 |
| 31-May-2024 | Amends and supersedes index dated 30-Apr-2024 |
| 30-Apr-2024 | Amends and supersedes index dated 29-Feb-2024 |
| 29-Feb-2024 | Amends and supersedes index dated 31-Jan-2024 |
| 31-Jan-2024 | Amends and supersedes index dated 31-Dec-2023 |
| 31-Dec-2023 | Amends and supersedes index dated 30-Nov-2023 |
| 30-Nov-2023 | Amends and supersedes index dated 31-Oct-2023 |
| 31-Oct-2023 | Amends and supersedes index dated 15-Oct-2023 |
| 15-Oct-2023 | Amends and supersedes index dated 30-Sep-2023 |
| 30-Sep-2023 | Amends and supersedes index dated 31-Jul-2023 |
| 31-Jul-2023 | Amends and supersedes index dated 29-Jun-2023 |
| 29-Jun-2023 | Amends and supersedes index dated 31-May-2023 |

## **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.

### **3 SCOPE**

This document lists, by discipline and asset lifecycle, an index of the documents in the DMRB and their date of issue. All information is correct as of May 2025.

## 4 PUBLICATION SUMMARY

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

### 4.1 Published

The following documents have been published since the last DMRB publication:

1. **CG 300 Assessment TAS Version 0.12.0** - Generic Assessment Technical Approval Schedule (TAS)  
Release notes: Schedule of documents relating to the assessment of highway bridges and structures.  
Supersedes: 1. CG 300 Assessment TAS Version 0.11.0 - Generic Assessment Technical Approval Schedule (TAS)
2. **CG 300 Design TAS Version 1.31.0** - Generic Design Technical Approval Schedule (TAS)  
Release notes: Schedule of documents relating to the design of highway bridges and structures.  
Supersedes: 1. CG 300 Design TAS Version 1.30.0 - Generic Design Technical Approval Schedule (TAS)
3. **GG 000 30-May-2025** - Design Manual for Roads and Bridges index  
Release notes: Amends and supersedes index dated 30-Apr-2025  
Supersedes: 1. GG 000 30-Apr-2025 - Design Manual for Roads and Bridges index

### 4.2 Withdrawn

The following documents have been withdrawn since the last DMRB publication:

1. **CG 300 Assessment TAS Version 0.11.0** - Generic Assessment Technical Approval Schedule (TAS)  
Release notes: No release notes provided  
Superseded by: 1. CG 300 Assessment TAS Version 0.12.0 - Generic Assessment Technical Approval Schedule (TAS)
2. **CG 300 Design TAS Version 1.30.0** - Generic Design Technical Approval Schedule (TAS)  
Release notes: No release notes provided  
Superseded by: 1. CG 300 Design TAS Version 1.31.0 - Generic Design Technical Approval Schedule (TAS)
3. **GG 000 30-Apr-2025** - Design Manual for Roads and Bridges index  
Release notes: No release notes provided  
Superseded by: 1. GG 000 30-May-2025 - Design Manual for Roads and Bridges index

