Design Manual for Roads and Bridges







General Principles & Scheme Governance General Information

GG 000

Design Manual for Roads and Bridges index

(formerly GG 000 28-Jan-2021)

25-Feb-2021

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 Highways England team. The email address for all enquiries and feedback is: Standards_Enquiries@highwaysengland.co.uk

This is a controlled document.

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1 RELEASE NOTES

| Version | Date | Details of amendments | | 7 |
|-------------|-------------|--------------------------------------|------------|---|
| 25-Feb-2021 | 25-Feb-2021 | Amends and supersedes index dated 28 | 3-Jan-2021 | |

2 FOREWORD

2.1 Publishing information

This document is published by Highways England.

This document superseded GG 000 28-Jan-2021, which is withdrawn.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 INTRODUCTION

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

3.1 Published

1. CG 300 TAS February 2021 - Generic Technical Approval Schedule (TAS)

Public Notes: February 2021

Supersedes: 1. CG 300 TAS January 2021 - Generic Technical Approval

Schedule (TAS)

2. CS 228 HE Crash Model v1.02 - Highways England Crash Model

Public Notes: As an accessory to CS 228 this is an excel based tool called the CS

228 HE Crash Model.

3. GG 000 25-Feb-2021 - Design Manual for Roads and Bridges index 0.1.1

Public Notes: Amends and supersedes index dated 28-Jan-2021

Supersedes: 1. GG 000 28-Jan-2021 - Design Manual for Roads and Bridges

index **0.1.1**

3.2 Partially Withdrawn

There were no documents partially withdrawn as part of the publication.

3.3 Withdrawn

1. CG 300 TAS January 2021 - Generic Technical Approval Schedule (TAS)

Public Notes: No public notes given

Superseded By: 1. CG 300 TAS February 2021 - Generic Technical Approval

Schedule (TAS)

2. GG 000 28-Jan-2021 - Design Manual for Roads and Bridges index 0.1.1

Public Notes: No public notes given

Superseded By: 1. GG 000 25-Feb-2021 - Design Manual for Roads and Bridges

index **0.1.1**

3.4 Amended

There were no documents amended as part of the publication.

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 February 2021.

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.

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 25-Feb-2021 | Design Manual for Roads and Bridges index | Feb-21 | 0.1.1 |
| GG 101 | Introduction to the Design Manual for Roads and Bridges (DMRB) | Jun-18 | 0.1.2 |
| 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 119 Revision 2 | Road safety audit | Jan-20 | 5.2.2 |
| GG 128 | Requirements for reporting incidents, events and undesirable circumstances: health, safety, wellbeing, structural and environmental | Feb-20 | 0.2.3 |
| 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 903 | Customer service standard for diversion routes for unplanned events | Aug-20 | |

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 | Smart motorways | Oct-20 | |
| GD 302 | Smart motorways: Upgrading hard shoulder running to all lane running operation | Oct-20 | |
| 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 | N | lov-20 | |
|--------|--|---|--------|--|
| | using 60mph at/through road works | | | |

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 | Operational requirements for network occupancy | Apr-20 | |
| 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 | Title | | | Date of | Legacy |
|------------|-----------------------------|------------|----------|---------|-----------|
| Reference | | | | Issue | Decimal |
| | | | | | Reference |
| GS 801 | Asset delivery asset inspec | tion requi | irements | Mar-20 | 0.2.7 |
| Revision 1 | | | | | |

5.1.7 GZ - Disposal

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 Revision 1 | Scoping projects for environmental assessment | Jan-20 | 11.2.3 |
| LA 104 Revision 1 | Environmental assessment and monitoring | Aug-20 | 11.2.4 |
| LA 105 | Air quality | Nov-19 | 11.3.1 |
| LA 106 Revision 1 | Cultural heritage assessment | Jan-20 | 11.3.2 |
| LA 107 Revision 2 | Landscape and visual effects | Feb-20 | 11.3.5 |
| LA 108 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 Revision 2 | Noise and vibration | May-20 | 11.3.7 |
| LA 112 Revision 1 | Population and human health | Jan-20 | 11.3.6 |
| LA 113 Revision 1 | Road drainage and the water environment | Mar-20 | 11.3.10 |
| LA 114 | Climate | Oct-19 | 11.3.14 |
| LA 115 Revision 1 | Habitats Regulations assessment | Jan-20 | 11.4.1 |
| LA 116 | Cultural heritage asset management plans | Sep-19 | 10.6.2 |
| LA 120 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

