

Lower Thames Crossing
Map book 1: General Arrangements

Lower Thames Crossing map books

The three map books contain plans of the proposed project under the following headings:

- Map book 1 – General Arrangements (layout plans)
- Map book 2 – land use
- Map book 3 – engineering

These plans show our current proposals and are published for the purposes of consultation on the project. The proposals are therefore subject to change due to consultation feedback and further design development.

The plans run from the A2 in the south to the M25 in the north. Identically numbered sheets in the different map books show the same area, for example sheet 3 shows the A2/LTC junction in map books 1, 2 and 3.

Map book 1 - General Arrangements

The General Arrangements show the proposed details of the project including:

- Engineering & construction
- Environment
- Utilities
- Development boundary

Map book 2 - land use plans

The land use plans show the areas we may need to purchase or require temporary rights to use, in order to construct and operate the project.

Areas we may need to purchase include the land required for the permanent works, temporary works and compensation land.

Permanent works

Permanent use of land will be required along the route of the road, for re-connecting local roads and for associated structures like drainage ponds, tunnel control buildings and the rest and service area.

Temporary works

Temporary use of land is needed for the project's construction works and to provide sufficient space to do so safely. The plans show land that may be required temporarily for the main construction compounds at the tunnel entrances north and south of the River Thames and at various locations along the route. We will also require rights 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 has been completed.

Compensation land

Compensation land may include environmental protection measures such as habitat creation and for flood compensation. This land may also need to be acquired permanently.

Map book 3 - engineering plans

This book contains engineering drawings in the following order:

- The plan and profile drawings which detail the vertical and horizontal road alignment
- The junction arrangements showing the proposed layout
- The cross sections throughout the route showing the lanes and earthworks

The plan and profile drawings show the highway details of the route in plan and profile. The drawings are split into two views with the plan on the top and profile underneath.

The profile gives the road level in relation to existing ground at a given chainage*. An exaggerated scale is used in the profile to help show the differences in levels and gradients 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 the ordnance datum level** which might be different on each drawing.

*Chainage measures the distance along the route in metres

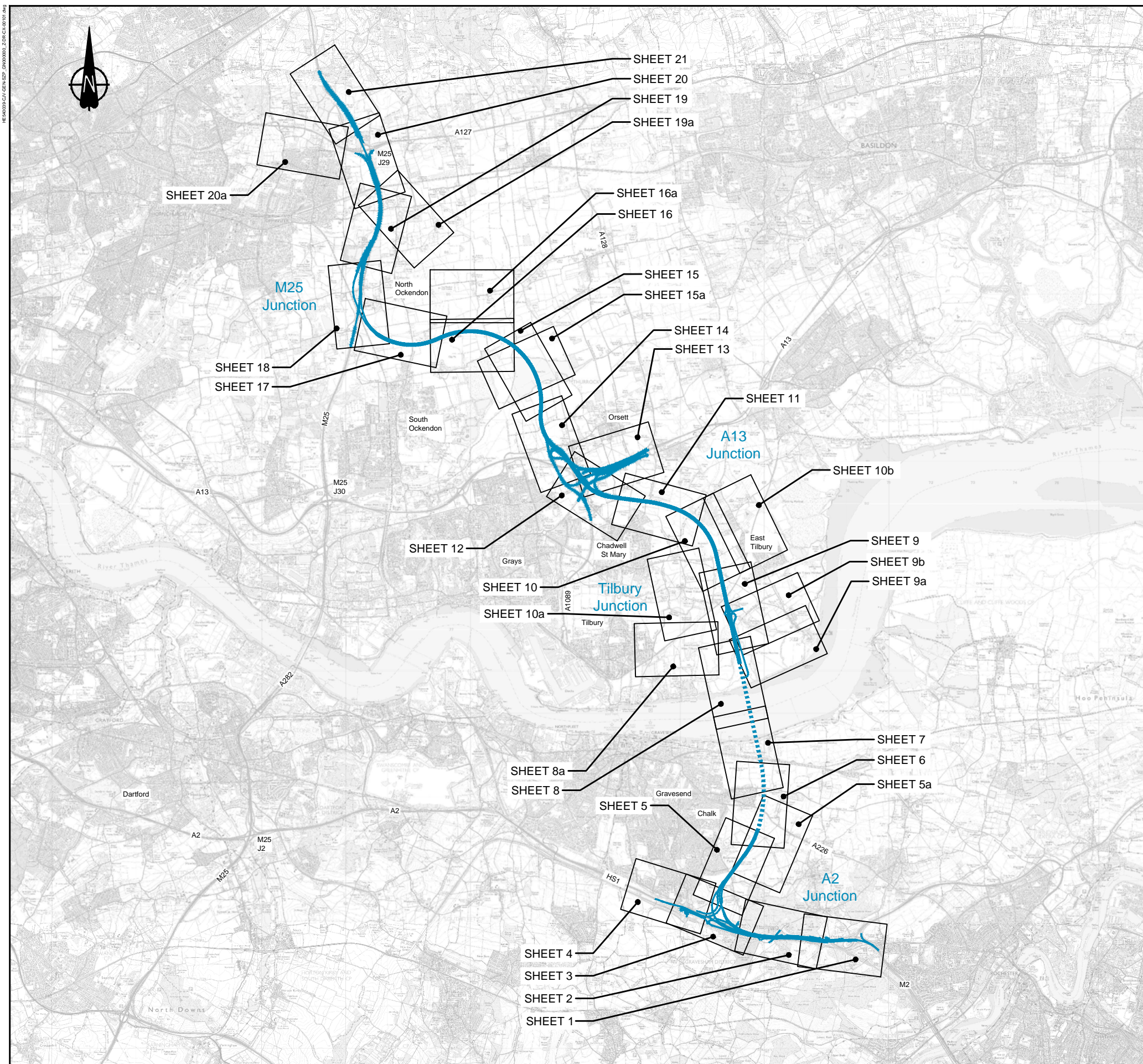
**Above Ordnance Datum level (AOD) is a measurement above mean sea level

Large maps

Large maps that cover a greater area have also been produced which detail the same information.

These are:

- Environmental constraints – 1 sheet
- Land use – 1 sheet
- Project profile – 1 sheet
- General Arrangements – 5 sheets (larger coverage)

