

A12 Chelmsford to A120 widening scheme

**Map book 3: Engineering plans
(Set 4 of 4 - Cross-Sections)**

A12 Chelmsford to A120 widening scheme map books

The three map books prepared for this statutory consultation contain plans of the proposed scheme under the following headings:

- Map book 1: General arrangements (layout plans)
- Map book 2: Land use plans
- Map book 3: Engineering plans

These plans show the proposed scheme in detail to help the viewer better understand our proposals.

The plans run from junction 19 (Boreham interchange) to junction 25 (Marks Tey interchange). Identically numbered sheets in the different map books show the same area. For example, in map book 1, sheet 1 shows the layout around junction 19, and in map book 2, sheet 1 shows the land use plan around junction 19. This principle applies across all the map book 1 and map book 2 sheets but is not carried through into map book 3.

Map book 1: General arrangements

The general arrangements show the layout of the proposed scheme, including:

- Permanent works, new roads, earthworks and roadside features such as signage and lighting columns
- Environmental mitigation, landscaping and tree planting

- Provisional order limits (also known as the red line boundary)
- Open space and replacement land

Map book 2: Land use plans

The land use plans show the areas where we are seeking powers to acquire land and rights permanently. They also show the land we require for a temporary period to construct the proposed scheme. We may need the land permanently for:

- road alignments
- junction improvements
- environmental mitigation
- drainage

Permanent works

Purchase of land or acquisition of permanent rights will be required for the route of the road, to reconnect local roads and for associated structures like drainage ponds.

Permanent rights

Land used temporarily for construction and thereafter required for the creation of new permanent rights for example, to maintain the proposed scheme including the highway and associated apparatus, for rights of access or for rights to operate and maintain new statutory undertaker apparatus. It may also be required where existing rights

need to be acquired, suspended, changed or extinguished to construct and operate the proposed scheme.

Temporary works

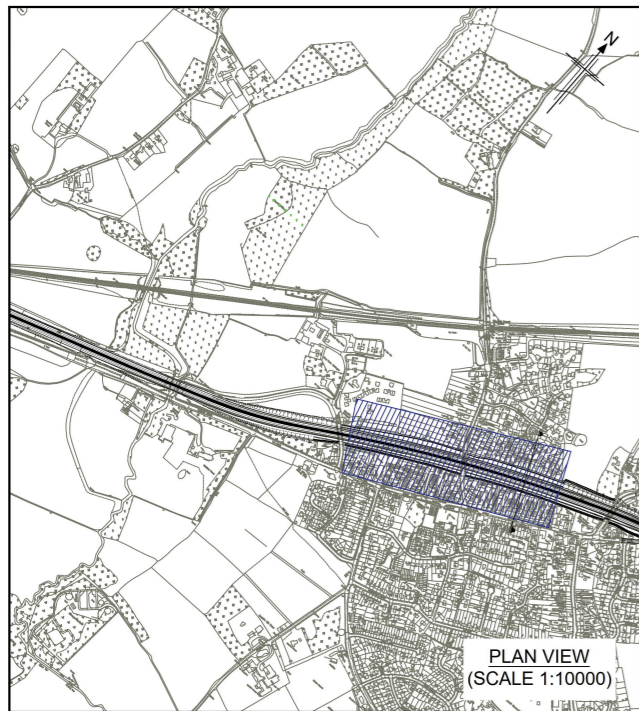
Temporary use of land is needed for the proposed scheme to be constructed safely. The plans show land that may be required temporarily for the main construction compounds at various locations along the route. We will also require temporary access over land to divert utilities such as gas pipelines, electricity cables and water pipes. Any land that is only required temporarily will be returned to its previous use wherever possible once construction is complete.

Map book 3: Engineering plans

These plans show the highway details of the route in a 'plan and profile' (level above or below existing ground) format. The drawings are split into two views, with the plan on the top and the profile underneath.

The profile shows the road level in relation to the existing ground at given distances along the route, referred to as chainages. An exaggerated scale is used in the profile to help show the differences in levels and slopes of the design. The profile also shows where existing roads and public rights of way cross over or under the route.

