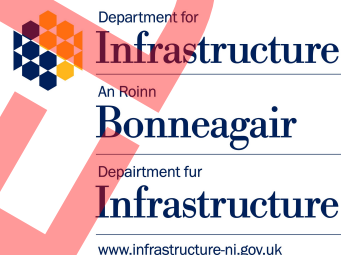


Design Manual for Roads and Bridges



General Principles & Scheme Governance

General Information

GG 000

Design Manual for Roads and Bridges index

30-Sep-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 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.

This is a controlled document.

Contents

| | | |
|----------|---|----------|
| 1 | RELEASE NOTES | 3 |
| 1.1 | Latest publication | 3 |
| 1.2 | Previous publications (in the last 2 years) | 3 |
| 2 | FOREWORD | 4 |
| 2.1 | Publishing information | 4 |
| 2.2 | Contractual and legal considerations | 4 |
| 3 | SCOPE | 5 |
| 4 | PUBLICATION SUMMARY | 6 |
| 4.1 | Published | 6 |
| 4.2 | Withdrawn | 6 |
| 5 | INDEX OF DMRB DOCUMENTS | 7 |
| 5.1 | General Principles & Scheme Governance (G* 100-199) | 7 |
| 5.2 | Sustainability & Environment (L* 100-199) | 9 |
| 5.3 | Road Layout (C* 100-199) | 10 |
| 5.4 | Pavement (C* 200-299) | 12 |
| 5.5 | Highway Structures & Bridges (C* 300-499) | 13 |
| 5.6 | Drainage (C* 500-599) | 16 |
| 5.7 | Geotechnics (C* 600-699) | 17 |
| 5.8 | Control & Communications Technology (T* 100-499) | 18 |
| 5.9 | Road Lighting (T* 500-999) | 19 |

