

Civic Centre 1
High Street
Huddersfield
HD1 2NE

APPROVAL IN PRINCIPLE FOR DESIGN OF

PROPOSED MASONRY FACED REINFORCED EARTH HIGHWAY BURR WALL SUPPORTING ROAD 2 OFF A629 PENISTONE ROAD, FENAY BRIDGE

Structure reference: K35173
Date: 27/01/2026
Revision: 04
Status: Final
Prepared by: D.P. Bass
Checked by: A. Hawkin

Scheme title: Off A629 Penistone Road, Fenay Bridge
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DOCUMENT CONTROL

Structure title: PROPOSED MASONRY FACED REINFORCED EARTH
HIGHWAY BURR WALL SUPPORTING ROAD 2 OFF A629
PENISTONE ROAD, FENAY BRIDGE

Structure reference: K35173

Date: 27/01/2026

Revision: 4

Status: Final

Document issue record

Issue	Status	Prepared	Date	Checked	Date	Approved	Date
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1	Draft	D.P. Bass	12/11/25	A. Hawkin	12/11/25		
2	Final	D.P. Bass	05/12/25	A. Hawkin	05/12/25		
3	Final	D.P. Bass	16/12/25	A. Hawkin	16/12/25		
4	Final	D.P. Bass	27/01/26	A. Hawkin	27/01/26		

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PROJECT DETAILS

Name of project: Off A629 Penistone Road, Fenay Bridge

Name of Bridge or Structure: Proposed reinforced earth highway burr wall

Structure reference no: K35173

Summary:

AIP is to cover the proposed highway burr wall supporting a slope down from an adopted highway.

1. HIGHWAY DETAILS

1.1. Type of highway

1.1.1. Location and OS Map / Grid reference

Location: Residential Estate Road, Fenay Bridge

OS Map: SE187144

Grid Ref (X, Y): (418766, 414489)

1.2. Permitted traffic speed

30 mph.

1.3. Existing restrictions

None.

2. SITE DETAILS

2.1. Obstacles crossed

N/A

3. PROPOSED STRUCTURE

3.1. Description of structure and design working life

The proposed masonry faced reinforced earth burr wall is required to support a slope down from a new adopted highway off A629 Penistone Road at Fenay Bridge.

Masonry faced reinforced earth burr wall; to be designed to have a design working life category 5 (120 years) in accordance with CD 350 The design of highway structures-Table 7.1 The total design of the new reinforced earth burr wall will be designed to provide the necessary structural support to the proposed adopted highway.

3.2. Structural type

Reinforced earth masonry clad burr wall.

3.3. Foundation type

The reinforced earth burr wall is to be designed bearing on to the undisturbed weak to moderately weak SANDSTONE/ MUDSTONE BEDROCK. A concrete foundation is only required under the blocks to provide a levelling pad and is not necessary under the reinforced earth.

3.4. Span arrangements

Wall has a maximum retained height 4.35m measured from formation level to finished ground level on the high side. The wall is 19.1m in length

3.5. Articulation arrangements

Construction Joints to be provided in the facework at the interface with the adjoining private sections to define the extent of the adoptable structure.

3.6. Classes and levels

3.6.1. Consequence class

Consequence class to be CC2 (medium consequence for loss of human life, economic, social or environmental consequences considerable).

3.6.2. Reliability class

Reliability class is to be associated with the consequence class detailed in 3.6.1. Reliability class to be RC2. Factor for actions to be used KFI = 1,0).

3.6.3. Inspection level

Inspection Level 2 – Normal inspection (inspection in accordance with the procedures of the inspecting organisation).

3.7. Road restraint systems requirements

Provide an Unreinforced masonry parapet at the end of the adopted road 1.2m high 330mm thick in natural stonework in designation (ii) mortar (to provide N1 level of containment) in accordance with the DfT “Guidance on the Design, Assessment and Strengthening of Masonry Parapets on Highway Structures”.

A 1.2m high pedestrian guard rail has also been provided to the top of the reinforced earth wall.

3.8. Proposals for Water Management

150mm diameter perforated longitudinal drain encased in free draining material (No fines concrete) and taken to a suitable outlet.

3.9. Proposed arrangements for future maintenance and inspection

3.9.1. Traffic management

The proposed highway burr wall can be viewed from the lower side of the wall, therefore no traffic management measures will be required

3.9.2. Arrangements for future maintenance and inspection of structure. Access arrangements to structure.

The proposed highway burr wall can be viewed from the lower side of the wall, therefore no traffic management measures will be required

3.10. Environment and sustainability

Partially buried structure, access to the structure will be from the lower side of the wall. Any maintenance works to the burr wall is likely to require a temporary closure of the public footpath.

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3.11. Durability. Materials and finishes

Item	Material	Finish / Location
Reinforced earth burr Wall	Granular backfill (Class 6I) benched into in situ soils and compacted in layers (in accordance with MCDHW Specification for Highways Works, Series 600, Table 6/4). No material which is outside the limits of Class 6I or similar granular fill is permitted for use within the reinforced earth zone. Paragrid 50 geogrid reinforcement at maximum 600mm vertical spacings.	The wall will be faced Vertica 4° facing blocks Exposed concrete finishes will be class F1 (formed) or class U2 (unformed).
Masonry facework	Vertica 4° facing blocks	Artificial stonework. Coping to be fixed to the top of the proposed wall using a dowel and resin system to the adopted section of highway wall Fixings and resin to have a minimum of a 120yr design life
Parapet	1200mm high and 330mm thick solid stone parapet. (Min density 2200kg/m ³).	Natural stonework
Backfill material	Engineering Class 6I, Selected granular fill to Specification for Highways	Backfill to structures.
Drainage (for burr wall)	150mm diameter perforated longitudinal drain encased in free draining material and taken to a suitable outflow.	

3.12. Risks and hazards considered for design, execution, maintenance and demolition. Consultation with and/or agreement from Overseeing Organisation

Geoman Ltd., as designers, understand that under the Regulations its duties are generally to;

- Ensure that the client for the project is aware of the duties and responsibilities that they have.

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- So far as is reasonably practicable, taking due account of other relevant design considerations, avoid foreseeable risks to the health and safety of any persons carrying out, liable to be affected by such or maintaining the permanent fixtures and fittings of construction work.

In discharging this duty, the designer shall:

- Eliminate hazards that may give rise to risks
- Reduce risks from any remaining hazards and in doing so give collective measures priority over individual measures.

The designer shall also:

- Take all reasonable steps to provide with the design sufficient information about aspects of the design of the structure or its construction or maintenance as will adequately assist clients, other designers and contractors to comply with their duties under the Regulations.

In respect of this particular project, Geoman hereby draws to the attention of the Principal Designer and Principal Contractor that they have specific duties under CDM 2015.

The 'Principal Contractor' must be responsible for and fulfil all the contractor's obligations.

