

A12 Chelmsford to A120 widening scheme

Map book 1: General Arrangements (Set 1 of 3)

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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HIGHWAYS

New or realigned road

New/realigned private means of access

New/realigned maintenance access

Existing public right of way / walking, cycling and horse-riding user route

Existing public right of way / walking, cycling and horse-riding user route - stopped up

New/realigned public right of way / walking, cycling and horse-riding user route

Controlled crossing location

Uncontrolled crossing location

Technology gantry

Gantry mounted direction sign

Direction sign

Regulatory sign

Warning sign

Informatory sign

Bollard with sign

Bollard with plain face

Lighting column

ENGINEERING & CONSTRUCTION

Cutting

Embankment

Proposed mitigation earthworks

Carriageway

Footway / Hardstanding / Island

Verge

Proposed borrow pit

New or modified bridge deck

Existing bridge deck

Proposed retaining wall

Existing retaining wall

DRAINAGE

Existing culvert (to be retained)

Proposed culvert - minor watercourse

Existing culvert (to be extended)

Existing culvert (to be abandoned)

Proposed watercourse diversion (main river)

Water flow direction

Proposed cut-off ditch

Existing ditch / minor watercourse (to be retained)

Existing ditch / minor watercourse (to be realigned)

Existing ditch / minor watercourse (to be abandoned)

Attenuation pond (with outfall connection)

Underground storage units

Flood mitigation areas

Flood plain compensation (minor watercourse)

Flood extents (100 year)

Flood bunds (minor watercourse)

BOUNDARIES

Provisional Order Limits

ENVIRONMENT

EXISTING

Open water

Retained trees, hedges and shrubs

Ancient woodland

Ancient, noble and veteran trees

Conservation areas

Local nature reserve

Listed buildings

Registered parks and gardens

Scheduled monument

Trees protected by Tree Preservation Order (area or individual tree)

PROPOSED

Open water

Woodland planting of trees and shrubs

Riparian Woodland

Tall screen planting to elevate flight path of bats & barn owls

Individual trees

Hedge

Hedge with intermittent trees

Grassland

Intermittent trees and shrubs

Ecology pond (indicative symbol)

Aquatic and marginal planting

Protected species crossing

Ecology mitigation area / Ecology protection measures

Noise barrier location / Acoustic barrier

Ecological fencing

NOTES

THIS GENERAL ARRANGEMENT LEGEND SHOULD BE READ IN CONJUNCTION WITH:

- THE LOCATION KEY PLAN.
- THE GENERAL ARRANGEMENT DRAWINGS.

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SCALE 1:2500

METRES

P01	22/04/21	DESIGN FIX 2	SH	CA	RM	RC	
P02	21/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	DT	
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd	

Contractor:

Designer:

