

A12 Chelmsford to A120 widening scheme

TR010060

2.12 STRUCTURES ENGINEERING DRAWINGS AND SECTIONS PART 1

APFP Regulation 5(2)(o), 5(2)(p) and 6(2)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009

Volume 2

August 2022

Infrastructure Planning

Planning Act 2008

A12 Chelmsford to A120 widening scheme

Development Consent Order 202[]

STRUCTURES ENGINEERING DRAWINGS AND SECTIONS PART 1

Regulation Reference	Regulation 5(2)(o), 5(2)(p) and 6(2)
Planning Inspectorate Scheme Reference	TR010060
Application Document Reference	TR010060/APP/2.12
Author	A12 Project Team, National Highways

Version	Date	Status of Version
Rev 1	August 2022	DCO Application

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1 Introduction

1.1 General

- 1.1.1 National Highways (the Applicant) has submitted an application under section 37 of the Planning Act 2008 (the “2008 Act”) to the Secretary of State for Transport via the Planning Inspectorate (the Inspectorate) for an order to grant development consent for the A12 Chelmsford to A120 widening scheme (the proposed scheme).
- 1.1.2 The Structures Engineering Drawings and Sections (‘these Plans’) have been prepared to accompany the application for a Development Consent Order (DCO), made by the Applicant to the Secretary of State for Transport (SoS) via the Planning Inspectorate.
- 1.1.3 The proposed scheme comprises improvements to the A12 between junction 19 (Boreham interchange) and junction 25 (Marks Tey interchange), a distance of approximately 24km, or 15 miles. The proposed scheme involves widening the A12 to three lanes throughout (where it is not already three lanes) with a bypass between junctions 22 and 23 and a second bypass between junctions 24 and 25. It also includes safety improvements, including closing off existing private and local direct accesses onto the main carriageway, and providing alternative provision for walkers, cyclists and horse riders (WCH) to existing routes along the A12, which would be removed. A detailed description of the proposed scheme can be found in Chapter 2 of the Environmental Statement [TR010060/APP/6.1].
- 1.1.4 These Plans comprise part of the DCO application documentation and are included in compliance with Regulations 5(2)(o), 5(2)(p) and 6(2) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (‘the 2009 Regulations’) which requires:
- ‘5(2)(o) any other plans, drawings and sections necessary to describe the proposals for which development consent is sought, showing details of design, external appearance, and the preferred layout of buildings or structures, drainage, surface water management, means of vehicular and pedestrian access, any car parking to be provided, and means of landscaping.’*
- ‘5(2)(p) any of the documents prescribed by Regulation 6 which are relevant to the particular project’*
- ‘6(2) if the application is for highway related development or for the construction or alteration of a railway, it must be accompanied by section drawings to suitable horizontal and vertical scales which show, by reference to Ordnance Survey or Chart datum –*
- (a) The levels of the proposed works, including in particular and where relevant*
- (i) ground levels;*
- (ii) the height of every proposed bridge, viaduct, aqueduct,*

- embankment and elevated guideway;*
- (iii) the depth of every proposed cutting and tunnel;*
- (iv) the levels of the bed of any tidal waters or inland waterway in which it is proposed that any works should be situated;*
- (v) the height of every structure or device (including a cable, but not catenary and related equipment) intended to be erected above, on or below the surface of, or on or beneath the bed of tidal water or an inland waterway; and*
- (vi) drainage outfall details for highways;*
- (b) a cross section of every intended tunnel and any altered gradient of a carriageway or a way forming part of a guided transport system on either side of every level crossing, bridge, tunnel or underpass which would carry the carriageway or way through which it would pass'.*

1.1.5 These Plans are also being submitted under Regulation 5(4) of the 2009 Regulations which states:

'Where a plan comprises three or more separate sheets a key plan must be provided showing the relationship between the different sheets.'

1.1.6 As these Plans are part of the DCO application documentation, they should be read alongside (and are informed by) the other Application Documents, in particular, the draft DCO [TR010066/APP/3.1], the Works Plans [TR010066/APP/2.2] and the Engineering Section Drawings [TR010066/APP/2.13].

1.1.7 Where dimensions for verges, hard strips, central reserves and the carriageway are not shown on these Plans, they will be settled at detailed design. The dimensions of elements within the sections will accord with the preliminary scheme design as shown in these Plans.