However, since the Principal Designer has designated the chosen location and dimensions of the structures on this site, the Principal Designer has, in this respect, acted as a 'designer' under CDM 2015. The Principal Designer is therefore responsible for fulfilling all the obligations that this entails.

The scope of Geoman, as element 'designer', to minimise design risks is therefore limited by those elements of the design pre-determined by the Principal Designer. The significant design risks shown in Section 7.1 remain and must therefore be addressed by the Principal Designer, Project Consulting Engineer and Principal Contractor.

3.13. Acceptance of recommendations of the structures Options Report (reference date) to be used in the design and reasons for any proposed changes (including estimated cost of proposed structure). If an Options Report has not been prepared, state the reasons for the selected solution and reasons for rejecting alternatives (including comparative whole life costs with dates of estimates).

QS to advise on estimated costs.

3.14. Proposed arrangements for construction

3.14.1. Construction of structure

Prefabricated Wall Installation

1) Set out line and level of wall in preparation for foundation excavation. Excavate trench to minimum dimensions indicated on engineering cross section, typically 300mm min. depth and 750mm min. width. For ease of construction commence construction at the lowest point on the wall.

2) Place a good quality granular fill (eg. DMRB Type 1) in the trench in 150mm layers and compact to achieve suitable density, typically 95% max. dry density (Figure 2a). Repeat the process until the required base thickness is achieved. Check to ensure that the foundation surface is level in readiness to receive the base course of blocks.

BASE COURSE & DRAINAGE

3) Place the first layer of blocks on the prepared foundation. Position the units side by side, in full contact with the foundation and with each other along vertical edges of the front face of the blocks. On straight wall construction, placing a string line against the back of the units helps maintain alignment. Check level in both directions. Backfill immediately behind (adhering to Backfilling RAMS) and within the voids between and in the blocks with granular fill & compact. For taller walls it may be convenient to place the base course in a foundation of lean-mix concrete.

4) Once the compacted foundation is in place and the base course completed, construction of the second course of blocks may commence. Sweep off the base course, making sure that the tops of the units are free from debris. Place new course in a staggered relationship to the course beneath (running bond), pulling each unit forward until secure.

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5) Place a perforated, flexible drainpipe directly behind the units (Figure 4b). As an alternative, the drainpipe can be daylighted through the face of the wall. The pipe must be cut and have a 'T' fitting attached to it. Part of a face unit should be cut to allow the 'T' to daylight through the face of the wall. Place 300mm of free draining aggregate directly behind the wall and over the drainpipe. Once the drainage installation is complete, the main wall construction can commence.

WALL CONSTRUCTION

6) Sweep off each course, making sure that the tops of the units are free from debris and construct the subsequent course of the wall by 'centering' a unit directly above the vertical joints of the course below (Running Bond). Pull the unit forward until the lower block locator is in contact with the back of the cam of the block above as before.

7) Place a free draining aggregate directly behind the blocks to form a drainage column, also filling the voids within the blocks. When the construction drawings show a geotextile required between the drainage aggregate and the reinforcement soil fill, considerations should be given to using temporary lightweight timber shuttering. The shuttering is removed prior to laying a geogrid layer.

8) Fill all the remaining area behind the drainage aggregate with a suitable granular fill. The fill should be placed in layers not exceeding the height of the block and compacted to achieve a suitable density, typically 95% max. dry density.

9) Where ParaGrid™ is required, cut the geogrid to the appropriate length shown on the drawings. Place the geogrid flat over the compacted backfill and to within 25mm of the front face of the block. Ensure that the geogrid is taught and flat on the compacted surface prior to placing of subsequent granular layers and block courses.

NOTE: the geogrid is always placed with the roll direction (direction of strength) perpendicular to the wall face. When filling over the geogrid, a minimum of 100mm of fill must be placed over the geogrid before driving plant over it. See Below:



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10) Repeat steps 6 to 9 until designed height is achieved, introducing ParaGrid™ at the levels shown on the construction drawings.

11) Finish the wall by laying the cap units on the wall. Beginning at the lowest elevation of the completed wall, lay the cap units on top of each of the wall units, alternating the wide and narrow sides of the unit. Placement of caps will vary according to the wall design; they may be aligned with the front or back of the wall units. Adhere the capping units to the wall by applying a high quality construction adhesive. e.g. Febset NF. NOTE: Cap units should not be adhered until the wall lay- out is complete.

3.14.2. Traffic management

All traffic management is to be agreed with the Kirklees Council's Highways Streetworks section prior to the start of works, (where applicable)

3.14.3. Service diversions

No existing services are known to be present. However, utilities plans will be obtained and presence of private services (if any) will be confirmed prior to the commencement of works

3.14.4. Interface with existing structures

No existing structures are present

3.15. Deliberate damage and security

Structure is masonry clad and so is resilient to any forms of deliberate damage

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4. DESIGN CRITERIA

4.1. Actions

4.1.1. Permanent actions

All permanent actions as outlined in BS EN 1991-1-1 and the national annex.

4.1.2. Snow, Wind and Thermal actions

Snow loading not considered (NA to BS EN 1991-1-3 NA.4.1.1).

Wind loading not considered.

Thermal actions considered in accordance with Section 6 of BS EN 1991-1-5 and NA to BS EN 1991-1-5

4.1.3. Actions relating to normal traffic under AW regulations and C&U regulations

20.0kN/m² in accordance with BS 8002:2015. (Table 7)

4.1.4. Actions relating to General Order traffic under STGO regulations

BS EN 1991-2:2003, NA 2.34 (LM3 SV Models) or UDL=30kpa in accordance with BS 8002:-2015 Cl 4.5.1.5 (Table 7).

4.1.5. Footway or footbridge variable actions

5.0kN/m² in accordance with BS 8002:2015 (Table 7).

4.1.6. Actions relating to Special Order traffic, provision for exceptional abnormal indivisible loads including location of vehicle track on deck cross-section

N/A

4.1.7. Accidental actions

Accidental actions to be in accordance with 4.7.3.1 of BS EN 1991-2 and NA to BS EN 1991-2.

Vehicular Impact Loading on Parapet to BS EN 1317-2:2010 (Normal Containment Level N1). A separate parapet risk assessment calculation in compliance with the DfT "Guidance on the Design, Assessment and Strengthening of Masonry Parapets on Highway Structures" must be provided

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4.1.8. Action during construction

The burr wall is to be backfilled in accordance with the MCHW and surcharge loadings are to be derived based on the requirements of PD 6694-1:2011. Therefore, compaction pressures imposed on the wall during construction do not need to be considered. (PD 6694-1:2011 CL 7.3.3)

4.1.9. Any special action not covered above

None.

4.2. Heavy or high load route requirements and arrangements being made to preserve the route, including any provision for future heavier loads or future widening

Not considered

4.3. Proposed minimum headroom provided

N/A

4.4. Set out measures that will be incorporated into design to minimise maintenance

Structure to be constructed in reinforced earth.

4.5. Authorities consulted and any special conditions required

Kirklees Council.

4.6. Standards and documents listed in the Technical Approval Schedule

TAS dated May 2025 - See appendix A.