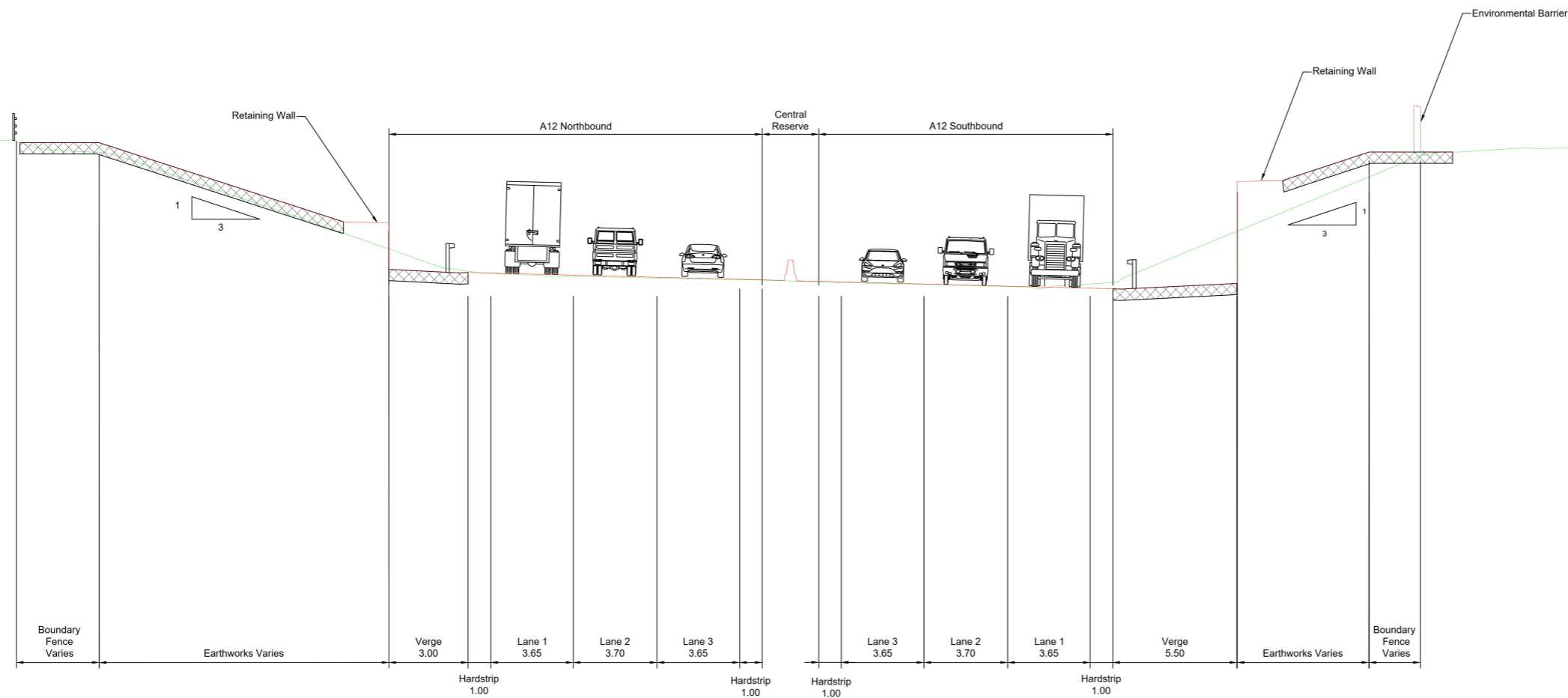
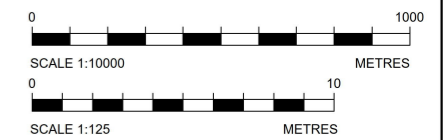
All levels are given in relation to sea level. As is the standard approach on engineering projects, sea level is taken from a reference point at Newlyn in Cornwall. The profile reference level might be different on each drawing.



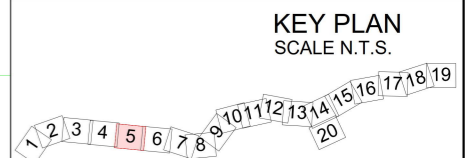
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 - The base mapping is based on Ordnance Survey (OS) Data.

