

A12 Chelmsford to A120 widening scheme

TR010060

2.11 HIGHWAYS ENGINEERING SECTION DRAWINGS ENGINEERING SECTIONS DRAWINGS 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~~ June December 2023

Infrastructure Planning

Planning Act 2008

A12 Chelmsford to A120 widening scheme

Development Consent Order 202[]

**HIGHWAYS ENGINEERING SECTION DRAWINGSENGINEERING
SECTIONS DRAWINGS PART 1**

Regulation Number:	Regulation 5(2)(o), 5(2)(p) and 6(2)
Planning Inspectorate Scheme Reference	TR010060
Application Document Reference	TR010060/APP/2.11
Author:	A12 Project Team, National Highways

Version	Date	Status of Version
P01.2P032	August 2022 December June 2023	DCO Application Change Updates to cover sheet

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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 [Highways Engineering Sections Drawings](#) (‘these Drawings’) have been prepared to accompany the application for a Development Consent Order (DCO), made by the Applicant to the Secretary of State for Transport 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 Drawings comprise part of the DCO application documentation and are included in compliance with Regulation 5(2)(o), 5(2)(p), 6(2)(a) and 6(2)(b) 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 waters 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 or through which it would pass.'*

1.1.5 These Drawings 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 Drawings 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 [TR010060/APP/3.1], the Works Plans [TR010060/APP/2.2] and the General Arrangement Plans [TR010060/APP/2.10].

2 Schedule of Drawings included in this Application Document

Drawing number	Drawing title	Revision
PART 1		
HE551497-JAC-LDC-SCHW-DR-C-2000	Engineering Sections (Plan and Profiles) Mainline Key Plan	P02
HE551497-JAC-LDC-SCHW-DR-C-2001	Engineering Sections (Plan and Profiles) Mainline Sheet 1 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2002	Engineering Sections (Plan and Profiles) Mainline Sheet 2 of 19	P02
HE551497-JAC-LDC-SCHW-DR-C-2003	Engineering Sections (Plan and Profiles) Mainline Sheet 3 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2004	Engineering Sections (Plan and Profiles) Mainline Sheet 4 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2005	Engineering Sections (Plan and Profiles) Mainline Sheet 5 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2006	Engineering Sections (Plan and Profiles) Mainline Sheet 6 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2007	Engineering Sections (Plan and Profiles) Mainline Sheet 7 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2008	Engineering Sections (Plan and Profiles) Mainline Sheet 8 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2009	Engineering Sections (Plan and Profiles) Mainline Sheet 9 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2010	Engineering Sections (Plan and Profiles) Mainline Sheet 10 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2011	Engineering Sections (Plan and Profiles) Mainline Sheet 11 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2012	Engineering Sections (Plan and Profiles) Mainline Sheet 12 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2013	Engineering Sections (Plan and Profiles) Mainline Sheet 13 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2014	Engineering Sections (Plan and Profiles) Mainline Sheet 14 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2015	Engineering Sections (Plan and Profiles) Mainline Sheet 15 of 19	P01

HIGHWAYS ENGINEERING SECTION

Drawing number	Drawing title	Revision
HE551497-JAC-LDC-SCHW-DR-C-2016	Engineering Sections (Plan and Profiles) Mainline Sheet 16 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2017	Engineering Sections (Plan and Profiles) Mainline Sheet 17 of 19	P01
HE551497-JAC-LDC-SCHW-DR-C-2018	Engineering Sections (Plan and Profiles) Mainline Sheet 18 of 19	P02
HE551497-JAC-LDC-SCHW-DR-C-2019	Engineering Sections (Plan and Profiles) Mainline Sheet 19 of 19	P02
PART 2		
HE551497-JAC-LDC-SCHW-DR-C-2020	Engineering Sections (Plan and Profiles) Junctions Key Plan	P02
HE551497-JAC-LDC-S1_J19-DR-C-0101	Engineering Sections (Plan and Profiles) Junction 19 Sheet 1 of 5	P02
HE551497-JAC-LDC-S1_J19-DR-C-0102	Engineering Sections (Plan and Profiles) Junction 19 Sheet 2 of 5	P02
HE551497-JAC-LDC-S1_J19-DR-C-0103	Engineering Sections (Plan and Profiles) Junction 19 Sheet 3 of 5	P03
HE551497-JAC-LDC-S1_J19-DR-C-0104	Engineering Sections (Plan and Profiles) Junction 19 Sheet 4 of 5	P02
HE551497-JAC-LDC-S1_J19-DR-C-0105	Engineering Sections (Plan and Profiles) Junction 19 Sheet 5 of 5	P02
HE551497-JAC-LDC-S1_J21-DR-C-0101	Engineering Sections (Plan and Profiles) Junction 21 Sheet 1 of 5	P01
HE551497-JAC-LDC-S1_J21-DR-C-0102	Engineering Sections (Plan and Profiles) Junction 21 Sheet 2 of 5	P01
HE551497-JAC-LDC-S1_J21-DR-C-0103	Engineering Sections (Plan and Profiles) Junction 21 Sheet 3 of 5	P01
HE551497-JAC-LDC-S1_J21-DR-C-0104	Engineering Sections (Plan and Profiles) Junction 21 Sheet 4 of 5	P01
HE551497-JAC-LDC-S1_J21-DR-C-0105	Engineering Sections (Plan and Profiles) Junction 21 Sheet 5 of 5	P01
HE551497-JAC-LDC-S2_J22-DR-C-0101	Engineering Sections (Plan and Profiles) Junction 22 Sheet 1 of 4	P01
HE551497-JAC-LDC-S2_J22-DR-C-0102	Engineering Sections (Plan and Profiles) Junction 22 Sheet 2 of 4	P01
HE551497-JAC-LDC-S2_J22-DR-C-0103	Engineering Sections (Plan and Profiles) Junction 22 Sheet 3 of 4	P01

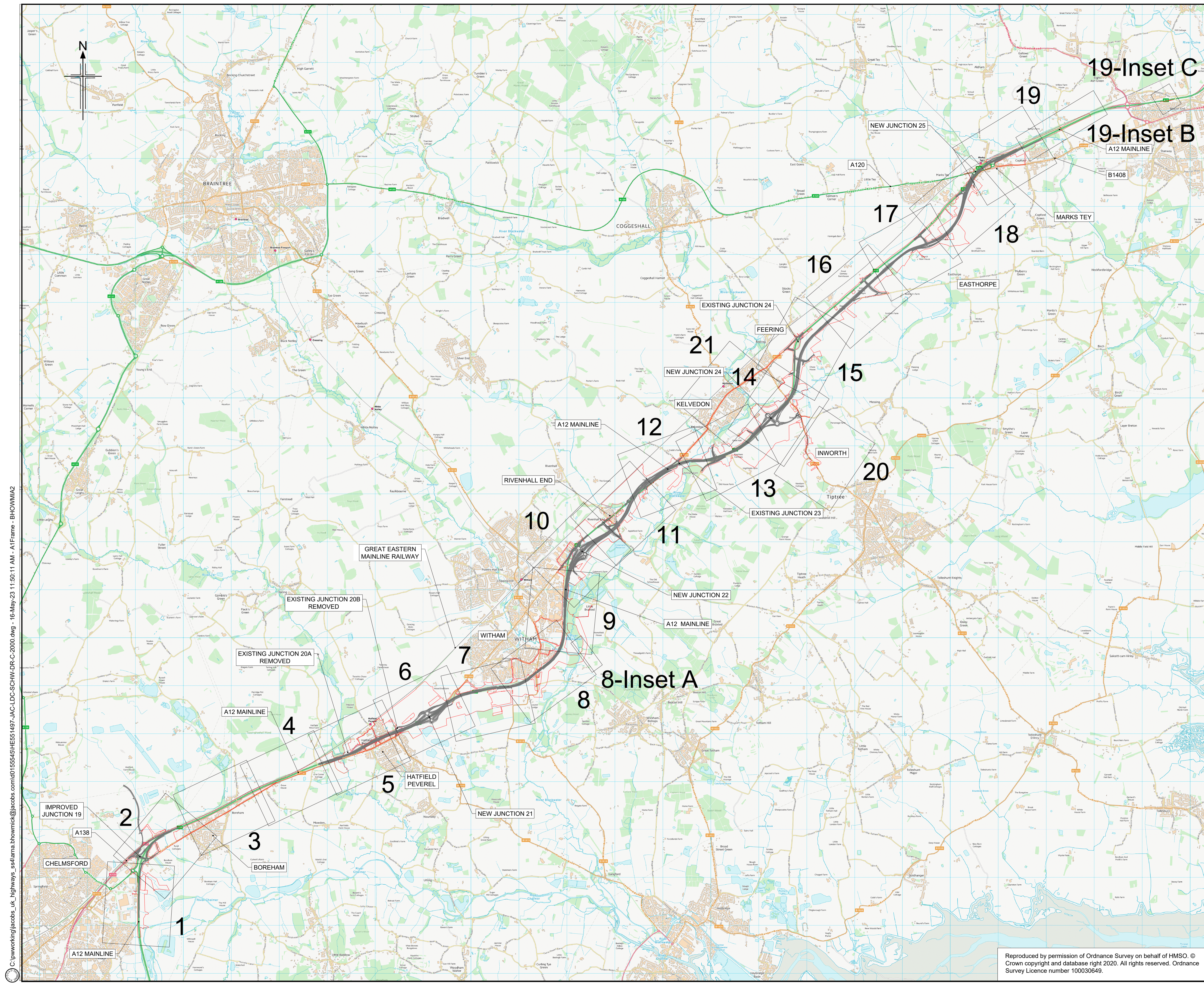
HIGHWAYS ENGINEERING SECTION

Drawing number	Drawing title	Revision
HE551497-JAC-LDC-S2_J22-DR-C-0104	Engineering Sections (Plan and Profiles) Junction 22 Sheet 4 of 4	P01
HE551497-JAC-LDC-S3_J24-DR-C-0101	Engineering Sections (Plan and Profiles) Junction 24 Sheet 1 of 5	P03
HE551497-JAC-LDC-S3_J24-DR-C-0102	Engineering Sections (Plan and Profiles) Junction 24 Sheet 2 of 5	P03
HE551497-JAC-LDC-S3_J24-DR-C-0103	Engineering Sections (Plan and Profiles) Junction 24 Sheet 3 of 5	P03
HE551497-JAC-LDC-S3_J24-DR-C-0104	Engineering Sections (Plan and Profiles) Junction 24 Sheet 4 of 5	P01
HE551497-JAC-LDC-S3_J24-DR-C-0105	Engineering Sections (Plan and Profiles) Junction 24 Sheet 5 of 5	P01
HE551497-JAC-LDC-S3_J25-DR-C-0101	Engineering Sections (Plan and Profiles) Junction 25 Sheet 1 of 6	P02
HE551497-JAC-LDC-S3_J25-DR-C-0102	Engineering Sections (Plan and Profiles) Junction 25 Sheet 2 of 6	P02
HE551497-JAC-LDC-S3_J25-DR-C-0104	Engineering Sections (Plan and Profiles) Junction 25 Sheet 3 of 6	P02
HE551497-JAC-LDC-S3_J25-DR-C-0105	Engineering Sections (Plan and Profiles) Junction 25 Sheet 4 of 6	P02
HE551497-JAC-LDC-S3_J25-DR-C-0106	Engineering Sections (Plan and Profiles) Junction 25 Sheet 5 of 6	P02
HE551497-JAC-LDC-S3_J25-DR-C-0107	Engineering Sections (Plan and Profiles) Junction 25 Sheet 6 of 6	P01
PART 3		
HE551497-JAC-LDC-SCHW-DR-C-2021	Engineering Sections (Plan and Profiles) Side Roads Key Plan	P02
HE551497-JAC-LDC-S1_SR-DR-C-0101	Engineering Sections (Plan and Profiles) Side Roads S1 Sheet 1 of 3	P01
HE551497-JAC-LDC-S1_SR-DR-C-0102	Engineering Sections (Plan and Profiles) Side Roads S1 Sheet 2 of 3	P01
HE551497-JAC-LDC-S1_SR-DR-C-0103	Engineering Sections (Plan and Profiles) Side Roads S1 Sheet 3 of 3	P01
HE551497-JAC-LDC-S2_SR-DR-C-0101	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 1 of 7	P01
HE551497-JAC-LDC-S2_SR-DR-C-0102	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 2 of 7	P01

HIGHWAYS ENGINEERING SECTION

Drawing number	Drawing title	Revision
HE551497-JAC-LDC-S2_SR-DR-C-0103	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 3 of 7	P01
HE551497-JAC-LDC-S2_SR-DR-C-0104	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 4 of 7	P01
HE551497-JAC-LDC-S2_SR-DR-C-0105	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 5 of 7	P01
HE551497-JAC-LDC-S2_SR-DR-C-0106	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 6 of 7	P01
HE551497-JAC-LDC-S2_SR-DR-C-0107	Engineering Sections (Plan and Profiles) Side Roads S2 Sheet 7 of 7	P01
HE551497-JAC-LDC-S3_SR-DR-C-0301	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 1 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0303	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 2 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0304	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 3 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0305	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 4 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0306	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 5 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0307	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 6 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0308	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 7 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0309	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 8 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0310	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 9 of 10	P01
HE551497-JAC-LDC-S3_SR-DR-C-0311	Engineering Sections (Plan and Profiles) Side Roads S3 Sheet 10 of 10	P03

Drawing number	Drawing title	Revision
PART 4		
HE551497-JAC-LDC-SCHW-DR-C-2031	Engineering Sections (Cross Sections) Sheet 1 of 6	P01
HE551497-JAC-LDC-SCHW-DR-C-2032	Engineering Sections (Cross Sections) Sheet 2 of 6	P01
HE551497-JAC-LDC-SCHW-DR-C-2033	Engineering Sections (Cross Sections) Sheet 3 of 6	P01
HE551497-JAC-LDC-SCHW-DR-C-2034	Engineering Sections (Cross Sections) Sheet 4 of 6	P01
HE551497-JAC-LDC-SCHW-DR-C-2035	Engineering Sections (Cross Sections) Sheet 5 of 6	P01
HE551497-JAC-LDC-SCHW-DR-C-2036	Engineering Sections (Cross Sections) Sheet 6 of 6	P03



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	28/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
P02	12/05/23	DCO CHANGE	AE	LH	RM	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.11

Client:

Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

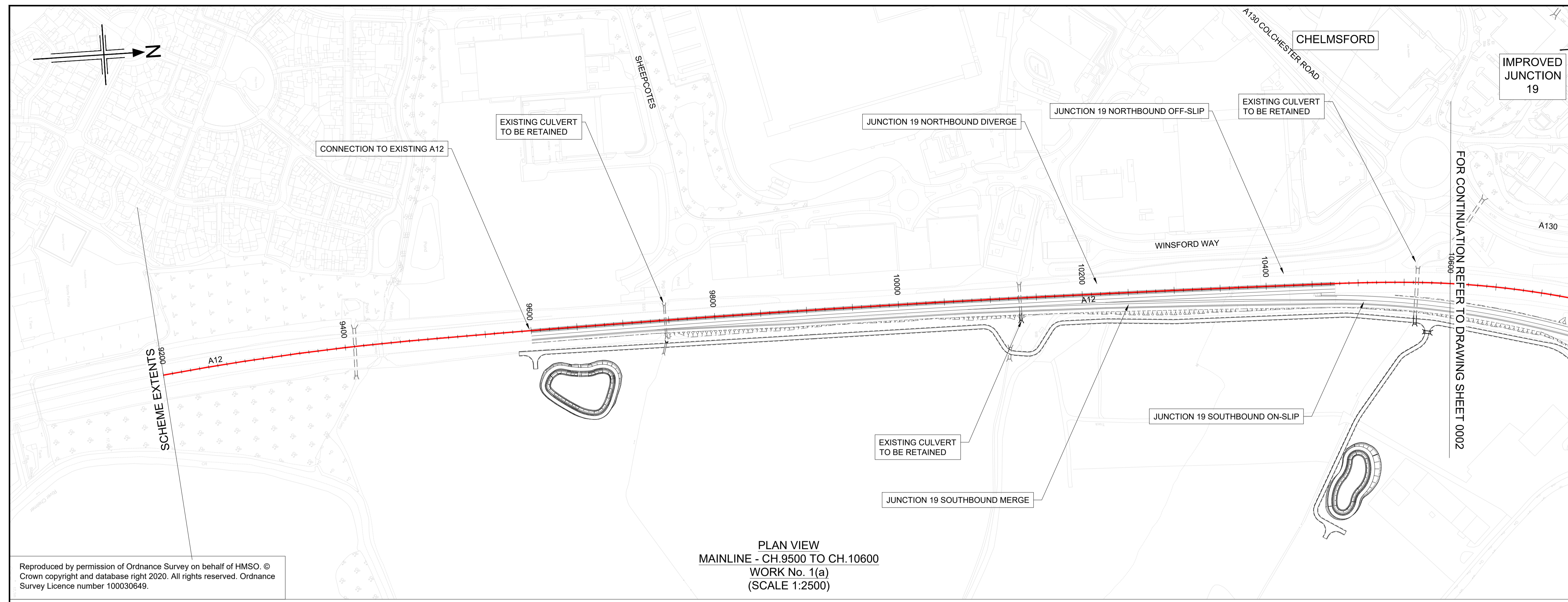
Drawing title: **ENGINEERING SECTIONS
 PLAN AND PROFILES
 MAINLINE - KEY PLAN**

Regulation	REGULATION 8(1)(k)	
Purpose of issue	DCO EXAM	
State Code	Statutory Procedures and Powers	
Project Stage	PCF 4	Drawing status
Scale at A1 (841x594mm)	NTS	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P02

Drawing number: HE551497 - JAC - LDC - SCHW
 Originator: JAC
 Volume: -DR- C -2000

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 3. WORK NO. REFERENCES ARE DESCRIBED IN SCHEDULE 1 (AUTHORISED DEVELOPMENT) TO THE DEVELOPMENT CONSENT ORDER (TR010060/APP/3.1)
 4. THESE ENGINEERING SECTION DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTATION, IN PARTICULAR THE WORKS PLANS (TR010060/APP/2.2) AND SCHEDULE 1 (AUTHORISED DEVELOPMENT) TO THE DEVELOPMENT CONSENT ORDER (TR010060/APP/3.1)
 5. THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA. ALL LEVELS ARE GIVEN BY REFERENCE TO THE OS DATUM.
 6. FOR SHEET LAYOUT PLAN REFER TO: HE551497-JAC-LDC-SCHW-DR-C-2000 FOR MAINLINE PROFILES. HE551497-JAC-LDC-SCHW-DR-C-2020 FOR JUNCTION PROFILES. HE551497-JAC-LDC-SCHW-DR-C-2021 FOR SIDE ROAD PROFILES.

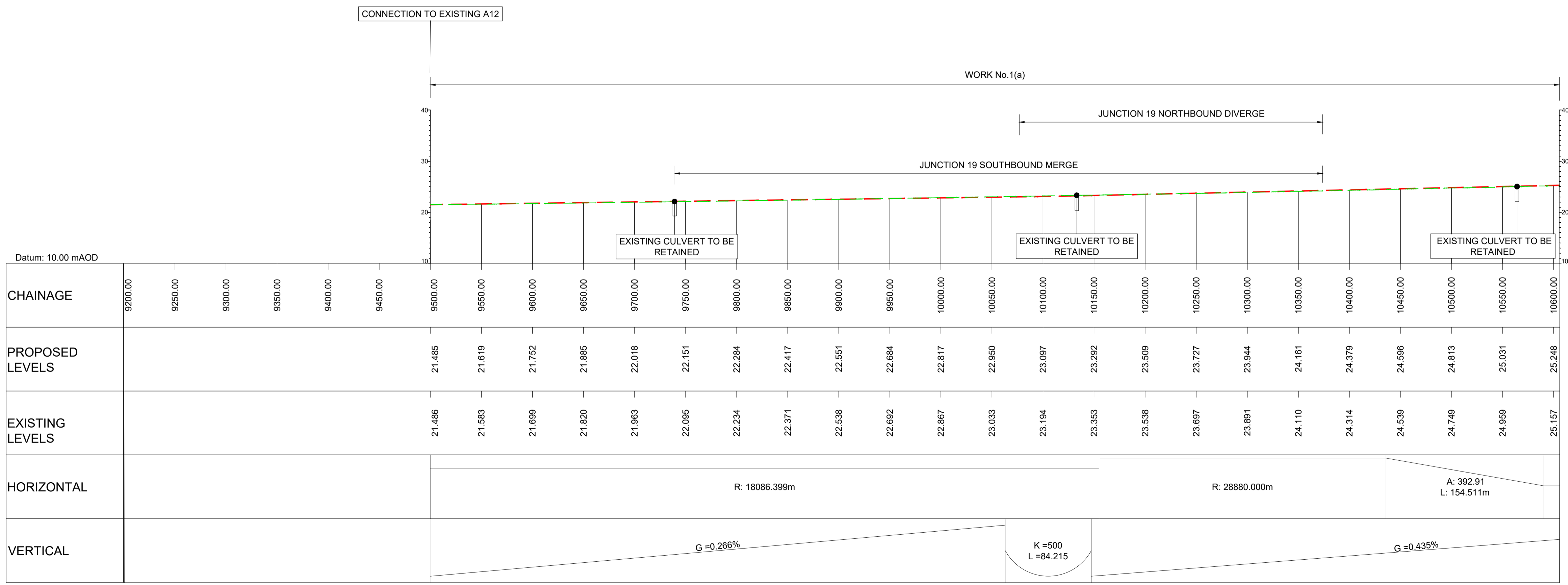
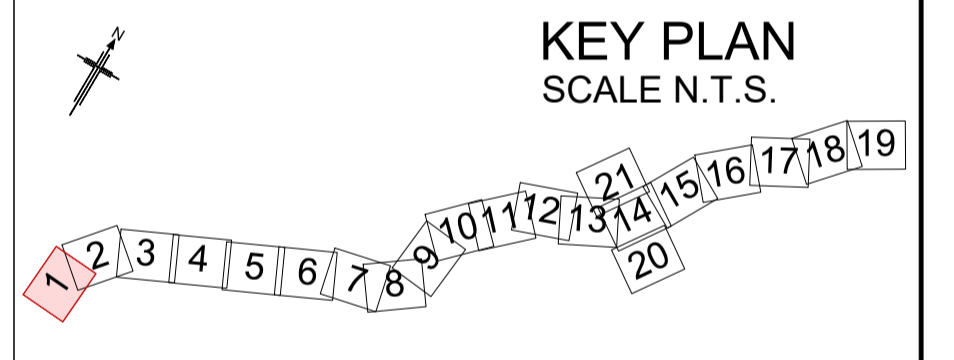
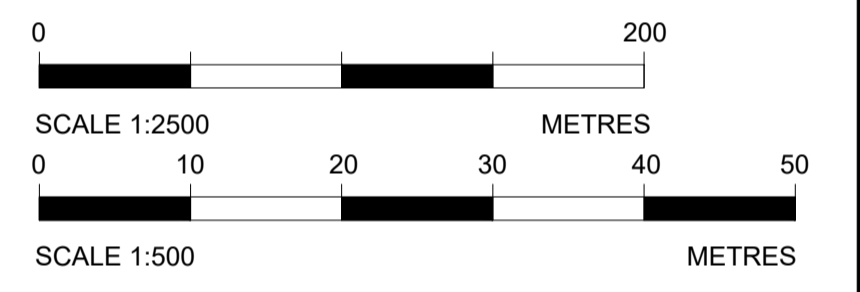
Key