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 Revision 2 | Geometric design of roundabouts | Apr-20 | 6.2.3 |
| CD 122 Revision 1 | Geometric design of grade separated junctions | Jan-20 | 6.2.1 |
| CD 123 Revision 2 | Geometric design of at-grade priority and signal-controlled junctions | Aug-20 | 6.2.6 |
| CD 127 Revision 1 | Cross-sections and headrooms | Mar-20 | 6.1.2 |
| CD 143 Revision 2 | Designing for walking, cycling and horse-riding | May-20 | 6.3.5 |
| CD 146 Revision 1 | Positioning of signalling and advance direction signs | Mar-20 | 9.1.1 |
| CD 169 Revision 1 | The design of lay-bys, maintenance hardstandings, rest areas, service areas and observation platforms | May-20 | 6.3.3 |
| 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 Rev <mark>ision 1</mark> | Designing for cycle traffic | May-20 | 6.3.1 |

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 Revision 1 | Maintenance of traffic signs | Mar-20 | 8.2.2 |

5.3.6 CS - Inspection & Assessment

| Document | Title | Date of | Legacy |
|------------|---|---------|-----------|
| Reference | | Issue | Decimal |
| | | | Reference |
| CS 125 | Inspection of traffic signs | Mar-20 | 8.2.2 |
| Revision 2 | | | |
| CS 126 | Inspection and assessment of road markings and road | Mar-20 | 8.2.2 |
| | studs | | |

5.3.7 CZ - Disposal

| Document Reference | Title | | 7 | Date of Issue | Legacy Decimal Reference |
|-----------------------|---------------------------|--|---|------------------|--------------------------------|
| CZ 125 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 Revision 1 | Design for new pavement foundations | Apr-20 | 7.2.2 |
| CD 226 | Design for new pavement construction | Mar-20 | 7.2.3 |
| CD 227 | Design for pavement maintenance | Mar-20 | 7.3.3 |
| CD 236 Revision 4 | Surface course materials for construction | Mar-20 | 7.5.1 |
| CD 239 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 rep | airs | Mar-20 | 7.4.1 |

5.4.6 CS - Inspection & Assessment

| Document Reference | Title | Date of Issue | Legacy Decimal Reference |
|-----------------------|---|------------------|--------------------------------|
| CS 228 | Skidding resistance | Jan-21 | |
| Revision 2 | | | |
| CS 228 HE | Highways England Crash Model | Feb-21 | |
| Crash Model | | | |
| v1.02 | | | |
| CS 229 | Data for pavement assessment | Mar-20 | 7.3.2 |
| CS 230 | Pavement maintenance assessment procedure | Mar-20 | 7.3.3 |

5.4.7 CZ - Disposal

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 | Technical approval of highway structures | Mar-20 | 1.1.1 |
| CG 300 TAS February 2021 | Generic Technical Approval Schedule (TAS) | Feb-21 | |
| 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 Revision 1 | Design of minor structures | Mar-20 | 2.2.1 |
| CD 355 | Application of whole-life costs for design and maintenance of highway structures | Jul-19 | 1.2.1 |
| CD 356 Revision 1 | Design of highway structures for hydraulic action | Mar-20 | 1.3.6 |
| CD 357 Revision 1 | Bridge expansion joints | Mar-20 | 2.3.6 |
| CD 358 Revision 2 | Waterproofing and surfacing of concrete bridge decks | Jun-20 | 2.3.4 |
| CD 359 | Design requirements for permanent soffit formwork | Mar-20 | 2.3.7 |
| CD 360 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 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 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 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 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 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 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 |
|-----------------------|---|---------------|--------------------------------|
| BD 97/12 | The Assessment of Scour and Other Hydraulic Actions at Highway Structures | May-12 | 3.4.21 |
| CS 432 Revision 1 | Inspection of buried concrete box structures | Mar-20 | 3.3.5 |
| CS 450 | Inspection of highway structures | Mar-20 | 3.1.4 |
| 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 Revision 1 | Assessment of highway bridges and structures | Mar-20 | 3.4.3 |