- Key**
- Proposed ground level
 - Existing ground level
 - Cutline
 - Cross section extent



TYPICAL CROSS SECTION ALONG A12 CORRIDOR
SCALE 1:125



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	AS	CA	RM	RC
P02	21/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	DT

Contractor: **COSTAIN** Designer: **Jacobs**
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 www.jacobs.com

Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: CONSULTATION CROSS SECTIONS
 HATFIELD PEVEREL
 SHEET 1 OF 5

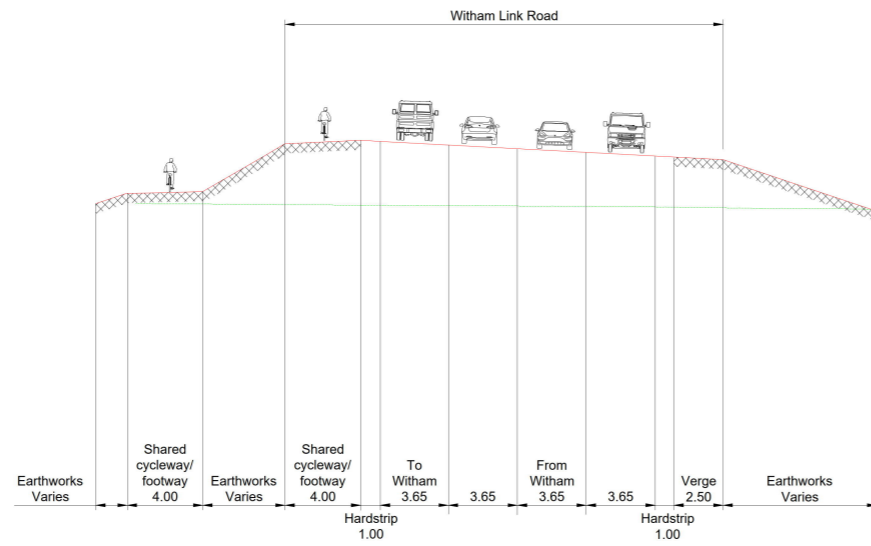
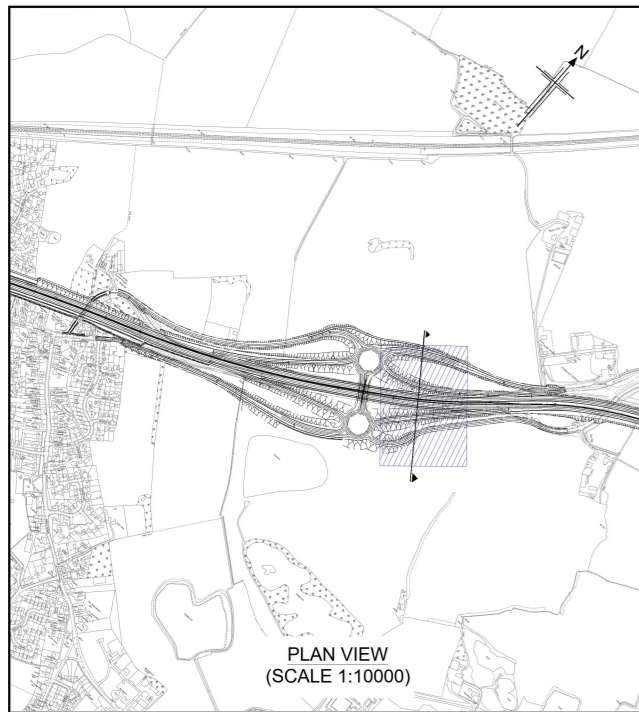
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State Code	Preliminary
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Scale	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
Rev	P02

Drawing number: HE551497 - JAC - HML - S1
 Originator: JAC
 Volume: HML - DR- C -0008