2 Schedule of plans included in this Application Document

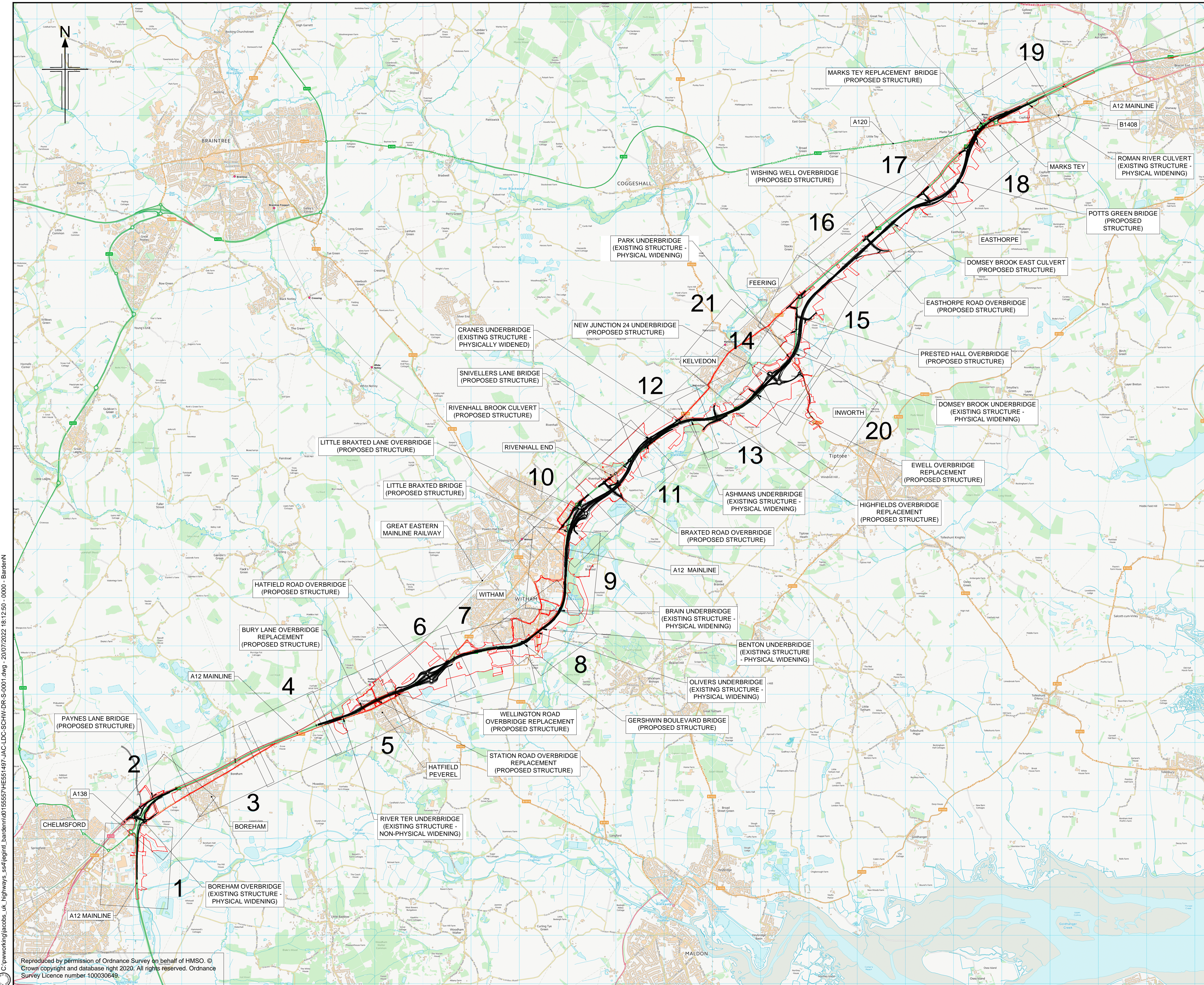
Drawing number	Drawing title	Revision
PART 1		
HE551497-JAC-LDC-SCHW-DR-S-0000	Structures Engineering Drawings and Sections Key Plan	P01
PART 2		
HE551497-JAC-LDC-SCHW-DR-S-0001	Structures Engineering Drawings and Sections Boreham Overbridge – Work No. 1(B) – Ch. 10865 (Existing Structure – Physical Widening) Sheet 01 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0002	Structures Engineering Drawings and Sections Paynes Lane Bridge – Work No. 5 – Ch. 11355 (Proposed Structure) Sheet 02 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0003	Structures Engineering Drawings and Sections River Ter Underbridge – Work No. 12(A) – Ch. 15635 (Existing Structure – Non-Physical Widening) Sheet 03 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0004	Structures Engineering Drawings and Sections Bury Lane Overbridge Replacement – Work No. 9 – Ch. 16095 (Proposed Structure) Sheet 4 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0005	Structures Engineering Drawings and Sections Station Road Overbridge Replacement – Work No. 10 – Ch. 16432 (Proposed Structure) Sheet 5 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0006	Structures Engineering Drawings and Sections Wellington Road Overbridge Replacement – Work No. 18(B) – Ch. 16845 (Proposed Structure) Sheet 6 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0007	Structures Engineering Drawings and Sections Hatfield Road Overbridge – Work No. 18(A) – Ch. 17613 (Proposed Structure) Sheet 7 of 30	P01