PLAN

- CHAINAGE
- CENTRELINE OF NEW ROAD

PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD



LONGITUDINAL SECTION
MAINLINE - CH.9500 TO CH.10600
(SCALE H=1:2500, V=1:500)

P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11

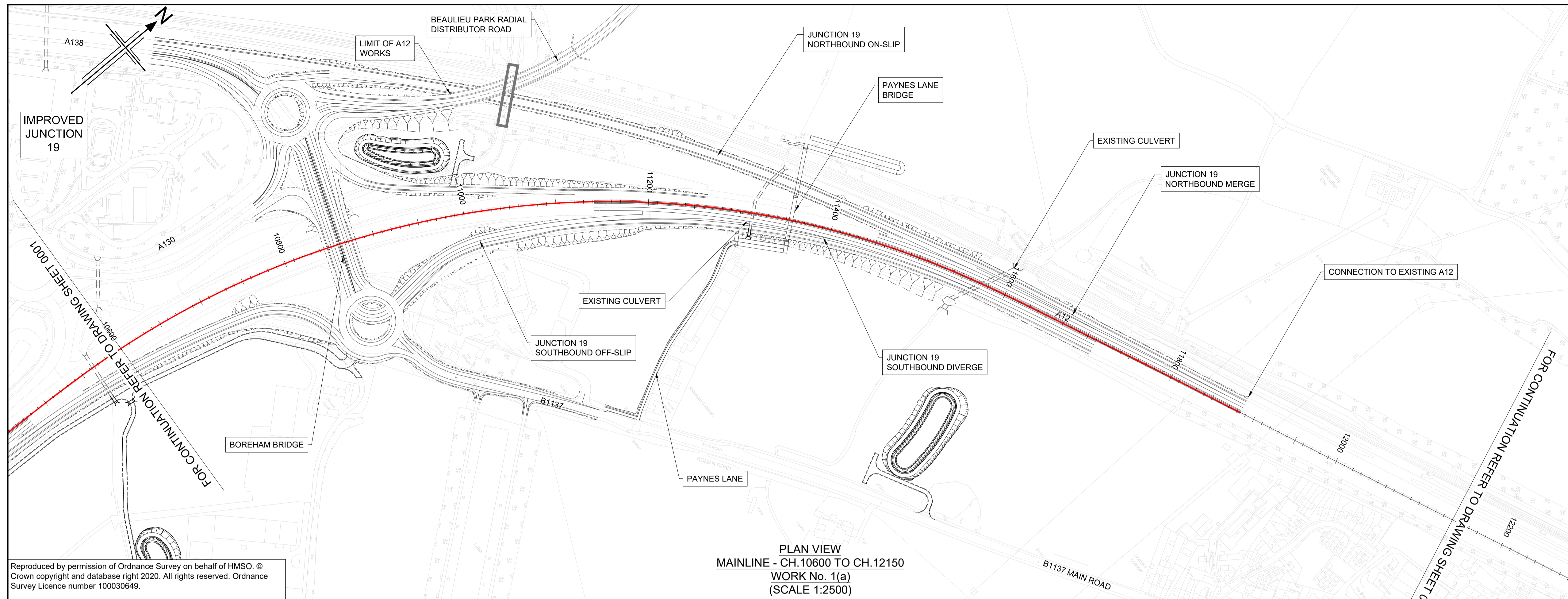


Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 1 OF 19

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

Drawing number: HE551497 - JAC - LDC - SCHW - DR - C - 2001
PIN: JAC, Volume: LDC, Location: SCHW, Type: DR, Role: C, Number: 2001



- NOTES**
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 - WORK NO. REFERENCES ARE DESCRIBED IN SCHEDULE 1 (AUTHORISED DEVELOPMENT) TO THE DEVELOPMENT CONSENT ORDER (TR010060/APP/3.1)
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 - THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA. ALL LEVELS ARE GIVEN BY REFERENCE TO THE OS DATUM.
 - FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

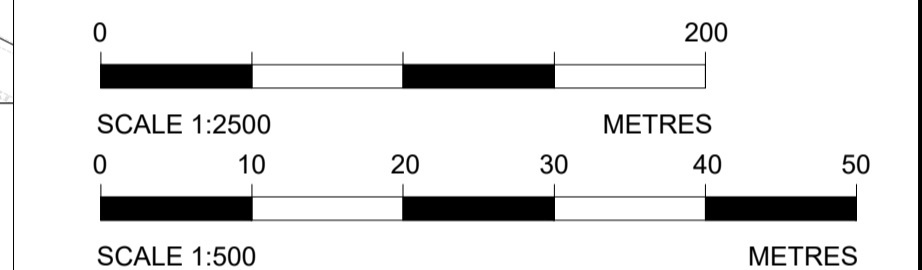
Key

PLAN

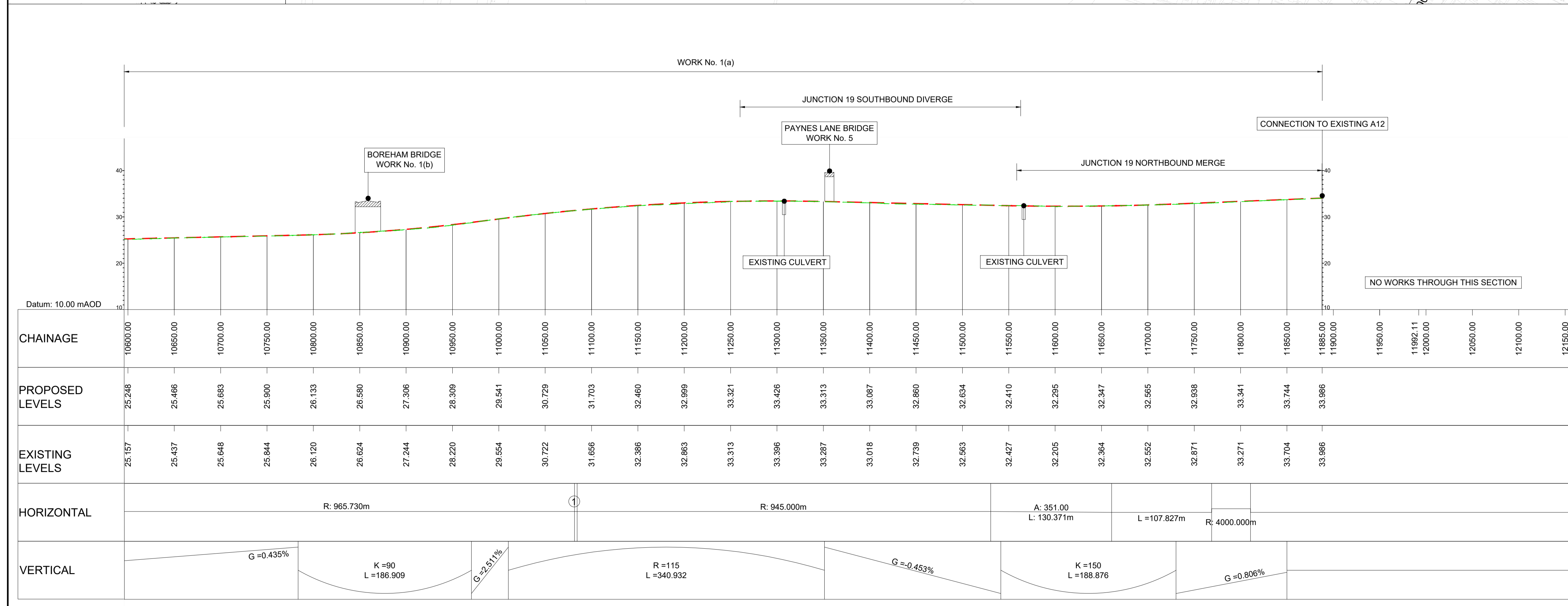
- CHAINAGE
- CENTRELINE OF NEW ROAD

PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD



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KEY PLAN
SCALE N.T.S.

P01	28/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
P02	22/05/23	DCO CHANGE	AE	LH	RM	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11



Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

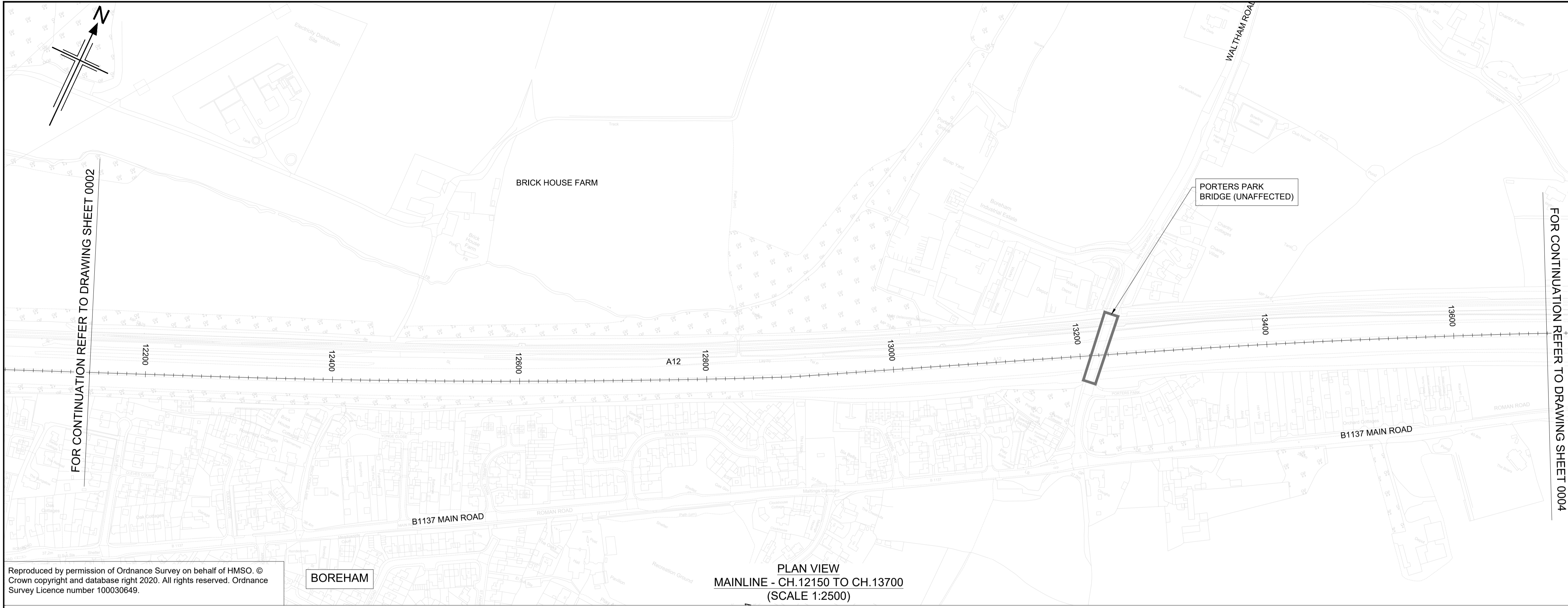
Drawing title: ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 2 OF 19

Regulation	REGULATION 8(1)(k)
Purpose of issue	DCO EXAM
State Code	Statutory Procedures and Powers
Project Stage	PCF 4
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	PIN
Originator	JAC
Volume	LDC
Location	SCHW
Type	-DR-
Role	C
Number	2002

HE551497 - JAC - LDC - SCHW -DR- C -2002

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PLAN VIEW
MAINLINE - CH.12150 TO CH.13700
(SCALE 1:2500)

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HE551497-JAC-LDC-SCHW-DR-C-2021 FOR SIDE ROAD PROFILES.

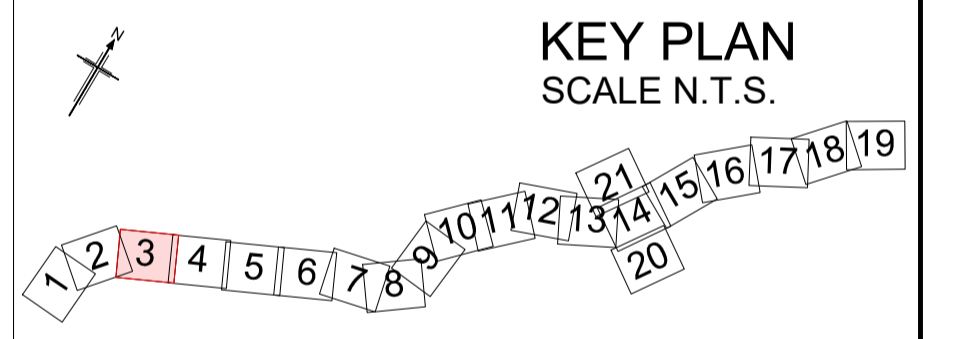
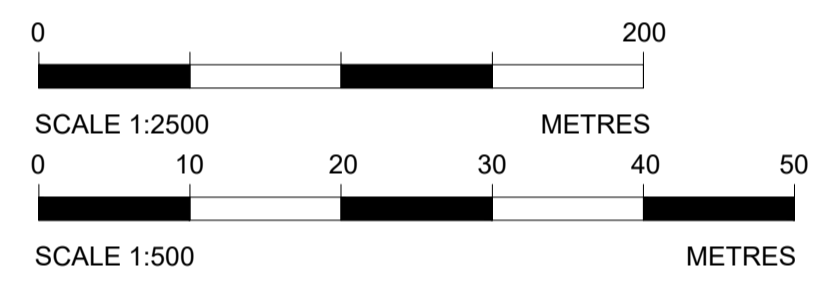
Key

PLAN
0096

- CHAINAGE
- CENTRELINE OF NEW ROAD

PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD



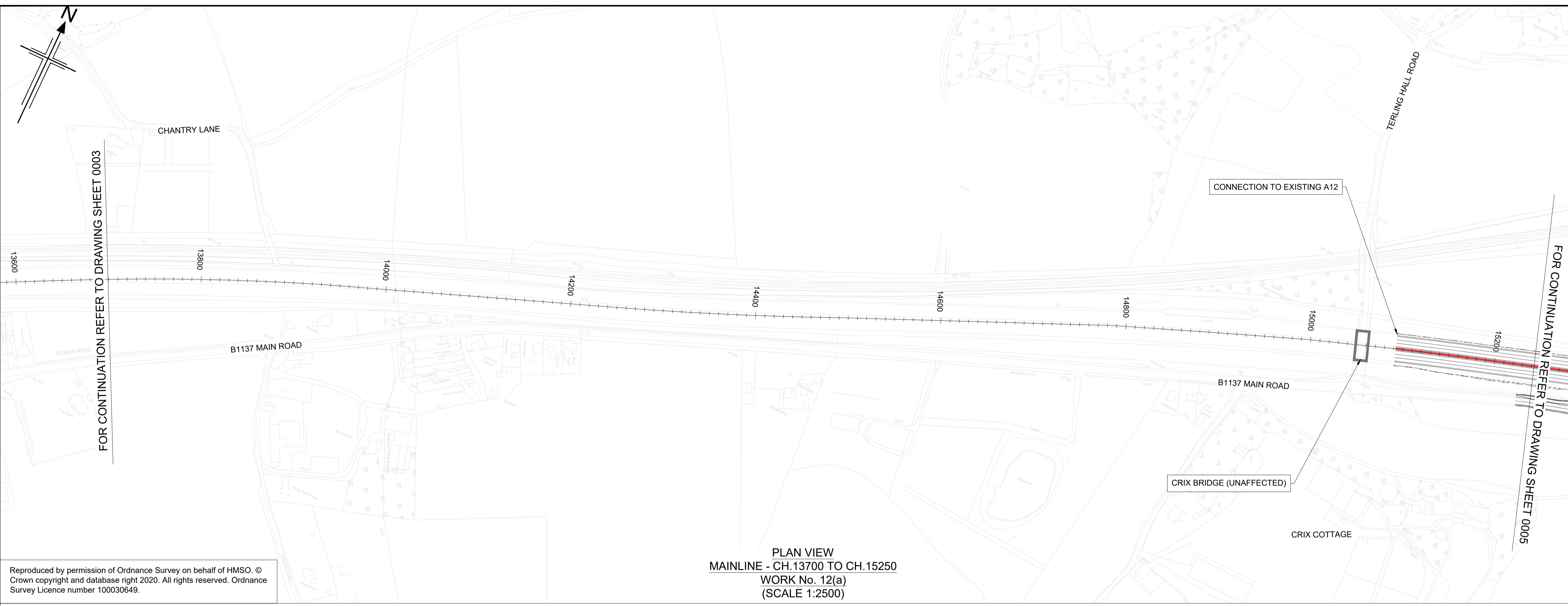
KEY PLAN
SCALE N.T.S.

NO WORKS THROUGH THIS SECTION

Datum: 10.00 mAOD	
CHAINAGE	12150.00, 12200.00, 12250.00, 12300.00, 12350.00, 12400.00, 12450.00, 12500.00, 12550.00, 12600.00, 12650.00, 12700.00, 12750.00, 12800.00, 12850.00, 12900.00, 12950.00, 13000.00, 13050.00, 13100.00, 13150.00, 13200.00, 13250.00, 13300.00, 13350.00, 13400.00, 13450.00, 13500.00, 13550.00, 13600.00, 13650.00, 13700.00
PROPOSED LEVELS	
EXISTING LEVELS	
HORIZONTAL	
VERTICAL	

LONGITUDINAL SECTION
MAINLINE - CH.12150 TO CH.13700
(SCALE H=1:2500, V=1:500)

P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
Development Consent Order Number: TR010060			Development Consent Order Drawing Number: TR010060/APP/2.11			
Client:						
Project: A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing title: ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 3 OF 19						
Regulation: REGULATION 5(2)(o), 5(2)(p) & 6(2)			Purpose of issue: DCO APPLICATION			
State Code: Preliminary			Drawing status: S4			
Project Stage: PCF3			Scale at A1 (841x594mm): AS SHOWN			
Jacobs No.: B36601D1			Rev: P01			
Client no.: HE551497			Drawing number: HE551497 - JAC - LDC - SCHW - DR - C - 2003			
Drawing number: HE551497 - JAC - LDC - SCHW - DR - C - 2003			Originator: JAC - LDC - SCHW - DR - C - 2003			
Location: SCHW			Volume: -DR- C -2003			



PLAN VIEW
MAINLINE - CH.13700 TO CH.15250
WORK No. 12(a)
(SCALE 1:2500)

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- NOTES
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 2. THIS DESIGN SHOWN ON THE ENGINEERING SECTION DRAWINGS WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO WITHIN THE ORDER LIMITS AND ANY OTHER CONSTRAINTS INCLUDED IN THE DEVELOPMENT CONSENT ORDER (TR010060/APP/3.1)
 3. WORK NO. REFERENCES ARE DESCRIBED IN SCHEDULE 1 (AUTHORISED DEVELOPMENT) TO THE DEVELOPMENT CONSENT ORDER (TR010060/APP/3.1)
 4. THESE ENGINEERING SECTION DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTATION, IN PARTICULAR THE WORKS PLANS (TR010060/APP/2.2) AND SCHEDULE 1 (AUTHORISED DEVELOPMENT) TO THE DEVELOPMENT CONSENT ORDER (TR010060/APP/3.1)
 5. THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA. ALL LEVELS ARE GIVEN BY REFERENCE TO THE OS DATUM.
 6. FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

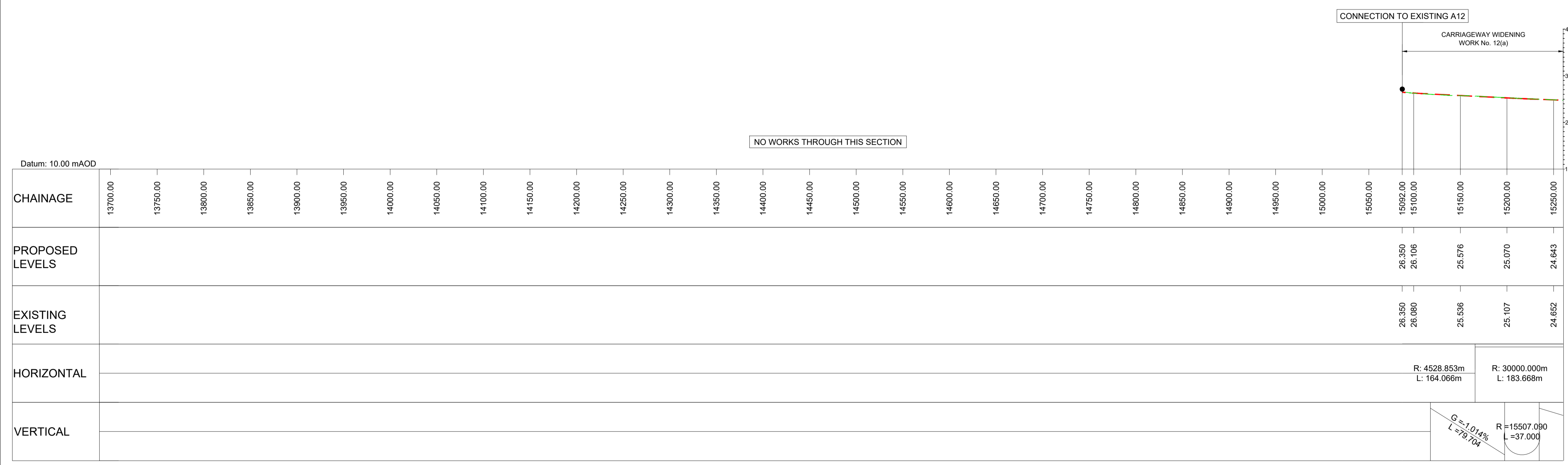
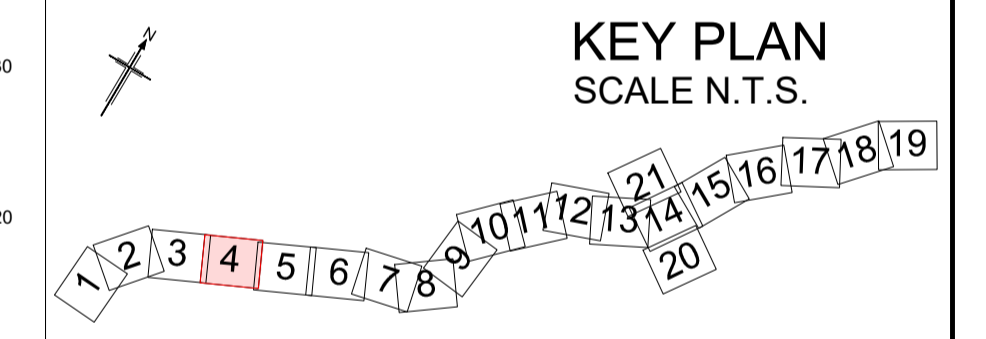
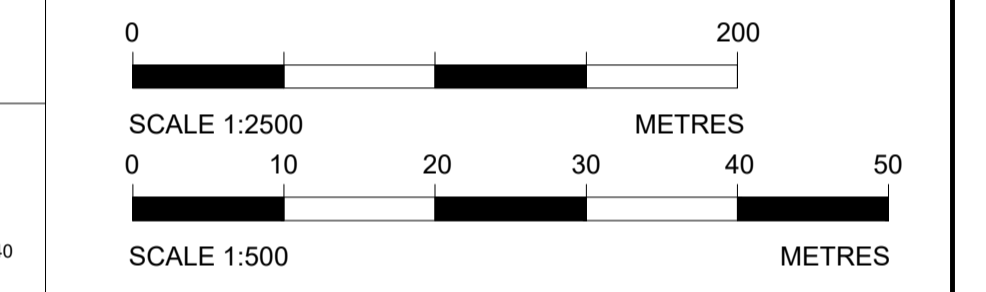
Key