Additional relevant DoT standards published since the above edition of the TAS including amendments, are listed as follows:

None.

4.7. Proposed departures from standards listed in 4.6

The proposed burr wall is located in a new residential area on a no-through adopted road and as such it is highly unlikely that an abnormal loading would be routed through this road. Therefore, a departure from the approved standard BS 8002:2015 is proposed whereby the surcharge loading on the highway has been reduced to 20 kN/m²

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The current HAPAS certificate (17/H268) dated 25th July 2017, issued for the “Anchor Vertica Wall System for Reinforced Soil Retaining Walls” references design standard BS 8006-1:2010 which has now been superseded by BS 8006-1:2010+A1:2016. This would normally imply that the current certificate is invalid. However, Maccaferri (HAPAS certificate holder) have confirmed that the 2016 addendum (A1) to BS8006 doesn’t include any changes to requirements for blocks which are covered in Section 3 & 6 of the standard and moreover, the addendum does not include updates for reinforcement partial factors. In addition, the Paragrid geogrid reinforcement in the wall is covered by a separate BBA certificate (16/H249) which was most recently reviewed and approved by the BBA in 2024 is valid and they do not consider that the 2016 addendum invalidates their current testing for the geogrid reinforcement.

4.8. Proposed departures from standards concerning methods for dealing with aspects not covered by standards listed in 4.6

The proposed burr wall will be a highway structure and as such a commuted sum shall be applicable for the relief of the maintenance and the adoption of the new burr wall as a public highway structure under Section 38 of the Highways Act 1980.

4.9. Proposed safety critical fixings

None.

5. STRUCTURAL ANALYSIS

5.1. Methods of analysis proposed for superstructure, substructure and foundations

The reinforced earth burr wall will be analysed using BS8006:2010 +A1:2016 and BS EN1997-1:2004 incorporating Corrigendum dated February 2009 and UK National Annex incorporating Corrigendum No. 1.

The traffic loading and earth pressure coefficients are to be in accordance with BS 8002: 2015 and PD6694-1:2011.

5.2. Description and diagram of idealised structure to be used for analysis

The effects of permanent and variable actions on the reinforced earth burr wall will be analysed using Maccaferri's MacStARS W Analysis software. The analysis of the wall will be carried using a metre strip method assuming maximum retained height of the reinforced wall of 3.85m (including embankment). The wall will be subjected to earth and surcharge loads described in section 4.1 above.

Hydrostatic pressure has been ignored from the calculations in this instance. This is because the structure will be backfilled with granular fill in addition to installing a longitudinal perforated drain which will allow the free flow of water behind the structure. This will prevent any significant build-up of hydrostatic pressure being applied to the wall.

5.3. Assumptions intended for calculation of structural element stiffness

- Weight of fill backfill is 19 kN/m³.
- Surcharge is taken as 20kN/m² on the road which satisfies BS EN 1991-2 and BS8002:2015.

5.4. Proposed range of soil parameters to be used in the design of earth retaining elements

It is proposed to backfill against the burr wall structure with selected well-graded free draining granular fill 6N in accordance with the specification for highways works series 600. For the design of the burr walls, no objective test data is available for the 'wedge fill' therefore a representative effective stress value for ϕ' internal friction of 30° is assumed. This results in

- i) Earth Pressure at rest coefficient (K_0) = 0.5

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ii) Active Pressure coefficient (K_a) = 0.34

These values are based on level ground behind the Burr wall. For resistance to sliding, it is proposed to found on the GRAVEL. Coefficient of friction ($\mu = 0.75 \tan \phi'$) assumed $\phi' = 30^\circ$ therefore $\mu = 0.433$.

6. GEOTECHNICAL CONDITIONS

6.1. Acceptance of recommendations of the ground investigation report (references/dates) to be used in the design and reasons for any proposed changes

A ground investigation report has been commissioned for the site concerned and has been included in Appendix C of this document

The recommendations of the site investigation report have been accepted.

6.2. Summary of design for highway structure in the ground investigation report

The reinforced earth burr wall is to be designed bearing on to the undisturbed weak to moderately weak SANDSTONE/ MUDSTONE BEDROCK. A concrete foundation is only required under the blocks to provide a levelling pad and is not necessary under the reinforced earth, which it is anticipated will be competent in providing the support required for the structure with a minimum ground bearing pressure of 200kN/m². Any soft spots are to be removed and replaced with class 6F2/6F5 granular fill. If suitable material is not detected at founding level, the excavation shall be deepened and the difference in level made up with class 6F2/6F5 granular fill.

6.3. Differential settlement to be allowed for in the design of the structure

The wall is to be founded on the same strata along its full length, therefore significant differential settlements are not anticipated.

6.4. If the ground investigation report is not yet available, state when the results are expected and list the sources of information used to justify the preliminary choice of foundations

N/A

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7. CHECK

7.1. Proposed Category and Design Supervision Level

Category 1.

Design supervision level. DSL2.

7.2. If Category 3, name of proposed Independent Checker

N/A

7.3. Erection proposals or temporary works for which Types S and P Proposals will be required, listing structural parts of the permanent structure affected with reasons

N/A

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8. DRAWINGS AND DOCUMENTS

8.1. List of drawings (including numbers) and documents accompanying the submission

8.1.1. Drawings (See appendix B)

Reference	Title
8060_021_02H	External Works Plan
C005-5011 Rev D	Road 2 & HIGHWAY Burr Wall
SK24-5915-F1-01B	Vertica Macwall Plan
SK24-5915-F1-02B	Vertica Macwall Elevation
SK24-5915-F1-03B	Vertica Macwall Sections
SK24-5915-F1-04B	Vertica Macwall Sections

8.1.2. Documents (See appendix C)

Reference	Title
24-5915 QP06 REVA	MacWall Vertica Retaining Wall Specification.

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9. THE ABOVE IS SUBMITTED FOR ACCEPTANCE

Design Team Leader

Signed



Name

Dave Bass

Engineering Qualifications

BEng (Hons) CEng MIStructE

Name of Organisation

ARP Associates

Date

27/01/2026

Check Team Leader

Signed



Name

Andy Hawkin

Engineering Qualifications

BSc (Hons) IEng AMIStructE

Name of Organisation

ARP Associates

Date

27/01/2026

10. THE ABOVE IS REJECTED/AGREED SUBJECT TO THE AMENDMENTS AND CONDITIONS SHOWN BELOW (*)

Signed



Name

Farhad Khatibi

Position held

Bridges & Structures Manager

Engineering Qualifications

BSc (Hons) Civil Eng, MSc

TAA

Kirklees Council

Date

09/02/2026

For and on behalf of Kirklees Council

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(*)

- (i) Submission of satisfactory structural calculations for the design of new reinforced earth highway burr wall in compliance with the design parameters in the agreed AIP Rev 04.
 - (ii) Submission of satisfactory "Design and Check Certificate" (Category 1) in compliance with the agreed AIP Rev 04 for the new reinforced earth highway burr wall.
 - (iii) Submission of "Construction Compliance Certificate" and "As Built" drawings in accordance with CG 300- Technical approval of highway structures, upon the completion of works.
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APPENDIX A

LIST OF RELEVANT DESIGN DOCUMENTS

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TECHNICAL APPROVAL SCHEDULE (TAS)

Schedule of Documents Relating to Design of Highway Bridges and Structures

(All documents are taken to include revisions current as of May 2025)

Additional standards needed for a particular design should be added to the section at the bottom of the TAS.