| CS 455 | The assessment of concrete highway bridges and | Jan-21 | |
|------------|--|--------|--------|
| Revision 1 | structures | | |
| CS 456 | The assessment of steel highway bridges and structures | Mar-20 | 3.4.11 |
| CS 457 | The assessment of composite highway bridges and | Mar-20 | 3.4.16 |
| Revision 1 | structures | | |
| CS 458 | The assessment of highway bridges and structures for the | Mar-20 | 3.4.19 |
| | effects of special type general order (STGO) and special | | |
| | order (SO) vehicles | | |
| CS 459 | The assessment of bridge substructures, retaining | Mar-20 | 3.4.9 |
| Revision 1 | structures and buried structures | | |
| CS 460 | Management of corrugated steel buried structures | Mar-20 | 3.3.4 |
| Revision 1 | | | |
| CS 461 | Assessment and upgrading of in-service parapets | Mar-20 | 2.3.2 |
| CS 462 | Repair and management of deteriorated concrete highway | Mar-20 | 3.3.2 |
| | structures | | |
| CS 463 | Load testing for bridge assessment | Jun-19 | 3.4.8 |
| CS 464 | Non-destructive testing of highways structures | Mar-20 | 3.1.7 |
| Revision 1 | | | |
| CS 465 | Management of post-tensioned concrete bridges | Mar-20 | 3.2.5 |
| CS 466 | Risk management and structural assessment of concrete | Mar-20 | 3.4.6 |
| | half-joint deck structures | | |
| CS 467 | Risk management and structural assessment of concrete | Apr-20 | 3.1.5 |
| Revision 1 | deck hinge structures | | |
| CS 468 | Assessment of Freyssinet concrete hinges in highway | Mar-20 | 1.3.20 |
| Revision 1 | structures | | |
| CS 470 | Management of sub-standard highway structures | Mar-20 | 3.4.18 |
| | | • | |

5.5.7 CZ - Disposal

5.6 Drainage (C* 501-599)

5.6.1 CG - General Information

| Document | Title | Date of | Legacy |
|------------|--------------------------------------|---------|-----------|
| Reference | | Issue | Decimal |
| | | | Reference |
| CG 501 | Design of highway drainage systems | Mar-20 | 4.2.3 |
| Revision 2 | | | |
| 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 Revision 1 | Hydraulic design of road edge surface water channels and outlets | Mar-20 | 4.2.4 |
| CD 522 | Drainage of runoff from natural catchments | Mar-20 | 4.2.1 |
| CD 523 Revision 1 | Determination of pipe roughness and assessment of sediment deposition to aid pipeline design | Mar-20 | 4.2.4 |
| CD 524 | Edge of pavement details | Feb-20 | 4.2.1 |
| CD 525 Revision 1 | Design of combined surface and sub-surface drains and management of stone scatter | Mar-20 | 4.2.4 |
| CD 526 Revision 3 | Spacing of road gullies | Jan-20 | 4.2.3 |
| CD 527 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 Revision 1 | Design of outfall and culvert details | Mar-20 | 4.2.7 |
| CD 530 Revision 1 | Design of soakaways | Mar-20 | 4.2.8 |
| CD 531 | Reservoir pavements for drainage attenuation | Mar-20 | 4.2.4 |
| CD 532 | Vegetated drainage systems for highway runoff | Mar-20 | 4.2.1 |
| CD 533 Revision 1 | Determination of pipe and bedding combinations for drainage works | Mar-20 | 4.2.5 |
| CD 534 | Chamber tops and gully tops for road drainage and services | Feb-20 | 4.2.5 |
| CD 535 Revision 1 | Drainage asset data and risk management | Jan-20 | 4.2.4 |

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 | Title | Date of | Legacy |
|-----------|------------------|---------|-----------|
| Reference | | Issue | Decimal |
| | | | Reference |
| CS 551 | Drainage surveys | Jun-19 | 4.2.10 |

5.6.7 CZ - Disposal

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

5.7.7 CZ - Disposal

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 | Electricity supply connections | Mar-20 | 9.3.2 |

5.8.2 TA - Appraisal

| Document Reference | Title | | Date of Issue | Legacy Decimal Reference |
|-----------------------|---------------------------------------|--|------------------|--------------------------------|
| TA 101 | Traffic signalling systems (appraisal | | Jun-19 | 8.0.1 |
| TA 121 | Ramp metering | | Jan-20 | 9.3.1 |

5.8.3 TD - Design

| Document Reference | Title | Date of Issue | Legacy Decimal Reference |
|-----------------------|--|---------------|--------------------------------|
| TD 101 Revision 1 | Traffic signalling systems | Jan-20 | 8.0.1 |
| TD 121 | Ramp metering | Jan-20 | 9.3.1 |
| TD 131 | Roadside technology and communications | Jan-20 | 9.1.2 |

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 | Traffic signalling systems (maintenance and operation) | Jun-19 | 8.0.1 |

5.8.6 TS - Inspection & Assessment

| Document | Title | Date of | Legacy |
|-----------|--|---------|-----------|
| Reference | | Issue | Decimal |
| | | | Reference |
| TS 101 | Traffic signalling systems (inspection and assessment) | Jun-19 | 8.0.1 |

5.8.7 TZ - Disposal

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 | Title | Date of | Legacy |
|-----------|---------------------------|---------|-----------|
| Reference | | Issue | 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



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