PLAN

- CHAINAGE
- CENTRELINE OF NEW ROAD

PROFILE

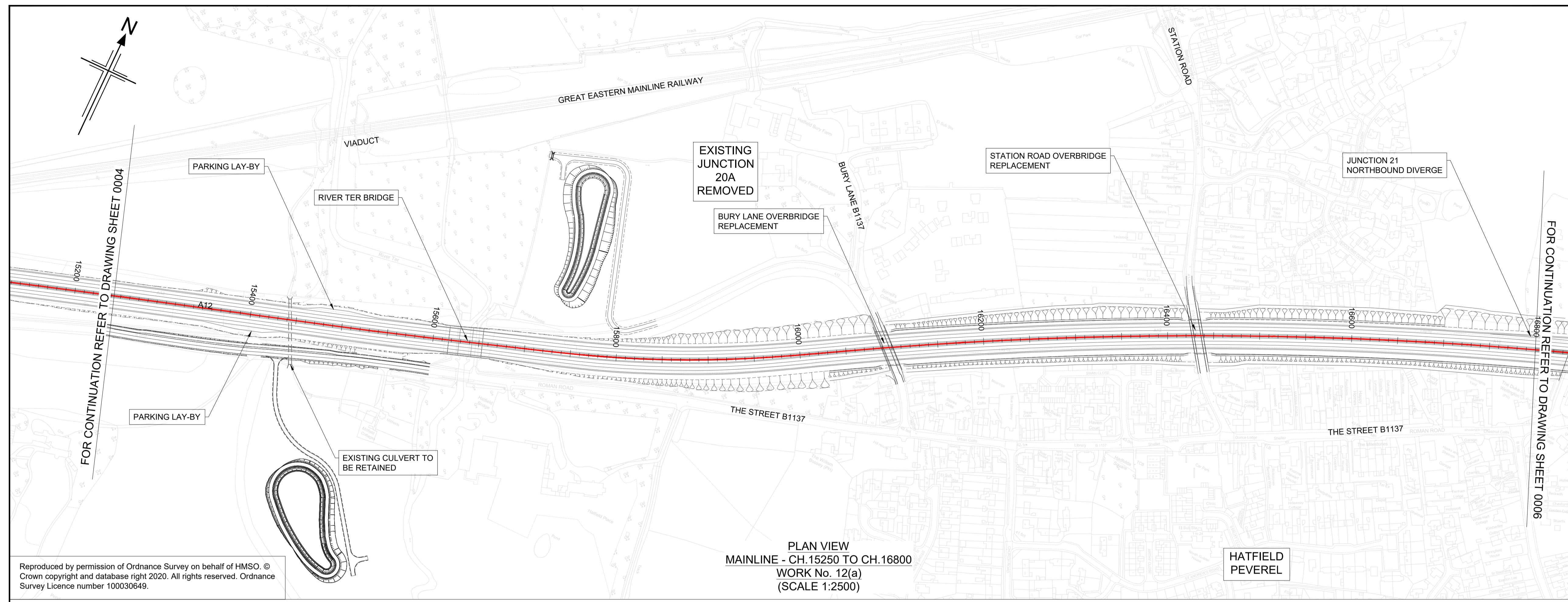
- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD



LONGITUDINAL SECTION
MAINLINE - CH.13700 TO CH.15250
(SCALE H=1:2500, V=1:500)

P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
Development Consent Order Number: TR010060			Development Consent Order Drawing Number: TR010060/APP/2.11			
Project: A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing title: ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 4 OF 19						
Regulation: REGULATION 5(2)(o), 5(2)(p) & 6(2)						
Purpose of issue: DCO APPLICATION						
State Code: Preliminary						
Project Stage: PCF3					Drawing status: S4	
Scale at A1 (841x594mm): AS SHOWN						
Jacobs No.: B36601D1					Rev: P01	
Client no.: HE551497						
Drawing number: HE551497 - JAC - LDC - SCHW - DR - C - 2004						

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NOTES

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- WORK NO. REFERENCES ARE DESCRIBED IN SCHEDULE 1 (AUTHORISED DEVELOPMENT) TO THE DEVELOPMENT CONSENT ORDER (TR010060/APP/3.1)
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- THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA. ALL LEVELS ARE GIVEN BY REFERENCE TO THE OS DATUM.
- FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR-C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR-C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR-C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

- CHAINAGE
- CENTRELINE OF NEW ROAD

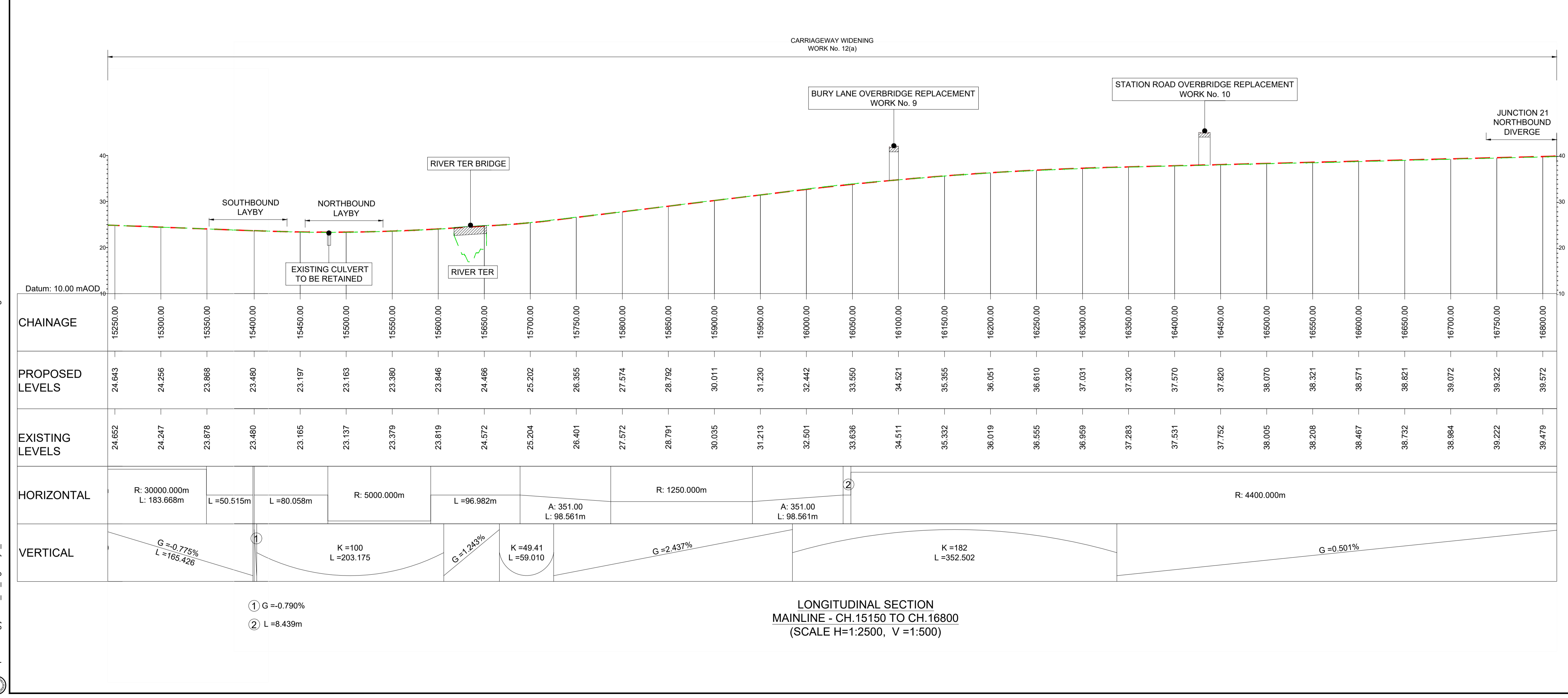
PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200
SCALE 1:2500 METRES

0 10 20 30 40 50
SCALE 1:500 METRES

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KEY PLAN
SCALE N.T.S.

P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11

Client: **national highways**

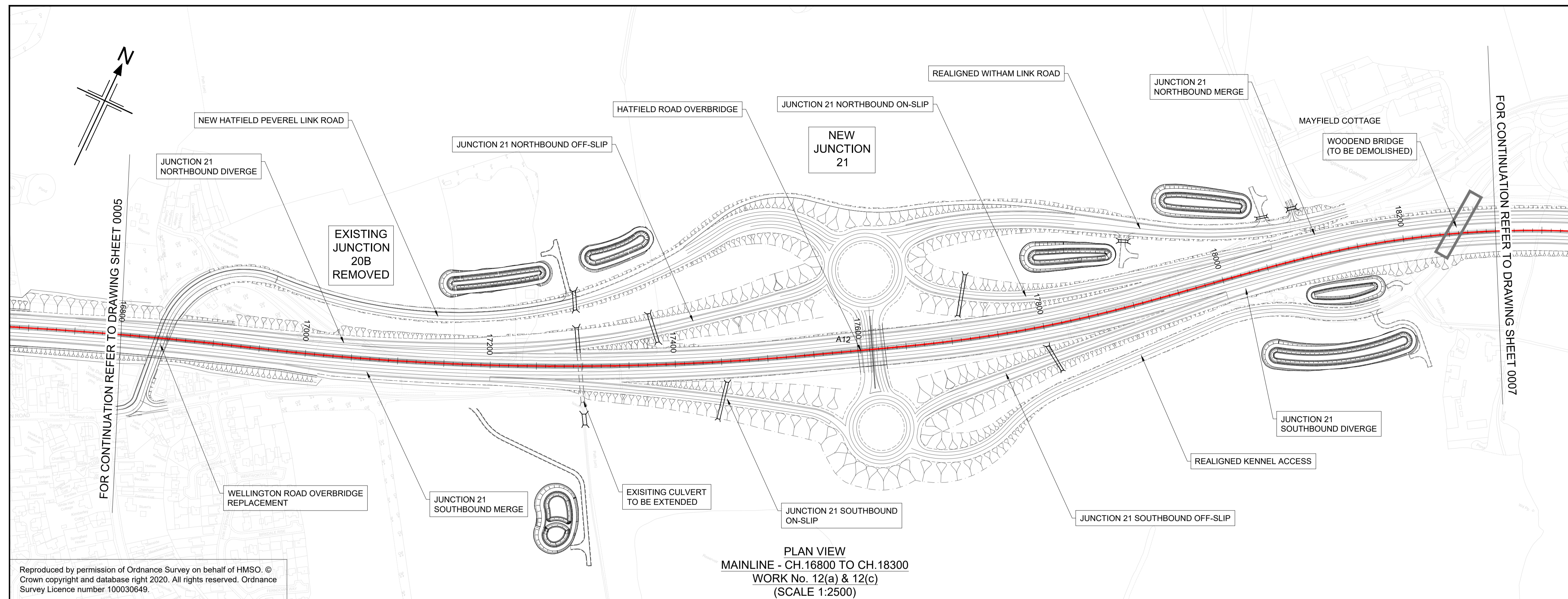
Project: **A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 5 OF 19**

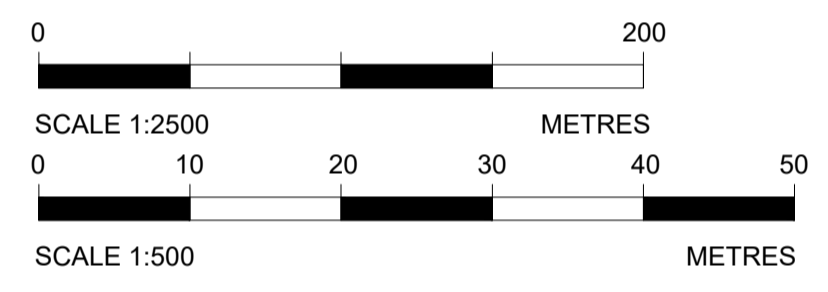
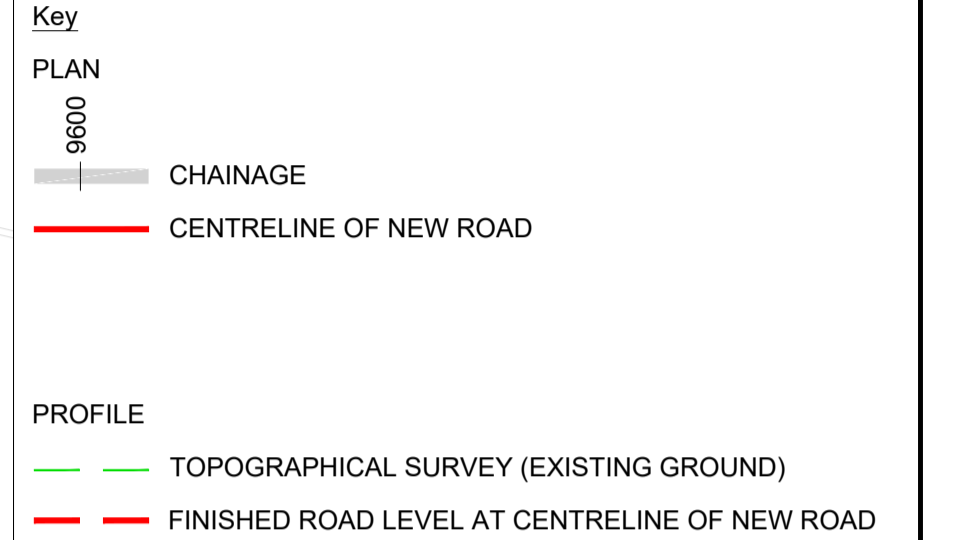
Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)
Purpose of issue	DCO APPLICATION
State Code	Preliminary
Project Stage	PCF3
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	PIN
Originator	Volume
Location	Type Role Number

HE551497 - JAC - LDC - SCHW -DR- C -2005

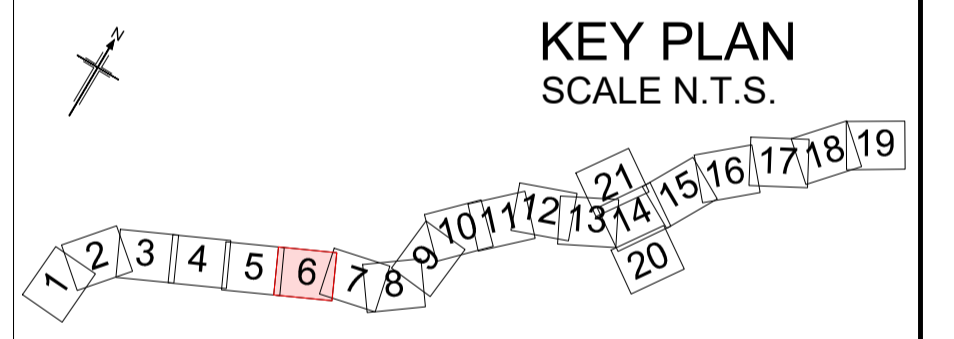
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- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 2. THIS DESIGN SHOWN ON THE ENGINEERING SECTION DRAWINGS WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO WITHIN THE ORDER LIMITS AND ANY OTHER CONSTRAINTS INCLUDED IN THE DEVELOPMENT CONSENT ORDER (TR010060/APP/3.1)
 3. WORK NO. REFERENCES ARE DESCRIBED IN SCHEDULE 1 (AUTHORISED DEVELOPMENT) TO THE DEVELOPMENT CONSENT ORDER (TR010060/APP/3.1)
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 5. THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA. ALL LEVELS ARE GIVEN BY REFERENCE TO THE OS DATUM.
 6. FOR SHEET LAYOUT PLAN REFER TO: HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES. HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES. HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.



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Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

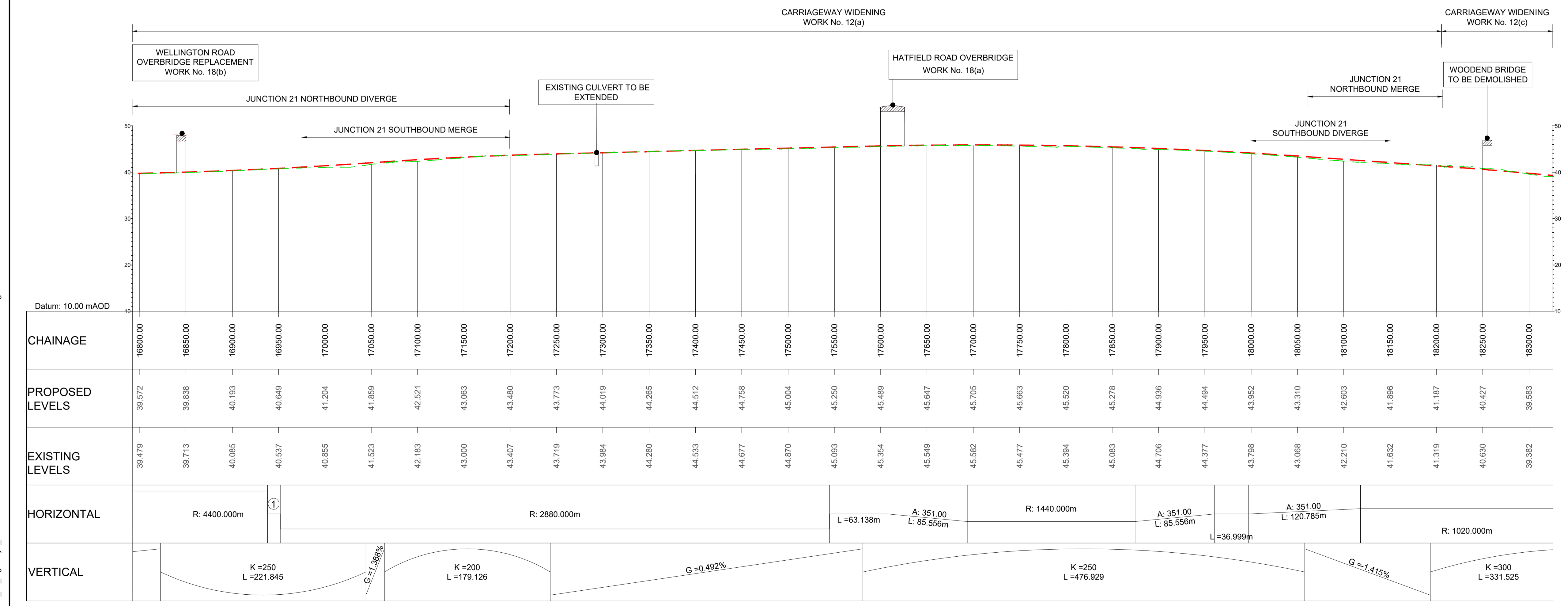
Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

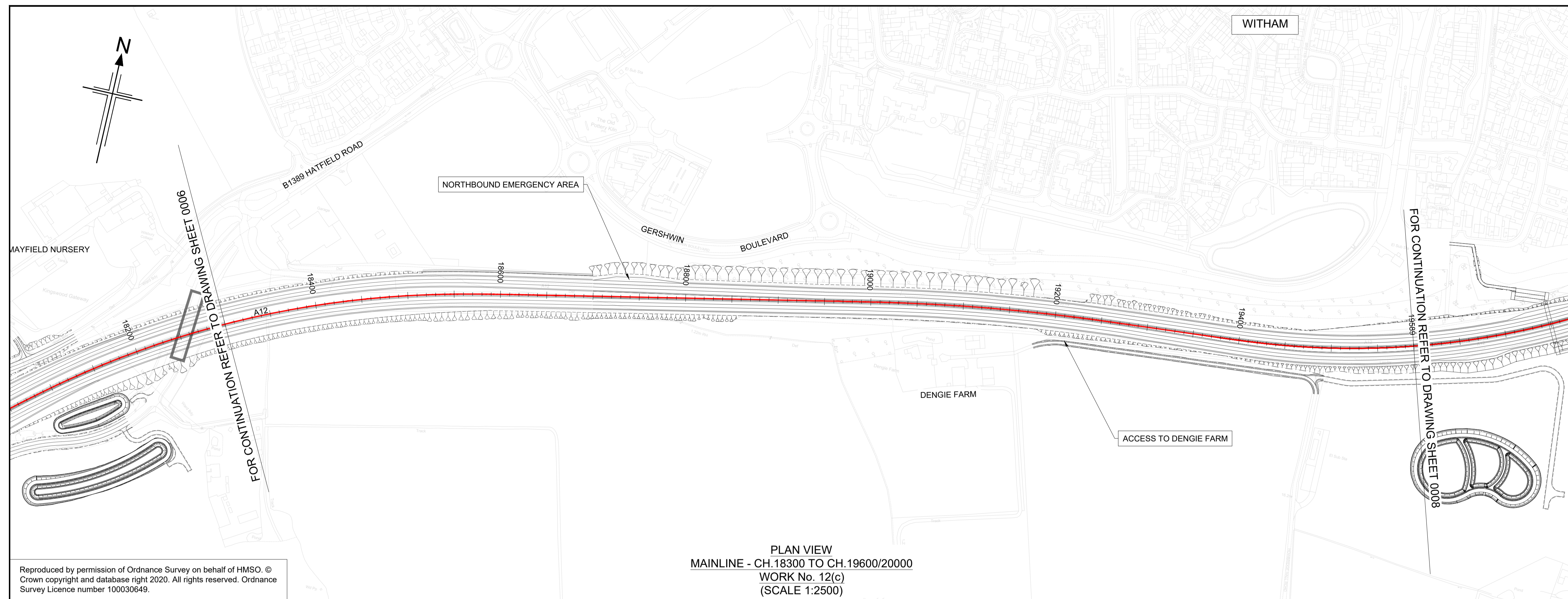
Drawing title
ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 6 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF3	Drawing status
Scale at A1 (841x594mm)	AS SHOWN	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01
Drawing number	PIN	Originator
HE551497 - JAC - LDC - SCHW		Volume
		Location
		Type Role Number
		-DR- C -2006



LONGITUDINAL SECTION
MAINLINE - CH.16800 TO CH.18300
(SCALE H=1:2500, V=1:500)