## 5 INDEX OF DMRB DOCUMENTS

### 5.1 General Principles & Scheme Governance (G\* 100-199)

#### 5.1.1 GG - General Information

| Document Reference | Version       | Title   | Date of Issue |
|--------------------|---------------|---|---------------|
| GAMP               |               | General Asbestos Management Plan  | May-11        |
| GG 000             | 30-May-2025   | Design Manual for Roads and Bridges index   | 30-May-2025   |
| GG 101             | Version 0.1.0 | Introduction to the Design Manual for Roads and Bridges   | 29-Sep-2021   |
| GG 102             | Revision 0    | Quality management systems for highway works  | May-19        |
| GG 103             | Revision 0    | Introduction and general requirements for sustainable development and design  | Jul-19        |
| GG 104             | Version 0.1.0 | Requirements for safety risk assessment   | 17-Jan-2025   |
| GG 105             | Revision 0    | Asbestos management   | Jan-20        |
| GG 111             | Version 1.0.0 | Diversionary works  | 30-Sep-2024   |
| GG 115             | Revision 0    | Requirements for works on the hard shoulder and road side verges on high speed dual carriageways                                    | Mar-20        |
| GG 116             | Revision 0    | Requirements and guidance on temporary traffic management short term lane closures for relaxation works, types 0, 1 and 2           | Mar-20        |
| GG 117             | Version 1.0.1 | The design and implementation of temporary traffic management and road works  | 29-Feb-2024   |
| GG 119             | Version 2.0.1 | Road safety audit   | 30-Apr-2025   |
| GG 128             | Version 1.0.0 | Requirements for reporting incidents, events and undesirable circumstances: health, safety, wellbeing, structural and environmental | 30-Nov-2022   |
| GG 142             | Revision 0    | Walking, cycling and horse-riding assessment and review   | Nov-19        |
| GG 182             | Revision 1    | Major schemes: Enabling handover into operation and maintenance   | Mar-20        |
| GG 184             | Revision 0    | Specification for the use of Computer Aided Design  | Feb-20        |
| GG 901             | Version 1.0.0 | Customer service standard for the quality and timeliness of responses to customer contact   | 30-Jun-2021   |
| GG 902             | Version 1.0.0 | Customer service standard for accurate advance notification of planned closures   | 30-May-2022   |
| GG 903             | Revision 0    | Customer service standard for diversion routes for unplanned events   | Aug-20        |
| GG 906             | Version 1.0.0 | Customer service standard for scheme billboards   | 29-Apr-2021   |
| GG 907             | Version 1.0.1 | Customer service standard for diversion routes for planned works and activities   | 30-Aug-2021   |
| GG 910             | Version 1.0.0 | Customer Service Standard - Reducing litter   | 31-Jul-2024   |
| GG 951             | Version 1.0.0 | General requirements for geomatical surveys   | 30-Aug-2021   |
| GG 953             | Version 1.0.0 | Local grid layout for England digital map   | 30-Aug-2021   |
| GG 954             | Version 1.0.1 | Drones operations   | 30-Sep-2023   |

#### 5.1.2 GA - Appraisal

There are no Appraisal documents associated with this discipline.

**5.1.3 GD - Design**

| Document Reference | Version       | Title   | Date of Issue |
|--------------------|---------------|---|---------------|
| GD 300             | Version 2.1.0 | Enhanced all-purpose dual carriageways  | 30-Sep-2024   |
| GD 301             | Version 0.0.1 | Smart motorways   | 30-Dec-2021   |
| GD 304             | Revision 2    | Designing health and safety into maintenance  | Mar-20        |
| GD 368             | Version 0.0.1 | Infrastructure requirements for emergency access and egress from motorway and all-purpose trunk roads | 29-Nov-2024   |
| GD 904             | Revision 0    | 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 | Version       | Title  | Date of Issue |
|--------------------|---------------|--|---------------|
| GM 701             | Revision 1    | Asset delivery asset maintenance requirements    | Mar-20        |
| GM 702             | Version 0.1.1 | Operational requirements for network occupancy   | 30-Nov-2023   |
| GM 703             | Revision 0    | Operational requirements for incident management | Apr-20        |
| GM 704             | Revision 0    | Operational requirements for severe weather      | Apr-20        |

**5.1.6 GS - Inspection & Assessment**

| Document Reference | Version       | Title  | Date of Issue |
|--------------------|---------------|--|---------------|
| GS 801             | Revision 1    | Asset delivery asset inspection requirements | Mar-20        |
| GS 952             | Version 1.0.0 | Requirements for topographical surveys       | 30-Aug-2021   |

**5.1.7 GZ - Disposal**

There are no Disposal documents associated with this discipline.

## 5.2 Sustainability & Environment (L\* 100-199)

### 5.2.1 LG - General Information

There are no General Information documents associated with this discipline.