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Client

Project

REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

GENERAL ARRANGEMENT
LEGEND

Drawing status

S2 - SUITABLE FOR INFORMATION

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

Drawing number

HE551497 -

Originator

JAC

Volume

-HGN-

Location

SCHW

Type

-DR-

Role

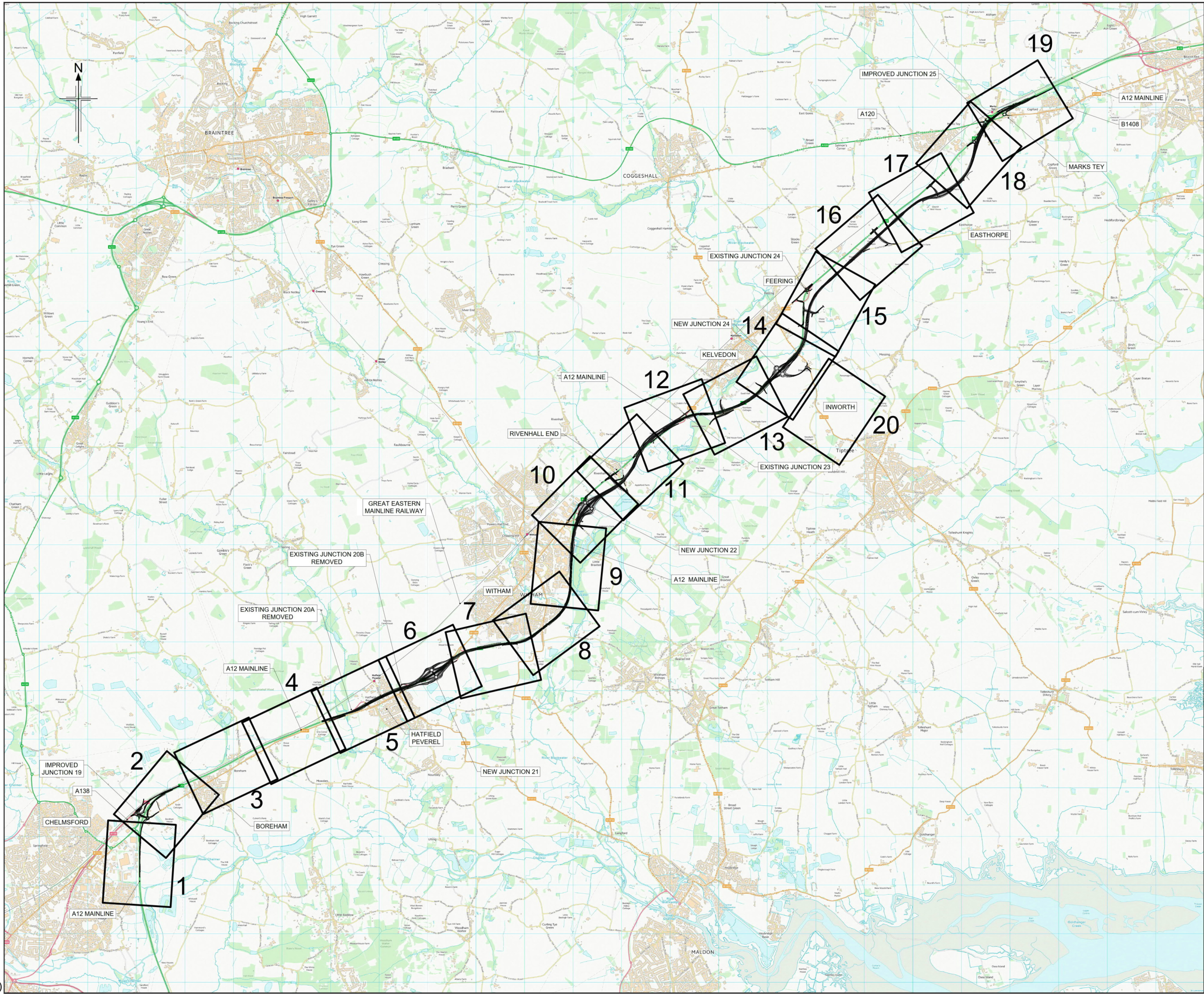
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Number

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- Notes:
1. This key plan is to be used with the General Arrangement Drawings and Land Use Plans.

P01	10/02/21	DESIGN FIX 1	JUG	CA	RM	RC
P02	27/04/21	DESIGN FIX 2	SH	CA	RM	RC
P03	21/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	DT
P04	25/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	RC
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

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Client:

Project REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

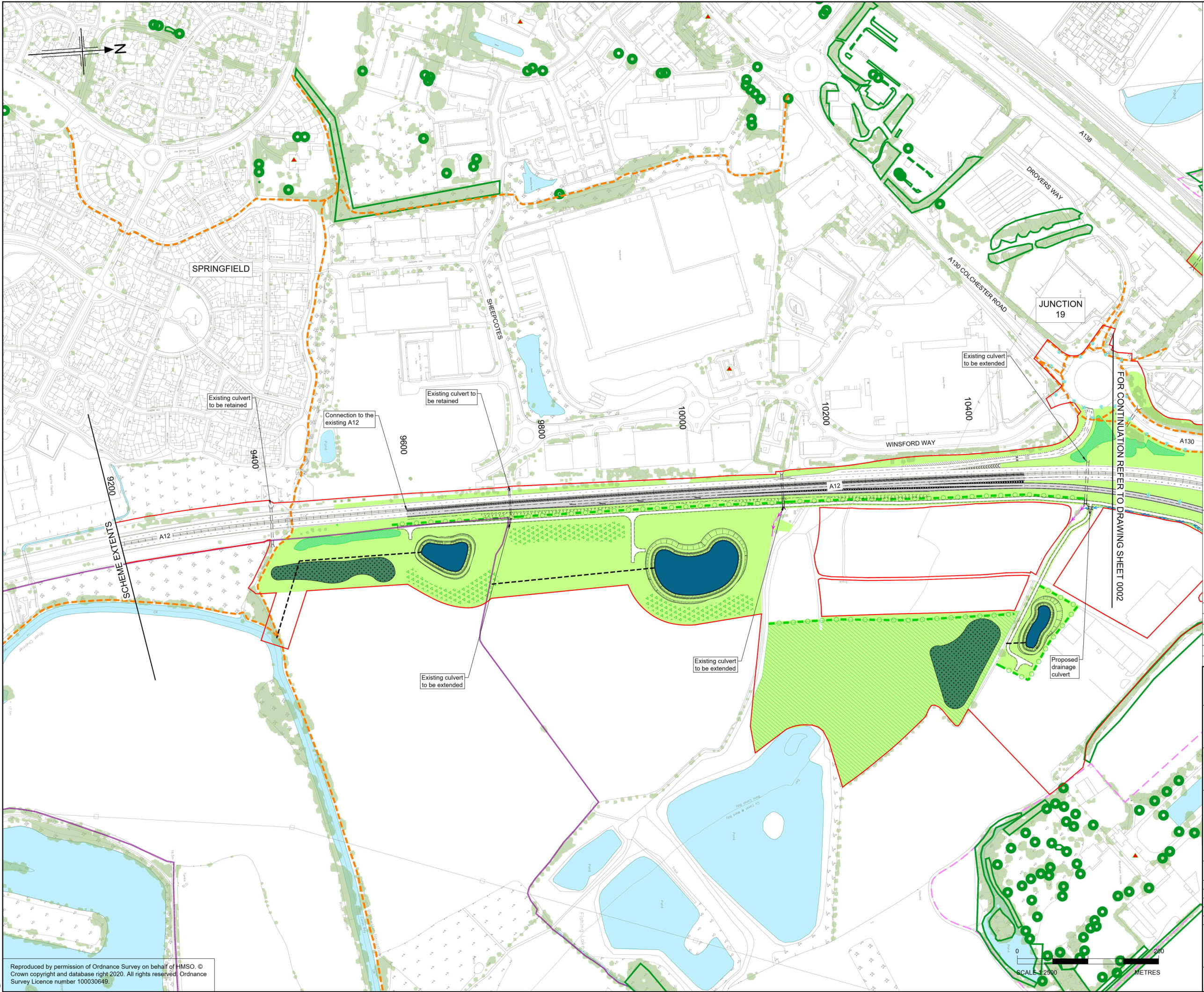
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KEY PLAN

Drawing status
S2 - SUITABLE FOR INFORMATION

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Project Stage	PCF3	
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Jacobs No.	B36601D1	Rev P04
Client no.	HE551497	

Drawing number	PIJ	Originator	Volume
HE551497 -	JAC	-HGN-	
SCHW	Location	Type	Role
			Number
			-DR- C -0026

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 6. For Key refer to HE551497-JAC-HGN-SCHW-DR-C-0066.
 7. Where the scheme is showing the removal of access to properties, a suitable and convenient replacement will be provided.
 8. Part of junction 19 is being improved for the Beaulieu Park development. These changes are being made by the developer, and the construction here is due to be completed by early 2023. These are not part of our proposals. The improvements required for Beaulieu Park are due to be completed before we would begin to construct our proposed scheme. We have therefore taken these improvements into account when designing our proposed scheme.

KEY PLAN
SCALE N.T.S.