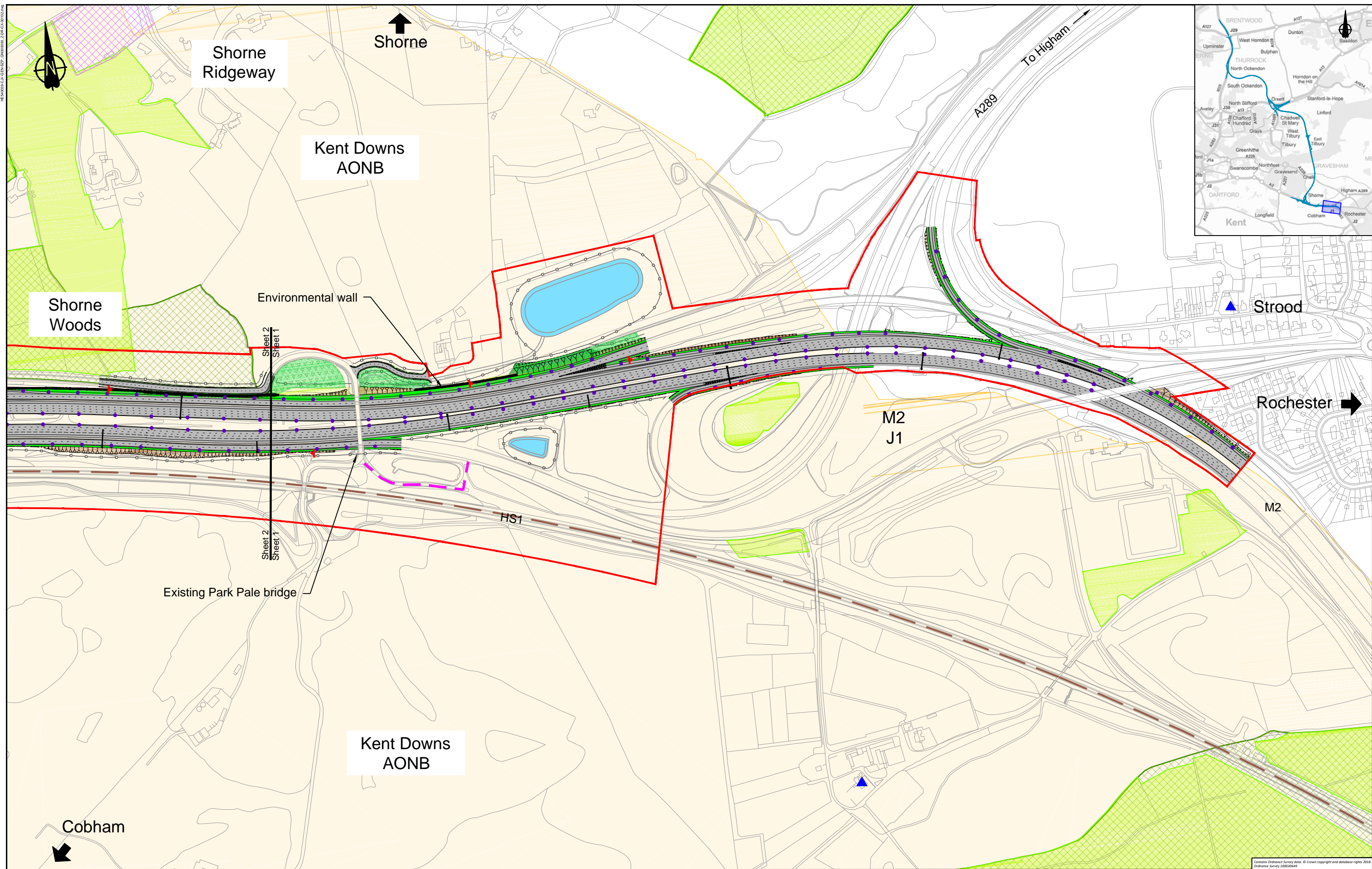


ENGINEERING AND CONSTRUCTION		ENVIRONMENT	
	New Carriageway		Grade I listed building
	Railway line		Grade II listed building
	Overbridge		Grade II* listed building
	Underpass		Area of Outstanding Natural Beauty (AONB)
	Traffic sign		Site of Special Scientific Interest (SSSI)
	Gantry		Ancient Woodland
	Lighting		Conservation Area
	Fence		Potential relocated Travellers site
	Pond		Scheduled monument
	Flood Compensation Area		Replacement Open Access Land
	Public Right of Way (PRoW)		Environmental improvement works
	Tunnel		Proposed woodland planting
	Earthworks - Cutting		Proposed grassland planting
	Earthworks - Embankment		Area returned to agriculture
	Earthworks - Flood protection bund/false cutting		Potential receptor site for ancient woodland compensation
	Verge		Potential receptor site for translocation of protected species
	Retaining wall		Potential receptor site for excavated material/landscape enhancement
	Realigned Gas		Community Forest
	Realigned Overhead cable		River Thames RMCZ (Recommended Marine Conservation Zone)
	Diversion ties into existing		Watercourse
	Watercourse diversion		Watercourse diversion
BOUNDARIES			
	Development boundary		

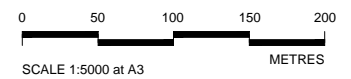
LEGEND:
 LTC route above ground
 LTC route in tunnel

Not to scale

	Client	LOWER THAMES CROSSING STATUTORY CONSULTATION
	Project	GENERAL ARRANGEMENT KEY PLAN AND LEGEND
PROPOSALS FOR CONSULTATION		Drawing title



HE40003/CA/EN/027_000000_2.06.CA/10/24



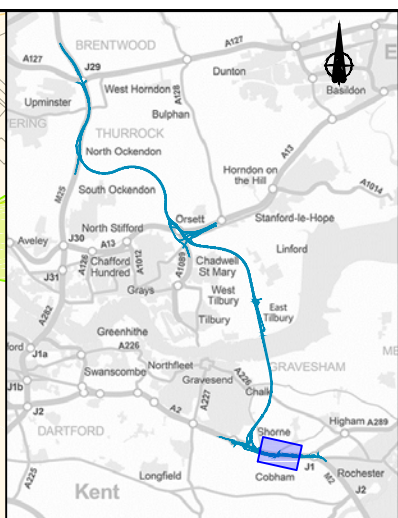
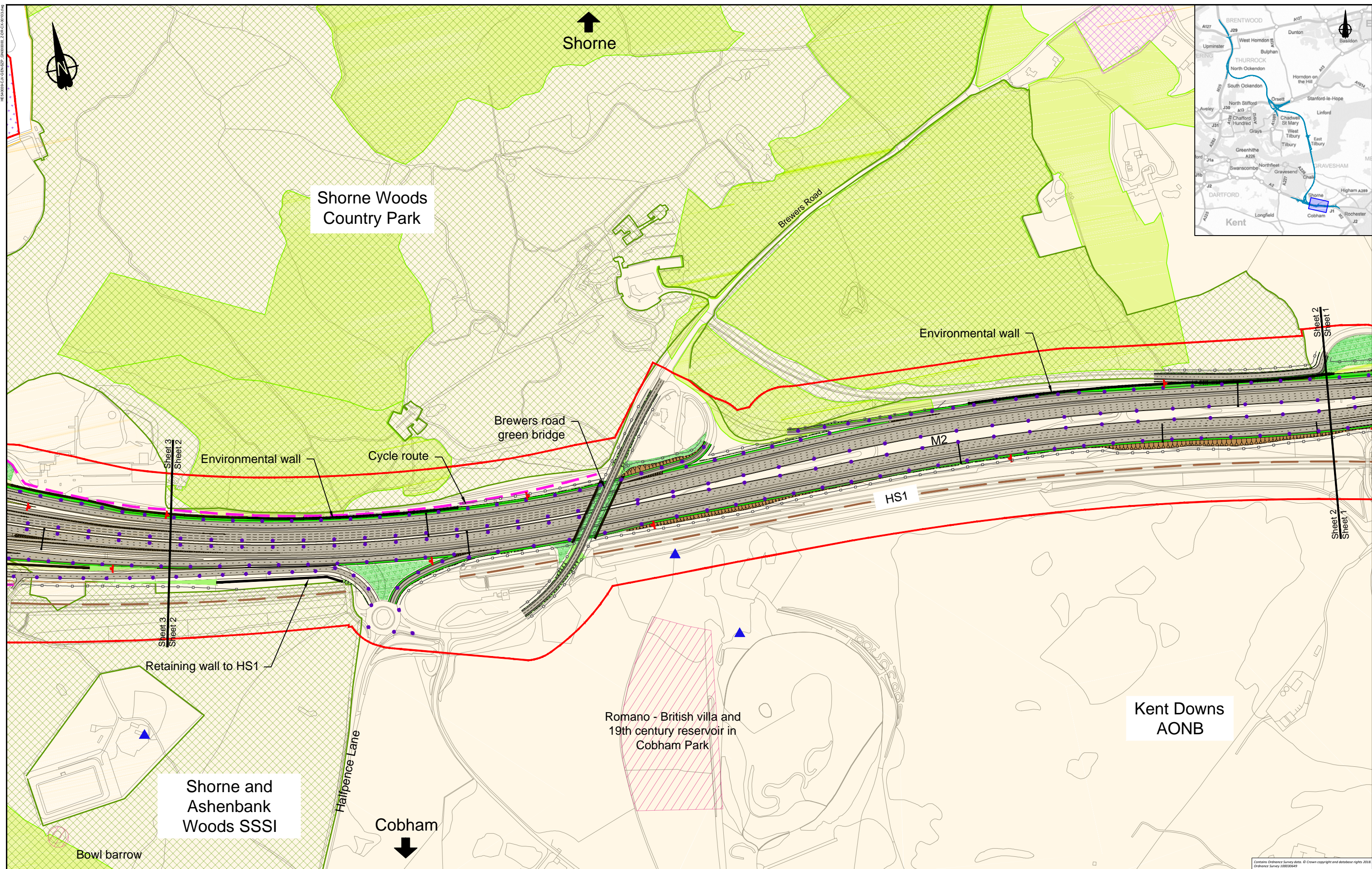
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Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title GENERAL ARRANGEMENT PLAN SHEET 1

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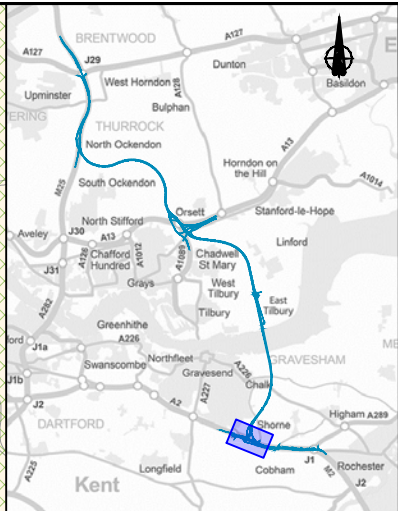
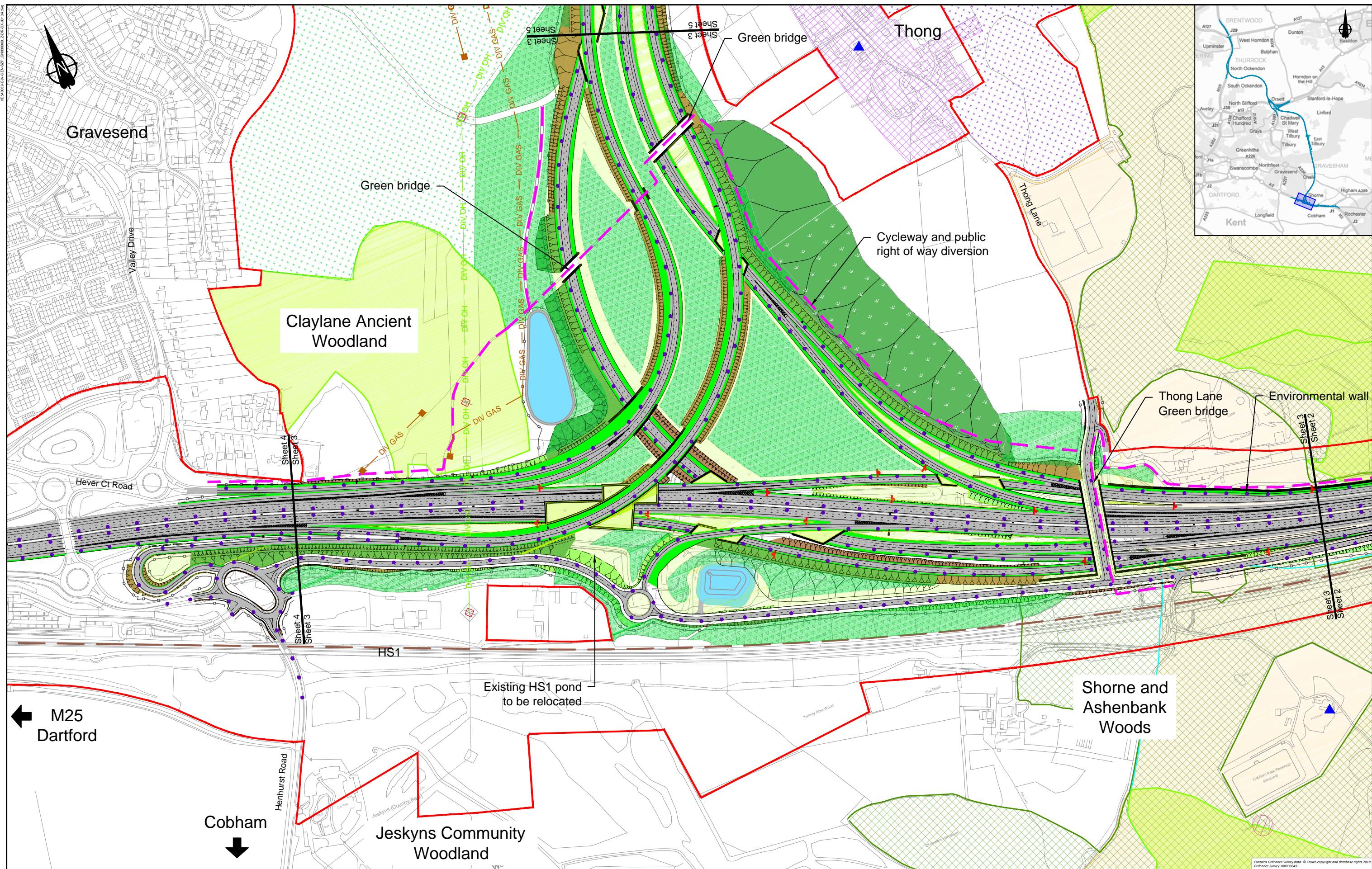
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PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title GENERAL ARRANGEMENT PLAN SHEET 2