### 5.2.2 LA - Appraisal

| Document Reference | Version       | Title  | Date of Issue |
|--------------------|---------------|--|---------------|
| LA 101             | Revision 0    | Introduction to environmental assessment               | Jul-19        |
| LA 102             | Revision 0    | Screening projects for Environmental Impact Assessment | Jul-19        |
| LA 103             | Revision 1    | Scoping projects for environmental assessment          | Jan-20        |
| LA 104             | Revision 1    | Environmental assessment and monitoring                | Aug-20        |
| LA 105             | Version 0.1.0 | Air quality  | 28-Jun-2024   |
| LA 106             | Revision 1    | Cultural heritage assessment                           | Jan-20        |
| LA 107             | Revision 2    | Landscape and visual effects                           | Feb-20        |
| LA 108             | Revision 1    | Biodiversity   | Mar-20        |
| LA 109             | Revision 0    | Geology and soils                                      | Oct-19        |
| LA 110             | Revision 0    | Material assets and waste                              | Aug-19        |
| LA 111             | Revision 2    | Noise and vibration                                    | May-20        |
| LA 112             | Revision 1    | Population and human health                            | Jan-20        |
| LA 113             | Revision 1    | Road drainage and the water environment                | Mar-20        |
| LA 114             | Version 0.0.1 | Climate  | 30-Jun-2021   |
| LA 115             | Revision 1    | Habitats Regulations assessment                        | Jan-20        |
| LA 116             | Revision 0    | Cultural heritage asset management plans               | Sep-19        |
| LA 120             | Revision 1    | Environmental management plans                         | Mar-20        |

### 5.2.3 LD - Design

| Document Reference | Version       | Title   | Date of Issue |
|--------------------|---------------|---|---------------|
| LD 117             | Version 0.1.0 | Landscape design                                  | 18-Dec-2024   |
| LD 118             | Revision 0    | Biodiversity design                               | Mar-20        |
| LD 119             | Revision 0    | Roadside environmental mitigation and enhancement | Mar-20        |

### 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.

## 5.3 Road Layout (C\* 100-199)

### 5.3.1 CG - General Information

| Document Reference | Version    | Title  | Date of Issue |
|--------------------|------------|--|---------------|
| CG 152             | Revision 0 | Traffic signs to tourist destinations and leisure facilities | Oct-19        |
| CG 153             | Revision 0 | Traffic signs to retail destinations and exhibition centres  | Oct-19        |

### 5.3.2 CA - Appraisal

| Document Reference | Version    | Title                     | Date of Issue |
|--------------------|------------|---------------------------|---------------|
| CA 185             | Revision 0 | Vehicle speed measurement | Nov-19        |

### 5.3.3 CD - Design

| Document Reference | Version       | Title   | Date of Issue |
|--------------------|---------------|---|---------------|
| CD 109             | Revision 1    | Highway link design   | Mar-20        |
| CD 116             | Version 2.1.0 | Geometric design of roundabouts   | 31-May-2023   |
| CD 122             | Version 1.1.1 | Geometric design of grade separated junctions   | 31-Jan-2022   |
| CD 123             | Version 2.1.0 | Geometric design of at-grade priority and signal-controlled junctions                                 | 29-Nov-2021   |
| CD 127             | Version 1.0.1 | Cross-sections and headrooms  | 29-Jul-2021   |
| CD 143             | Version 2.0.1 | Designing for walking, cycling and horse-riding   | 30-Mar-2021   |
| CD 146             | Version 2.0.0 | Positioning of signalling and advance direction signs   | 30-Sep-2023   |
| CD 169             | Version 1.1.0 | The design of lay-bys, maintenance hardstandings, rest areas, service areas and observation platforms | 30-Nov-2022   |
| CD 192             | Revision 1    | The design of crossovers and changeovers  | Jan-20        |
| CD 193             | Revision 2    | Driver location signs   | Feb-20        |
| CD 195             | Version 1.0.1 | Designing for cycle traffic   | 30-Mar-2021   |

### 5.3.4 CC - Construction

There are no Construction documents associated with this discipline.