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	10/02/21	DESIGN FIX 1	JUG	CA	RM	RC
P02	22/04/21	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: **GENERAL ARRANGEMENT
CH. 9500 TO 10600**

SHEET 1 OF 20

Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary	DO NOT SCALE
Project Stage	PCF3	Rev
Scale	1:2500	P03
Jacobs No.	B36601D1	
Client no.	HE551497	

Drawing number	HE551497 -	Originator	JAC	Volume	- HGN-
	SCHW	Location		Type	DR- C-0001

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 6. For Key refer to HE551497-JAC-HGN-SCHW-DR-C-0066.
 7. Where the scheme is showing the removal of access to properties, a suitable and convenient replacement will be provided.
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KEY PLAN
SCALE N.T.S.



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	10/02/21	DESIGN FIX 1	JUG	CA	RM	RC
P02	22/04/21	DESIGN FIX 2	SH	CA	RM	RC
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Client:	highways england
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Project:	REGIONAL DELIVERY PARTNERSHIP A12 CHELMSFORD TO A120 WIDENING SCHEME
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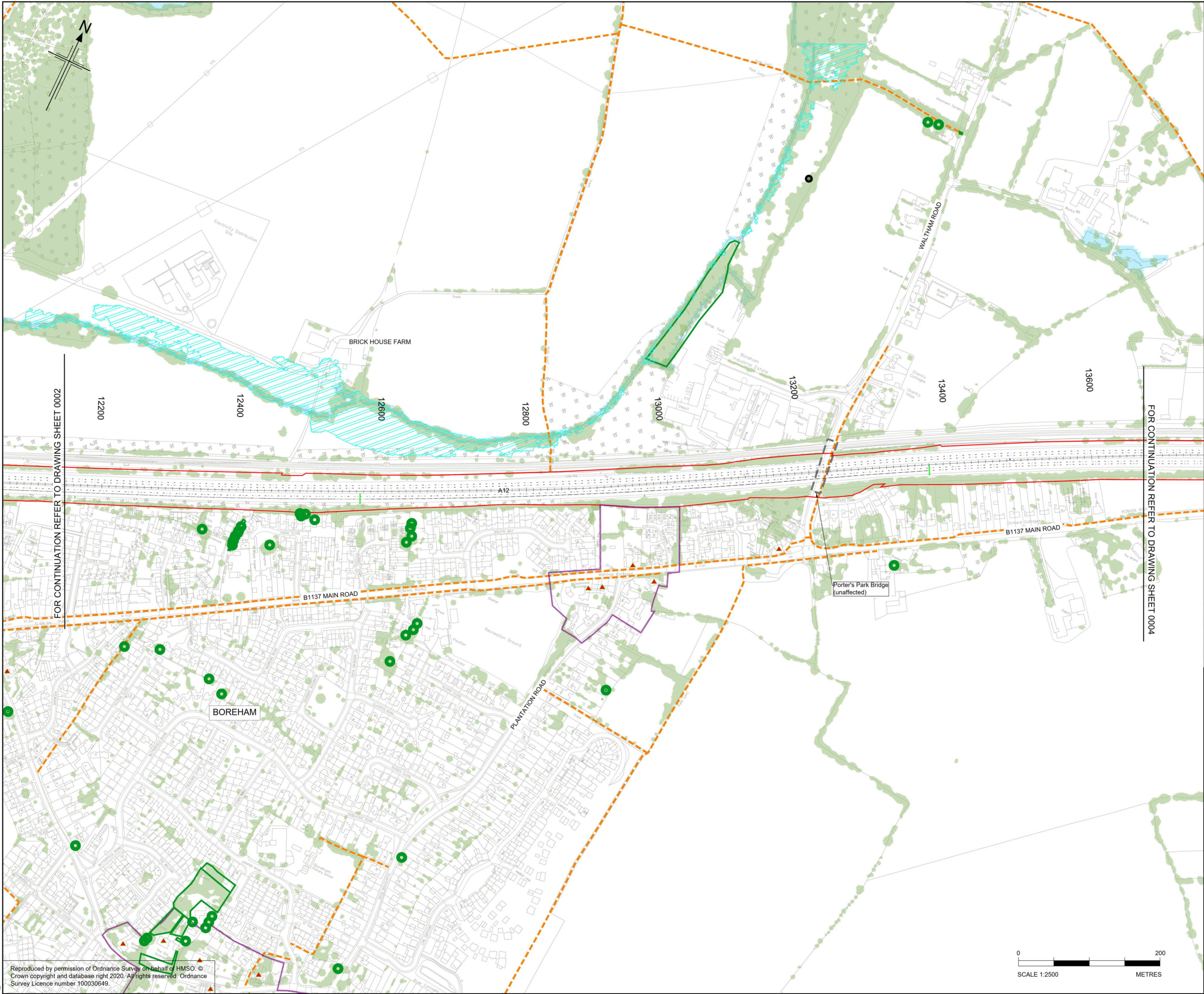
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Drawing status:	S2 - SUITABLE FOR INFORMATION
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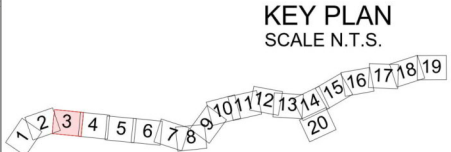
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Client no.	HE551497	