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PLAN VIEW
 MAINLINE - CH.18300 TO CH.19600/20000
 WORK No. 12(c)
 (SCALE 1:2500)

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 - FOR SHEET LAYOUT PLAN REFER TO:
 HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
 HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
 HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

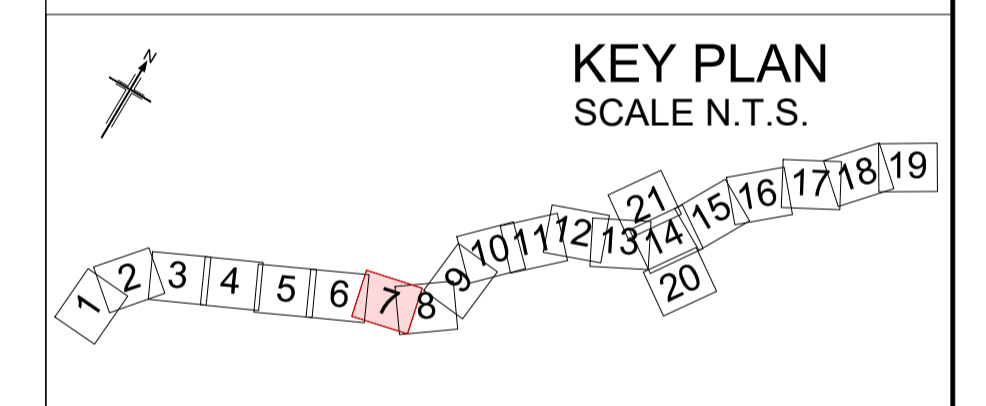
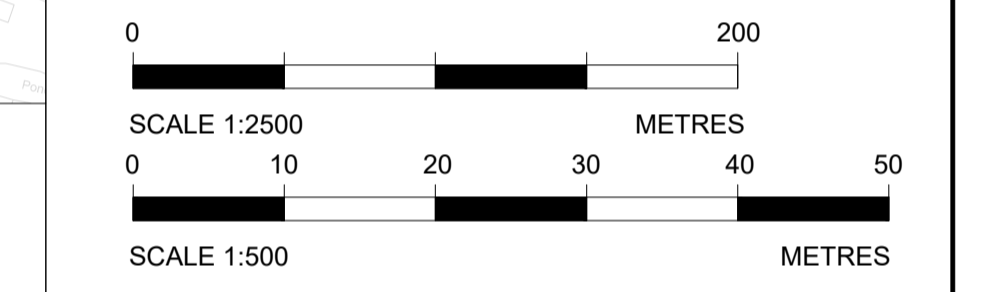
Key

PLAN

- CHAINAGE
- CENTRELINES OF NEW ROAD

PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINES OF NEW ROAD



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
PD1	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

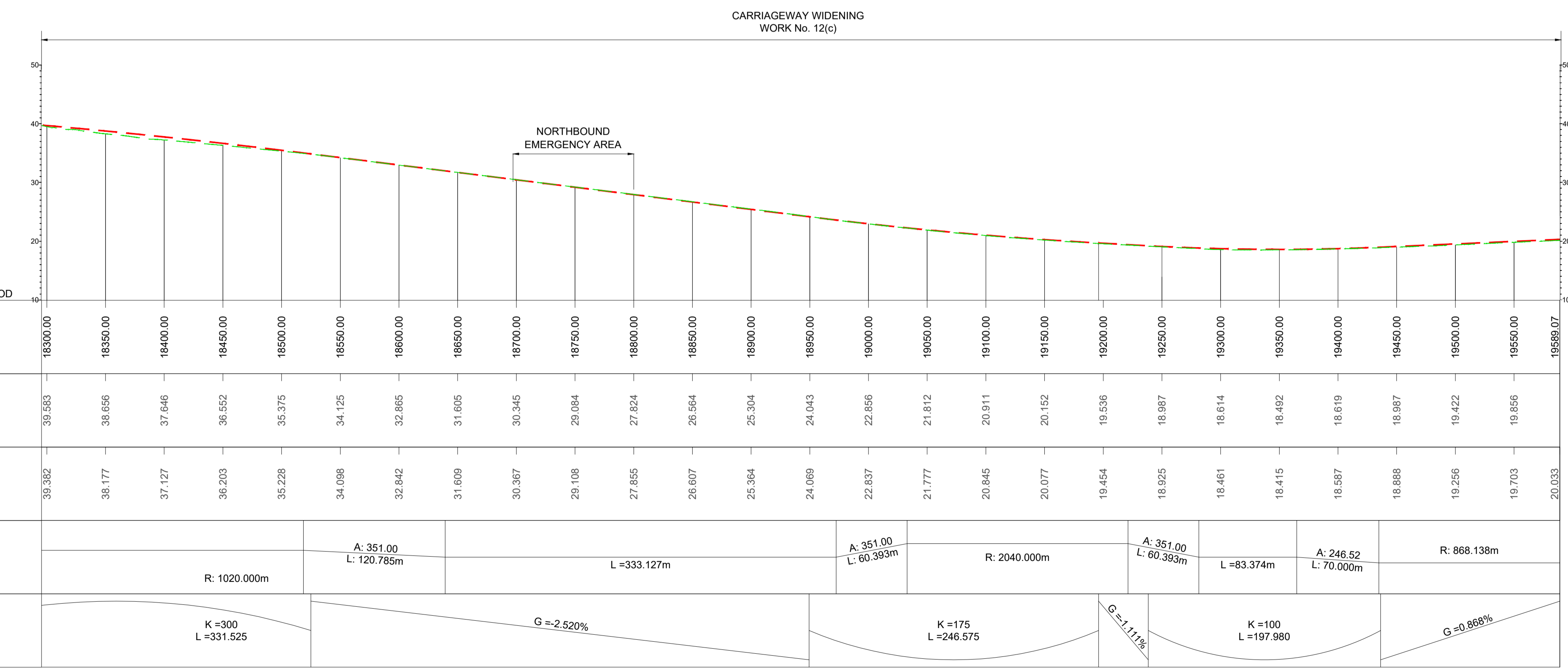
Development Consent Order Number:	TR010060	Development Consent Order Drawing Number:	TR010060/APP/2.11
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Project
 A12 CHELMSFORD TO A120 WIDENING SCHEME

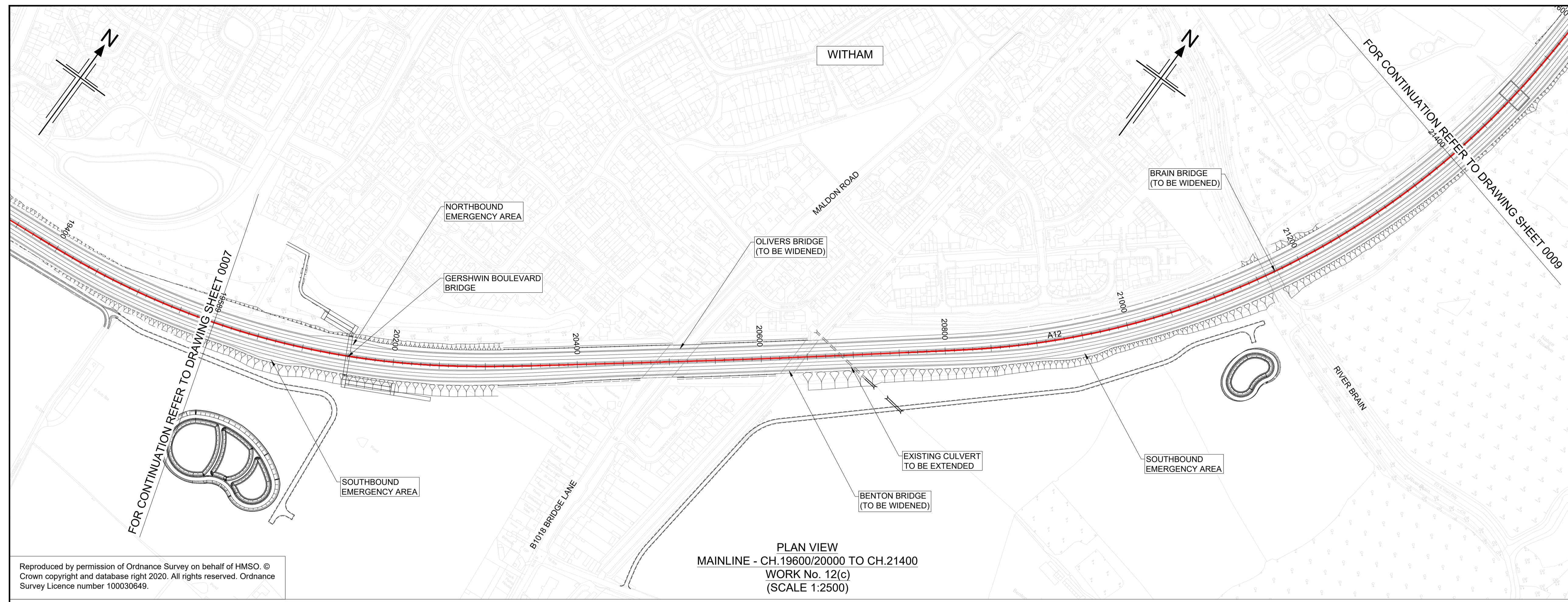
Drawing title
 ENGINEERING SECTIONS
 (PLAN AND PROFILES)
 MAINLINE SHEET 7 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF3	Drawing status	S4
Scale at A1 (841x594mm)	AS SHOWN	Rev	P01
Jacobs No.	B36601D1	Client no.	HE551497
Drawing number	PIN	Originator	Volume
HE551497 -	JAC	- LDC -	
SCHW		-DR- C -2007	



LONGITUDINAL SECTION
 MAINLINE - CH.18300 TO CH.19600/20000
 (SCALE H=1:2500, V=1:500)

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PLAN VIEW
MAINLINE - CH.19600/20000 TO CH.21400
WORK No. 12(c)
(SCALE 1:2500)

- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 2. THIS DESIGN SHOWN ON THE ENGINEERING SECTION DRAWINGS WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO WITHIN THE ORDER LIMITS AND ANY OTHER CONSTRAINTS INCLUDED IN THE DEVELOPMENT CONSENT ORDER (TR010060/APP/3.1)
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 5. THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA. ALL LEVELS ARE GIVEN BY REFERENCE TO THE OS DATUM.
 6. FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

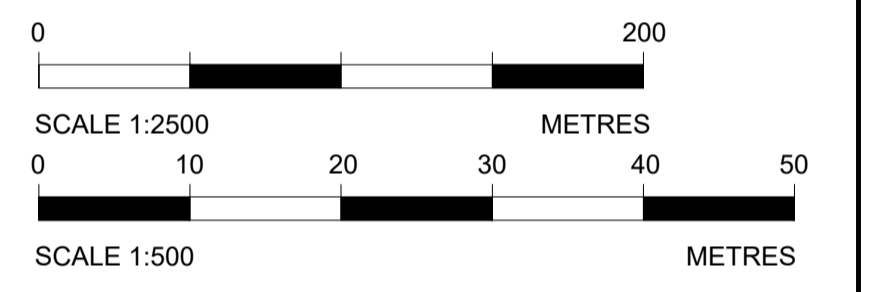
Key

PLAN

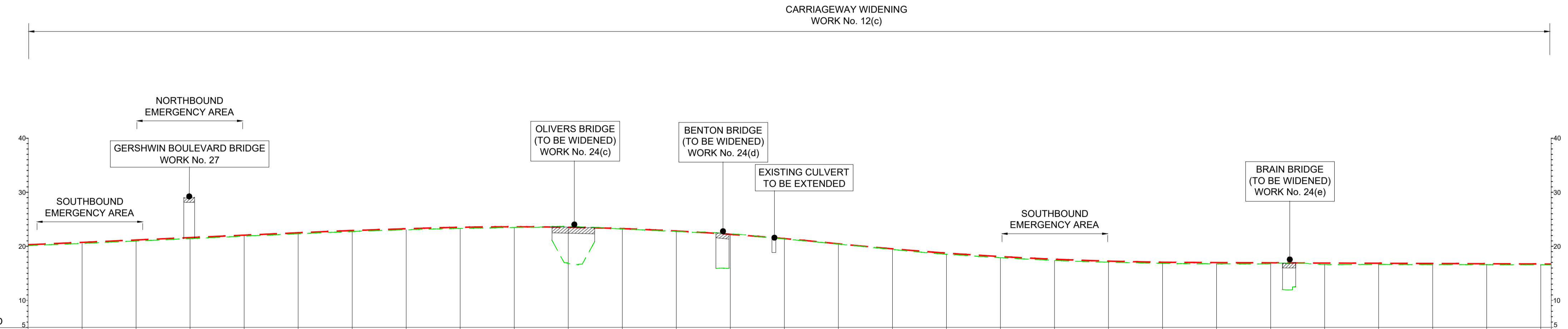
- CHAINAGE
- CENTRELINE OF NEW ROAD

PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

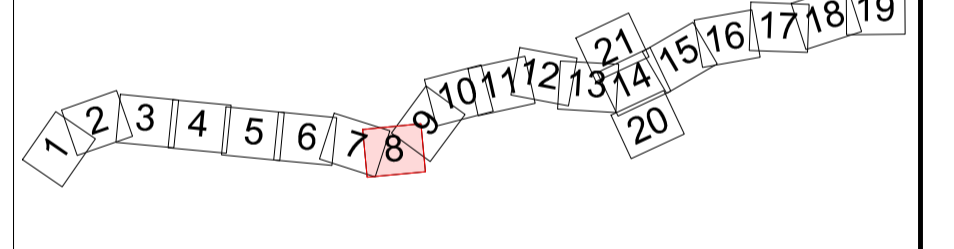


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LONGITUDINAL SECTION
MAINLINE - CH.19600/20000 TO CH.21400
(SCALE H=1:2500, V=1:500)

KEY PLAN
SCALE N.T.S.



P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11



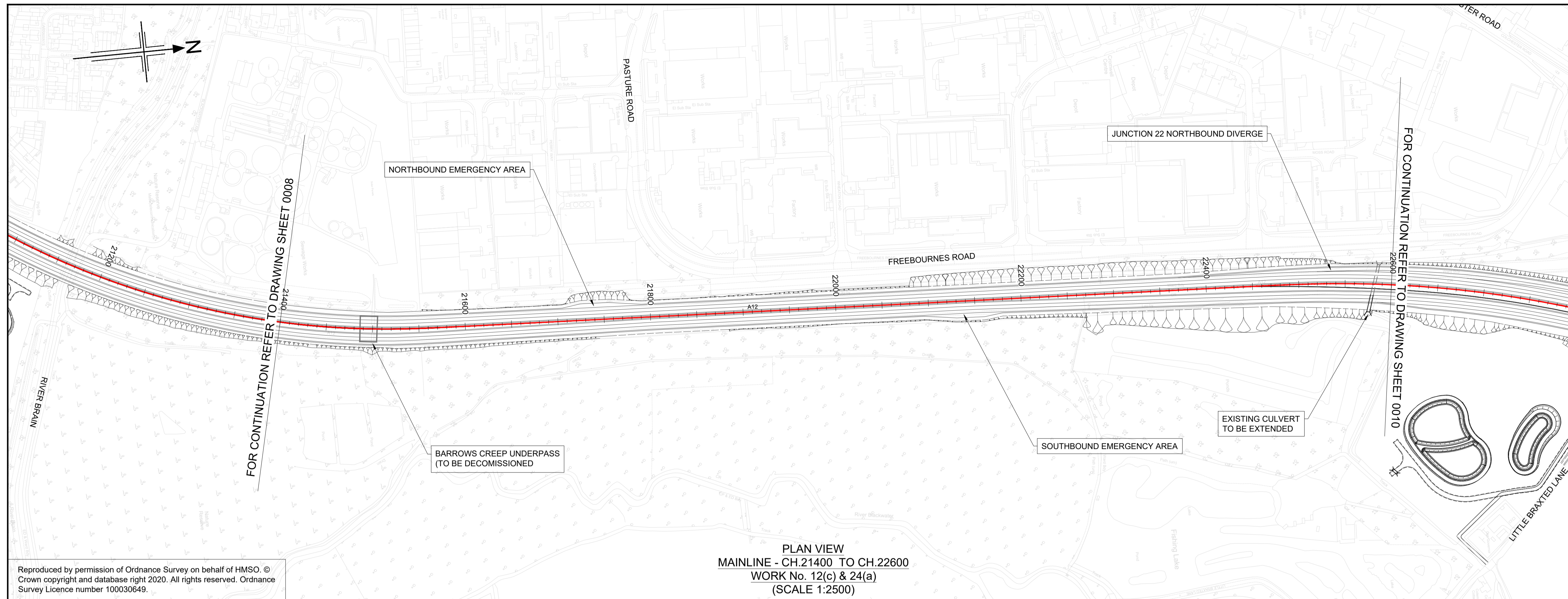
Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 8 OF 19

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

Drawing number: HE551497 - JAC - LDC - SCHW
Originator: JAC
Volume: LDC - DR - C - 2008
Location: SCHW
Type: Role | Number

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PLAN VIEW
MAINLINE - CH.21400 TO CH.22600
WORK No. 12(c) & 24(a)
(SCALE 1:2500)

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 - THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA. ALL LEVELS ARE GIVEN BY REFERENCE TO THE OS DATUM.
 - FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

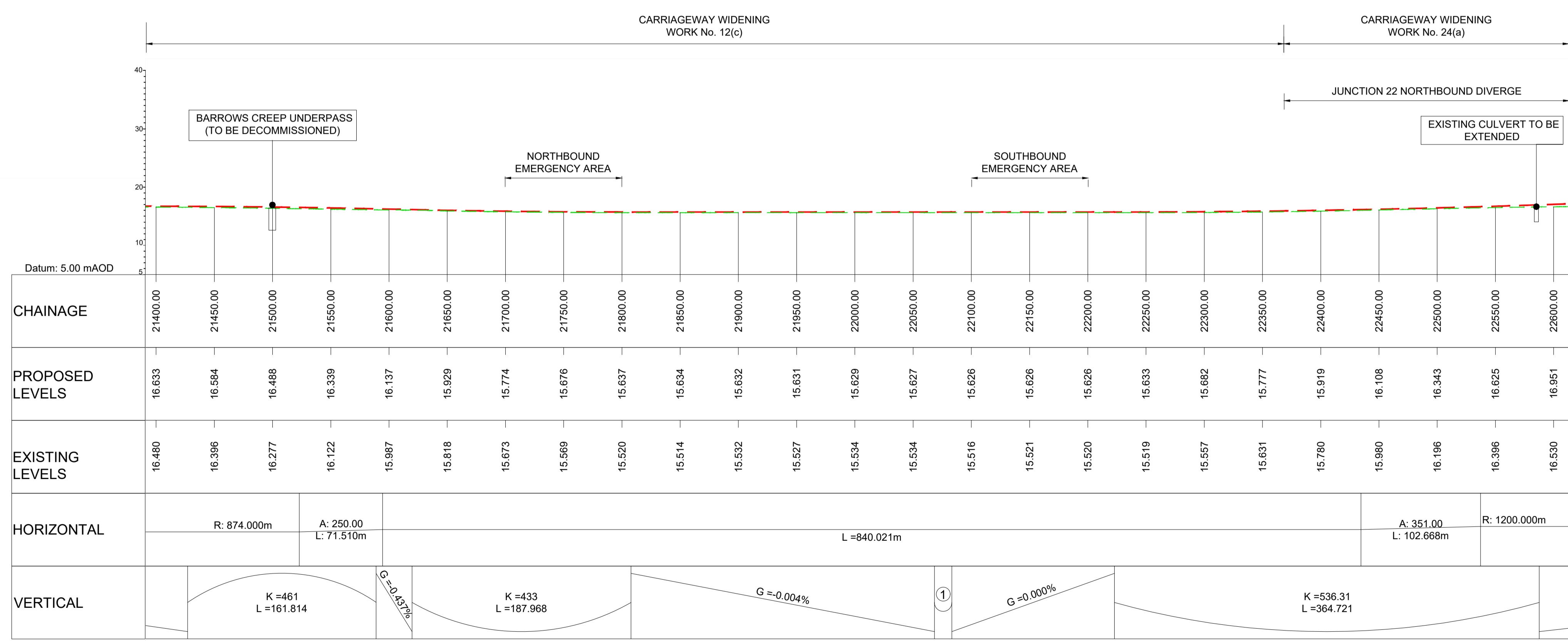
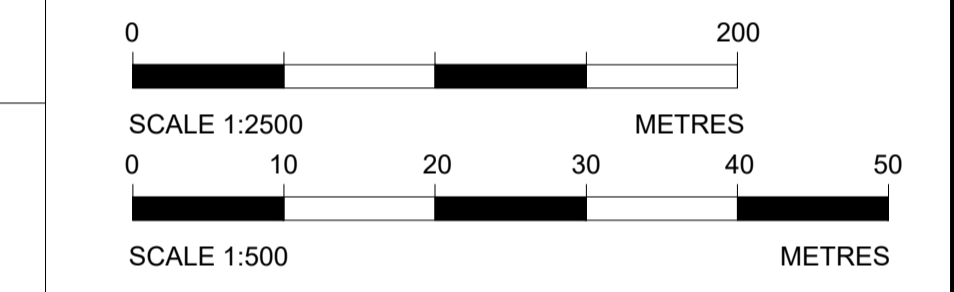
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PLAN