### 5.3.5 CM - Maintenance & Operation

| Document Reference | Version    | Title                        | Date of Issue |
|--------------------|------------|------------------------------|---------------|
| CM 125             | Revision 1 | Maintenance of traffic signs | Mar-20        |

### 5.3.6 CS - Inspection & Assessment

| Document Reference | Version       | Title   | Date of Issue |
|--------------------|---------------|---|---------------|
| CS 125             | Revision 2    | Inspection of traffic signs                               | Mar-20        |
| CS 126             | Version 0.1.0 | Inspection and assessment of road markings and road studs | 30-May-2022   |

**5.3.7 CZ - Disposal**

| Document Reference | Version    | Title                     | Date of Issue |
|--------------------|------------|---------------------------|---------------|
| CZ 125             | Revision 1 | Disposal of traffic signs | Mar-20        |

## 5.4 Pavement (C\* 200-299)

### 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 | Version       | Title                                     | Date of Issue |
|--------------------|---------------|---|---------------|
| CD 224             | Revision 0    | Traffic assessment                        | Mar-20        |
| CD 225             | Revision 1    | Design for new pavement foundations       | Apr-20        |
| CD 226             | Version 0.1.0 | Design for new pavement construction      | 29-Nov-2021   |
| CD 227             | Revision 0    | Design for pavement maintenance           | Mar-20        |
| CD 236             | Version 4.1.0 | Surface course materials for construction | 30-Dec-2022   |
| CD 239             | Revision 1    | Footway and cycleway pavement design      | Mar-20        |

### 5.4.4 CC - Construction

There are no Construction documents associated with this discipline.

### 5.4.5 CM - Maintenance & Operation

| Document Reference | Version    | Title                    | Date of Issue |
|--------------------|------------|--------------------------|---------------|
| CM 231             | Revision 0 | Pavement surface repairs | Mar-20        |

### 5.4.6 CS - Inspection & Assessment

| Document Reference          | Version       | Title                                     | Date of Issue |
|-----------------------------|---------------|---|---------------|
| CS 228                      | Revision 2    | Skidding resistance                       | Jan-21        |
| CS 228<br>HE Crash<br>Model | v1.02         | Highways England Crash Model              | Feb-21        |
| CS 229                      | Revision 0    | Data for pavement assessment              | Mar-20        |
| CS 230                      | Version 0.1.0 | Pavement maintenance assessment procedure | 30-Dec-2022   |

### 5.4.7 CZ - Disposal

There are no Disposal documents associated with this discipline.

## 5.5 Highway Structures & Bridges (C\* 300-499)

### 5.5.1 CG - General Information

| Document Reference    | Version        | Title  | Date of Issue |
|-----------------------|----------------|--|---------------|
| CG 300                | Version 0.2.1  | Technical approval of highway structures                             | 7-Feb-2025    |
| CG 300 Assessment TAS | Version 0.12.0 | Generic Assessment Technical Approval Schedule (TAS)                 | 30-May-2025   |
| CG 300 Design TAS     | Version 1.31.0 | Generic Design Technical Approval Schedule (TAS)                     | 30-May-2025   |
| CG 302                | Revision 0     | As-built, operational and maintenance records for highway structures | Mar-20        |
| CG 303                | Revision 0     | Quality assurance scheme for paints and similar protective coatings  | Feb-19        |
| CG 304                | Revision 0     | Conservation of highway structures                                   | Mar-20        |
| CG 305                | Revision 0     | Identification marking of highway structures                         | Mar-20        |

### 5.5.2 CA - Appraisal

There are no Appraisal documents associated with this discipline.