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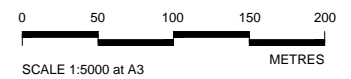


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← M25
Dartford

Henhurst Road

↓ Cobham



Client

Project

**LOWER THAMES CROSSING
STATUTORY CONSULTATION**

Drawing title

**PROPOSALS FOR
CONSULTATION**

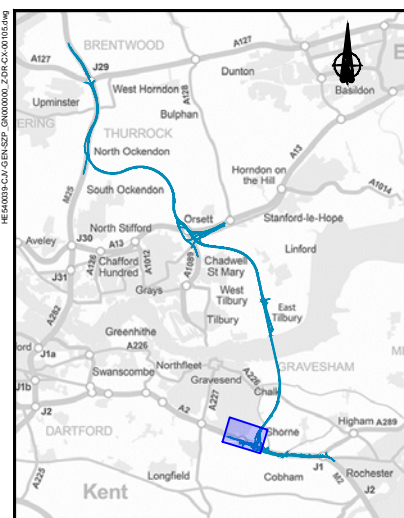
Project

**LOWER THAMES CROSSING
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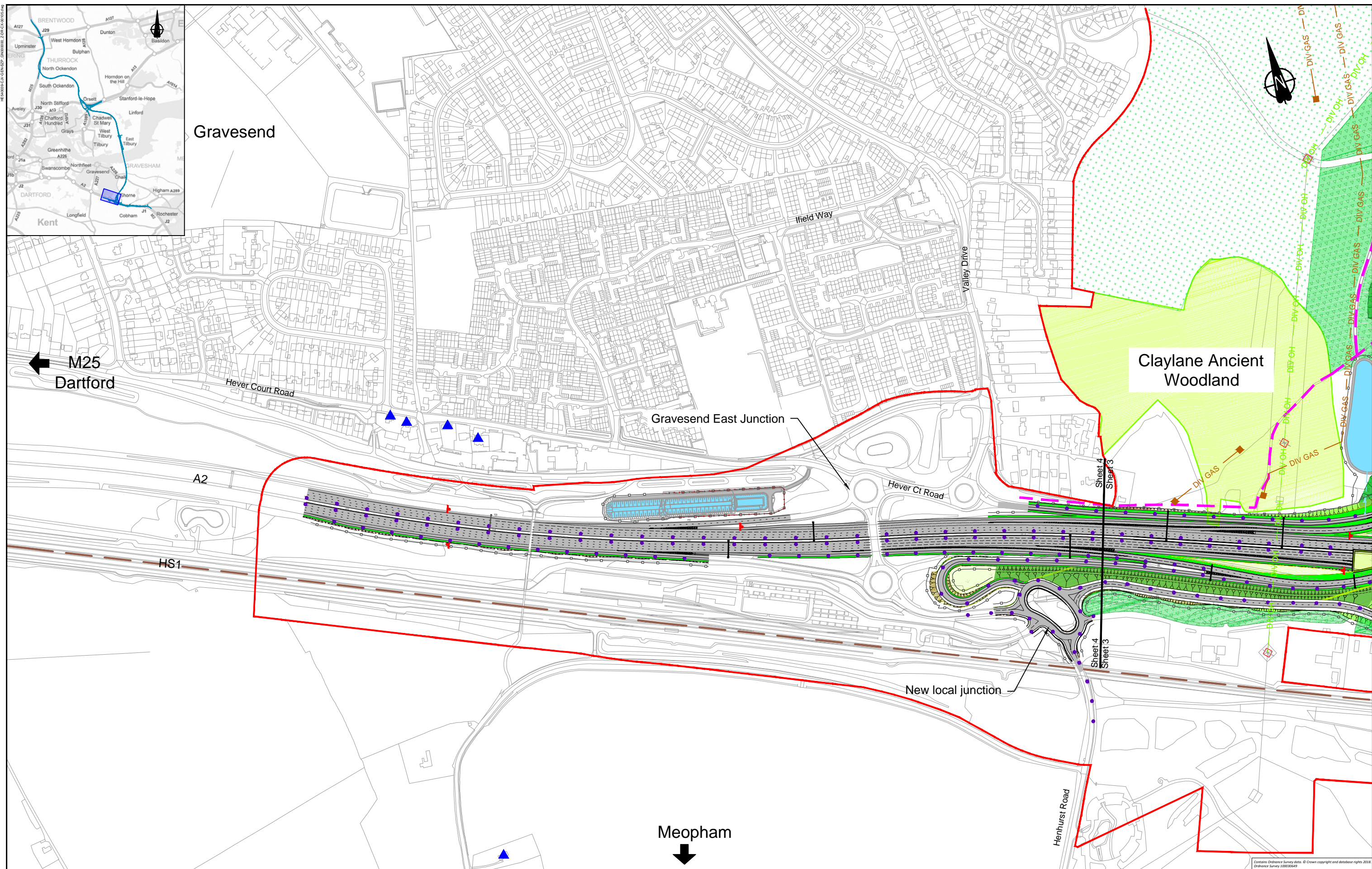
Drawing title