STRUCTURES ENGINEERING DRAWINGS AND SECTIONS PART 1

Drawing number	Drawing title	Revision
HE551497-JAC-LDC-SCHW-DR-S-0008	Structures Engineering Drawings and Sections Gershwin Boulevard Bridge – Work No. 27 – Ch. 20150 (Proposed Structure) Sheet 8 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0009	Structures Engineering Drawings and Sections Olivers Underbridge – Work No. 24(C) – Ch. 20505 (Existing Structure – Physical Widening) Sheet 09 of 30	P01
HE551497-JAC-SBR-SCHW-DR-S-00010	Structures Engineering Drawings and Sections Benton Underbridge – Work No. 24(D) – Ch. 20640 (Existing Structure – Physical Widening) Sheet 10 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0011	Structures Engineering Drawings and Sections Brain Underbridge – Work No. 24(E) – Ch. 21170 (Existing Structure – Physical Widening) Sheet 11 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0012	Structures Engineering Drawings and Sections Little Braxted Bridge – Work No. 30 – Ch. 22800 (Proposed Structure) Sheet 12 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0013	Structures Engineering Drawings and Sections Little Braxted Lane Overbridge – Work No. 32(A) – Ch. 23341 (Proposed Structure) Sheet 13 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-00014	Structures Engineering Drawings and Sections Braxted Road Overbridge – Work No. 37(D) – Ch. 24080 (Proposed Structure) Sheet 14 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0015	Structures Engineering Drawings and Sections Rivenhall Brook Culvert – Work No. 42 – Ch. 24685 (Proposed Structure) Sheet 15 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0016	Structures Engineering Drawings and Sections Snivellers Lane Bridge – Work No. 53 – Ch. 25400 (Proposed Structure) Sheet 16 of 30	P01

Drawing number	Drawing title	Revision
HE551497-JAC-LDC-SCHW-DR-S-0017	Structures Engineering Drawings and Sections Cranes Underbridge – Work No. 45(A) – Ch. 26110 (Existing Structure – Physical Widening) Sheet 17 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0018	Structures Engineering Drawings and Sections Ashmans Underbridge – Work No. 45(A) – Ch. 26370 (Existing Structure – Physical Widening) Sheet 18 of 30	P01
HE551497-JAC-LDC-SCHW - DR-S-0019	Structures Engineering Drawings and Sections Highfields Overbridge Replacement – Work No. 55(B) – Ch. 26885 (Proposed Structure) Sheet 19 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0020	Structures Engineering Drawings and Sections Ewell Overbridge Replacement – Work No. 76 – Ch. 30770 (Proposed Structure) Sheet 20 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0021	Structures Engineering Drawings and Sections New Junction 24 Underbridge – Work No. 74(A) – Ch. 31262 (Proposed Structure) Sheet 21 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0022	Structures Engineering Drawings and Sections Park Underbridge – Work No. 45(A) & 45(B) – Ch. 31785 (Existing Structure – Physical Widening) Sheet 22 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0023	Structures Engineering Drawings and Sections Domsey Brook Underbridge – Work No. 67 – Ch. 31925 (Existing Structure – Physical Widening) Sheet 23 of 30	P01
HE551497-JAC-LDC-SCHW - DR-S-0024	Structures Engineering Drawings and Sections Prested Hall Overbridge – Work No. 79(B) – Ch. 32682 (Proposed Structure) Sheet 24 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0025	Structures Engineering Drawings and Sections Easthorpe Road Overbridge – Work No. 88(C) – Ch. 34827 (Proposed Structures) Sheet 25 of 30	P01

Drawing number	Drawing title	Revision
HE551497-JAC-LDC-SCHW-DR-S-0026	Structures Engineering Drawings and Sections Domsey Brook East Culvert – Work No. 92 – Ch. 35445 (Proposed Structure) Sheet 26 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0027	Structures Engineering Drawings and Sections Wishing Well Overbridge- Work No. 94(C) – Ch. 36334 (Proposed Structure) Sheet 27 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0028	Structures Engineering Drawings and Sections Potts Green Bridge- Work No. 100 – Ch. 37075 (Proposed Structure) Sheet 28 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0029	Structures Engineering Drawings and Sections Marks Tey Replacement Bridge – Work No. 112 – Ch. 38330 (Proposed Structure) Sheet 29 of 30	P01
HE551497-JAC-LDC-SCHW-DR-S-0030	Structures Engineering Drawings and Sections Roman River Culvert – Work No. 109 – Ch. 39363 (Existing Structure – Physical Widening) Sheet 30 of 30	P01



- NOTES**
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 - THIS PLAN SHOULD BE READ IN CONJUNCTION WITH OTHER PLAN APPLICATION DOCUMENTS IN PARTICULAR SCHEDULE 3 OF THE DEVELOPMENT CONSENT ORDER.

LEGEND

ORDER LIMITS

P01	20/07/22	FINAL FOR DCO SUBMISSION	OP	GM	RC	DT
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.12



Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **STRUCTURES ENGINEERING
DRAWINGS AND SECTIONS
KEY PLAN**

Regulation	REGULATION 5(2)(a), 5(2)(p) & 6(2)				
Purpose of Issue	DCO APPLICATION				
State Code	Preliminary				Drawing status
Project Stage	PCF3				S4
Scale at A1 (841x594mm)	NTS				Rev
Jacobs No.	B36601D1				P01
Client no.	HE551497				

Drawing number: HE551497 - JAC - LDC - SCHW -DR- S -0000
 Originator: JAC
 Volume: LDC
 Location: SCHW
 Type: -DR-
 Role: S
 Number: 0000

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