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Location	SCHW	Type	JAC	Role	Number

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 6. For Key refer to HE551497-JAC-HGN-SCHW-DR-C-0066.
 7. Where the scheme is showing the removal of access to properties, a suitable and convenient replacement will be provided.



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P01	10/02/21	DESIGN FIX 1	JUG	CA	RM	RC
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P03	21/05/21	FOR STATUTORY CONSULTATION	AE	CA	RM	DT

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Project REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
**GENERAL ARRANGEMENT
CH. 12100 TO 13600**

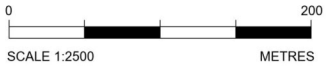
SHEET 3 OF 20

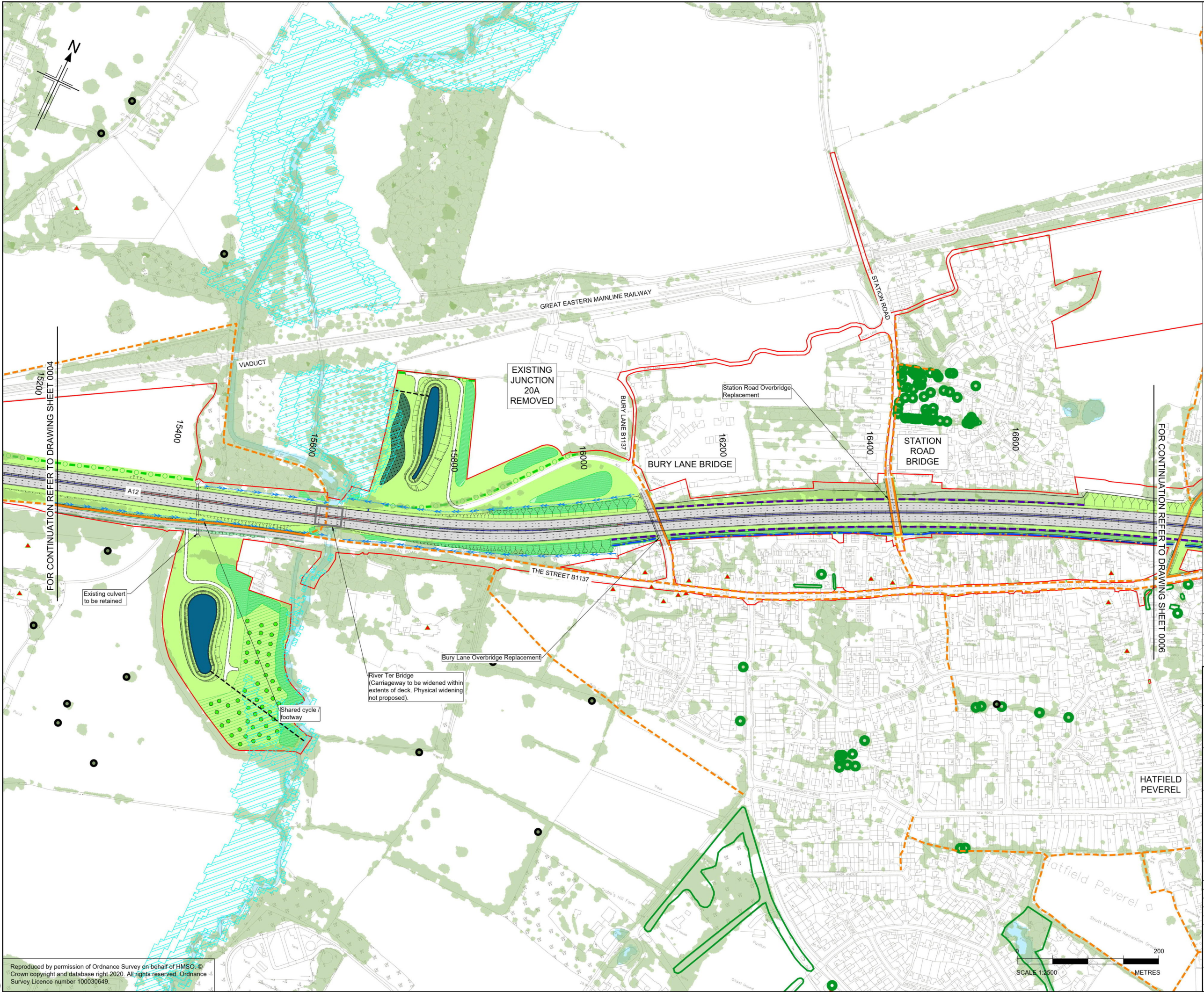
Drawing status
S2 - SUITABLE FOR INFORMATION