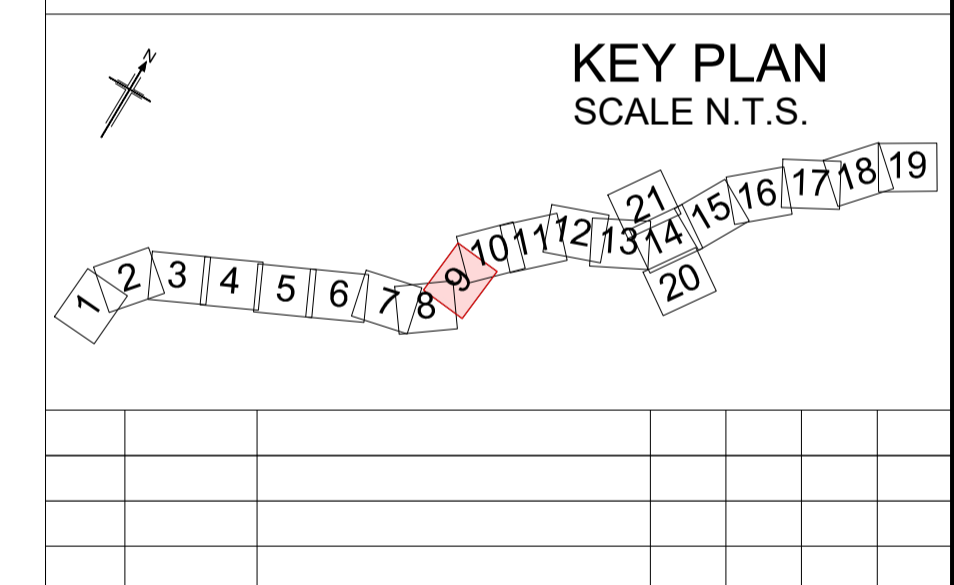
- CHAINAGE
- CENTRELINE OF NEW ROAD

PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD



LONGITUDINAL SECTION
MAINLINE - CH.21400 TO CH.22600
(SCALE H=1:2500, V=1:500) ① K=399.34; L=15.000



P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11



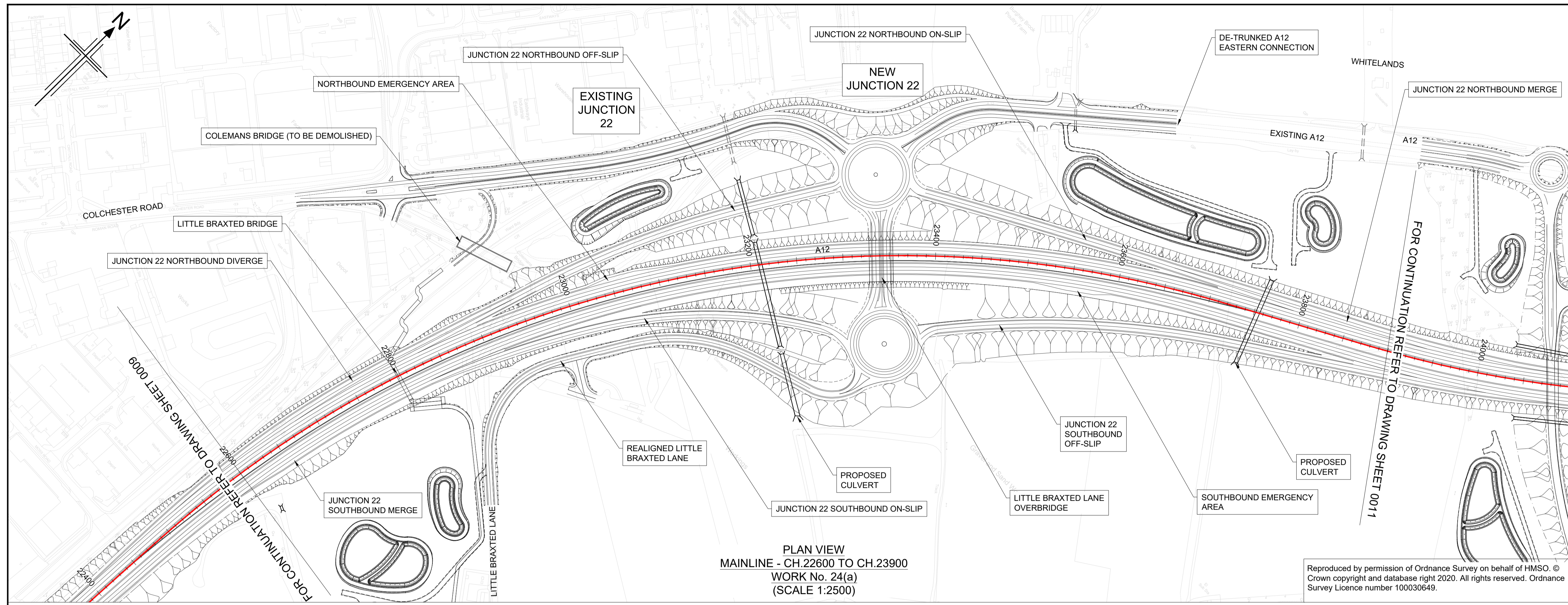
Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
**ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 9 OF 19**

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)
Purpose of issue	DCO APPLICATION
State Code	Preliminary
Project Stage	PCF3
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	P01

HE551497 - JAC - LDC - SCHW - DR - C - 2009

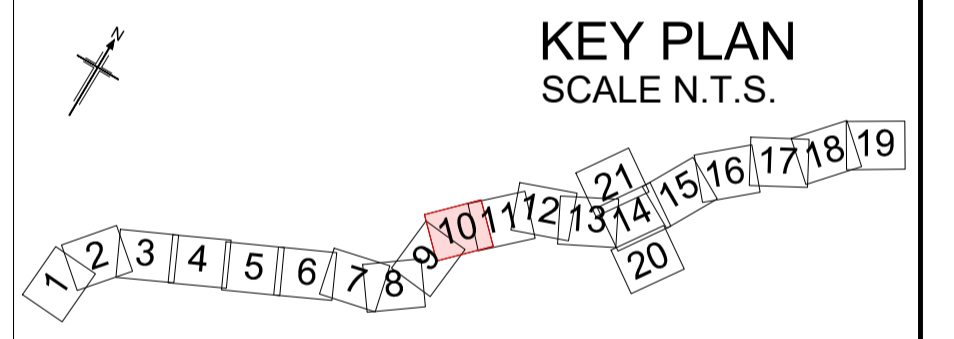
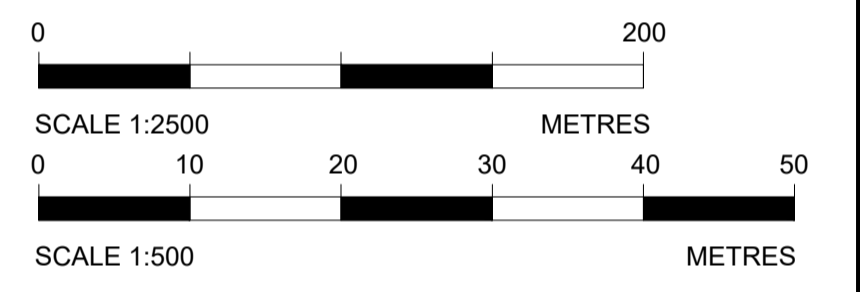
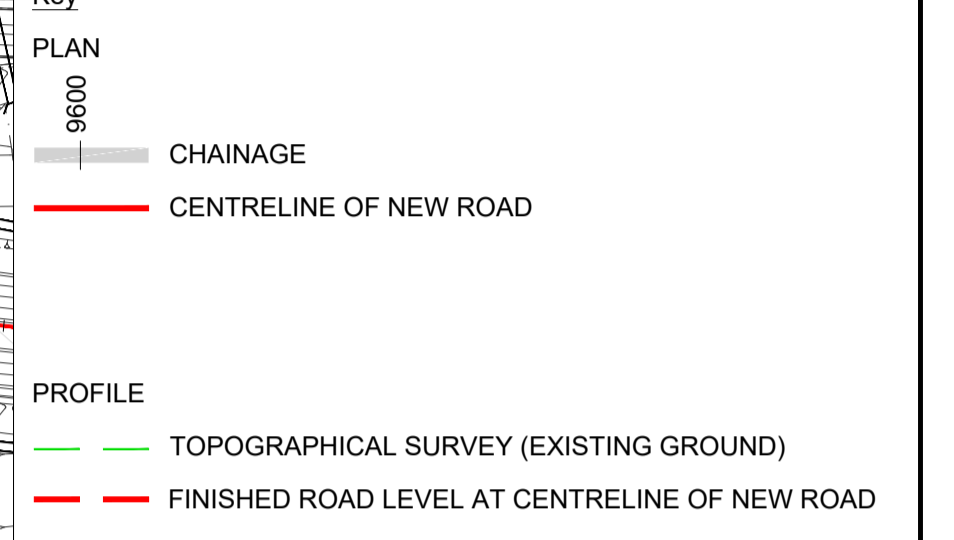
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PLAN VIEW
MAINLINE - CH.22600 TO CH.23900
WORK No. 24(a)
(SCALE 1:2500)

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 - FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR-C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR-C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR-C-2021 FOR SIDE ROAD PROFILES.



PO1	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

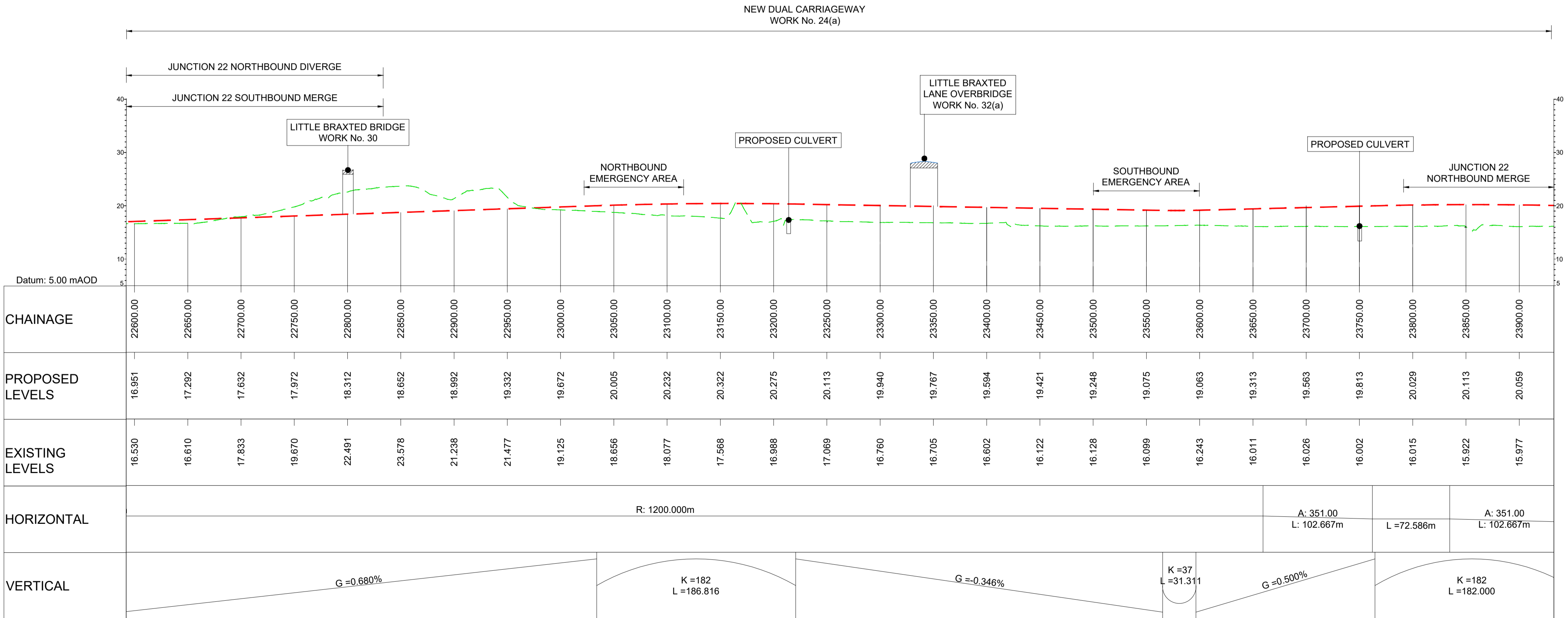
Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11



Client
Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

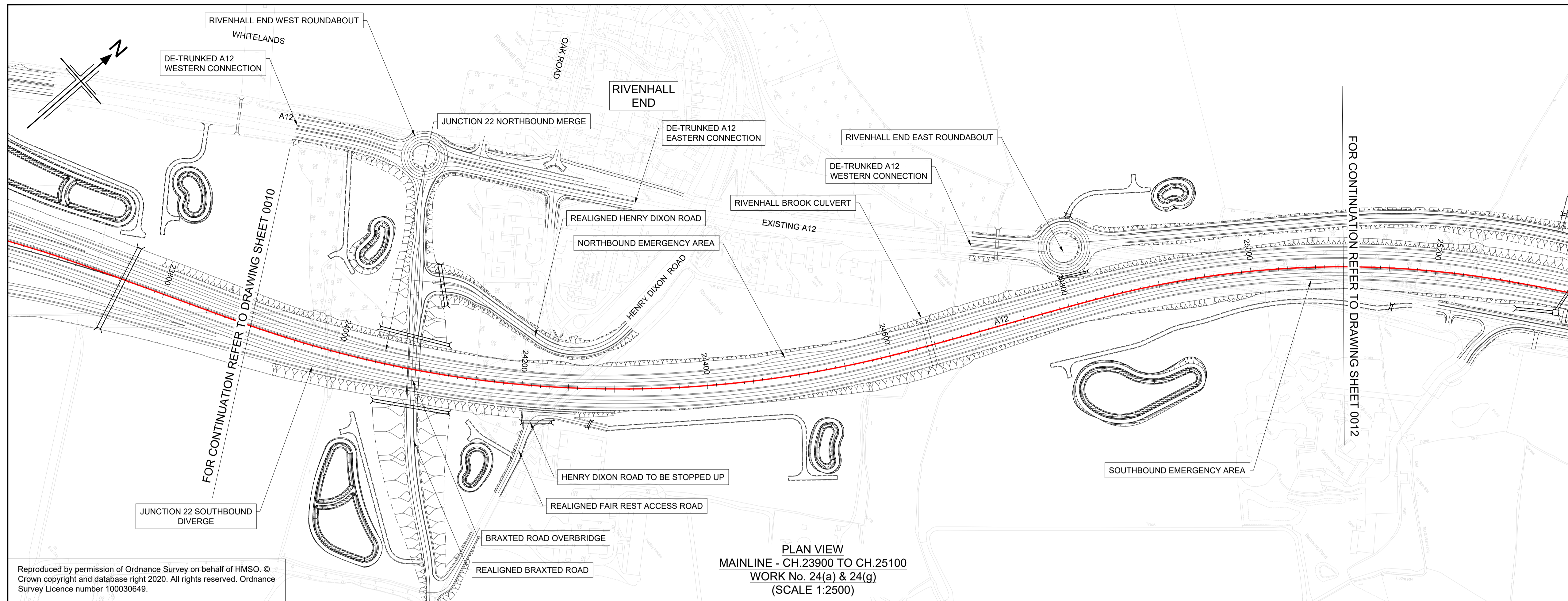
Drawing title
ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 10 OF 19

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF3	Drawing status
Scale at A1 (841x594mm)	AS SHOWN	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01
Drawing number	PIN	Originator
HE551497 - JAC - LDC - SCHW		-DR- C -2010



LONGITUDINAL SECTION
MAINLINE - CH.22600 TO CH.23900
(SCALE H=1:2500, V=1:500)

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Key

PLAN

- 9600 CHAINAGE
- CENTRELINE OF NEW ROAD

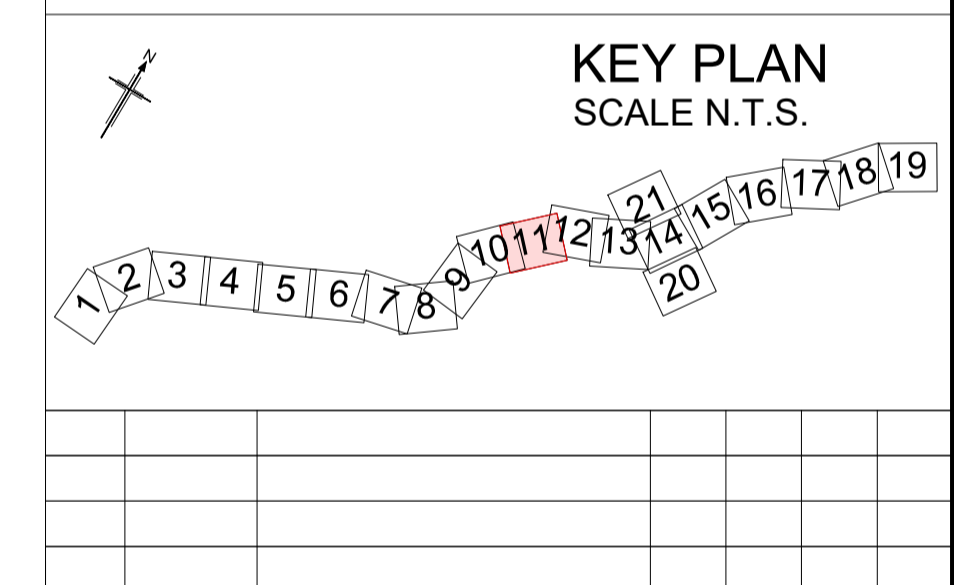
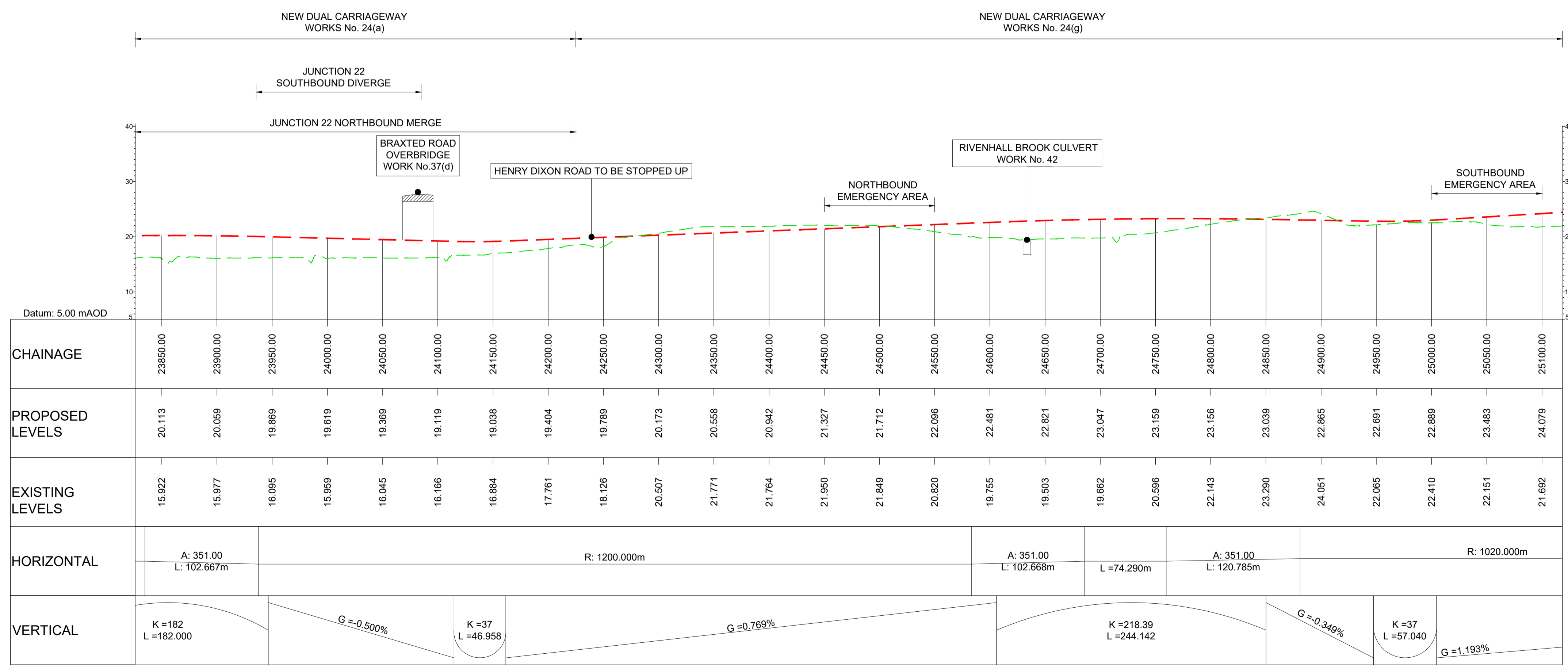
PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

0 200
SCALE 1:2500 METRES

0 10 20 30 40 50
SCALE 1:500 METRES

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Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number: TR010060

Development Consent Order Drawing Number: TR010060/APP/2.11

Client: **national highways**

Project: **A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 11 OF 19**

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)
Purpose of issue	DCO APPLICATION
State Code	Preliminary
Project Stage	PCF3
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497

Drawing number: HE551497 - JAC - LDC - SCHW - DR - C - 2011

Originator: JAC

Volume: LDC - DR - C - 2011

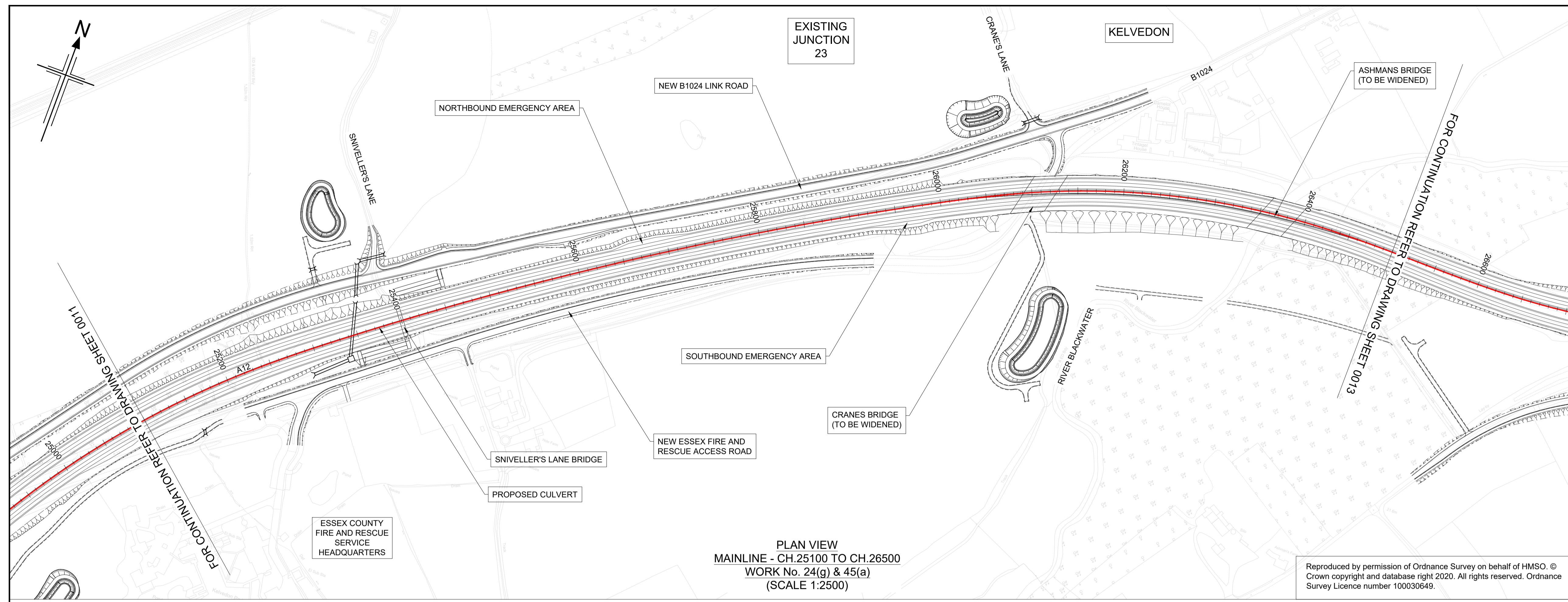
Location: SCHW

Type: DR

Role: C

Number: 2011

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PLAN VIEW
MAINLINE - CH.25100 TO CH.26500
WORK No. 24(g) & 45(a)
(SCALE 1:2500)

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 6. FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