The Designer is responsible for ensuring that the standards and references given in the schedule are correct and up to date. Tick all the documents used (✓)

Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	Eurocode 0	Basis of structural design		
✓	BS EN 1990:2002 +A1:2005	Eurocode 0: Basis of structural design	+A1:2005 Incorporating corrigenda December 2008 and April 2010	See CD 350 section 7 for additional guidance. This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1990:2023
	NA to BS EN 1990:2002 + A1:2005	UK National Annex to Eurocode 0 Basis of structural design	National Amendment No.1	See CD 350 section 7 for additional guidance.
	Eurocode 1	Actions on structures		
	BS EN 1991-1-1:2002	Eurocode 1: Actions on structures. General Actions. Densities, self-weight, imposed load for buildings	Corrigenda December 2004 and March 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1991-1-1:2025
	NA to BS EN 1991-1-1:2002	UK National Annex to Eurocode 1: Actions on structures. General Actions. Densities, self-weight, imposed load for buildings	Corrigenda July 2019	

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1991-1-3:2003 +A1:2015	Eurocode 1: Actions on structures. General Actions. Snow loads	+A1:2015 Incorporating corrigenda December 2004 and March 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1991-1-3:2025
	NA + A2:18 to BS EN 1991-1-3:2003+A1:2015	UK National Annex to Eurocode 1: Actions on structures. General Actions. Snow loads	+A2:2018 Incorporating corrigenda June 2007, December 2015 and October 2018	
	BS EN 1991-1-4:2005 +A1:2010	Eurocode 1: Actions on structures. General Actions. Wind actions	+A1:2010 Corrigenda July 2009 and January 2010	
	NA to BS EN 1991-1-4:2005 + A1:2010	UK National Annex to Eurocode 1: Actions on structures. General Actions. Wind actions	National Amendment No.1	
	BS EN 1991-1-5:2003	Eurocode 1: Actions on structures. General Actions. Thermal actions	Corrigenda December 2004 and March 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1991-1-5:2025
	NA to BS EN 1991-1-5:2003	UK National Annex to Eurocode 1: Actions on structures. General Actions. Thermal actions	-	
	BS EN 1991-1-6:2005	Eurocode 1: Actions on structures. General Actions. Actions during execution	Corrigenda July 2008, November 2012 and February 2013	
	NA to BS EN 1991-1-6:2005	UK National Annex to Eurocode 1: Actions on structures. General Actions. Actions during execution	-	

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1991-1-7:2006 +A1:2014	Eurocode 1: Actions on structures. General Actions. Accidental actions	+A1: 2014 Corrigendum February 2010	
	NA+A1 to BS EN 1991-1-7:2006+A1:2014	UK National Annex to Eurocode 1: Actions on structures. Part 1-7 : Accidental actions	+A1:2014 Incorporating corrigenda August 2014 and November 2015	See CD 350 for additional guidance.
	BS EN 1991-2:2003	Eurocode 1: Actions on structures. Traffic loads on bridges	Corrigenda December 2004 and February 2010	See CD 350 section 7 for additional guidance. This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1991-2:2023
	NA +A1:2020 to BS EN 1991-2:2003	UK National Annex to Eurocode 1: Actions on structures. Traffic loads on bridges	Corrigendum No.1 Amendment June 2020	See CD 350 section 7 for additional guidance.
	Eurocode 2	Design of concrete structures		
	BS EN 1992-1-1:2004 + A1:2014	Eurocode 2: Design of concrete structures– Part 1-1: General rules and rules for buildings	Incorporating corrigendum January 2008, November 2010 and January 2014	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1992-1-1:2023
	NA + A2:2014 to BS EN 1992-1-1:2004 + A1:2014	UK National Annex to Eurocode 2: Design of concrete structures – Part 1-1: General rules and rules for buildings		
	BS EN 1992-2:2005	Eurocode 2: Design of concrete structures – Part 2: Concrete bridges – Design and detailing rules	Corrigendum July 2008	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1992-1-1:2023

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	NA to BS EN 1992-2:2005	UK National Annex to Eurocode 2: Design of concrete structure – Part 2: Concrete bridges – Design and detailing rules	-	
	BS EN 1992-3:2006	Eurocode 2: Design of concrete structures – Part 3: Liquid retaining and containment structures		This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1992-1-1:2023
	NA to BS EN 1992-3:2006	UK National Annex to Eurocode 2: Design of concrete structures – Part 3: Liquid retaining and containment structures	-	
	BS EN 1992-4:2018	Eurocode 2: Design of concrete structures – Part 4: Design of fastenings for use in concrete		
	NA to BS EN 1992-4:2018	UK National Annex to Eurocode 2: Design of concrete structures – Part 4: Design of fastenings for use in concrete		
	Eurocode 3	Design of steel structures		
	BS EN 1993-1-1:2005 + A1:2014	Eurocode 3: Design of steel structures – Part 1-1 General rules and rules for buildings	Corrigenda February 2006 and April 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1993-1-1:2022
	NA + A1:2014 to BS EN 1993-1-1:2005 + A1:2014	UK National Annex to Eurocode 3: Design of steel structures – Part 1-1 General rules and rules for buildings	-	

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1993-1-3:2006	Eurocode 3: Design of steel structures – Part 1-3 General rules – Supplementary rules for cold-formed members and sheeting	Corrigendum November 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1993-1-3:2024
	NA to BS EN 1993-1-3:2006	UK National Annex to Eurocode 3: Design of steel structures – Part 1-3 Supplementary rules for cold-formed members and sheeting	-	
	BS EN 1993-1-4:2006 + A2:2020	Eurocode 3: Design of steel structures – Part 1-4 General rules – Supplementary rules for stainless steels	+ A1:2015 Amendment No. 1 + A2:2020 Amendment No. 2	Supersedes BS EN 1993-1-4:2006 + A1:2015
	NA+A1:15 to BS EN 1993-1-4:2006+A1:2015	UK National Annex to Eurocode 3: Design of steel structures – Part 1-4 Supplementary rules for stainless steels	+ A1:2015 Amendment No. 1	
	BS EN 1993-1-5:2006+A2:2019	Eurocode 3: Design of steel structures – Part 1-5 Plated structural elements	Corrigendum April 2009, +A1:2017 Amendment No. 2, +A2:2019	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1993-1-5:2024
	NA+A1:2016 to BS EN 1993-1-5:2006	UK National Annex to Eurocode 3: Design of steel structures – Part 1-5 Plated structural elements	+ A1:2016 Amendment No. 1	
	BS EN 1993-1-6:2007+ A1:2017	Eurocode 3: Design of steel structures – Part 1-6 Strength and stability of shell structures	+ A1:2017 Amendment No. 1	