### 5.5.3 CD - Design

| Document Reference | Version       | Title  | Date of Issue |
|--------------------|---------------|--|---------------|
| CD 350             | Revision 0    | The design of highway structures   | Mar-20        |
| CD 351             | Revision 0    | The design and appearance of highway structures                                  | Mar-20        |
| CD 352             | Version 0.0.1 | Design of road tunnels   | 29-Nov-2024   |
| CD 353             | Revision 0    | Design criteria for footbridges  | Mar-20        |
| CD 354             | Version 2.0.0 | Design of minor structures   | 31-Jul-2024   |
| CD 355             | Revision 0    | Application of whole-life costs for design and maintenance of highway structures | Jul-19        |
| CD 356             | Revision 1    | Design of highway structures for hydraulic action                                | Mar-20        |
| CD 357             | Revision 1    | Bridge expansion joints  | Mar-20        |
| CD 358             | Version 2.4.0 | Waterproofing and surfacing of concrete bridge decks                             | 31-Mar-2022   |
| CD 359             | Revision 0    | Design requirements for permanent soffit formwork                                | Mar-20        |
| CD 360             | Revision 2    | Use of compressive membrane action in bridge decks                               | Mar-20        |
| CD 361             | Revision 0    | Weathering steel for highway structures  | Sep-19        |
| CD 362             | Revision 1    | Enclosure of bridges   | Mar-20        |
| CD 363             | Revision 0    | Design rules for aerodynamic effects on bridges                                  | Jan-20        |
| CD 364             | Revision 0    | Formation of continuity joints in bridge decks                                   | Mar-20        |
| CD 365             | Revision 1    | Portal and cantilever signs/signals gantries                                     | Mar-20        |
| CD 366             | Revision 0    | Design criteria for collision protection beams                                   | Mar-20        |
| CD 367             | Revision 0    | Treatment of existing structures on highways widening schemes                    | Mar-20        |
| CD 368             | Revision 0    | Design of fibre reinforced polymer bridges and highway structures                | Feb-20        |
| CD 369             | Revision 0    | Surface protection for concrete highway structures                               | Mar-20        |

|        |            |  |        |
|--------|------------|--|--------|
| CD 370 | Revision 2 | Cathodic protection for use in reinforced concrete highway structures  | Apr-20 |
| CD 371 | Revision 0 | Strengthening highway structures using fibre-reinforced polymers and externally bonded steel plates              | Mar-20 |
| CD 372 | Revision 0 | Design of post-installed anchors and reinforcing bar connections in concrete                                     | Mar-20 |
| CD 373 | Revision 0 | Impregnation of reinforced and prestressed concrete highway structures using hydrophobic pore-lining impregnants | Mar-20 |
| CD 374 | Revision 0 | The use of recycled aggregates in structural concrete  | Mar-20 |
| CD 375 | Revision 1 | Design of corrugated steel buried structures   | Mar-20 |
| CD 376 | Revision 0 | Unreinforced masonry arch bridges  | Mar-20 |
| CD 377 | Revision 4 | Requirements for road restraint systems  | Jan-21 |
| CD 378 | Revision 0 | Impact test and assessment criteria for truck mounted attenuators  | Feb-20 |

#### 5.5.4 CC - Construction

There are no Construction documents associated with this discipline.

#### 5.5.5 CM - Maintenance & Operation

| Document Reference | Version       | Title   | Date of Issue |
|--------------------|---------------|---|---------------|
| CM 430             | Revision 0    | Maintenance of road tunnels                   | Mar-20        |
| CM 431             | Revision 0    | Maintenance painting of steelwork             | Dec-19        |
| CM 432             | Version 1.0.1 | Maintenance of buried concrete box structures | 28-Feb-2025   |

#### 5.5.6 CS - Inspection & Assessment

| Document Reference | Version       | Title   | Date of Issue |
|--------------------|---------------|---|---------------|
| CS 432             | Version 1.0.1 | Inspection of buried concrete box structures  | 28-Feb-2025   |
| CS 450             | Version 0.1.0 | Inspection of highway structures  | 29-Apr-2021   |
| CS 451             | Revision 0    | Structural review and assessment of highway structures  | Mar-20        |
| CS 452             | Revision 0    | Inspection and records for road tunnel systems  | Mar-20        |
| CS 453             | Revision 0    | The assessment of highway bridge supports   | Mar-20        |
| CS 454             | Version 1.1.0 | Assessment of highway bridges and structures  | 31-Oct-2022   |
| CS 455             | Version 1.1.1 | The assessment of concrete highway bridges and structures   | 31-Oct-2022   |
| CS 456             | Revision 0    | The assessment of steel highway bridges and structures  | Mar-20        |
| CS 457             | Revision 1    | The assessment of composite highway bridges and structures  | Mar-20        |
| CS 458             | Revision 0    | The assessment of highway bridges and structures for the effects of special type general order (STGO) and special order (SO) vehicles | Mar-20        |
| CS 459             | Revision 1    | The assessment of bridge substructures, retaining structures and buried structures  | Mar-20        |
| CS 460             | Version 1.0.1 | Management of corrugated steel buried structures  | 30-Apr-2023   |