**GENERAL ARRANGEMENT PLAN
SHEET 3**

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Gravesend



M25
Dartford

Gravesend East Junction

Claylane Ancient
Woodland

A2

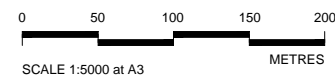
HS1

New local junction

Meopham

Henhurst Road

Sheet 4
Sheet 3

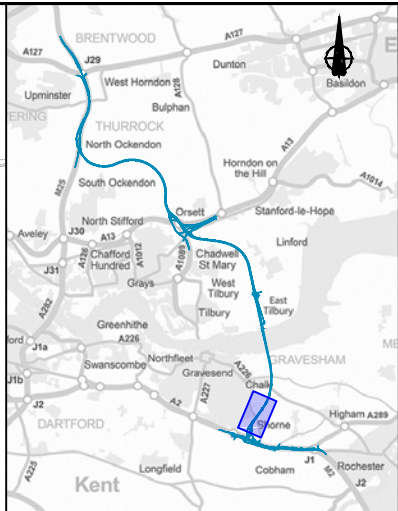
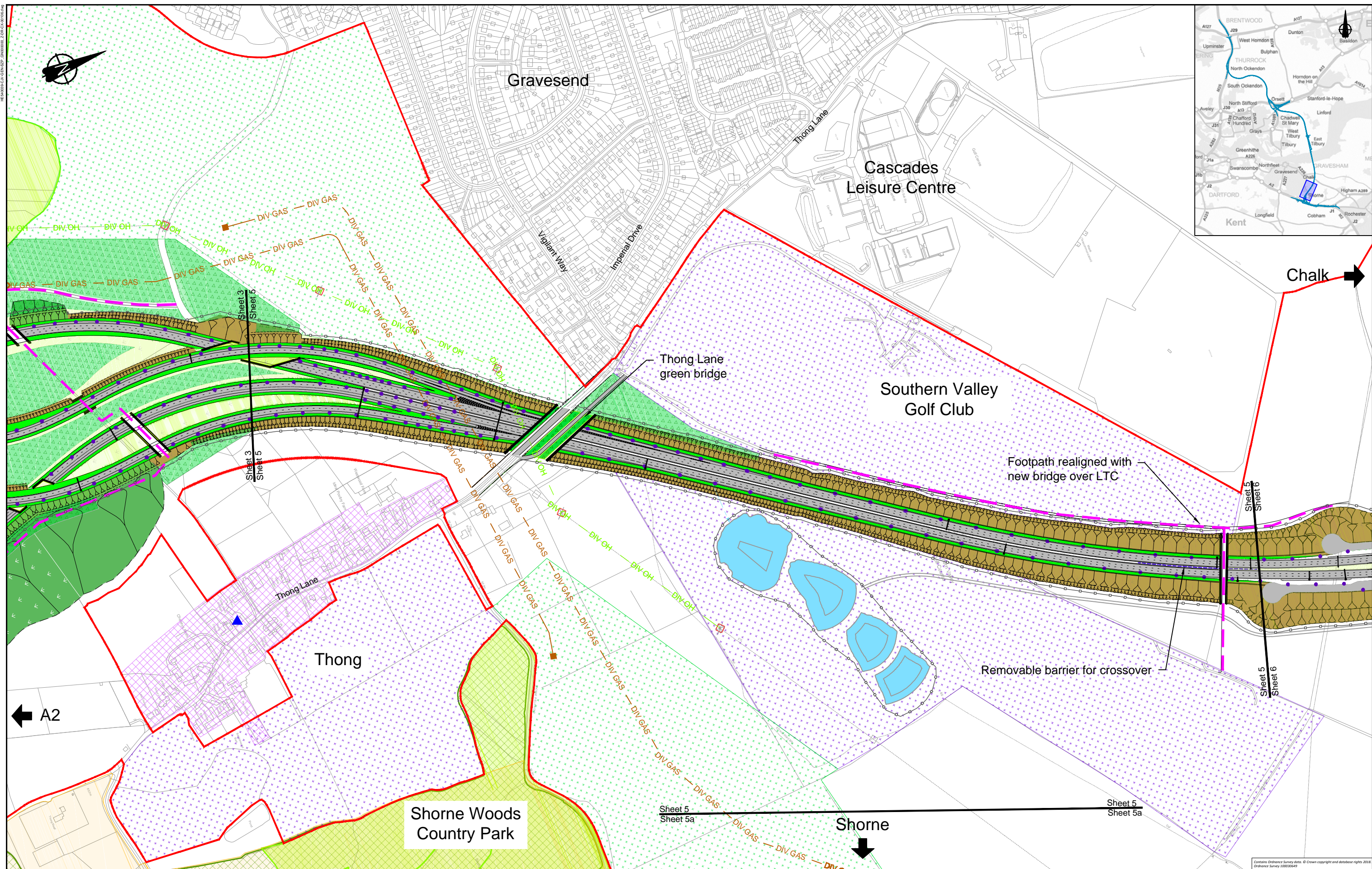


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	Drawing title	GENERAL ARRANGEMENT PLAN SHEET 4

PROPOSALS FOR
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GENERAL ARRANGEMENT PLAN
SHEET 4

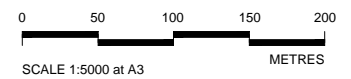
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← A2

→ Chalk

↓ Shorne

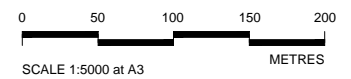
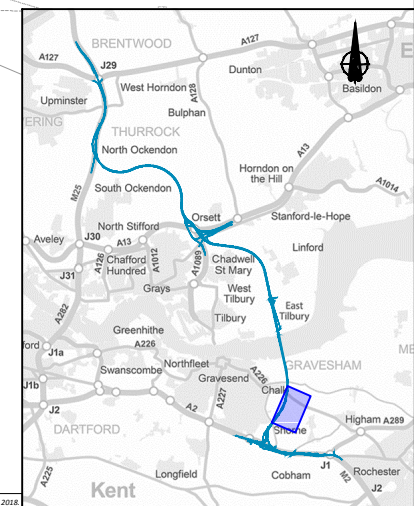
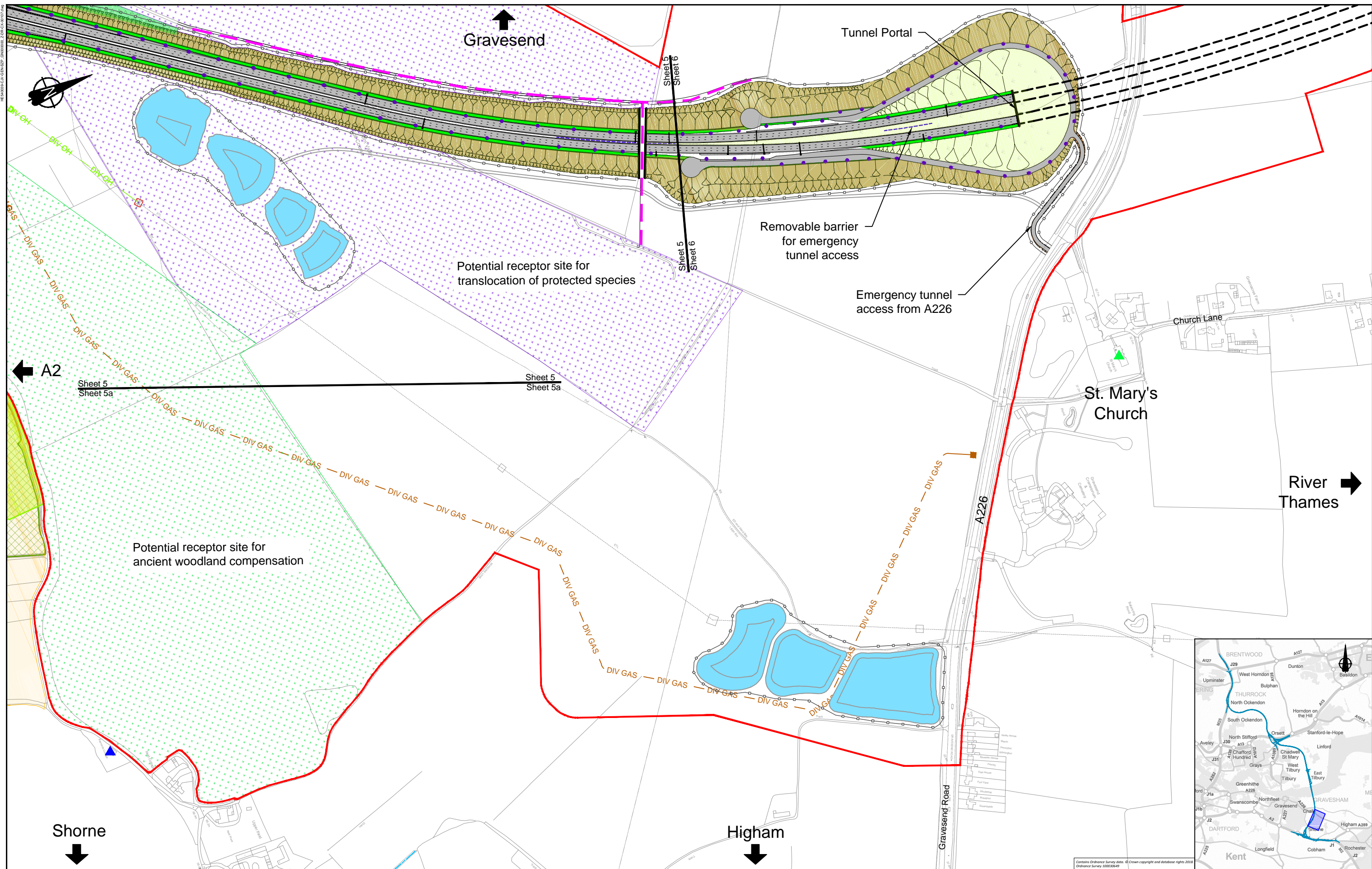


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	Drawing title	GENERAL ARRANGEMENT PLAN SHEET 5

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**GENERAL ARRANGEMENT PLAN
SHEET 5**