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1993-1-7:2007	Eurocode 3: Design of steel structures – Part 1-7 Plated structures subject to out of plane loading	Corrigendum April 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1993-1-7:2025
	BS EN 1993-1-8:2005	Eurocode 3: Design of steel structures – Part 1-8 Design of joints	Corrigenda December 2005, September 2006, July 2009 and August 2010	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1993-1-8:2024
	NA to BS EN 1993-1-8:2005	UK National Annex to Eurocode 3: Design of steel structures – Part 1-8 Design of joints	-	
	BS EN 1993-1-9:2005	Eurocode 3: Design of steel structures – Part 1-9 Fatigue	Corrigenda December 2005, September 2006 and April 2009	
	NA to BS EN 1993-1-9:2005	UK National Annex to Eurocode 3: Design of steel structures – Part 1-9 Fatigue	-	
	BS EN 1993-1-10:2005	Eurocode 3: Design of steel structures – Part 1-10 Material toughness and through-thickness properties	Corrigenda December 2005, September 2006 and March 2009	
	NA to BS EN 1993-1-10:2005	UK National Annex to Eurocode 3: Design of steel structures – Part 1-10 Material toughness and through thickness properties	-	
	BS EN 1993-1-11:2006	Eurocode 3: Design of steel structures – Part 1-11 Design of structures with tension components	Corrigendum April 2009	

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	NA to BS EN 1993-1-11:2006	UK National Annex to Eurocode 3: Design of steel structures – Part 1-11 Design of structures with tension components	-	
	BS EN 1993-1-12:2007	Eurocode 3: Design of steel structures – Part 1-12 Additional rules for the extension of EN 1993 up to steel grades S 700	Corrigendum April 2009	
	NA to BS EN 1993-1-12:2007	UK National Annex to Eurocode 3: Design of steel structures – Part 1-12 Additional rules for the extension of EN 1993 up to steel grades S 700	-	
	BS EN 1993-2:2006	Eurocode 3: Design of steel structures – Part 2 Steel bridges	Corrigendum July 2009	
	NA + A1:2012 to BS EN 1993-2:2006	UK National Annex to Eurocode 3: Design of steel structures – Part 2 Steel bridges	+ A1:2012	
	BS EN 1993-5:2007	Eurocode 3: Design of steel structures – Part 5 Piling	Corrigendum May 2009	
	NA + A1:2012 to BS EN 1993-5:2007	UK National Annex to Eurocode 3: Design of steel structures – Part 5 Piling	+ A1:2012	
	Eurocode 4	Design of composite steel and concrete structures		
	BS EN 1994-1-1:2004	Eurocode 4: Design of composite steel and concrete structures – Part 1-1 General rules and rules for buildings	Corrigendum April 2009	
	NA to BS EN 1994-1-1:2004	UK National Annex to Eurocode 4: Design of composite steel and concrete structures – Part 1-1 General rules and rules for buildings	-	

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1994-2:2005	Eurocode 4: Design of composite steel and concrete structures – Part 2 General rules and rules for bridges	Corrigendum July 2008	
	NA to BS EN 1994-2:2005	UK National Annex to Eurocode 4: Design of composite steel and concrete structures – Part 2 General rules and rules for bridges	-	
	Eurocode 5	Design of timber structures		
	BS EN 1995-1-1:2004 + A2:2014	Eurocode 5: Design of timber structures – Part 1-1 General – common rules and rules for buildings	+ A2:2014 Incorporating corrigendum June 2006	
	NA to BS EN 1995-1-1:2004 + A2:2014	UK National Annex to Eurocode 5: Design of timber structures – Part 1-1 General – common rules and rules for buildings	+ A2:2014	
	BS EN 1995-2:2004	Eurocode 5: Design of timber structures – Part 2 Bridges	-	
	NA to BS EN 1995-2:2004	UK National Annex to Eurocode 5: Design of timber structures – Part 2 Bridges	-	
	Eurocode 6	Design of masonry structures		
	BS EN 1996-1-1:2005+A1:2012	Eurocode 6: Design of masonry structures – Part 1-1 General rules for reinforced and unreinforced masonry structures	+A1:2012 Corrigenda February 2006 and July 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1996-1-1:2022
	NA to BS EN 1996-1-1:2005 +A1:2012	UK National Annex to Eurocode 6: Design of masonry structures – Part 1-1 General rules for reinforced and unreinforced masonry structures	+A1:2012	This document is to be used until 30 March 2028. After which it will be superseded by NA to BS EN 1996-1-1:2022

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Eurocodes and associated UK National Annexes				
Used (✓)	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1996-2:2006	Eurocode 6: Design of masonry structures – Part 2 Design considerations, selection of materials and execution of masonry	Corrigendum September 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1996-2:2024
	NA to BS EN 1996-2:2006	UK National Annex to Eurocode 6: Design of masonry structures – Part 2 Design considerations, selection of materials and execution of masonry	Corrigendum No.1	
	BS EN 1996-3:2006	Eurocode 6: Design of masonry structures – Part 3 Simplified calculation methods for unreinforced masonry structures	Corrigendum October 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1996-3:2023
	NA +A1:2014 to BS EN 1996-3:2006	UK National Annex to Eurocode 6: Design of masonry structures – Part 3 Simplified calculation methods for unreinforced masonry structures	+A1:2014	
	Eurocode 7	Geotechnical design		
	BS EN 1997-1:2004+A1:2013	Eurocode 7: Geotechnical design – Part 1 General rules	+A1:2013 Corrigendum February 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1990:2023, BS EN 1997-1:2024, BS EN 1997-3:2025

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	NA+A2:2022 to BS EN 1997-1:2004+A1:2013	UK National Annex to Eurocode 7: Geotechnical design – Part 1 General rules	+A1:2013 Incorporating Corrigendum No.1, Amendment 1 – July 2014 and Amendment 2 - 2022	Supersedes NA+A1:2014 to BS EN 1997-1:2004+A1:2013
	BS EN 1997-2:2007	Eurocode 7: Geotechnical design – Part 2 Ground investigation and testing	Corrigendum June 2010	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1997-3:2025, BS EN 1997-2:2024
	NA to BS EN 1997-2:2007	UK National Annex to Eurocode 7: Geotechnical design – Part 2 Ground investigation and testing	-	This document is to be used until 30 March 2028. After which it will be superseded by NA to BS EN 1997-2:2024
	Eurocode 8	Design of structures for earthquake resistance		
	BS EN 1998-1:2004 + A1:2013	Eurocode 8: Design of structures for earthquake resistance – Part 1 General rules, seismic actions and rules for buildings	Corrigendum June 2009, January 2011 and March 2013	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1998-1-1:2024
	NA to BS EN 1998-1:2004	UK National Annex to Eurocode 8: Design of structures for earthquake resistance – Part 1 General rules, seismic actions and rules for buildings	-	
	BS EN 1998-2:2005+A2:2011	Eurocode 8: Design of structures for earthquake resistance – Part 2 Bridges	Corrigenda February 2010 and February 2012	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1998-2:2025