|        |               |  |             |
|--------|---------------|--|-------------|
| CS 461 | Version 0.1.0 | Assessment and upgrading of in-service parapets                                  | 31-Jan-2023 |
| CS 462 | Revision 0    | Repair and management of deteriorated concrete highway structures                | Mar-20      |
| CS 463 | Revision 0    | Load testing for bridge assessment   | Jun-19      |
| CS 464 | Revision 1    | Non-destructive testing of highways structures                                   | Mar-20      |
| CS 465 | Revision 0    | Management of post-tensioned concrete bridges                                    | Mar-20      |
| CS 466 | Revision 0    | Risk management and structural assessment of concrete half-joint deck structures | Mar-20      |
| CS 467 | Revision 1    | Risk management and structural assessment of concrete deck hinge structures      | Apr-20      |
| CS 468 | Revision 1    | Assessment of Freyssinet concrete hinges in highway structures                   | Mar-20      |
| CS 469 | Version 1.0.0 | Management of scour and other hydraulic actions at highway structures.           | 30-Apr-2024 |
| CS 470 | Revision 0    | Management of sub-standard highway structures                                    | Mar-20      |

#### 5.5.7 CZ - Disposal

There are no Disposal documents associated with this discipline.

**5.6 Drainage (C\* 500-599)****5.6.1 CG - General Information**

| Document Reference | Version       | Title                                | Date of Issue |
|--------------------|---------------|--------------------------------------|---------------|
| CG 501             | Version 2.1.0 | Design of highway drainage systems   | 30-Aug-2022   |
| CG 502             | Revision 0    | The certification of drainage design | Oct-19        |

**5.6.2 CA - Appraisal**

There are no Appraisal documents associated with this discipline.

**5.6.3 CD - Design**

| Document Reference | Version       | Title  | Date of Issue |
|--------------------|---------------|--|---------------|
| CD 521             | Version 1.1.0 | Hydraulic design of road edge surface water channels and outlets                             | 29-Nov-2021   |
| CD 522             | Revision 0    | Drainage of runoff from natural catchments   | Mar-20        |
| CD 523             | Version 1.1.0 | Determination of pipe roughness and assessment of sediment deposition to aid pipeline design | 29-Nov-2021   |
| CD 524             | Version 0.1.0 | Edge of pavement details   | 29-Nov-2021   |
| CD 525             | Revision 1    | Design of combined surface and sub-surface drains and management of stone scatter            | Mar-20        |
| CD 526             | Revision 3    | Spacing of road gullies  | Jan-20        |
| CD 527             | Revision 1    | Sumpleless gullies   | Mar-20        |
| CD 528             | Revision 0    | Vortex separators for use with road drainage systems   | Feb-20        |
| CD 529             | Version 1.0.1 | Design of outfall and culvert details  | 30-Dec-2021   |
| CD 530             | Version 1.1.0 | Design of soakaways  | 29-Nov-2021   |
| CD 531             | Version 0.1.0 | Reservoir pavements for drainage attenuation   | 29-Nov-2021   |
| CD 532             | Version 0.1.0 | Vegetated drainage systems for highway runoff  | 29-Nov-2021   |
| CD 533             | Version 1.1.0 | Determination of pipe and bedding combinations for drainage works                            | 30-Dec-2021   |
| CD 534             | Version 0.1.0 | Chamber tops and gully tops for road drainage and services                                   | 30-May-2022   |
| CD 535             | Version 1.1.0 | Drainage asset data and risk management  | 28-Oct-2021   |

**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 | Version       | Title            | Date of Issue |
|--------------------|---------------|------------------|---------------|
| CS 551             | Version 1.0.0 | Drainage surveys | 28-Oct-2021   |

**5.6.7 CZ - Disposal**

There are no Disposal documents associated with this discipline.