State Code	Preliminary	DO NOT SCALE
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Jacobs No.	B36601D1	
Client no.	HE551497	

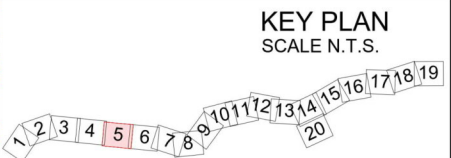
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	SCHW	Location		Type	DR-
				Role	C-0003

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 6. For Key refer to HE551497-JAC-HGN-SCHW-DR-C-0066.
 7. Where the scheme is showing the removal of access to properties, a suitable and convenient replacement will be provided.
 8. Due to the projected growth in the area, the junction with The Street and Maldon Road may struggle to work adequately in the future. While this is expected to happen with or without the proposed scheme going ahead, our new junction 21 location does change how the traffic moves around the junction. By reducing traffic on The Street, more traffic will now turn right to go to our new junction 21. While at this stage it is not intended to include works to the local road junction within the proposed scheme, we will continue to work with Essex County Council, the local planning authorities and the parish council on possible changes.



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	10/02/21	DESIGN FIX 1	JUG	CA	RM	RC
P02	22/04/21	DESIGN FIX 2	DG	CA	RM	RC
P03	21/05/21	FOR STATUTORY CONSULTATION	AE	CA	RM	DT

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Project: **REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing title: **GENERAL ARRANGEMENT
CH. 15400 TO 16800**