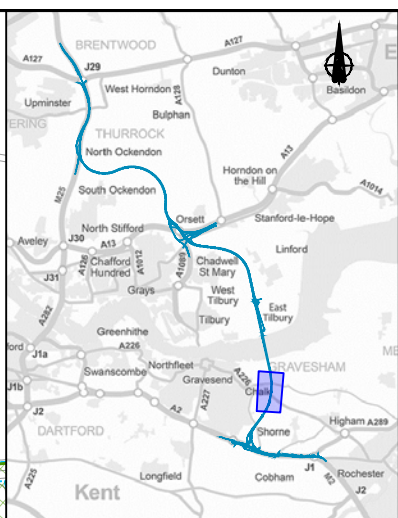
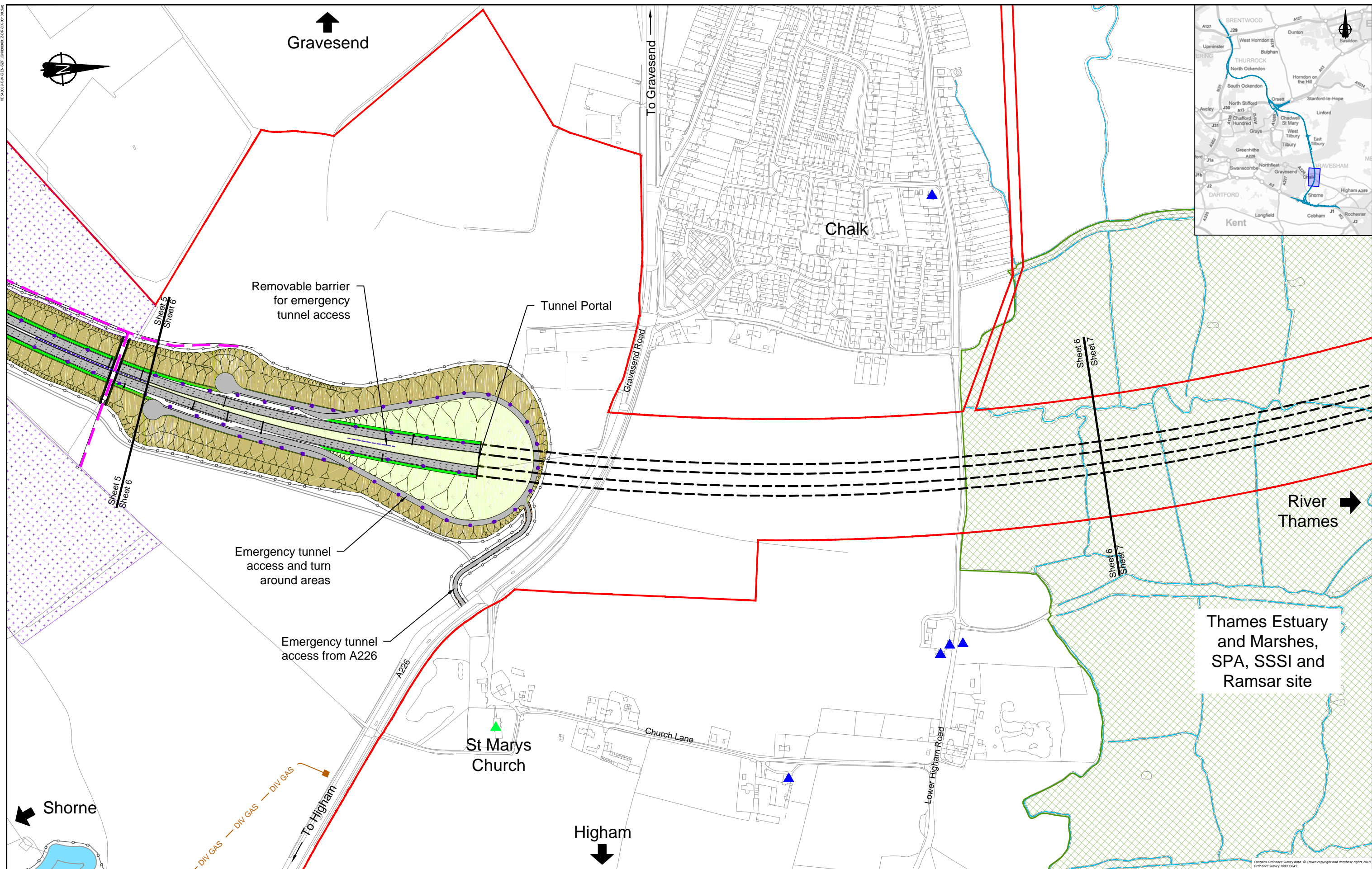
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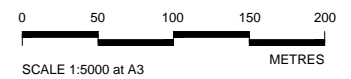
PROPOSALS FOR CONSULTATION

Project
LOWER THAMES CROSSING STATUTORY CONSULTATION
 Drawing title
GENERAL ARRANGEMENT PLAN SHEET 5a



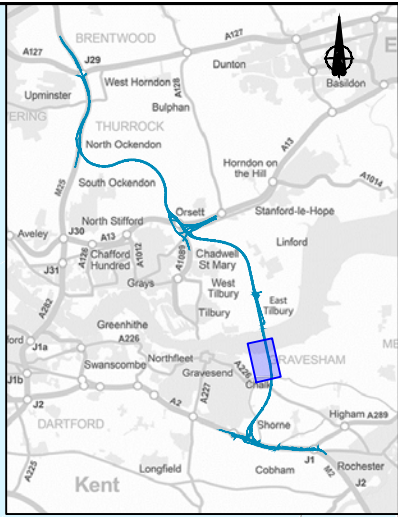
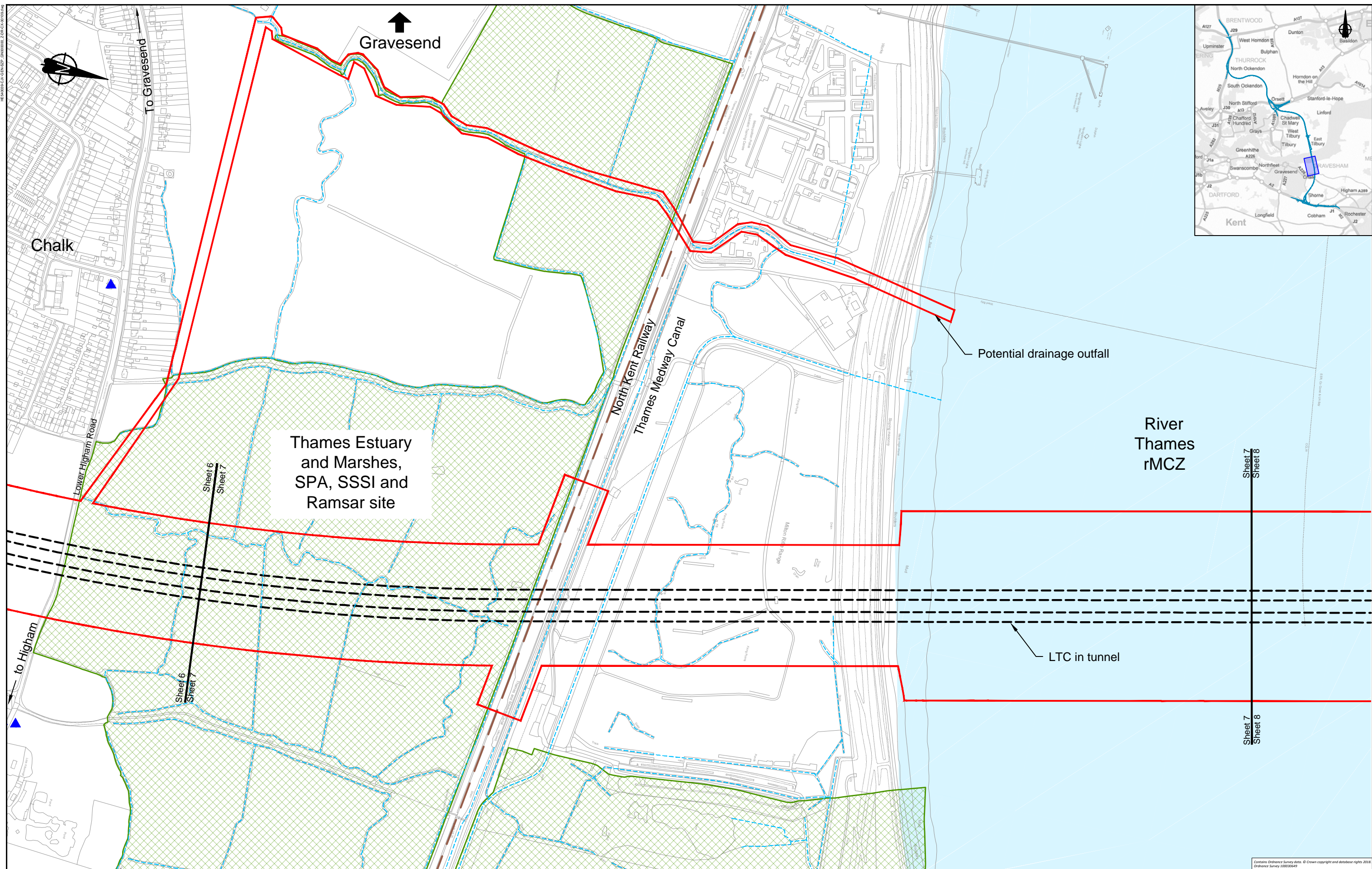
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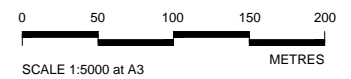
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	Drawing title	GENERAL ARRANGEMENT PLAN SHEET 6