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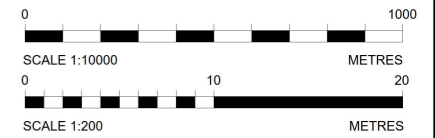
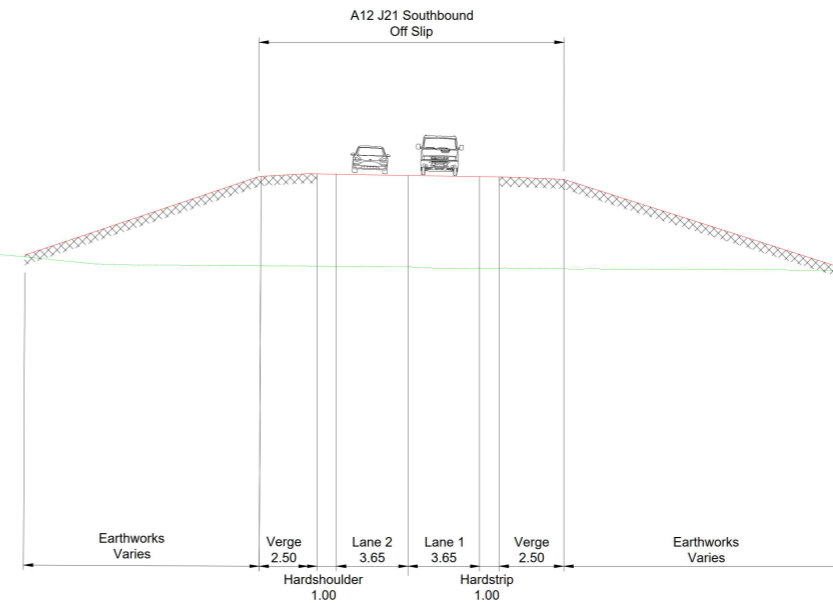
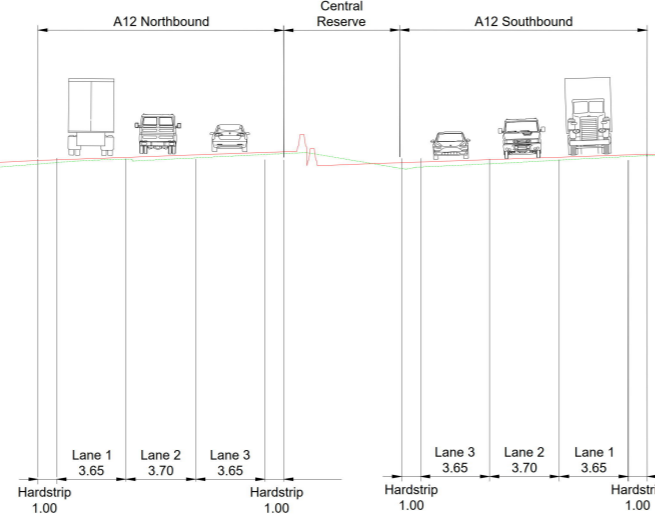
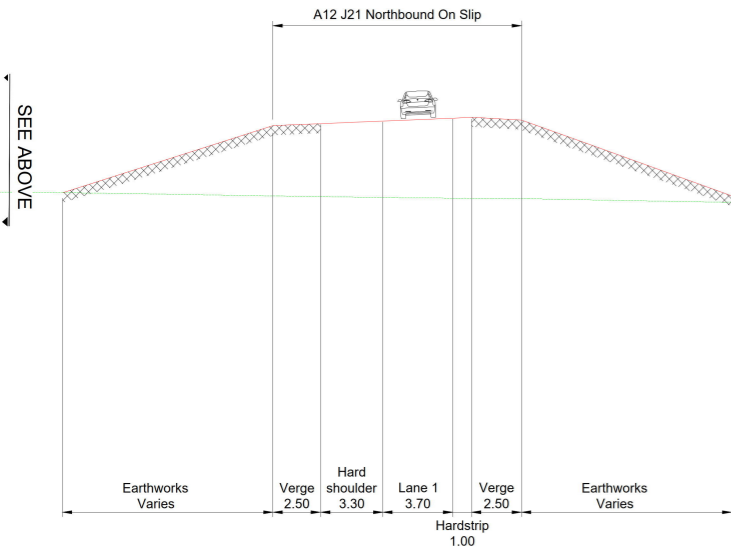


- Notes
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 - The base mapping is based on Ordnance Survey (OS) Data.

- Key
- Proposed ground level
 - Existing ground level
 - Cutline
 - Cross section extent