SHEET 5 OF 20

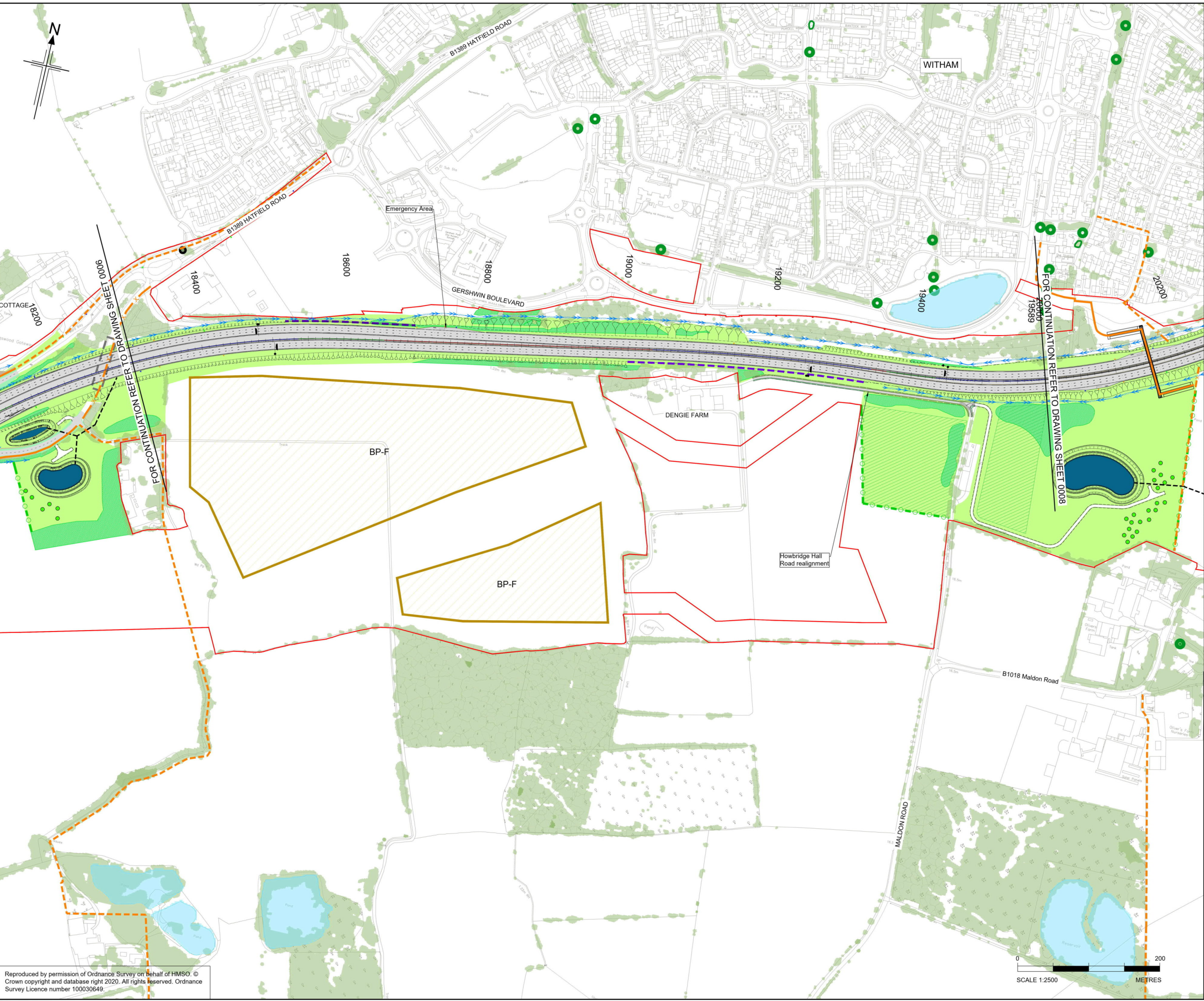
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State Code	Preliminary	DO NOT SCALE
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Jacobs No.	B36601D1	
Client no.	HE551497	

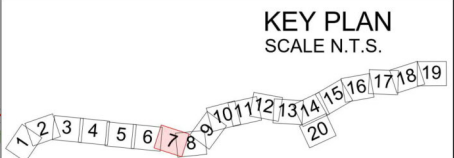
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HE551497 -	JAC	-HGN-
SCHW	Location	-DR- C-0005

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 6. For Key refer to HE551497-JAC-HGN-SCHW-DR-C-0066.
 7. Where the scheme is showing the removal of access to properties, a suitable and convenient replacement will be provided.



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	10/02/21	DESIGN FIX 1	JUG	CA	RM	RC
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P03	21/05/21	FOR STATUTORY CONSULTATION	AE	CA	RM	DT

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Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: GENERAL ARRANGEMENT
CH. 18300 TO 19600/20000

SHEET 7 OF 20

Drawing status: S2 - SUITABLE FOR INFORMATION

State Code	Preliminary	DO NOT SCALE
Project Stage	PCF3	Rev
Scale	1:2500	P03
Jacobs No.	B36601D1	
Client no.	HE551497	

Drawing number	Originator	Volume
HE551497 -	JAC	-HGN-
SCHW	Location	-DR- C-0007

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