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	NA to BS EN 1998-2:2005	UK National Annex to Eurocode 8: Design of structures for earthquake resistance – Part 2 Bridges	-	
	BS EN 1998-5:2004	Eurocode 8: Design of structures for earthquake resistance – Part 5 Foundations, retaining structures and geotechnical aspects	-	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1998-5:2024
	NA to BS EN 1998-5:2004	UK National Annex to Eurocode 8: Design of structures for earthquake resistance – Part 5 Foundations, retaining structures and geotechnical aspects	-	
	Eurocode 9	Design of aluminium structures		
	BS EN 1999-1-1:2007 + A2:2013	Eurocode 9: Design of aluminium structures– Part 1-1 General structural rules	+ A2:2013 Incorporating corrigendum March 2014	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1999-1-1:2023
	NA to BS EN 1999-1-1:2007 + A1:2009	UK National Annex to Eurocode 9: Design of aluminium structures – Part 1-1 General structural rules	National Amendment No.1 Corrigendum No.1	
	BS EN 1999-1-3:2007 + A1:2011	Eurocode 9: Design of aluminium structures – Part 1-3 Structures susceptible to fatigue	+ A1:2011	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1999-1-3:2023
	NA to BS EN 1999-1-3:2007 + A1:2011	UK National Annex to Eurocode 9: Design of aluminium structures – Part 1-3 Structures susceptible to fatigue	+ A1:2011	

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Used (✓) Eurocodes and associated UK National Annexes				
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1999-1-4:2007 +A1:2011	Eurocode 9: Design of aluminium structures – Part 1-4 Cold formed structural sheeting	+ A1:2011 Corrigendum November 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1999-1-4:2023
	NA to BS EN 1999-1-4:2007	UK National Annex to Eurocode 9: Design of aluminium structures – Part 1-4 Cold formed structural sheeting	-	

Used (✓) Bsi Published Documents			
<i>For guidance only unless clauses are otherwise specified in CD 350 Appendix A.</i>			
	Published Document reference	Title	Notes
	PD 6687-1:2020	Background paper to the UK National Annexes to BS EN 1992-1 and BS EN 1992-3	Supersedes PD 6687-1:2010 See CD 350 clauses 3.6, 4.1, 4.2 and Appendix A for additional guidance. Clause 3.6 in CD 350 refers to clause 2.5 in PD 6687-1, this is now clause 4.5 in PD 6687-1 Clause 4.2 in CD 350 refers to clause 2.22 in PD 6687-1, this is now clause 4.21.4 in PD 6687-1
	PD 6687-2:2008	Recommendations for the design of structures to BS EN 1992-2:2005	See CD 350 clauses 4.1, 4.2 and Appendix A for additional guidance.
	PD 6688-1-1:2011	Recommendations for the design of structures to BS EN 1991-1-1	See CD 350 Appendix A for additional guidance.
	PD 6688-1-4:2015	Background paper to the UK National Annex to BS EN 1991-1-4	See CD 350 Appendix A for additional guidance.
	PD 6688-1-7:2009 +A1:2014	Recommendations for the design of structures to BS EN 1991-1-7	See CD350 clause 3.7 and Appendix B for additional guidance.
	PD 6688-2:2011	Recommendations for the design of structures to BS EN 1991-2	See CD 350 Appendix A for additional guidance.

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Used (✓)	Bsi Published Documents <i>For guidance only unless clauses are otherwise specified in CD 350 Appendix A.</i>		
	Published Document reference	Title	Notes
	PD 6694-1:2011 + A1:2020	Recommendations for the design of structures subject to traffic loading to BS EN 1997-1	Incorporating Corrigendum 1 Jan 2022 & Corrigendum 2 Jul 2023 See CD 350 Appendix A for additional guidance.
	PD 6695-1-9:2008	Recommendations for the design of structures to BS EN 1993-1-9	See CD 350 Appendix A for additional guidance.
	PD 6695-1-10:2009	Recommendations for the design of structures to BS EN 1993-1-10	See CD 350 Appendix A for additional guidance.
	PD 6695-2:2008 + A1:2012 Incorporating Corrigendum No.1	Recommendation for the design of bridges to BS EN 1993	See CD 350 Appendix A for additional guidance.
	PD 6696-2:2007 + A1:2012	Background paper to BS EN 1994-2 and the UK National Annex to BS EN 1994-2	See CD 350 Appendix A for additional guidance.
	PD 6698:2009	Recommendations for the design of structures for earthquake resistance to BS EN 1998	See CD 350 section 7 for additional guidance.
	PD 6702-1:2009+A1:2019	Structural use of aluminium. Recommendations for the design of aluminium structures to BS EN 1999	Amended 31 May 2019
	PD 6703:2009	Structural bearings – Guidance on the use of structural bearings	
	PD 6705-2:2020	Structural use of steel and aluminium. Execution of steel bridges conforming to BS EN 1090-2. Guide	Replaces PD 6705-2:2010 + A1:2013
	PD 6705-3:2009	Recommendations on the execution of aluminium structures to BS EN 1090-3	

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Used (✓)	Execution Standards referenced in British Standards or Eurocodes		
	Execution Standard reference	Title	Notes
	BS EN 1090-1:2009+A1:2011	Execution of steel structures and aluminium structures - Part 1: Requirements for conformity assessment of structural components	
	BS EN 1090-2:2018+A1:2024	Execution of steel structures and aluminium structures. Technical requirements for the execution of steel structures	Supersedes BS EN 1090-2:2018
	BS EN 1090-3:2019	Execution of steel structures and aluminium structures – Part 3: Technical requirements for aluminium structures	Supersedes BS EN 1090-3:2008
	BS EN 13670:2009 Incorporating corrigenda October 2015 and November 2015	Execution of concrete structures	

Used (✓)	Product Standards referenced in British Standards or Eurocodes		
	Product Standard reference	Title	Notes
	BS EN 206:2013+A2:2021	Concrete – Specification, performance, production and conformity	Supersedes BS EN 206:2013+A1:2016
	BS EN 1317-1:2010	Road Restraint Systems – Part 1 – Terminology and general criteria for test methods	
	BS EN 1317-2:2010	Road Restraint Systems – Part 2 – Performance classes, impact test acceptance criteria and test methods for safety barriers.	
	BS EN 1317-3:2010	Road Restraint Systems – Part 3 – Performance classes, impact test acceptance criteria and test methods for crash cushions.	
	DD ENV 1317-4:2002	Road Restraint Systems – Part 4 – Performance classes, impact test acceptance criteria and test methods for terminals and transitions of safety barriers.	<i>Draft BS EN 1317-4 for public comment published in June 2012</i>