**5.7 Geotechnics (C\* 600-699)****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 | Version    | Title                      | Date of Issue |
|--------------------|------------|----------------------------|---------------|
| CD 622             | Revision 1 | Managing geotechnical risk | Mar-20        |

**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 | Version       | Title   | Date of Issue |
|--------------------|---------------|---|---------------|
| CS 641             | Version 0.0.1 | Managing the maintenance of highway geotechnical assets | 29-Nov-2024   |

**5.7.7 CZ - Disposal**

There are no Disposal documents associated with this discipline.

**5.8 Control & Communications Technology (T\* 100-499)****5.8.1 TG - General Information**

| Document Reference | Version       | Title                          | Date of Issue |
|--------------------|---------------|--------------------------------|---------------|
| TG 411             | Version 0.1.0 | Electricity supply connections | 31-Jan-2022   |

**5.8.2 TA - Appraisal**

| Document Reference | Version       | Title                              | Date of Issue |
|--------------------|---------------|------------------------------------|---------------|
| TA 101             | Version 0.0.1 | Traffic signalling systems         | 30-Aug-2022   |
| TA 121             | Version 0.0.2 | Ramp metering                      | 31-Oct-2024   |
| TA 401             | Version 1.0.0 | Renewable energy systems appraisal | 31-Oct-2023   |

**5.8.3 TD - Design**

| Document Reference | Version       | Title                                  | Date of Issue |
|--------------------|---------------|--|---------------|
| TD 101             | Version 1.1.0 | Traffic signalling systems (design)    | 30-Aug-2022   |
| TD 121             | Version 0.0.2 | Ramp metering                          | 31-Oct-2024   |
| TD 131             | Version 0.1.0 | Roadside technology and communications | 30-Nov-2023   |

**5.8.4 TC - Construction**

There are no Construction documents associated with this discipline.

**5.8.5 TM - Maintenance & Operation**

| Document Reference | Version       | Title  | Date of Issue |
|--------------------|---------------|--|---------------|
| TM 101             | Version 0.1.0 | Traffic signalling systems (maintenance and operation) | 30-Aug-2022   |

**5.8.6 TS - Inspection & Assessment**

| Document Reference | Version       | Title  | Date of Issue |
|--------------------|---------------|--|---------------|
| TS 101             | Version 0.1.0 | Traffic signalling systems (inspection and assessment) | 30-Aug-2022   |

**5.8.7 TZ - Disposal**

There are no Disposal documents associated with this discipline.

## **5.9 Road Lighting (T\* 500-999)**

### **5.9.1 TG - General Information**

There are no General Information documents associated with this discipline.

### **5.9.2 TA - Appraisal**

| Document Reference | Version    | Title                   | Date of Issue |
|--------------------|------------|-------------------------|---------------|
| TA 501             | Revision 0 | Road lighting appraisal | Mar-20        |

### **5.9.3 TD - Design**

| Document Reference | Version    | Title                | Date of Issue |
|--------------------|------------|----------------------|---------------|
| TD 501             | Revision 0 | Road lighting design | Mar-20        |

### **5.9.4 TC - Construction**

There are no Construction documents associated with this discipline.

### **5.9.5 TM - Maintenance & Operation**

| Document Reference | Version    | Title                     | Date of Issue |
|--------------------|------------|---------------------------|---------------|
| TM 501             | Revision 0 | Road lighting maintenance | Mar-20        |

### **5.9.6 TS - Inspection & Assessment**

| Document Reference | Version    | Title                    | Date of Issue |
|--------------------|------------|--------------------------|---------------|
| TS 501             | Revision 0 | Road lighting inspection | Mar-20        |

### **5.9.7 TZ - Disposal**

There are no Disposal documents associated with this discipline.

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