**PROPOSALS FOR
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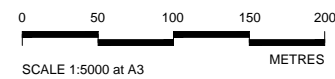
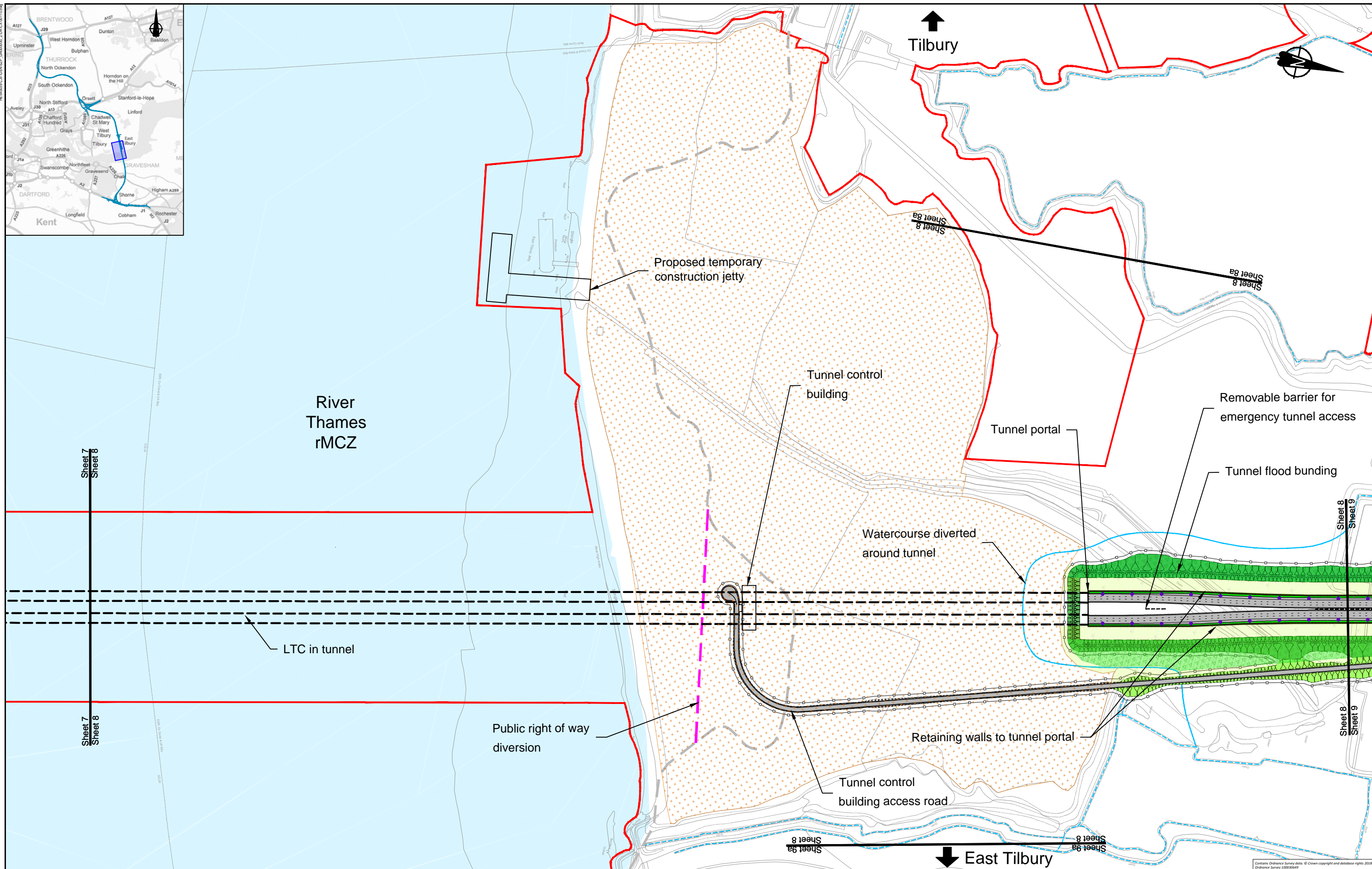
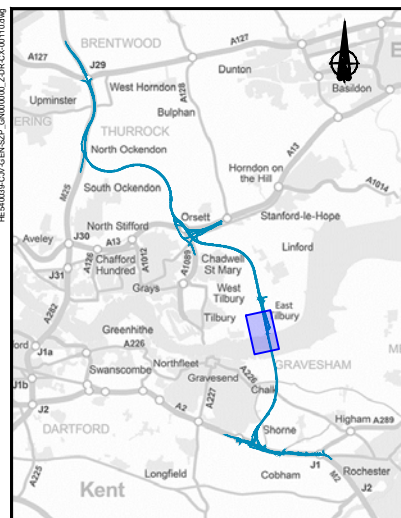


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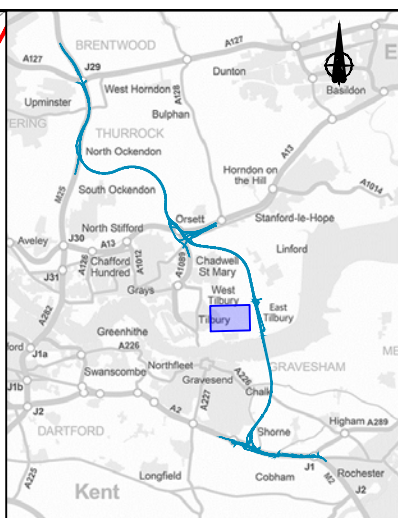
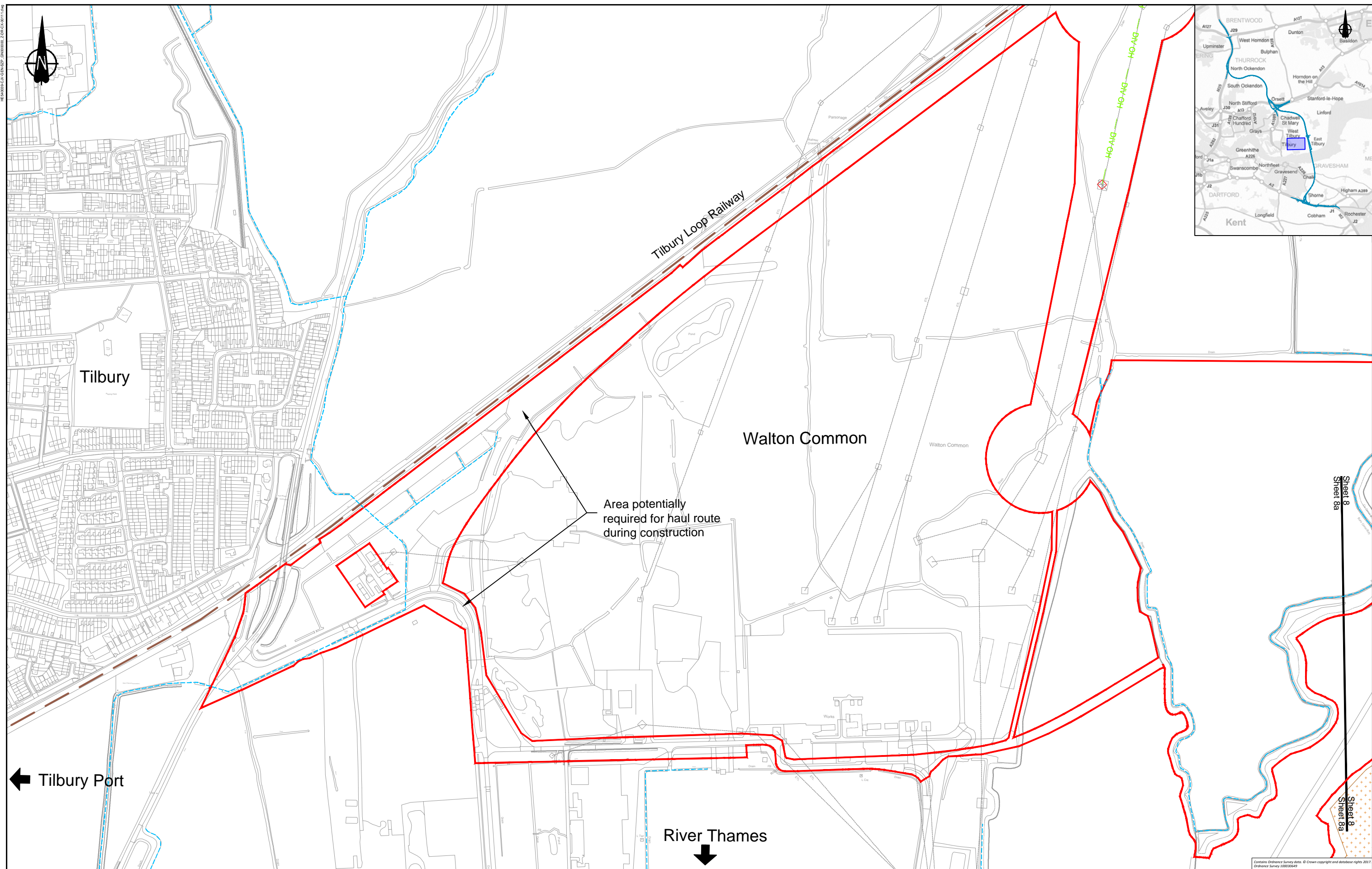
Drawing title GENERAL ARRANGEMENT PLAN SHEET 7



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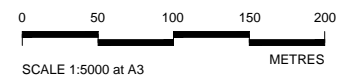