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Used (✓)	Product Standards referenced in British Standards or Eurocodes		
	Product Standard reference	Title	Notes
	BS EN 1317-5:2007+A2:2012	Road Restraint Systems – Part 5 - Product requirements and evaluation of conformity for vehicle restraint systems	Incorporating corrigendum August 2012 <i>Draft prEN 1317-5 for public comment published in December 2013</i>
	PD CEN/TR 16949:2016	Road Restraint System – Pedestrian restraint system - Pedestrian parapets	<i>Bsi Published Document / CEN Technical Report published in July 2016</i> <i>(This document should not be used. The requirements of BS 7818:1995 apply.)</i>
	PD CEN/TS 1317 7:2023	Road restraint systems - Part 7: Performance characterisation and test methods for terminals of safety barriers	<i>Replaces Draft prEN 1317-7</i> <i>(All terminals should be in accordance with this document or ENV1317-4.)</i>
	PD CEN/TS 17342:2019	Road restraint systems - Motorcycle road restraint systems which reduce the impact severity of motorcyclist collisions with safety barriers	<i>Replaces PD CEN/TS 1317-8:2012</i> <i>(This document should not be used.)</i>
	PD CEN/TR 17081:2018	Design of fastenings for use in concrete – Plastic design of fastenings with headed and post-installed fasteners	
	BS EN 1337-1:2000	Structural bearings – Part 1: General Design Rules	
	BS EN 1337-2:2004	Structural bearings – Part 2: Sliding elements	
	BS EN 1337-3:2005	Structural bearings – Part 3: Elastomeric bearings	
	BS EN 1337-4:2004	Structural bearings – Part 4: Roller bearings	Corrigendum No.1 March 2007
	BS EN 1337-5:2005	Structural bearings – Part 5: Pot bearings	
	BS EN 1337-6:2004	Structural bearings – Part 6: Rocker bearings	
	BS EN 1337-7:2004	Structural bearings – Part 7: Spherical and cylindrical PTFE bearings	

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Used (✓)	Product Standards referenced in British Standards or Eurocodes		
	Product Standard reference	Title	Notes
	BS EN 1337-8:2007	Structural bearings – Part 8: Guide bearings and restraint bearings	
	BS EN 1337-9:1998	Structural bearings – Part 9: Protection	
	BS EN 1337-10:2003	Structural bearings – Part 10: Inspection and maintenance	Corrigendum No.1 November 2003
	BS EN 1337-11:1998	Structural bearings – Part 11: Transport, Storage and Installation.	
	BS EN 10025-1:2004	Hot rolled products of structural steels Part 1: General technical delivery conditions.	
	BS EN 10025-2:2019	Hot rolled products of structural steels Part 2: Technical delivery conditions for non-alloy structural steels.	Supersedes BS EN 10025-1:2004
	BS EN 10025-3:2019	Hot rolled products of structural steels Part 3: Technical delivery conditions for normalized/normalized rolled weldable fine grain structural steels.	Supersedes BS EN 10025-3:2004
	BS EN 10025-4:2019+A1:2022	Hot rolled products of structural steels Part 4: Technical delivery conditions for thermomechanical rolled weldable fine grain structural steels.	Supersedes BS EN 10025-4:2019
	BS EN 10025-5:2019	Hot rolled products of structural steels – Part 5: Technical delivery conditions for structural steels with improved atmospheric corrosion resistance	Supersedes BS EN 10025-5:2004
	BS EN 10025-6:2019+A1:2022	Hot rolled products of structural steels – Part 6: Technical delivery conditions for flat products of high yield strength structural steels in the quenched and tempered condition.	Supersedes BS EN 10025-6:2019
	BS EN 10080:2005	Steel for the reinforcement of concrete – Weldable reinforcing steel - General	
	BS EN 10210-1:2006	Hot finished structural hollow sections of non-alloy and fine grain steels – Part 1: Technical delivery conditions	
	BS EN 10210-2:2019	Hot finished structural hollow sections – Part 2: Tolerances, dimensions and sectional properties	Supersedes BS EN 10210-2:2006

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Used (✓)	Product Standards referenced in British Standards or Eurocodes		
	Product Standard reference	Title	Notes
	BS EN 10248-1:2023	Hot rolled sheet piling of non alloy steels. Technical delivery conditions	Supersedes BS EN 10248-1:1996
	BS EN 10248-2:2024	Hot rolled sheet piling of non alloy steels. Tolerances on shape and dimensions	Supersedes BS EN 10248-2:1996
	BS EN 12063:2024	Execution of special geotechnical work. Sheet pile walls.	Supersedes BS EN 12063:1999
	BS EN 13369:2023	Common rules for precast concrete products	Supersedes BS EN 13369:2018
	BS EN 14388:2005	Road traffic noise reducing devices	There is a 2015 version, however the 2015 version is not harmonised.
	BS EN 15050:2007 + A1:2012	Precast concrete products – Bridge elements	See CD 350 clause 3.8.1 for additional guidance.
	BS EN 15258:2008	Precast concrete products - Retaining wall elements	

Used (✓)	British Standards		
	British Standard reference	Title	Notes
	BS 4449:2005+A3:2016	Steel for the reinforcement of concrete	No longer covers plain round bar. (See BS4482 up to 12mm dia, see BS EN 10025-1 for larger sizes and dowels. See BS EN 13877-3 for dowel bars in concrete pavements.)
	BS 5896:2012	Specification for high tensile steel wire and strand for the prestressing of concrete	

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Used (✓)	British Standards		
	BS 7818:1995	Specification for pedestrian restraint systems in metal	Incorporating Corrigendum No.1 May 2004 and Corrigendum No.2 September 2006 Currently the requirements of BS 7818:1995 are to be used instead of PD CEN/TR 16949:2016
	BS 8002:2015	Code of practice for earth retaining structures	
	BS 8004:2015 +A1 2020	Code of practice for foundations	Amendment +A1:2020
	BS 8006-1:2010+A1:2016	Code of practice for strengthened/reinforced soils and other fills	
	BS 8500-1:2023	Concrete – Complementary British Standard to BS EN 206: Method of specifying and guidance for the specifier.	Supersedes BS 8500-1:2015+A2:2019
	BS 8500-2:2023	Concrete – Complementary British Standard to BS EN 206: Specification for constituent materials and concrete.	Supersedes BS 8500-2:2015+A2:2019
	BS 8666:2020	Scheduling, dimensioning, bending and cutting of steel reinforcement for concrete	Supersedes BS 8666:2005

Used (✓)	The Manual Contract Document for Highway Works (MCHW)		
	MCHW reference	Title	Notes
	MCHW Volume 1: October 2022	Specification for Highway Works	<i>Specification compliant with the execution standards must be used. A Departure is necessary for the parts where a compliant revision has not been published. Amendments October 2022 Supersedes April 2022 version</i>
	MCHW Volume 2: October 2022	Notes for guidance on the Specification for Highway Works	<i>Notes for guidance compliant with the execution standards must be used. A Departure is necessary for the parts where a compliant revision has not been published. Amendments October 2022 Supersedes November 2021 version</i>
	MCHW Volume 3: February 2017	Highway Construction Details	