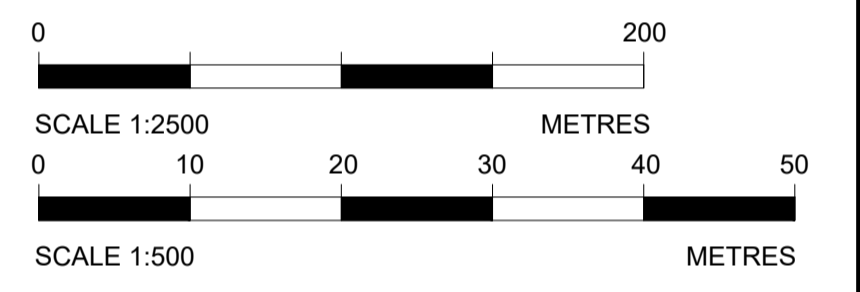
Key

PLAN

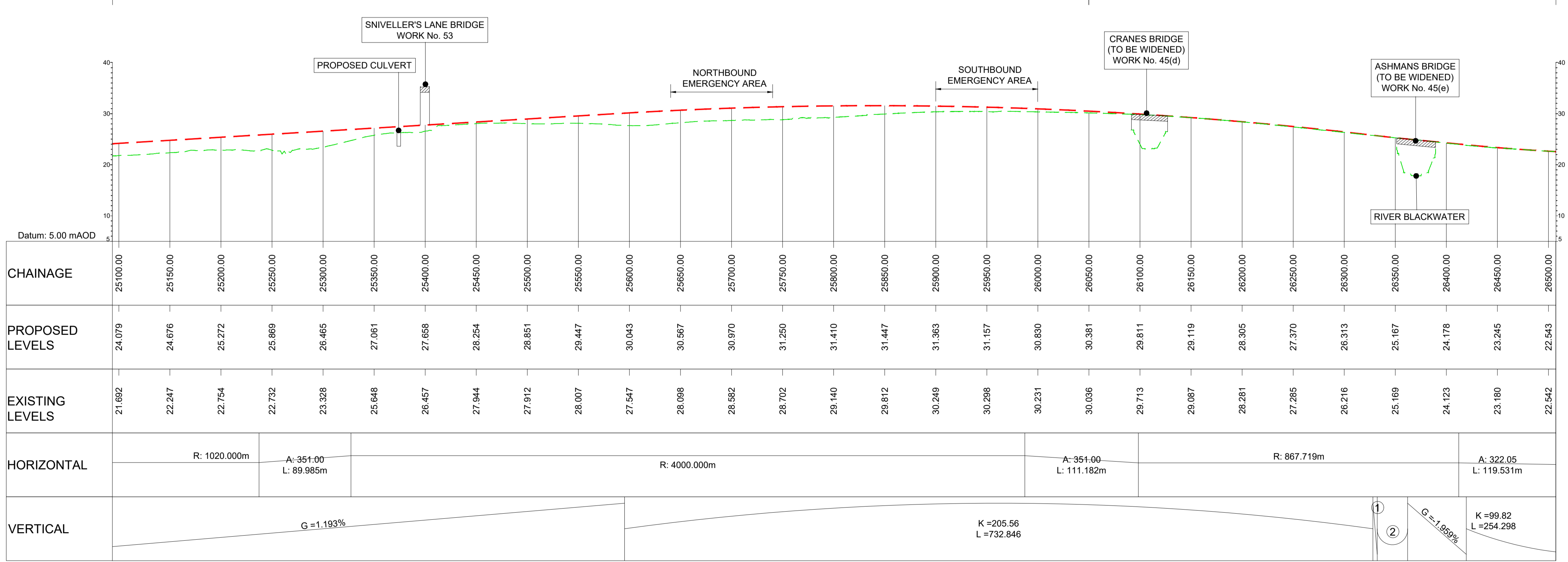
- 0000 CHAINAGE
- CENTRELINE OF NEW ROAD

PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

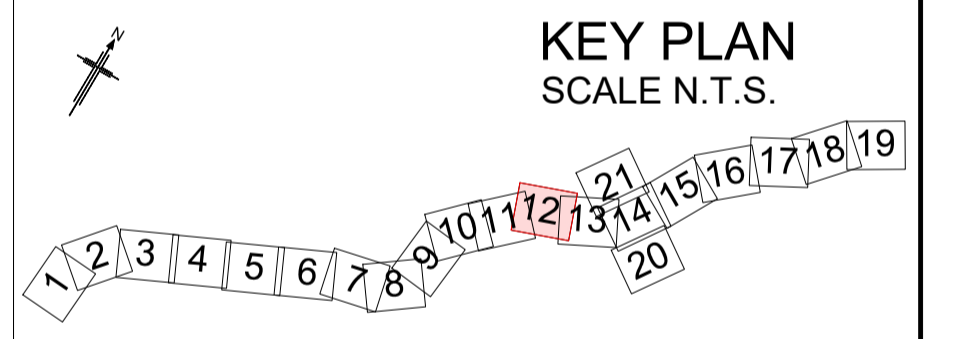


NEW DUAL CARRIAGEWAY / CARRIAGEWAY WIDENING WORK No. 24(g) NEW DUAL CARRIAGEWAY / CARRIAGEWAY WIDENING WORK No. 45(a)



LONGITUDINAL SECTION
MAINLINE - CH.25100 TO CH.26500
(SCALE H=1:2500, V=1:500)

- ① G = -2.372%
- ② K = 71.96; L = 29.754



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11

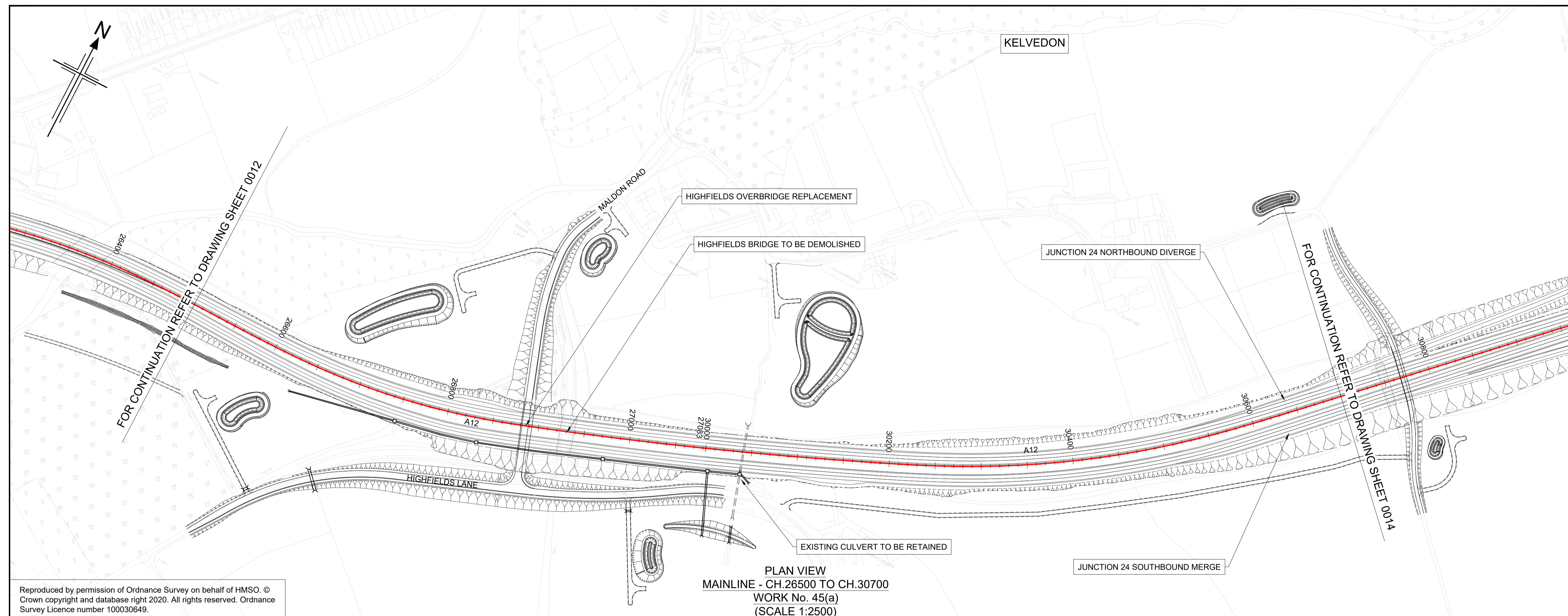


Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 12 OF 19

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

Drawing number: HE551497 - JAC - LDC - SCHW - DR - C - 2012
Originator: JAC
Volume: LDC - DR - C - 2012



PLAN VIEW
MAINLINE - CH.26500 TO CH.30700
WORK No. 45(a)
(SCALE 1:2500)

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HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

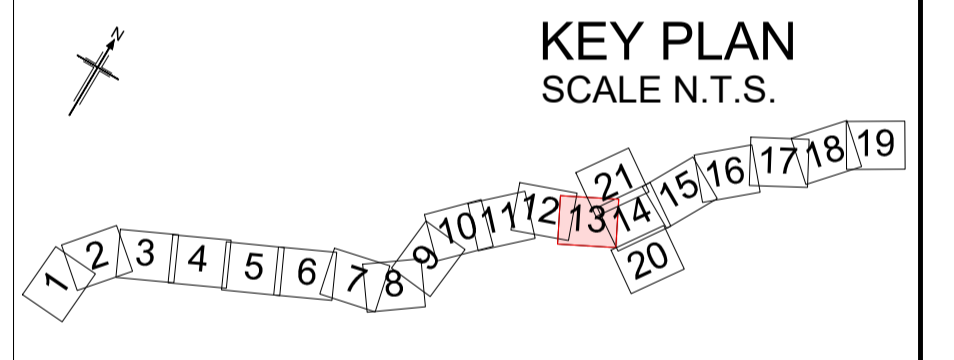
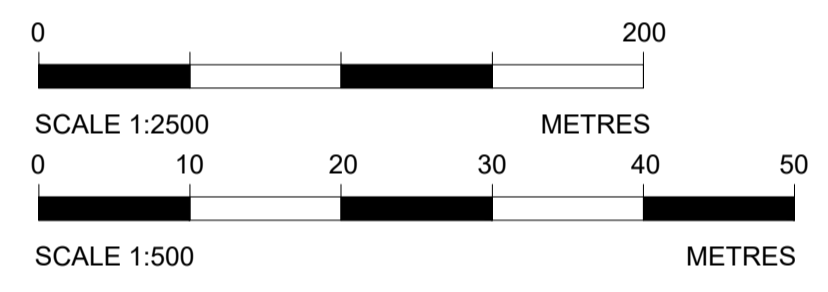
Key

PLAN

- CHAINAGE
- CENTRELINE OF NEW ROAD

PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11

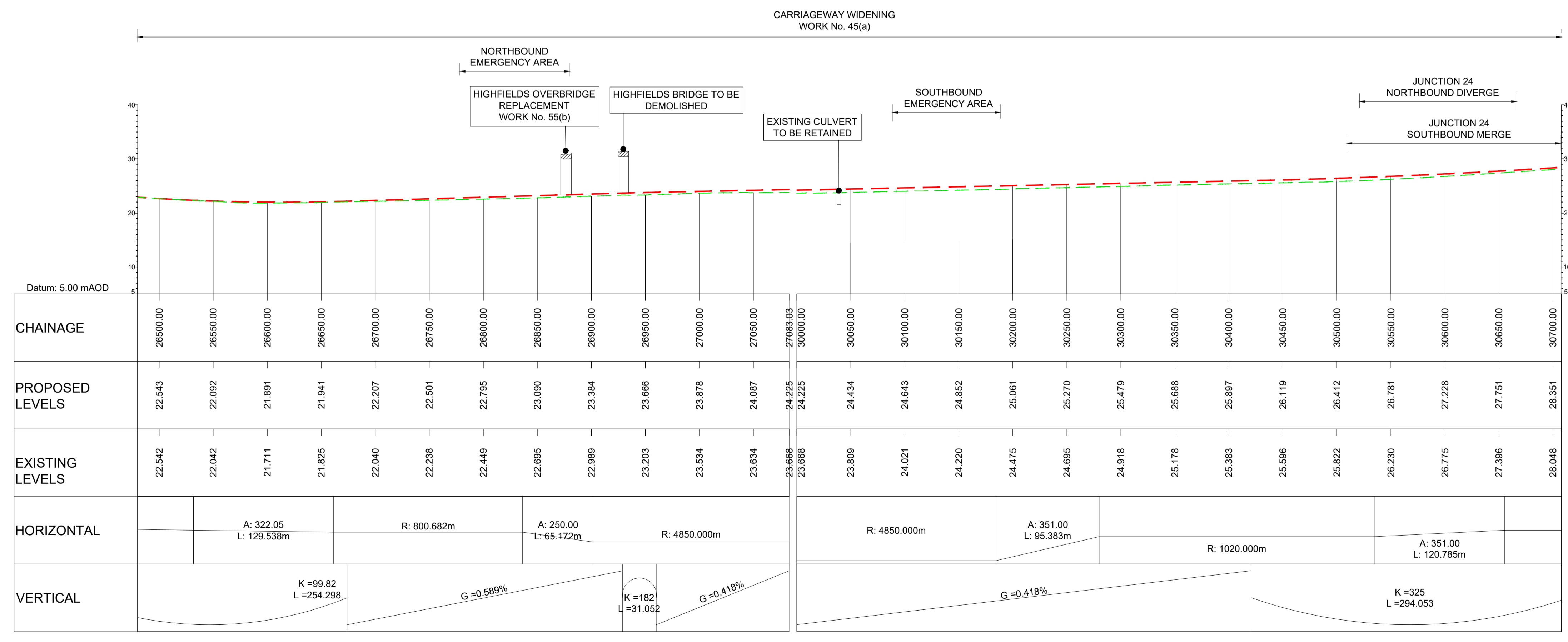


Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 13 OF 19

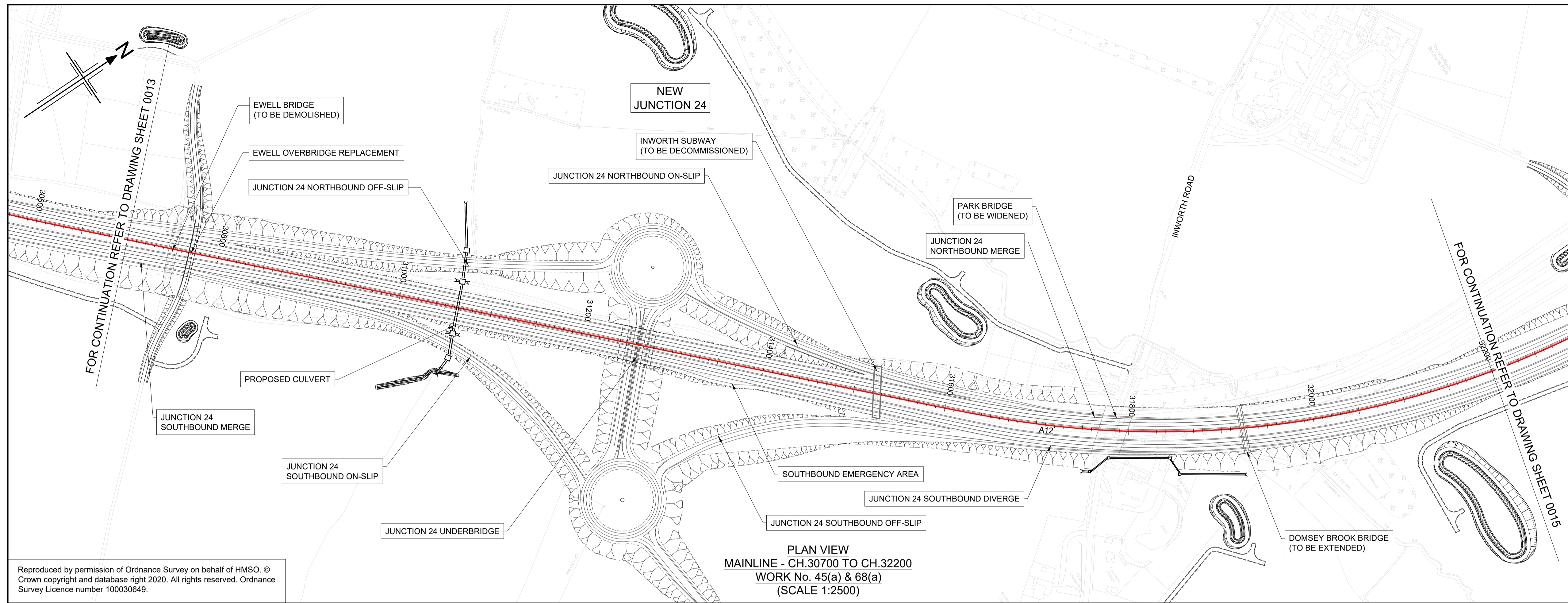
Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF3	Drawing status
Scale at A1 (841x594mm)	AS SHOWN	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01
Drawing number	PIN	Originator
HE551497 - JAC - LDC - SCHW		-DR- C -2013

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LONGITUDINAL SECTION
MAINLINE - CH.26500 TO CH.30700
(SCALE H=1:2500, V=1:500)

CHAINAGE	26500.00	26550.00	26600.00	26650.00	26700.00	26750.00	26800.00	26850.00	26900.00	26950.00	27000.00	27050.00	27093.03	27093.03	30000.00	30050.00	30100.00	30150.00	30200.00	30250.00	30300.00	30350.00	30400.00	30450.00	30500.00	30550.00	30600.00	30650.00	30700.00
PROPOSED LEVELS	22.543	22.092	21.891	21.941	22.207	22.501	22.795	23.090	23.384	23.666	23.878	24.087	24.225	24.225	24.434	24.643	24.852	25.061	25.270	25.479	25.688	25.897	26.119	26.412	26.781	27.228	27.751	28.351	
EXISTING LEVELS	22.542	22.042	21.711	21.825	22.040	22.238	22.449	22.695	22.989	23.203	23.534	23.634	23.666	23.668	23.809	24.021	24.220	24.475	24.695	24.918	25.178	25.383	25.596	25.822	26.230	26.775	27.396	28.048	
HORIZONTAL	A: 322.05 L: 129.538m		R: 800.682m			A: 250.00 L: 65.472m		R: 4850.000m			R: 4850.000m			A: 351.00 L: 95.383m		R: 1020.000m			A: 351.00 L: 120.785m										
VERTICAL	K=99.82 L=254.298		G=0.589%			K=182 L=31.052		G=-0.418%			G=-0.418%			K=325 L=294.053															



PLAN VIEW
MAINLINE - CH.30700 TO CH.32200
WORK No. 45(a) & 68(a)
(SCALE 1:2500)

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HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

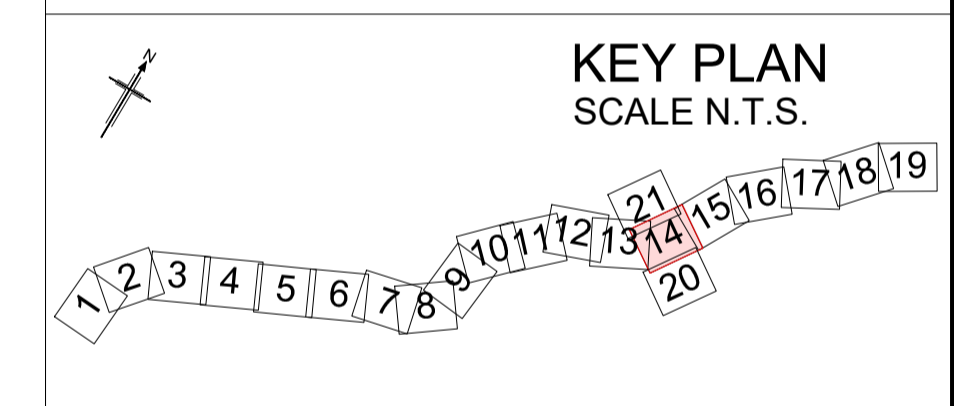
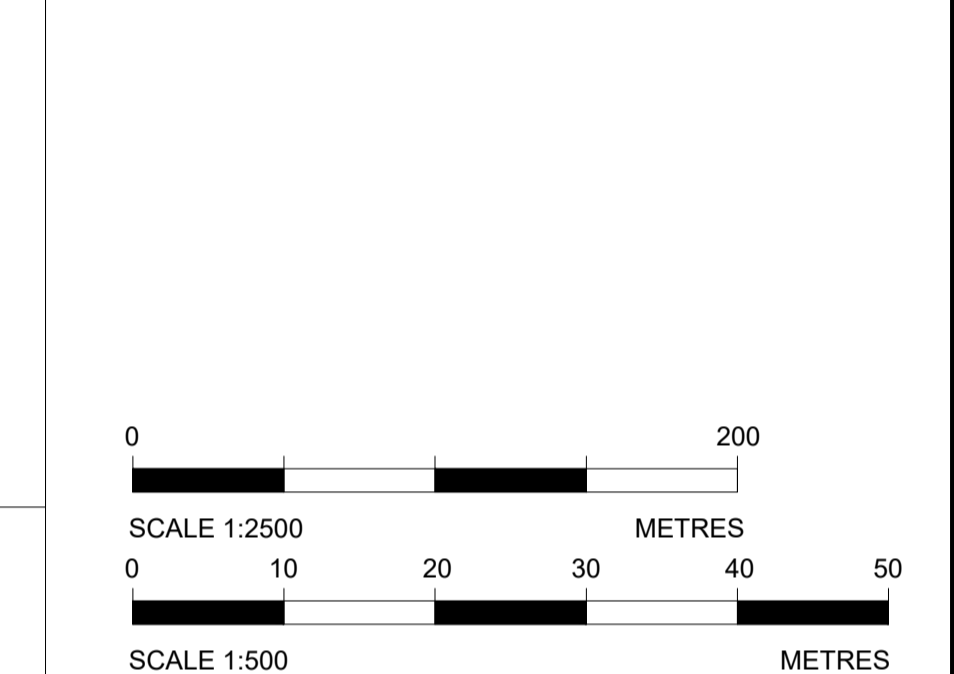
Key