SEE BELOW

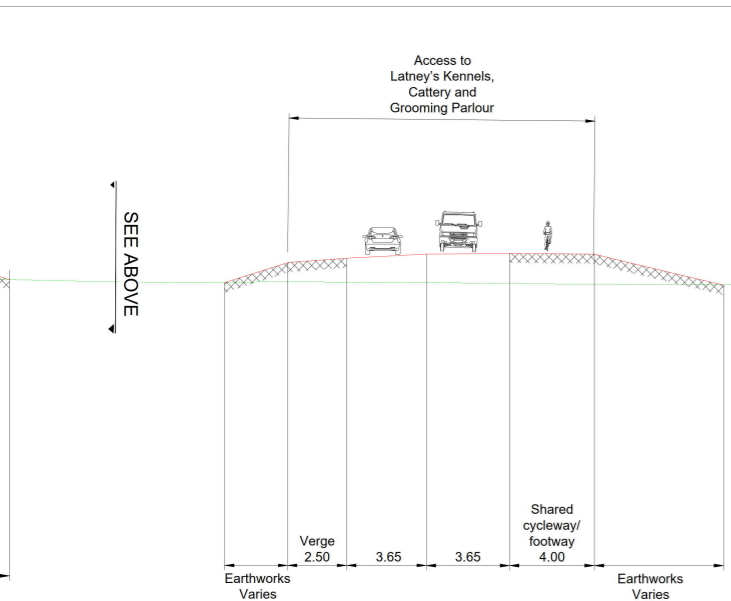
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KEY PLAN
SCALE N.T.S.



TYPICAL CROSS SECTION THROUGH A12 AT JUNCTION 21
SCALE 1:200



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	CA	RM	RC
P02	21/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	DT
P03	25/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	RC

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Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: CONSULTATION CROSS SECTIONS
JUNCTION 21
SHEET 2 OF 5

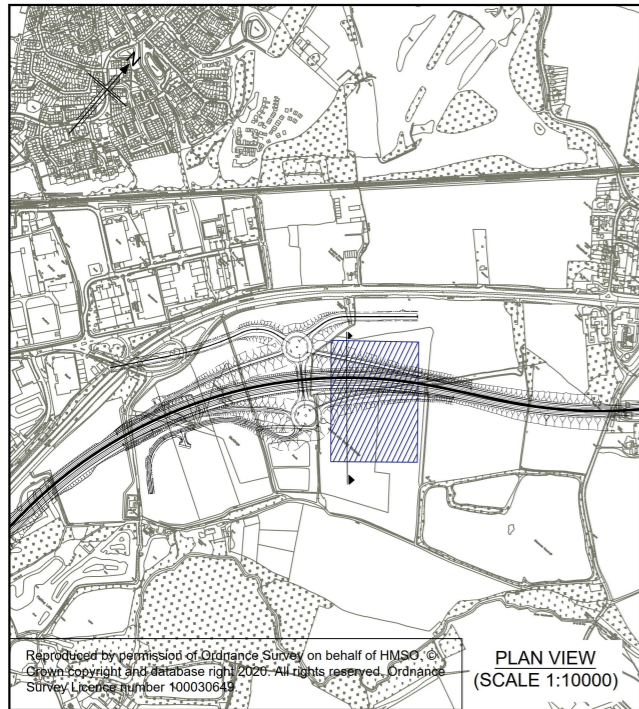
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Scale	AS SHOWN	DO NOT SCALE
Jacobs No.	B36601D1	Rev P03
Client no.	HE551497	