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Used (✓)	The Design Manual for Roads and Bridges (DMRB)		
	DMRB reference	Title	Notes
	GG 101 Revision 0.1.0	Introduction to the Design Manual for Roads and Bridges	Replaces GG 101 Revision 0
	GG 102 Revision 0	Quality Management Systems for Highway Design	Replaces GD 02/16
	GG 103 Revision 0	Introduction and general requirements for sustainable development and design	
	GG 104 Revision 0.1.0	Requirements for Safety Risk Assessment	Replaces GG 104 Revision 0
	GG 184 Revision 0	Specification for the use of Computer Aided Design	Replaces IAN 184/16
	CG 300 Revision 0.2.0	Technical approval of highway structures	Supersedes CG 300 Revision 0.1.0
	CG 302 Revision 0	As-built, operational and maintenance records for highway structures	Supersedes BD 62/07
	CG 303 Revision 0	Quality assurance scheme for paints and similar protective coatings	Supersedes BD 35/14
	CG 305 Revision 0	Identification marking of highway structures	Supersedes BD 45/93
	CG 501 Revision 2	Design of highway drainage systems	Supersedes HD 33/16, TA 80/99
	CD 127 Revision 1.0.1	Cross-sections and headrooms	Replaces TD 27/05 and TD 70/08
	CD 350 Revision 0	The design of highway structures	Supersedes BD 100/16, BA 57/01, BD 57/01 and IAN 124/11
	CD 351 Revision 0	The design and appearance of highway structures	Supersedes BA 41/98
	CD 352 Revision 0.0.1	Design of road tunnels	Supersedes CD 352 Revision 0
	CD 353 Revision 0	Design criteria for footbridges	Supersedes BD 29/17
	CD 354 Revision 1.1.0	Design of minor structures	Supersedes CD 354 Revision 1
	CD 355 Revision 0	Application of whole-life costs for design and maintenance of highway structures	Replaces BD 36/92 and BA 28/92
	CD 356 Revision 1	Design of highway structures for hydraulic action	Supersedes BA 59/94
	CD 357 Revision 1	Bridge expansion joints	Replaces BD 33/94, BA 26/94, IAN 168/12 and IAN 169/12
	CD 358 Revision 2.4.0	Waterproofing and surfacing of concrete bridge decks	Supersedes CD 358 Revision 2.3.0
	CD 359 Revision 0	Design requirements for permanent soffit formwork	Supersedes BA 36/90 and IAN 131/11
	CD 360 Revision 2	Use of compressive membrane action in bridge decks	Supersedes BD 81/02
	CD 361 Revision 0	Weathering steel for highway structures	Supersedes BD 7/01
	CD 362 Revision 1	Enclosure of bridges	Replaces BD 67/96 and BA 67/96
	CD 363	Design rules for aerodynamic effects	Replaces BD 49/01

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Used (✓)	The Design Manual for Roads and Bridges (DMRB)		
	DMRB reference	Title	Notes
	Revision 0	on bridges	
	CD 364 Revision 0	Formation of continuity joints in bridge decks	Replaces BA 82/00
	CD 365 Revision 1	Portal and cantilever signs/signals gantries	Replaces BD 51/14, IAN 193/16, BE 7/04
	CD 366 Revision 0	Design criteria for collision protection beams	Replaces BD 65/14
	CD 367 Revision 0	Treatment of existing structures on highways widening schemes	Replaces BD 95/07
	CD 368 Revision 0	Design of fibre reinforced polymer bridges and highway structures	Replaces BD 90/05
	CD 369 Revision 0	Surface protection for concrete highway structures	Replaces BA 85/04
	CD 371 Revision 0	Strengthening highway structures using fibre-reinforced polymers and externally bonded steel plates	Replaces BD 85/08, BD 84/02
	CD 372 Revision 0	Design of post-installed anchors and reinforcing bar connections in concrete	Supersedes IAN 104/15
	CD 373 Revision 0	Impregnation of reinforced and prestressed concrete highway structures using hydrophobic pore-lining impregnants	Supersedes BD 43/03
	CD 374 Revision 0	The use of recycled aggregates in structural concrete	Supersedes BA 92/07
	CD 375 Revision 1	Design of corrugated steel buried structures	Supersedes BD 12/01
	CD 376 Revision 0	Unreinforced masonry arch bridges	Replaces BD 91/04
	CD 377 Revision 4	Requirements for road restraint systems	Supersedes TD 19/06
	CD 622 Revision 1	Managing geotechnical risk	Replaces HD 22/08, BD 10/97 and HA 120/08
	CS 461 Revision 0	Assessment and upgrading of in-service parapets	Supersedes BA 37/92 and IAN 97/07
	CS 462 Revision 0	Repair and management of deteriorated concrete highway structures	Supersedes BA 35/90 and BA 52/94
	GD 304 Revision 2	Designing health and safety into maintenance	Replaces IAN 69/15
	LA 104 Revision 1	Environmental assessment and monitoring	Supersedes HA 205/08, HD 48/08, IAN 125/15, and IAN 133/10
	LA 106 Revision 1	Cultural heritage assessment	Supersedes HA 208/07, HA 60/92, HA 75/01
	LA 110 Revision 0	Material assets and waste	Supersedes IAN 153/11
	LA 113 Revision 1	Road drainage and the water environment	Supersedes HD 45/09
	LD 119 Revision 0	Roadside environmental mitigation and enhancement	Formerly LA 119, which superseded HA 65/94 and HA 66/95

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Interim Advice Notes			
	IAN reference	Title	Notes
	IAN 105/08	Implementation of construction (design and management) 2007 and the withdrawal of SD 10 and SD 11	This document has been withdrawn without replacement.

Used (✓)	Miscellaneous		
	Standard reference	Title	Notes
	CIRIA C543	Bridge Detailing Guide	
	CIRIA C686	Safe Access for Maintenance and Repair	
	CIRIA C760	Guidance on embedded retaining wall design	
	CIRIA C766	Control of cracking caused by restrained deformation in concrete	Supersedes C660
	CIRIA C777	General fixings – guidance on selection and whole-life management	

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Used (✓)	Miscellaneous		
	Standard reference	Title	Notes
	Department for Transport - Design & Maintenance Guidance for Local Authority Roads	Provision of Road Restraint Systems on Local Authority Road	Published October 2011
	Department for Transport	Guidance on the Design, Assessment and Strengthening of Masonry Parapets on Highway Structures	Published 2012

Additional Standards		
Additional standards needed for a particular design should be listed here.		
Reference	Title	Notes

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APPENDIX B

DRAWINGS

Scheme title: Off A629 Penistone Road, Fenay Bridge
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APPENDIX C

ADDITIONAL INFORMATION