SUPERSEDED

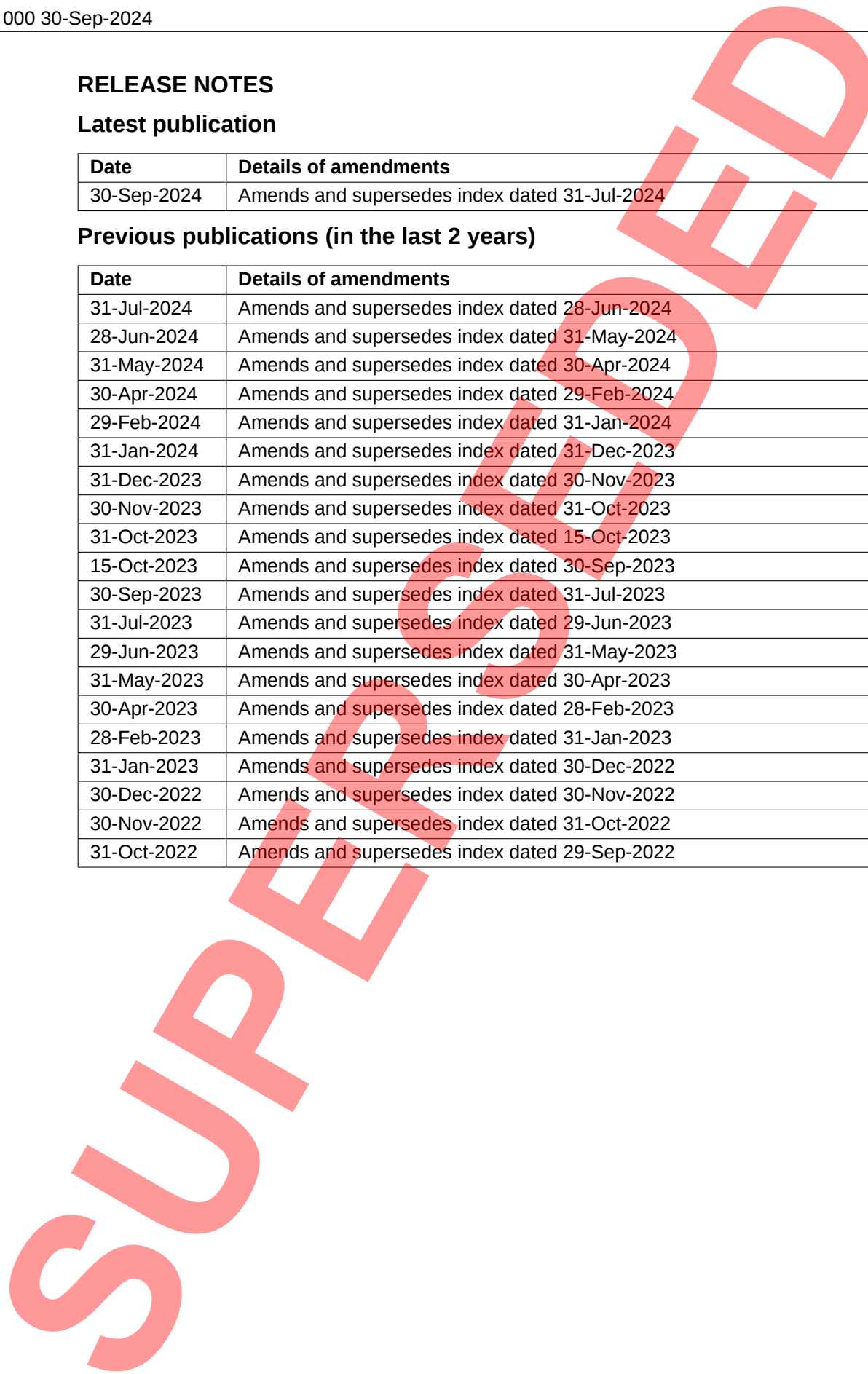
1 RELEASE NOTES

1.1 Latest publication

| Date | Details of amendments |
|-------------|---|
| 30-Sep-2024 | Amends and supersedes index dated 31-Jul-2024 |

1.2 Previous publications (in the last 2 years)

| Date | Details of amendments |
|-------------|---|
| 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 |
| 31-May-2023 | Amends and supersedes index dated 30-Apr-2023 |
| 30-Apr-2023 | Amends and supersedes index dated 28-Feb-2023 |
| 28-Feb-2023 | Amends and supersedes index dated 31-Jan-2023 |
| 31-Jan-2023 | Amends and supersedes index dated 30-Dec-2022 |
| 30-Dec-2022 | Amends and supersedes index dated 30-Nov-2022 |
| 30-Nov-2022 | Amends and supersedes index dated 31-Oct-2022 |
| 31-Oct-2022 | Amends and supersedes index dated 29-Sep-2022 |



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.

SUPERSEDED

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 September 2024.

SUPERSEDED

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. **GD 300 Version 2.1.0** - Enhanced all-purpose dual carriageways
 Release notes: Revision 2.1.0 (Publication: Date September 2024) The term 'expressway' has been replaced by 'enhanced all-purpose dual carriageway'. The new term better reflects the nature of the requirements/advice prescribed by GD 300, which represent enhancements over the conventional all-purpose dual carriageway baseline. Revision 2 (April 2020) This revision is for minor administrative changes to the England NAA. See the England NAA revision release notes for more details. Revision 1 (March 2020) This revision includes updates to the Highways England National Application Annex focused on the provision of additional advice for level 1 to 4 schemes. Superseded references have also been updated. Revision 0 (May 2019) GD 300 document created to outline design requirements and advice for new and upgraded all-purpose trunk roads (expressways). This full document has been written to comply with the new Highways England drafting rules.
 Supersedes: 1. GD 300 Revision 2 - Requirements for new and upgraded all-purpose trunk roads (expressways)
2. **GG 000 30-Sep-2024** - Design Manual for Roads and Bridges index
 Release notes: Amends and supersedes index dated 31-Jul-2024
 Supersedes: 1. GG 000 31-Jul-2024 - Design Manual for Roads and Bridges index
3. **GG 111 Version 1.0.0** - Diversionary works
 Release notes: [Version 1.0.0; Pub. date TBC] New document to replace documents SA 10 and SA 11. See Summary.
4. **TA 121 Version 0.0.1** - Ramp metering
 Release notes: To reflect company name change from Highways England to National Highways and amendment to NOTE 2.2.1. Minor word changes in Appendix to comply with MDD rules. {Publication: September 2024}

4.2 Withdrawn

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

1. **GD 300 Revision 2** - Requirements for new and upgraded all-purpose trunk roads (expressways)
 Release notes: No release notes provided
 Superseded by: 1. GD 300 Version 2.1.0 - Enhanced all-purpose dual carriageways
2. **GG 000 31-Jul-2024** - Design Manual for Roads and Bridges index
 Release notes: No release notes provided
 Superseded by: 1. GG 000 30-Sep-2024 - 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-Sep-2024 | Design Manual for Roads and Bridges index | 30-Sep-2024 |
| 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 | Revision 0 | Requirements for safety risk assessment | Jun-18 |
| GG 105 | Revision 0 | Asbestos management | Jan-20 |
| GG 111 | Version 1.0.0 | Diversions 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 | Revision 2 | Road safety audit | Jan-20 |
| 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 | Revision 0 | Infrastructure requirements for emergency access and egress from motorway and all-purpose trunk roads | Mar-20 |
| 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 | Revision 0 | Air quality | Nov-19 |
| 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 | Revision 0 | Landscape design | Mar-20 |
| 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 |

SUPERSEDED

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 HE Crash 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 0.1.0 | Technical approval of highway structures | 29-Apr-2021 |
| CG 300 Assessment TAS | Version 0.9.0 | Generic Assessment Technical Approval Schedule (TAS) | 31-May-2024 |
| CG 300 Design TAS | Version 1.28.0 | Generic Design Technical Approval Schedule (TAS) | 31-Jul-2024 |
| 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 | Revision 0 | Design of road tunnels | Mar-20 |
| 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 | Revision 1 | Maintenance of buried concrete box structures | Mar-20 |