PLAN

- CHAINAGE
- CENTRELINE OF NEW ROAD

PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11



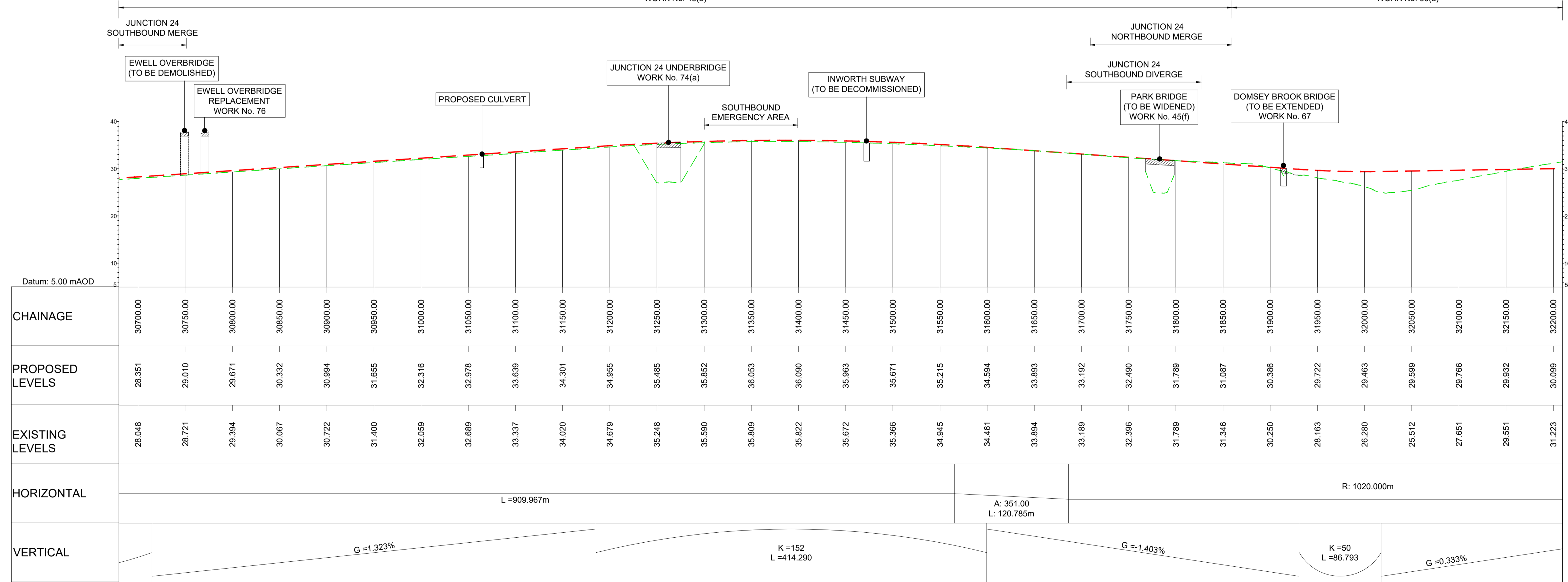
Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
**ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 14 OF 19**

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

Drawing number
HE551497 - JAC - LDC - SCHW - DR - C - 2014

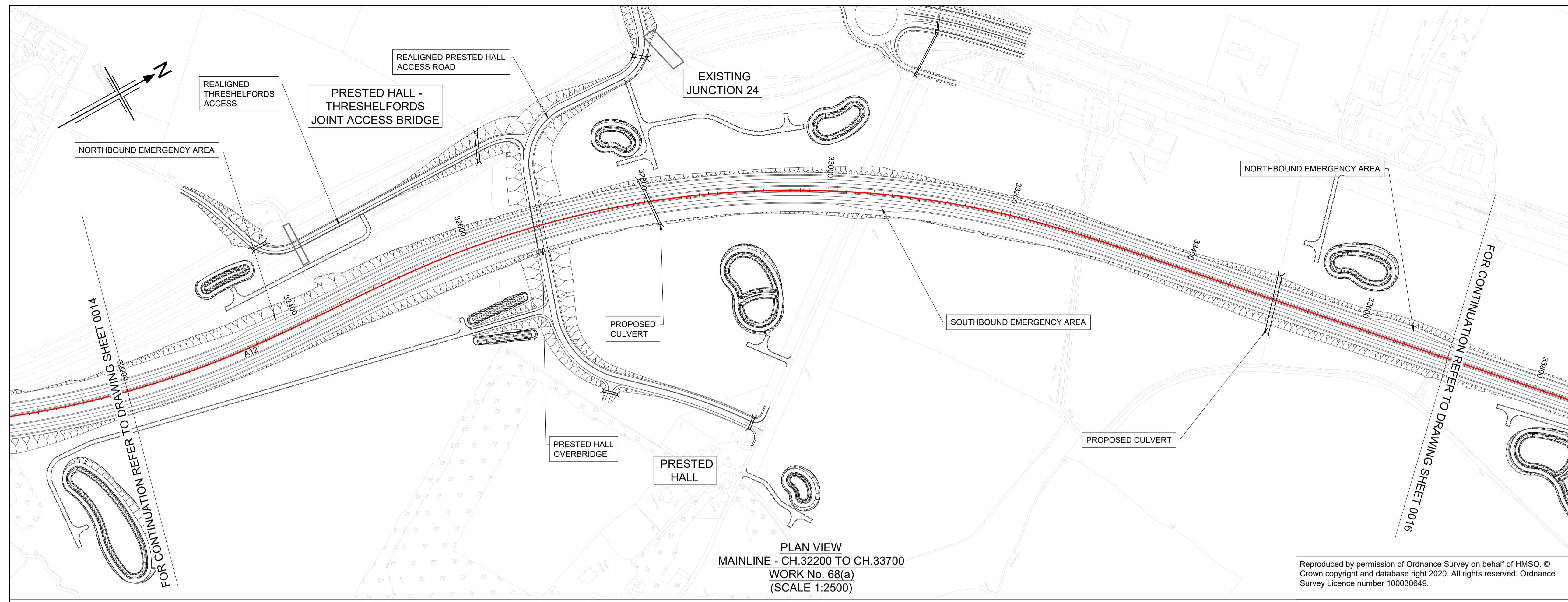
CARRIAGEWAY WIDENING WORK No. 45(a) NEW DUAL CARRIAGEWAY WORK No. 68(a)



LONGITUDINAL SECTION
MAINLINE - CH.30700 TO CH.32200
(SCALE H=1:2500, V=1:500)

CHAINAGE	PROPOSED LEVELS	EXISTING LEVELS
30700.00	28.351	28.048
30750.00	29.010	28.721
30800.00	29.671	29.384
30850.00	30.332	30.067
30900.00	30.994	30.722
30950.00	31.655	31.400
31000.00	32.316	32.059
31050.00	32.978	32.689
31100.00	33.639	33.337
31150.00	34.301	34.020
31200.00	34.955	34.679
31250.00	35.485	35.248
31300.00	35.852	35.590
31350.00	36.053	35.809
31400.00	36.090	35.822
31450.00	35.963	35.672
31500.00	35.671	35.386
31550.00	35.215	34.945
31600.00	34.594	34.481
31650.00	33.893	33.894
31700.00	33.192	33.189
31750.00	32.490	32.396
31800.00	31.789	31.789
31850.00	31.087	31.346
31900.00	30.386	30.250
31950.00	29.722	28.163
32000.00	29.463	26.280
32050.00	29.599	25.512
32100.00	29.766	27.651
32150.00	29.932	29.551
32200.00	30.099	31.223

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PLAN VIEW
MAINLINE - CH.32200 TO CH.33700
WORK No. 68(a)
(SCALE 1:2500)

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HE551497-JAC-LDC-SCHW-DR-C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR-C-2021 FOR SIDE ROAD PROFILES.

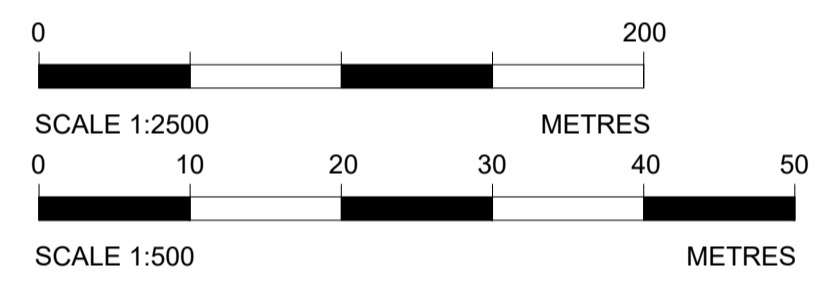
Key

PLAN

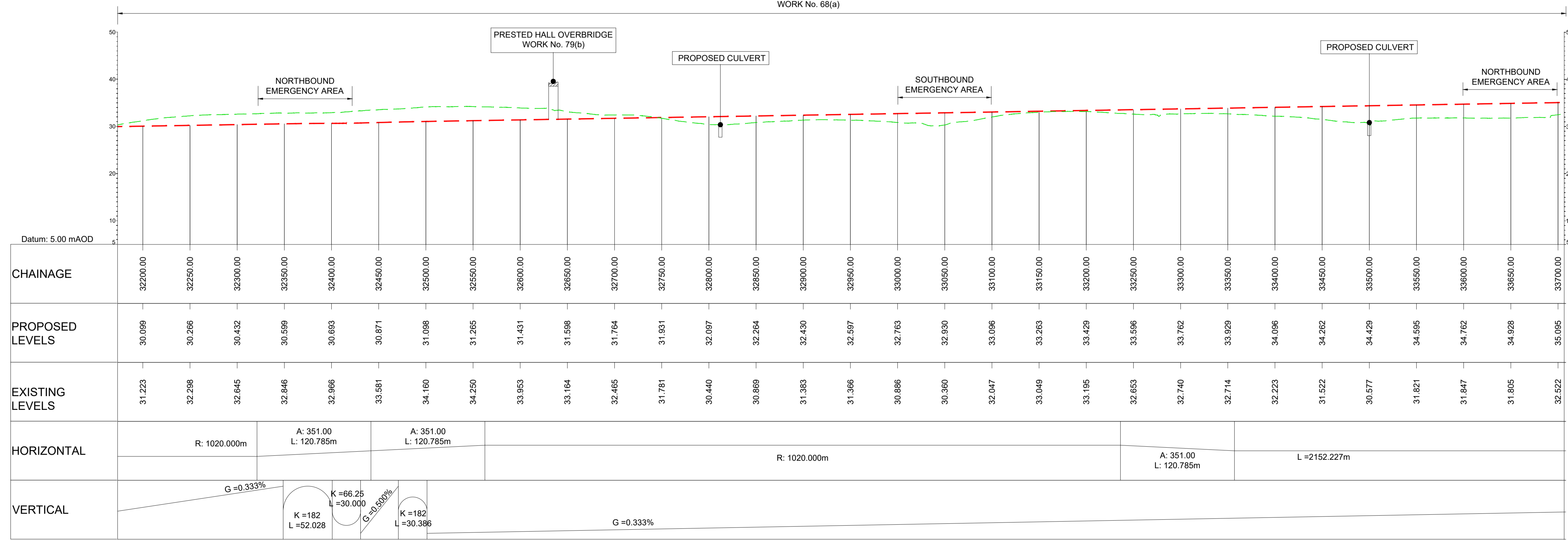
- CHAINAGE
- CENTRELINE OF NEW ROAD

PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

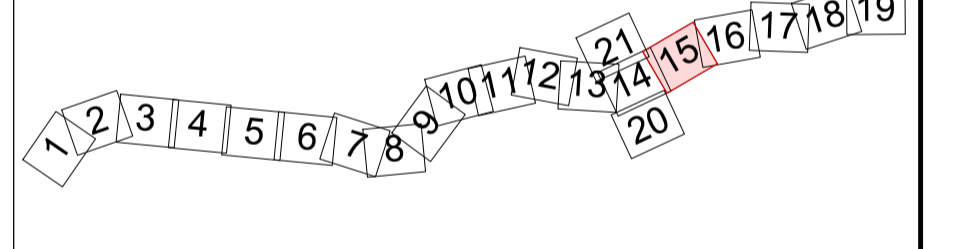


NEW DUAL CARRIAGEWAY
WORK No. 68(a)



LONGITUDINAL SECTION
MAINLINE - CH.32200 TO CH.33700
(SCALE H=1:2500, V=1:500)

KEY PLAN
SCALE N.T.S.



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

Development Consent Order Number:	TR010060	Development Consent Order Drawing Number:	TR010060/APP/2.11
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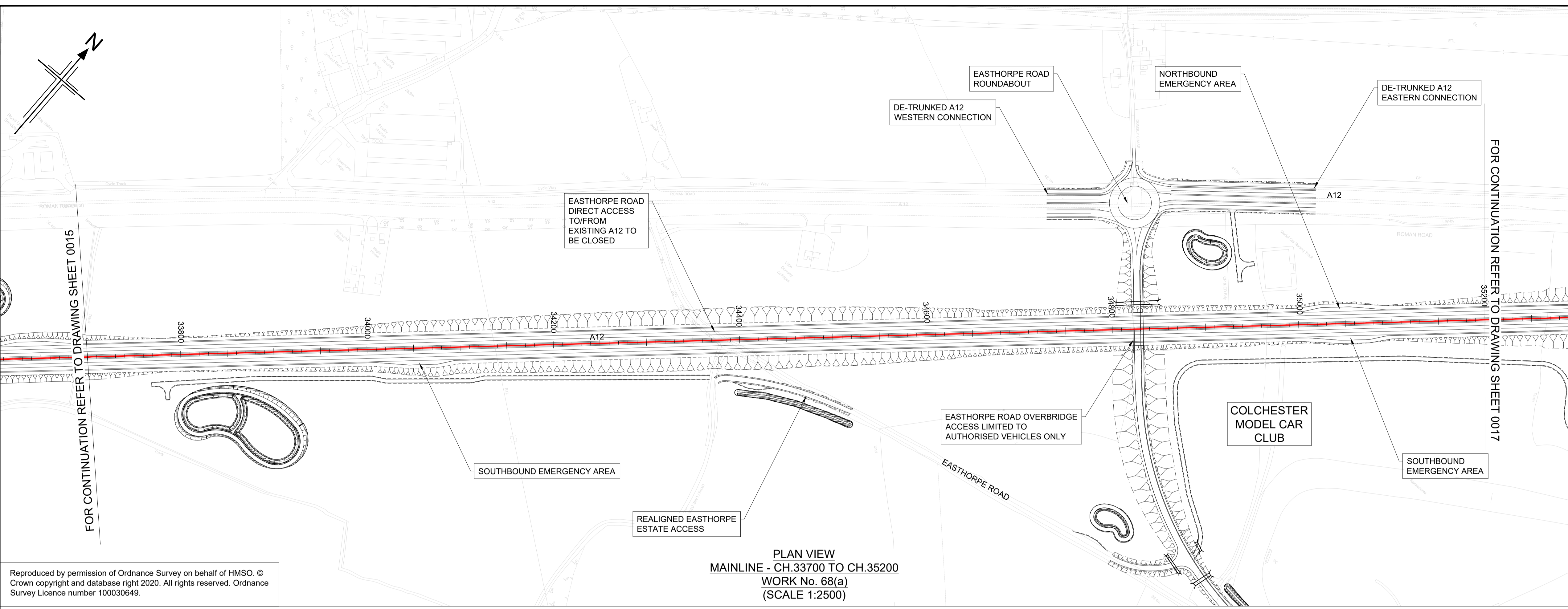
Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
**ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 15 OF 19**

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

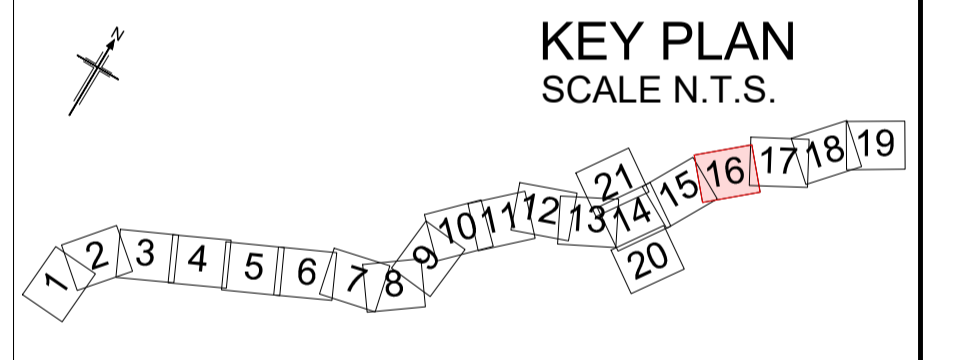
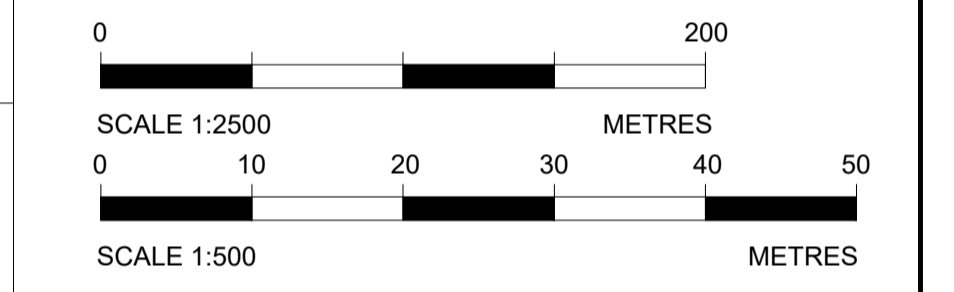
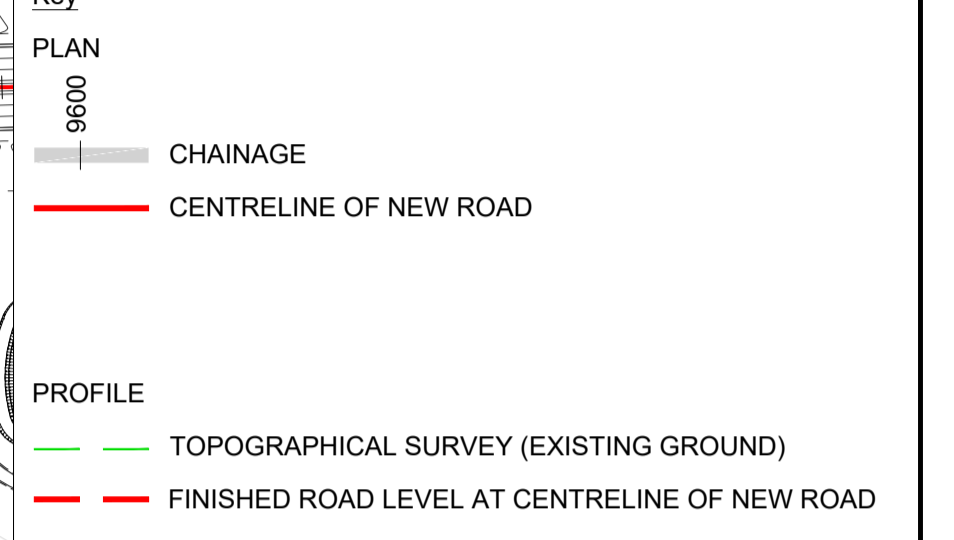
Drawing number	PIN	Originator	Volume
HE551497 -	JAC	- LDC -	
SCHW		-DR- C -	2015

c:\pwworking\jacobs_uk_highways_ssa\elnour\0155545\HE551497-JAC-LDC-SCHW-DR-C-2015.dwg - 01/08/2022 09:43:39 - A1Frame - ElnourA



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 - FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR-C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR-C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR-C-2021 FOR SIDE ROAD PROFILES.



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

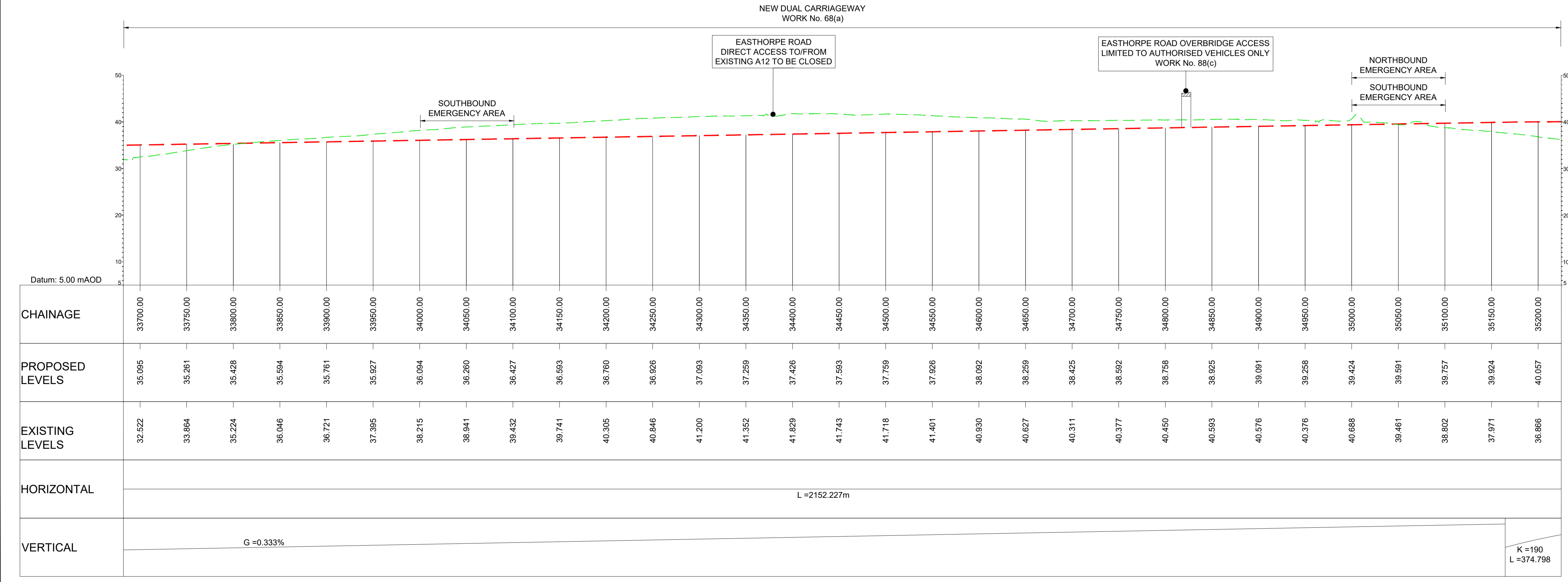
Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

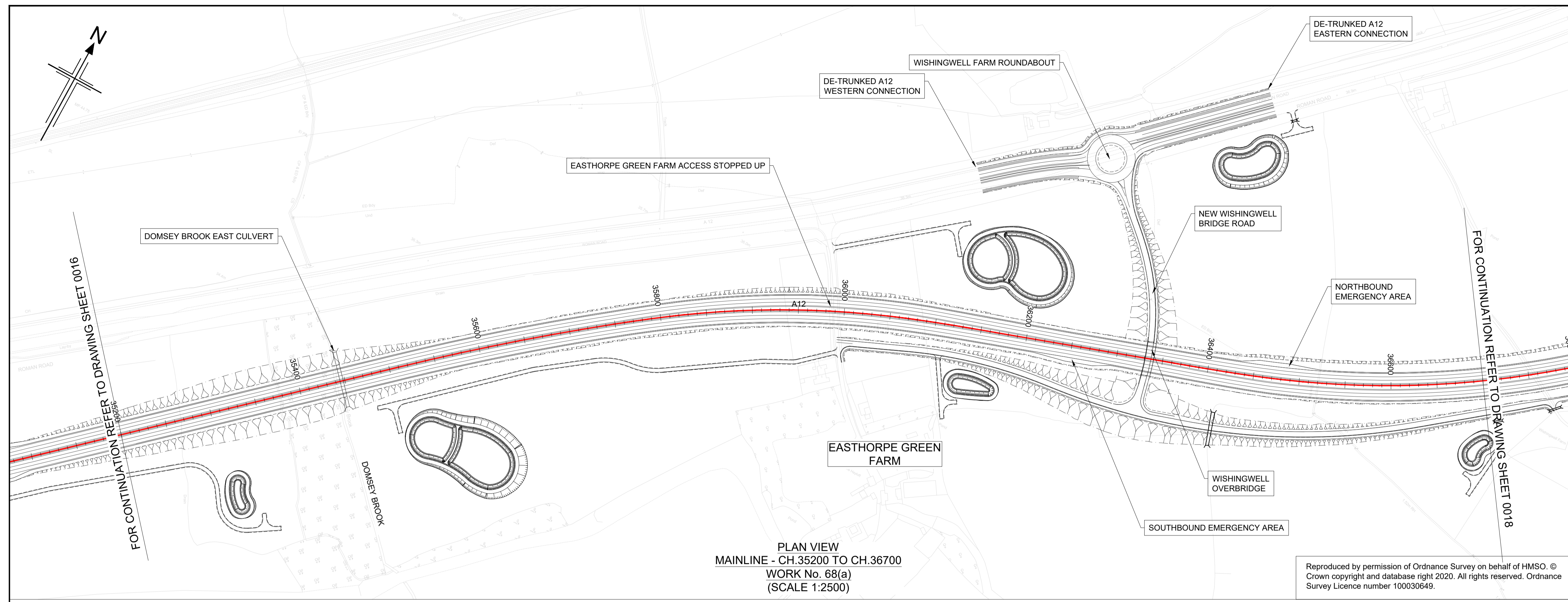
Drawing title
**ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 16 OF 19**