← Tilbury Port

Area potentially required for haul route during construction

River Thames

Sheet 8
Sheet 8a

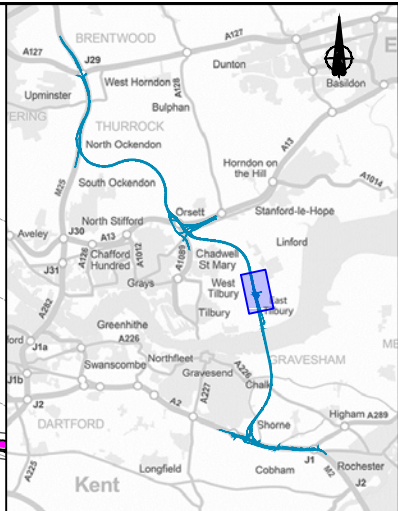
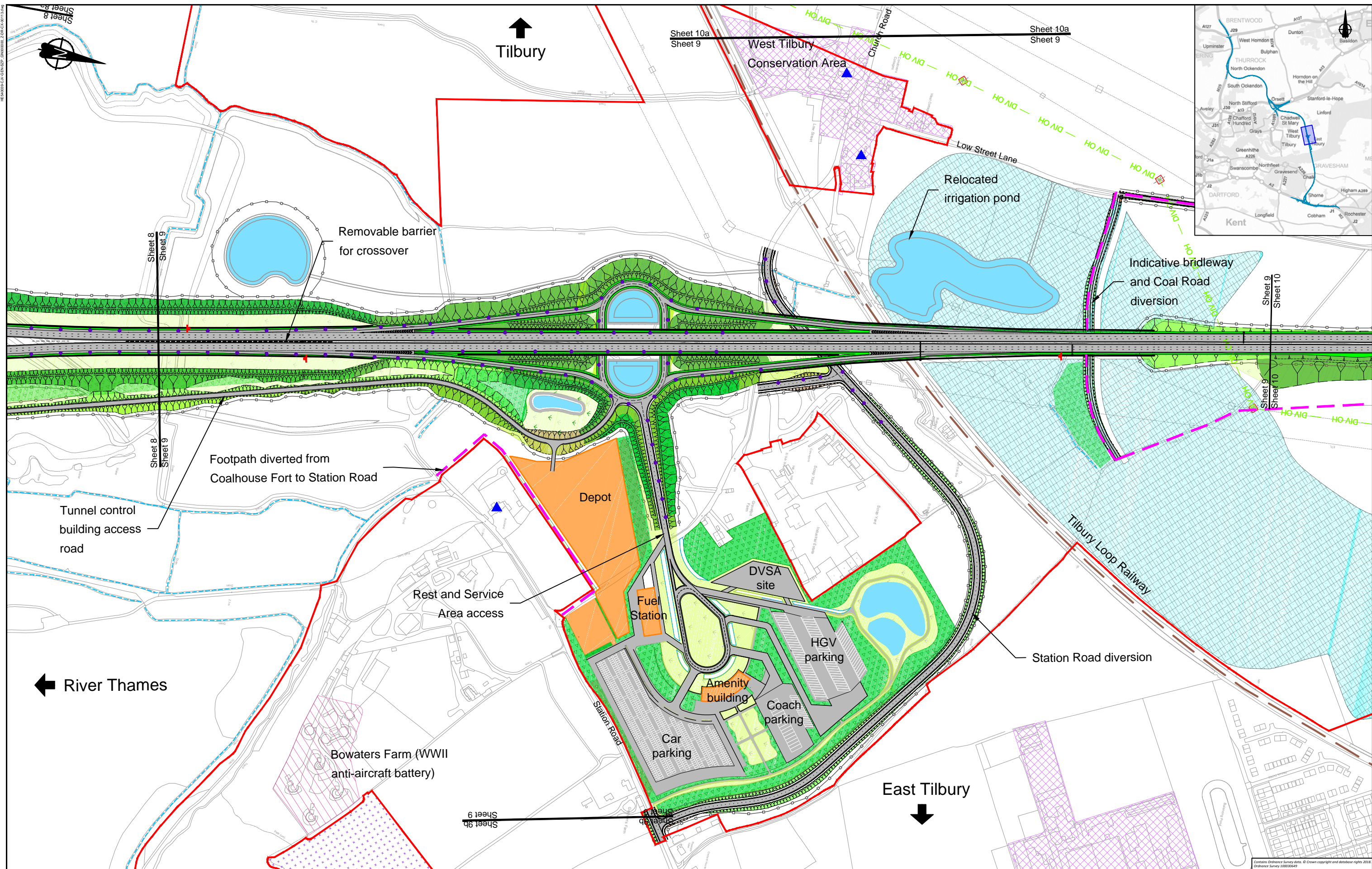


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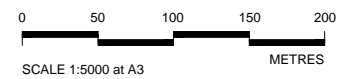
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← River Thames

↑ Tilbury

↓ East Tilbury



Client **highways england**

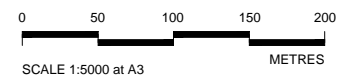
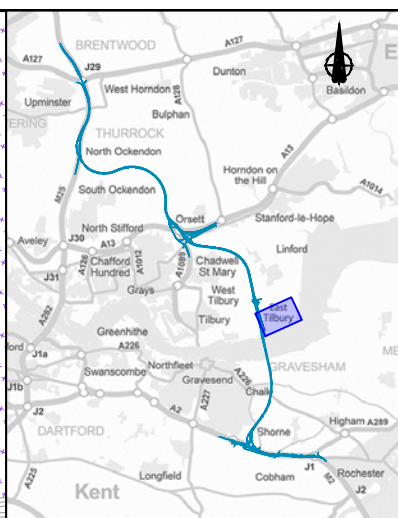
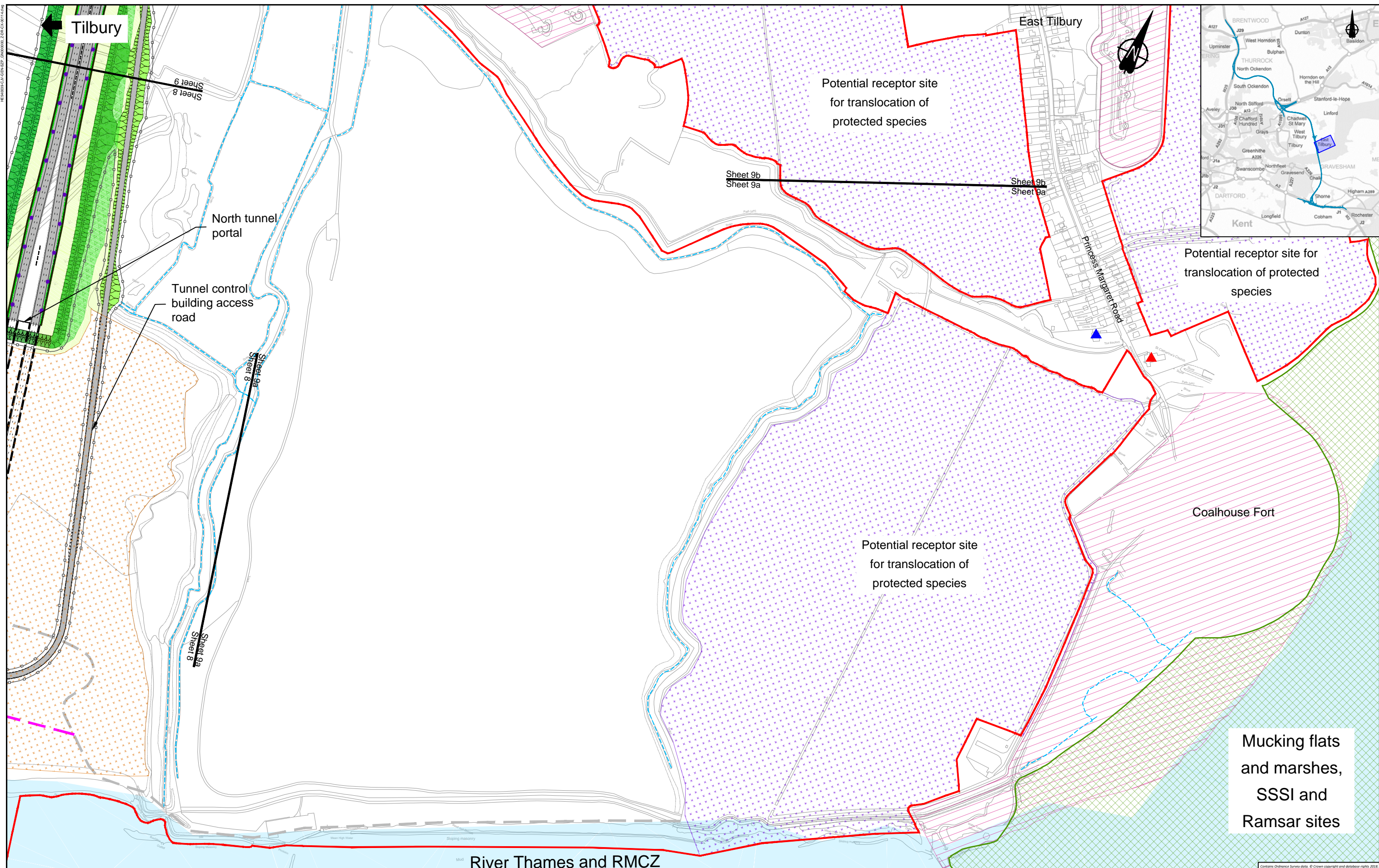
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Drawing title GENERAL ARRANGEMENT PLAN SHEET 9