5.5.6 CS - Inspection & Assessment

| Document Reference | Version | Title | Date of Issue |
|--------------------|---------------|---|---------------|
| CS 432 | Revision 1 | Inspection of buried concrete box structures | Mar-20 |
| 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 | Sumplless 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

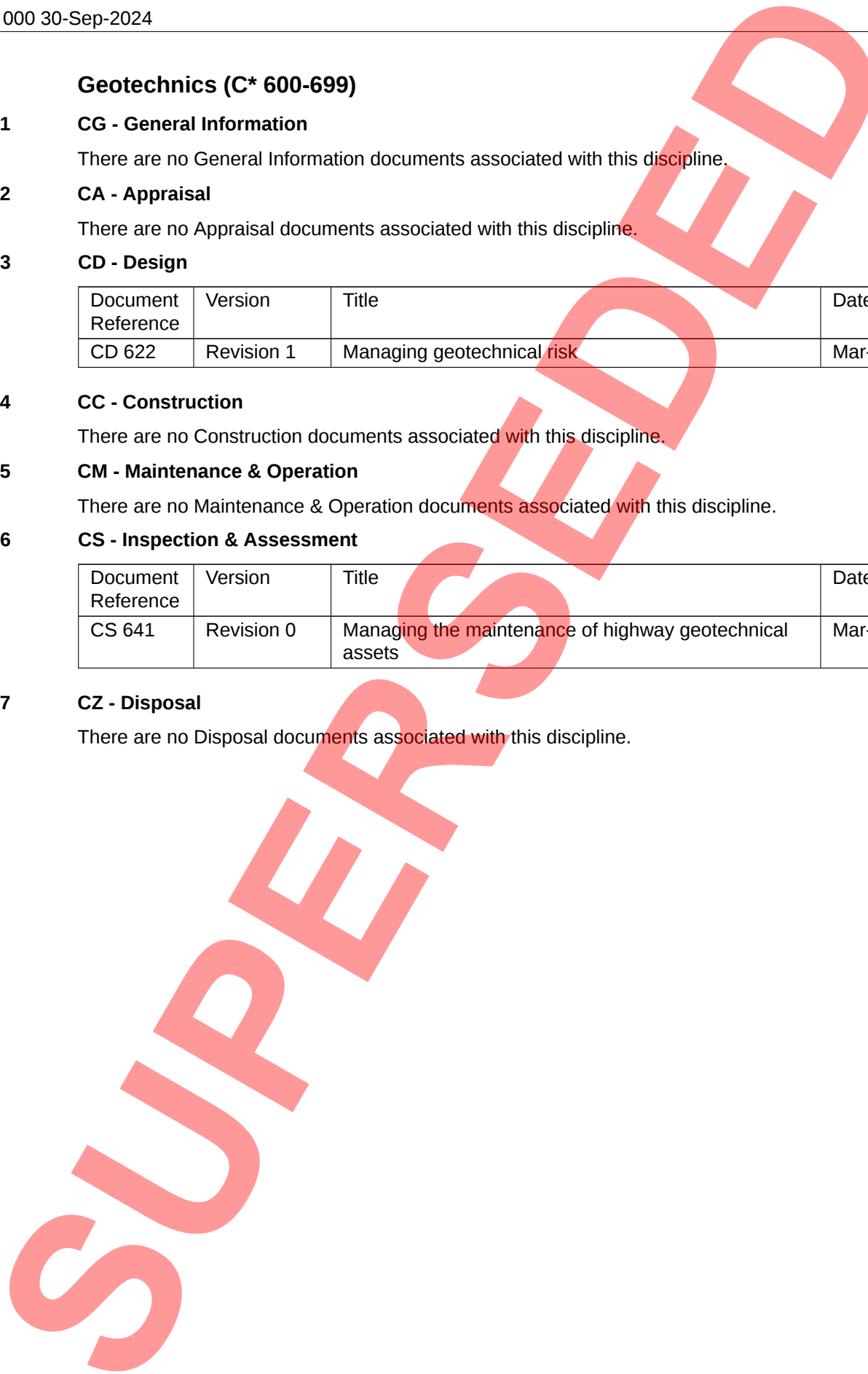
There are no Maintenance & Operation documents associated with this discipline.

5.7.6 CS - Inspection & Assessment

| Document Reference | Version | Title | Date of Issue |
|--------------------|------------|---|---------------|
| CS 641 | Revision 0 | Managing the maintenance of highway geotechnical assets | Mar-20 |

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 | Revision 0 | Ramp metering | Jan-20 |
| TA 121 | Version 0.0.1 | Ramp metering | 30-Sep-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 | Revision 0 | Ramp metering | Jan-20 |
| 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.

SUPERSEDED

© Crown copyright 2024.

You may re-use this information (not including logos) free of charge in any format or medium, under the terms of the Open Government Licence. To view this licence:

visit www.nationalarchives.gov.uk/doc/open-government-licence/,
write to the **Information Policy Team, The National Archives, Kew, London TW9 4DU**,
or email psi@nationalarchives.gsi.gov.uk.