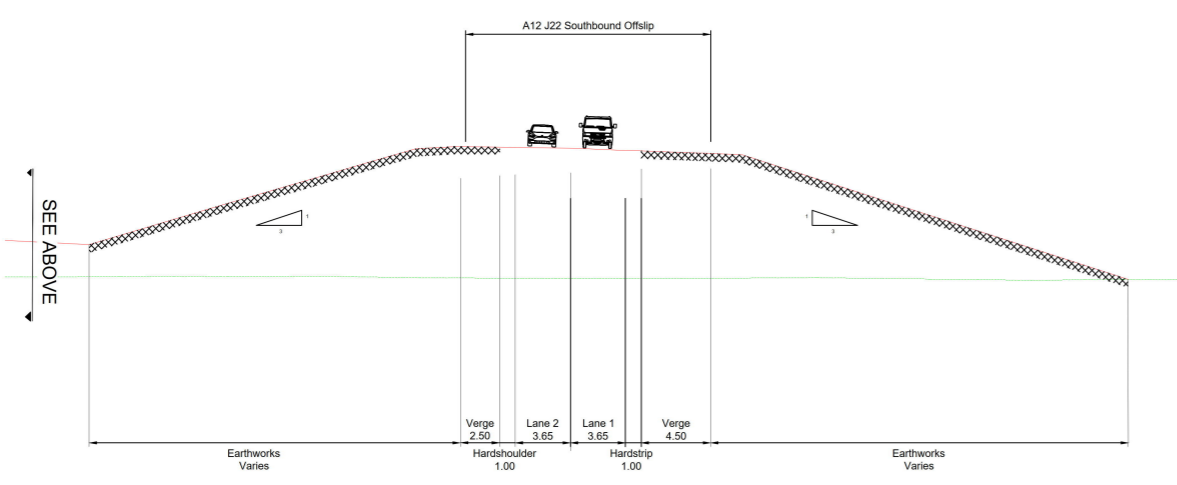
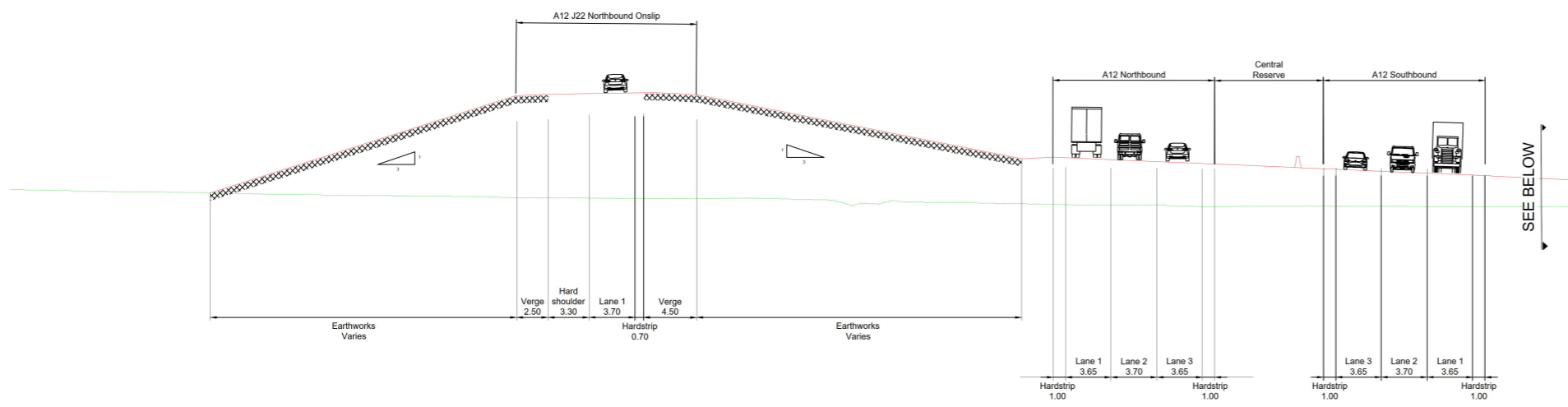
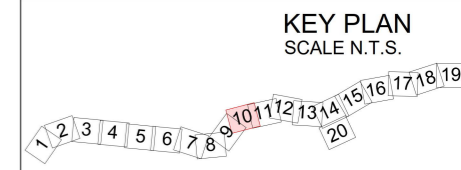
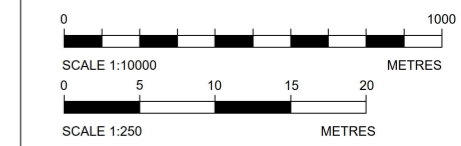
Drawing number: HE551497 - JAC - HML - S1 J21 - DR - C - 0001

Originator: JAC
Volume: HML
Location: S1 J21
Type: DR
Role: C
Number: 0001

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 - Existing ground level
 - Cutline
 - Cross section extent



P02	21/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	DT
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

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Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **CONSULTATION CROSS SECTIONS**
JUNCTION 22
SHEET 3 OF 5