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF3	Drawing status	
Scale at A1 (841x594mm)	AS SHOWN	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	
Drawing number	PIN	Originator	Volume
HE551497	JAC	LDC	-
SCHW	-DR-	C	-2016



LONGITUDINAL SECTION
MAINLINE - CH.33700 TO CH.35200
(SCALE H=1:2500, V=1:500)

C:\working\jacobs_uk_highways_ssa\elnour\0155545\HE551497-JAC-LDC-SCHW-DR-C-2016.dwg - 01/08/2022 11:11:29 - A1Frame - ElnourA



PLAN VIEW
MAINLINE - CH.35200 TO CH.36700
WORK No. 68(a)
(SCALE 1:2500)

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 5. THE BASE MAPPING IS BASED ON ORDNANCE SURVEY (O/S) DATA. ALL LEVELS ARE GIVEN BY REFERENCE TO THE OS DATUM.
 6. FOR SHEET LAYOUT PLAN REFER TO:
HE551497-JAC-LDC-SCHW-DR- C-2000 FOR MAINLINE PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

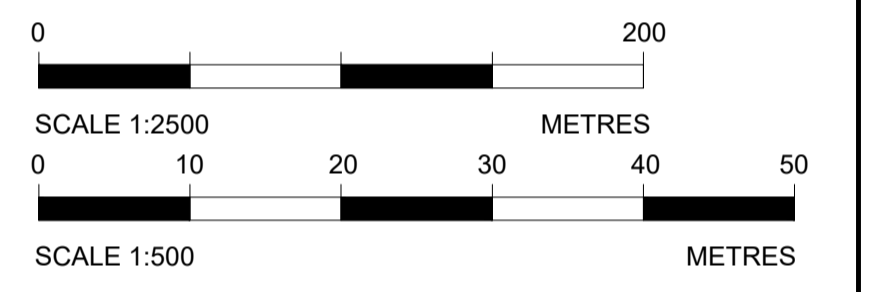
Key

PLAN

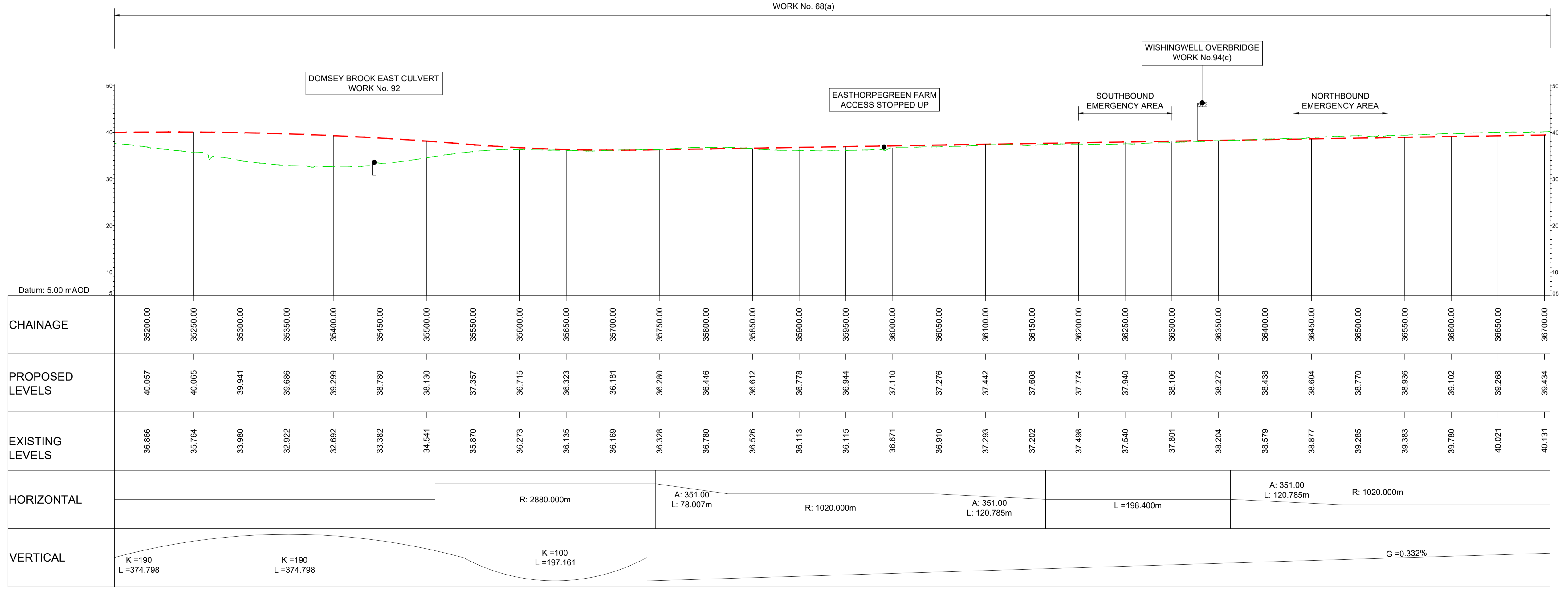
- CHAINAGE
- CENTRELINE OF NEW ROAD

PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

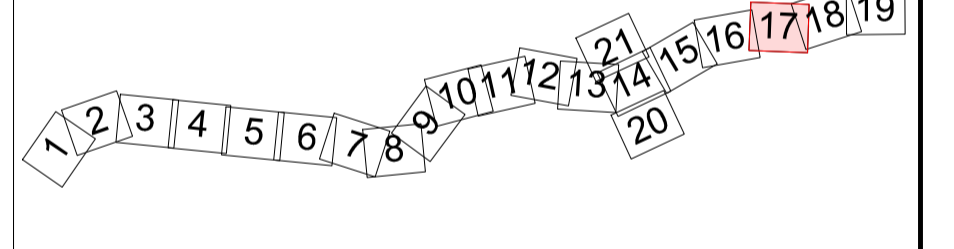


NEW DUAL CARRIAGEWAY
WORK No. 68(a)



LONGITUDINAL SECTION
MAINLINE - CH.35200 TO CH.36700
(SCALE H=1:2500, V=1:500)

KEY PLAN
SCALE N.T.S.



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM

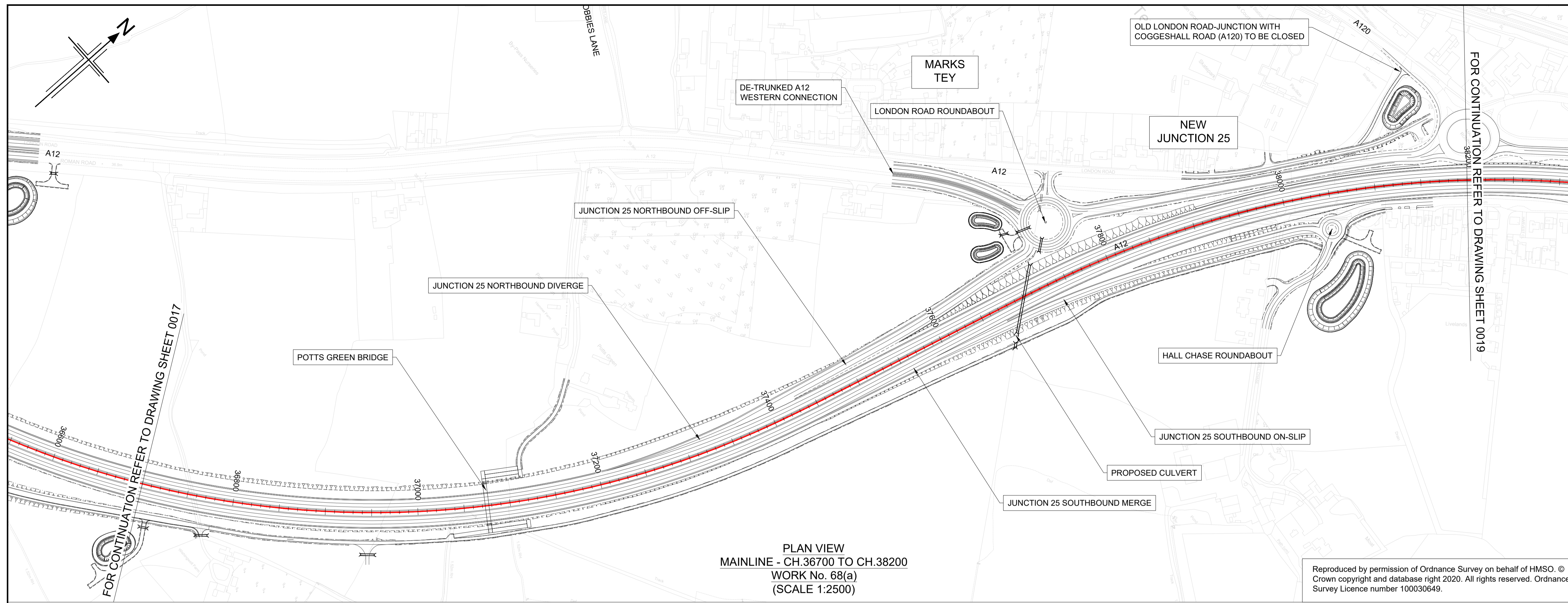
Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
**ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 17 OF 19**

Regulation	REGULATION 5(2)(o), 5(2)(p) & 6(2)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF3	Drawing status	
Scale at A1 (841x594mm)	AS SHOWN	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	
Drawing number	PIN	Originator	Volume
HE551497 -	JAC	- LDC -	
SCHW		-DR- C -2017	



PLAN VIEW
MAINLINE - CH.36700 TO CH.38200
WORK No. 68(a)
(SCALE 1:2500)

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HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

9600

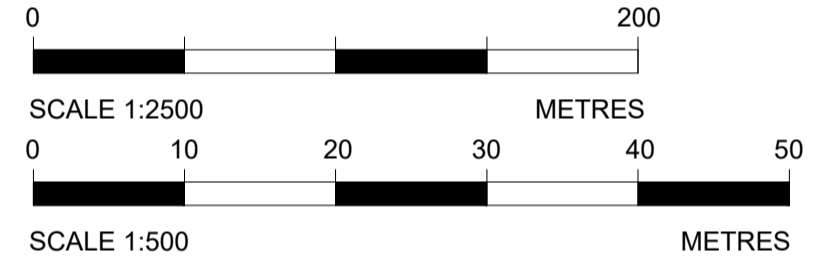
CHAINAGE

CENTRELINE OF NEW ROAD

PROFILE

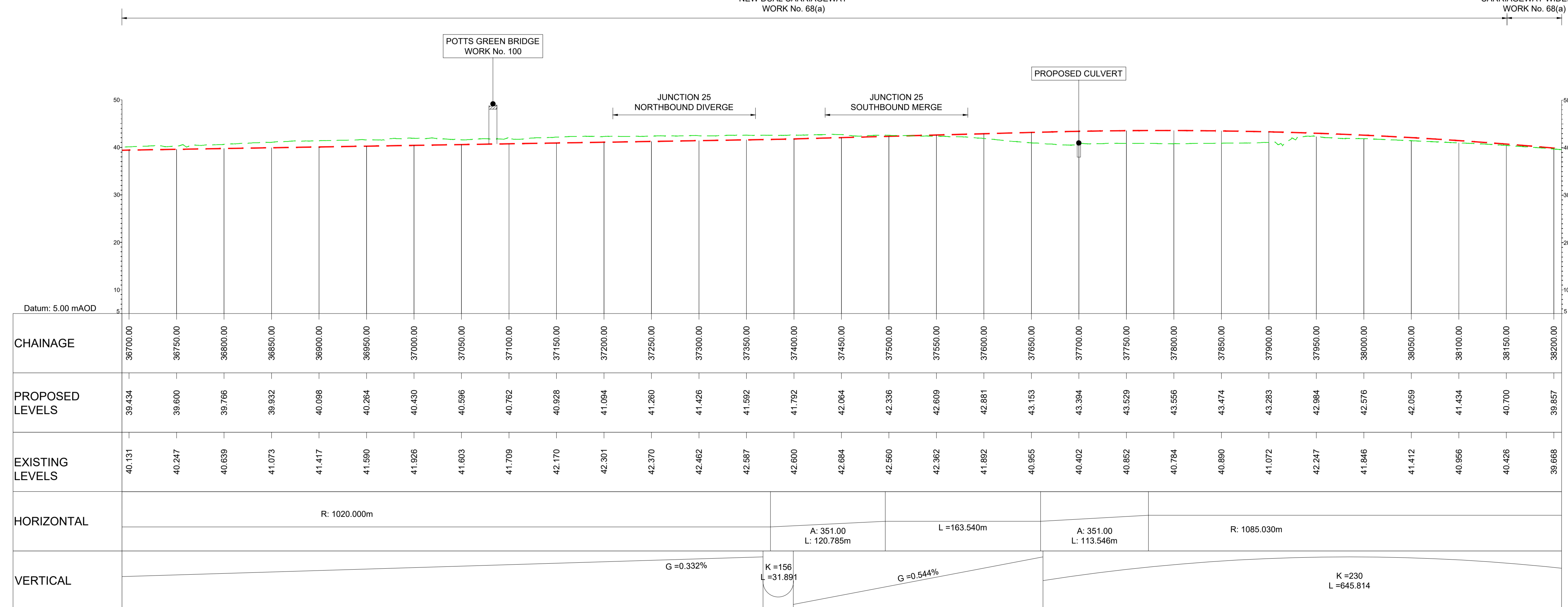
TOPOGRAPHICAL SURVEY (EXISTING GROUND)

FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD



NEW DUAL CARRIAGEWAY
WORK No. 68(a)

CARRIAGEWAY WIDENING
WORK No. 68(a)



LONGITUDINAL SECTION
MAINLINE - CH.36700 TO CH.38200
(SCALE H=1:2500, V=1:500)

KEY PLAN
SCALE N.T.S.

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
P02	16/05/23	DCO CHANGE	AE	LH	RM	RM

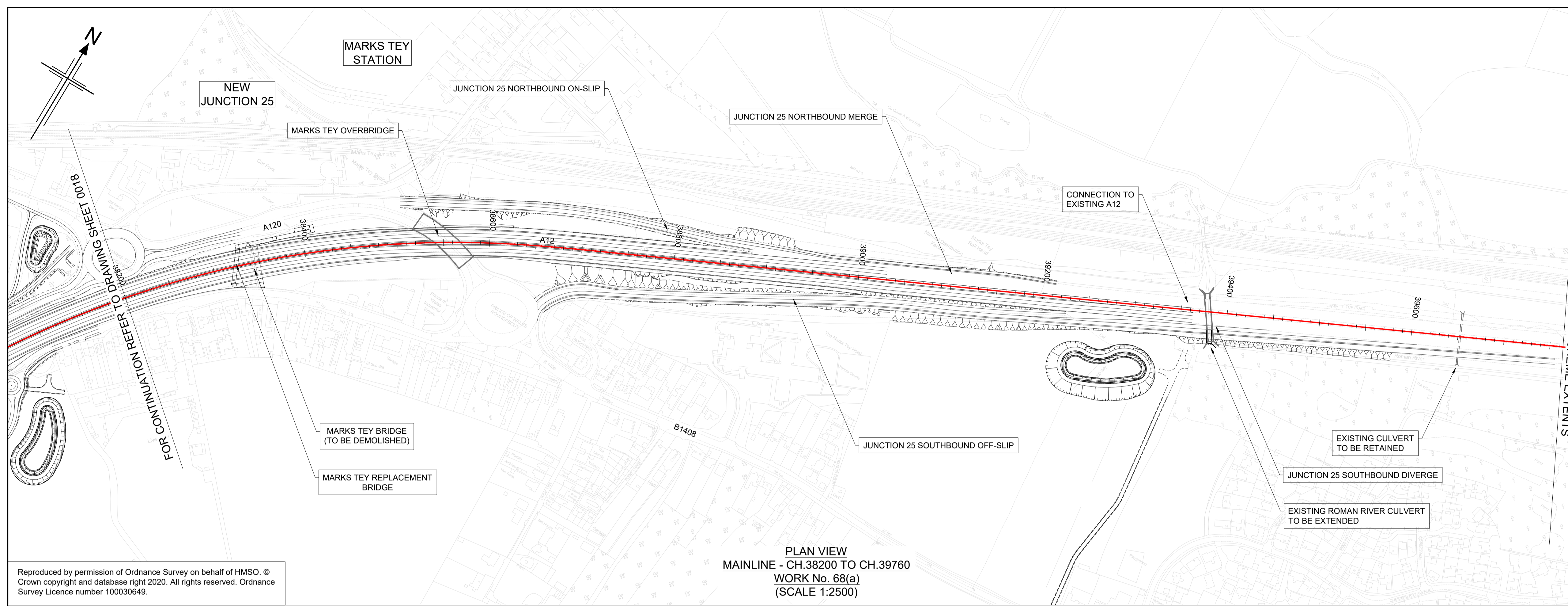
Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
ENGINEERING SECTIONS
(PLAN AND PROFILES)
MAINLINE SHEET 18 OF 19

Regulation	REGULATION 8(1)(k)	
Purpose of issue	DCO EXAM	
State Code	Statutory Procedures and Powers	
Project Stage	PCF 4	
Scale at A1 (841x594mm)	AS SHOWN	
Jacobs No.	B36601D1	
Client no.	HE551497	
Drawing number	P02	
PIN	Originator	Volume
HE551497	JAC	LDC
SCHW	-DR-	C-2018



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HE551497-JAC-LDC-SCHW-DR- C-2020 FOR JUNCTION PROFILES.
HE551497-JAC-LDC-SCHW-DR- C-2021 FOR SIDE ROAD PROFILES.

Key

PLAN

- CHAINAGE
- CENTRELINE OF NEW ROAD

PROFILE

- TOPOGRAPHICAL SURVEY (EXISTING GROUND)
- FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD

Scale

PLAN: 1:2500
PROFILE: 1:500

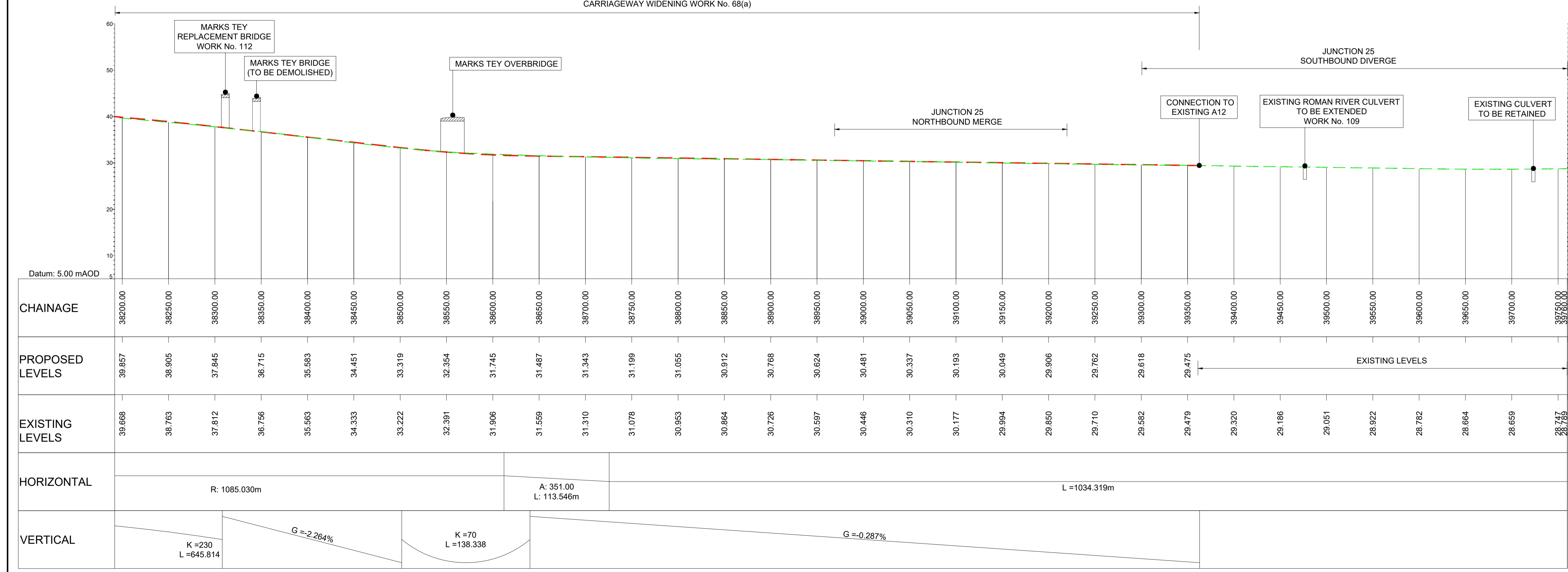
Scale Bars

0 10 20 30 40 50 METRES

0 200 METRES

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PLAN VIEW
MAINLINE - CH.38200 TO CH.39760
WORK No. 68(a)
(SCALE 1:2500)



KEY PLAN
SCALE N.T.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	29/07/22	FINAL FOR DCO SUBMISSION	AE	CA	MP	RM
P02	16/05/23	DCO CHANGE	AE	LH	RM	RM

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.11

Client: **national highways**

Project: **A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **ENGINEERING SECTIONS (PLAN AND PROFILES) MAINLINE SHEET 19 OF 19**

Regulation	REGULATION 8(1)(k)
Purpose of issue	DCO EXAM
State Code	Statutory Procedures and Powers
Project Stage	PCF 4
Scale at A1 (841x594mm)	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	P02

LONGITUDINAL SECTION
MAINLINE - CH.38200 TO CH.39760
(SCALE H=1:2500, V=1:500)

HE551497 - JAC - LDC - SCHW -DR- C-2019

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