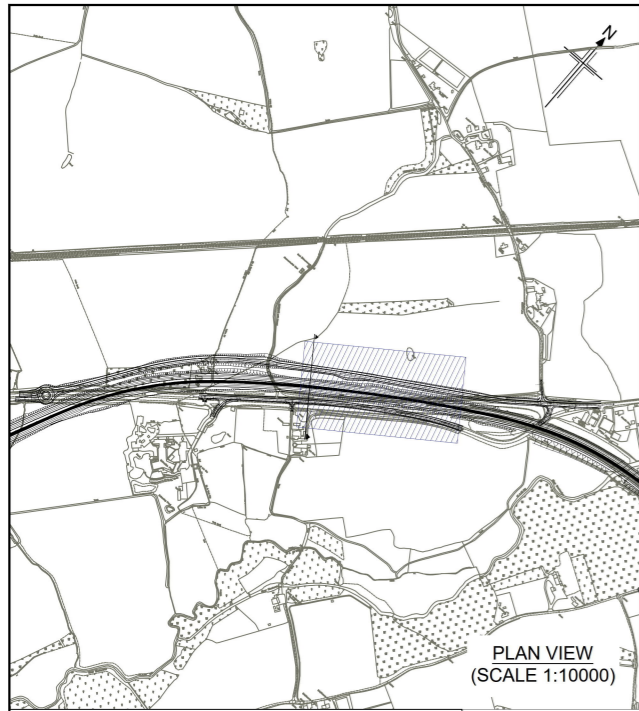
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State Code	Preliminary
Project Stage	PCF3
Scale	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
DO NOT SCALE	Rev P02

Drawing number: **HE551497 - JAC - HML - S2 J22 - DR- C -0001**

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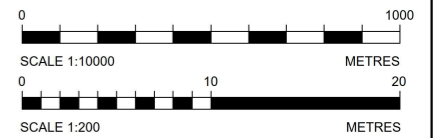
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Notes

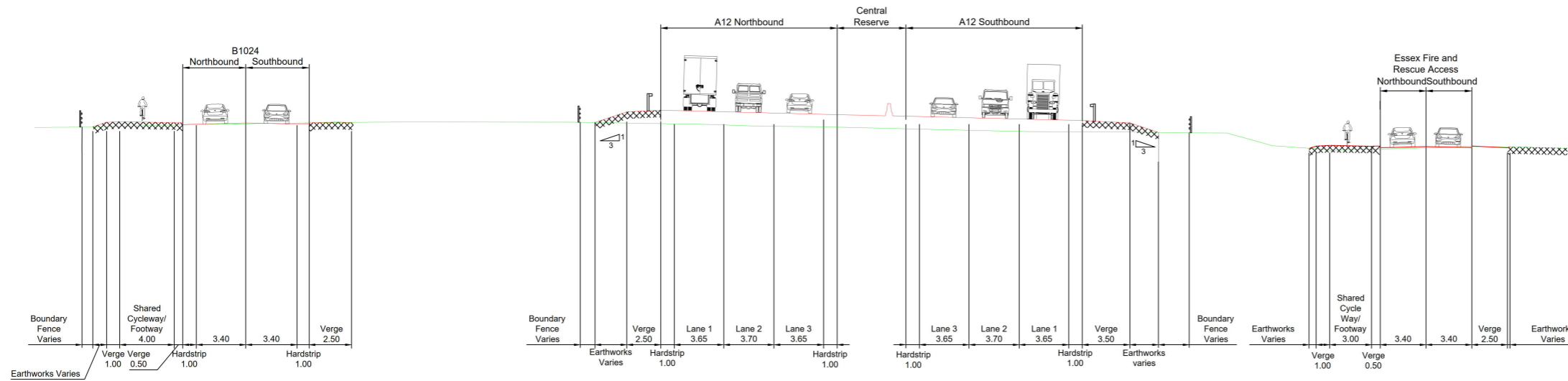
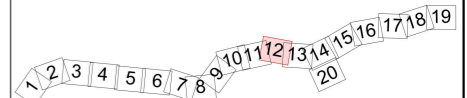
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Key

- Proposed ground level
- Existing ground level
- Cutline
- Cross section extent



KEY PLAN
SCALE N.T.S.



TYPICAL CROSS SECTION THROUGH A12, B1024 AND ESSEX COUNTY FIRE AND RESCUE SERVICE HEADQUARTERS CORRIDORS
SCALE 1:200

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	CA	RM	RC
P02	21/05/21	FOR STATUTORY CONSULTATION	RK	CA	ST	DT

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Client: **highways england**

Project REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
**CONSULTATION CROSS SECTIONS
A12 / B1024 - ESSEX COUNTY
FIRE & RESCUE SERVICES
HEADQUARTERS - SHEET 4 OF 5**

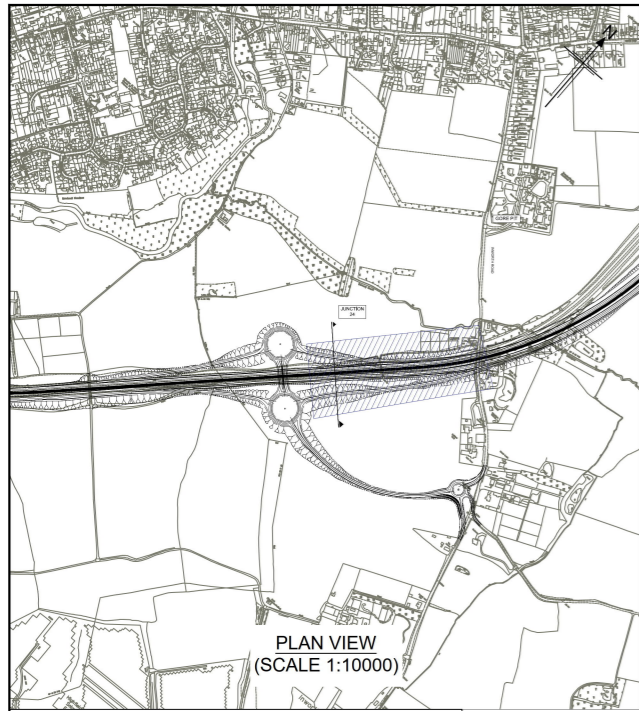
Drawing status
S2 - SUITABLE FOR INFORMATION

State Code	Preliminary
Project Stage	PCF3
Scale	AS SHOWN
Jacobs No.	B36601D1
Client no.	HE551497
DO NOT SCALE	Rev P02

Drawing number: **HE551497 - JAC - HML - S1**
 Originator: **JAC** Volume: **-DR- C -0009**
 Location: **S1** Type: **-DR- C -0009**

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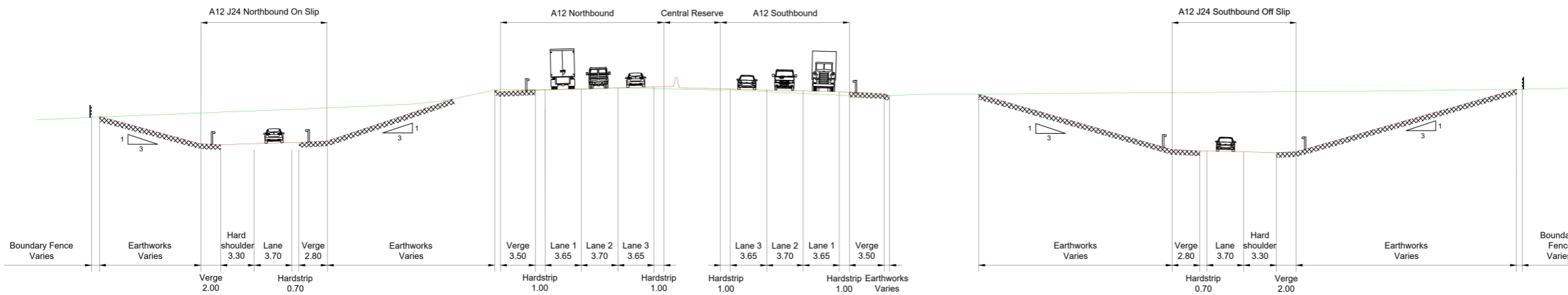
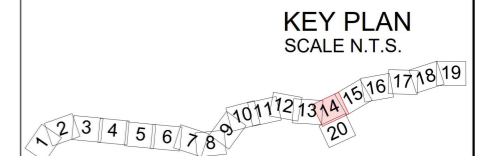
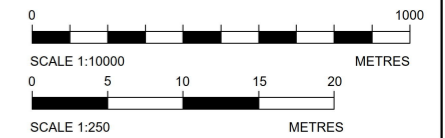
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 - Cutline
 - Cross section extent



TYPICAL CROSS SECTION THROUGH A12 AT JUNCTION 24
SCALE 1:250

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	26/04/21	DESIGN FIX 2	SH	CA	RM	RC
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Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: CONSULTATION CROSS SECTIONS
 JUNCTION 24
 SHEET 5 OF 5

Drawing status: S2 - SUITABLE FOR INFORMATION

State Code	Preliminary	
Project Stage	PCF3	
Scale	As Shown	DO NOT SCALE
Jacobs No.	B36601D1	Rev P02
Client no.	HE551497	

Drawing number: HE551497 - JAC - HML -
 Location: S3 J24 -DR- C -0001

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