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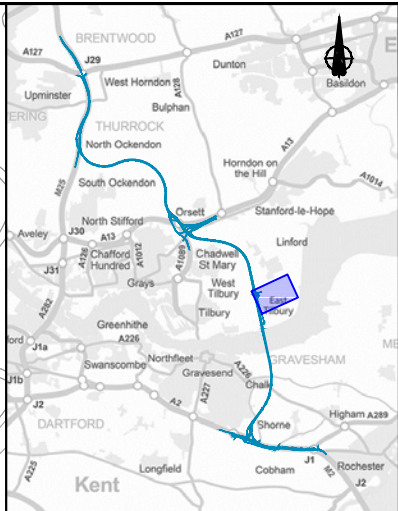
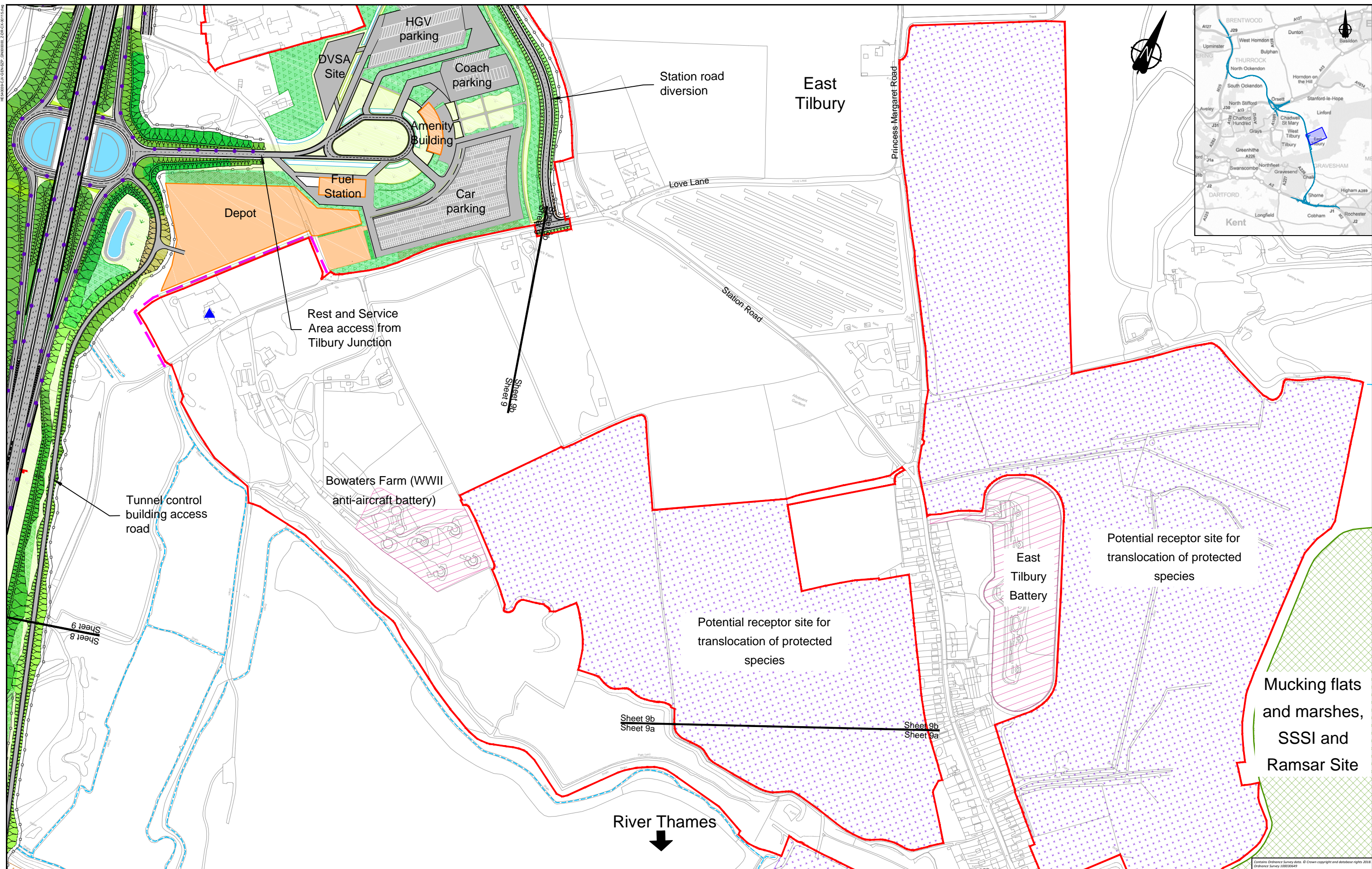
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STATUTORY CONSULTATION

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GENERAL ARRANGEMENT PLAN
SHEET 9a

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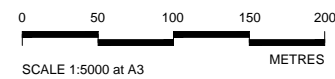


Potential receptor site for translocation of protected species

Potential receptor site for translocation of protected species

Mucking flats and marshes, SSSI and Ramsar Site

River Thames
↓

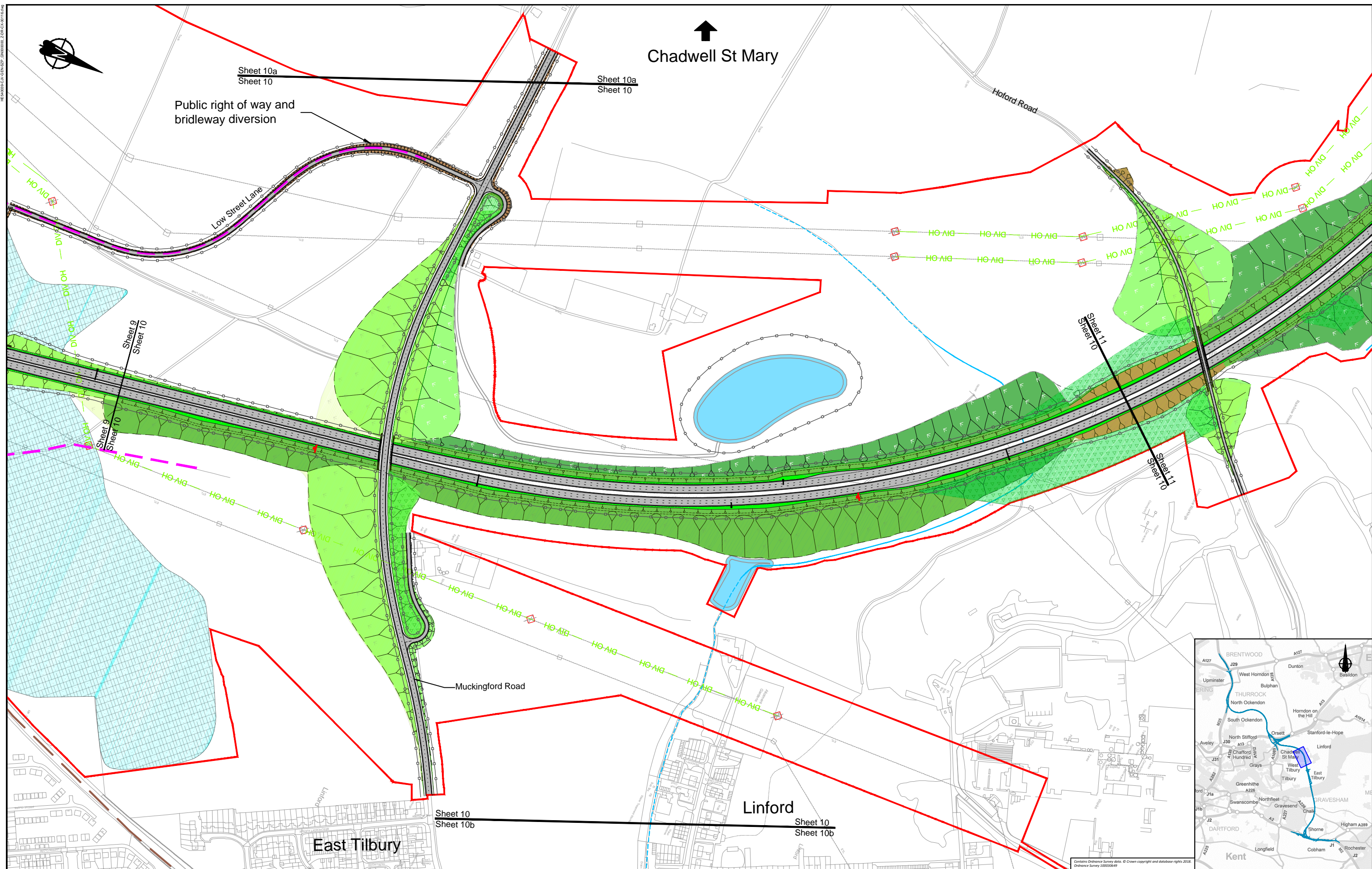


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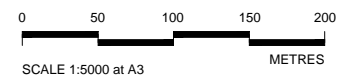
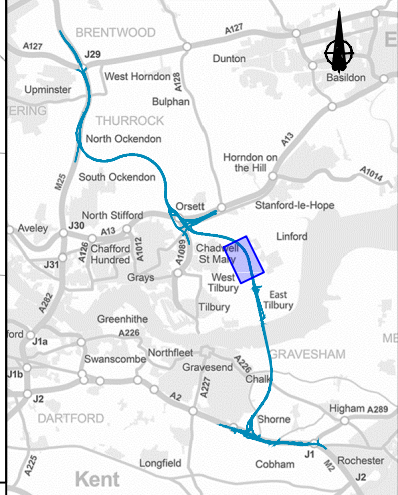
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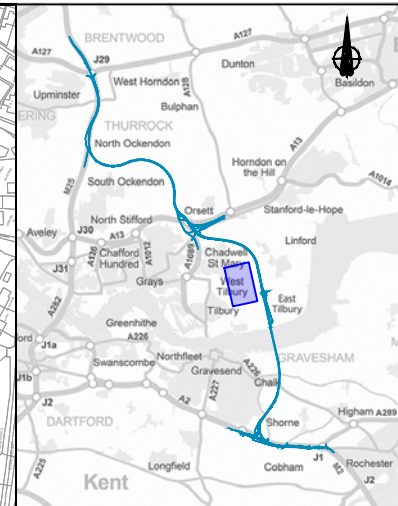
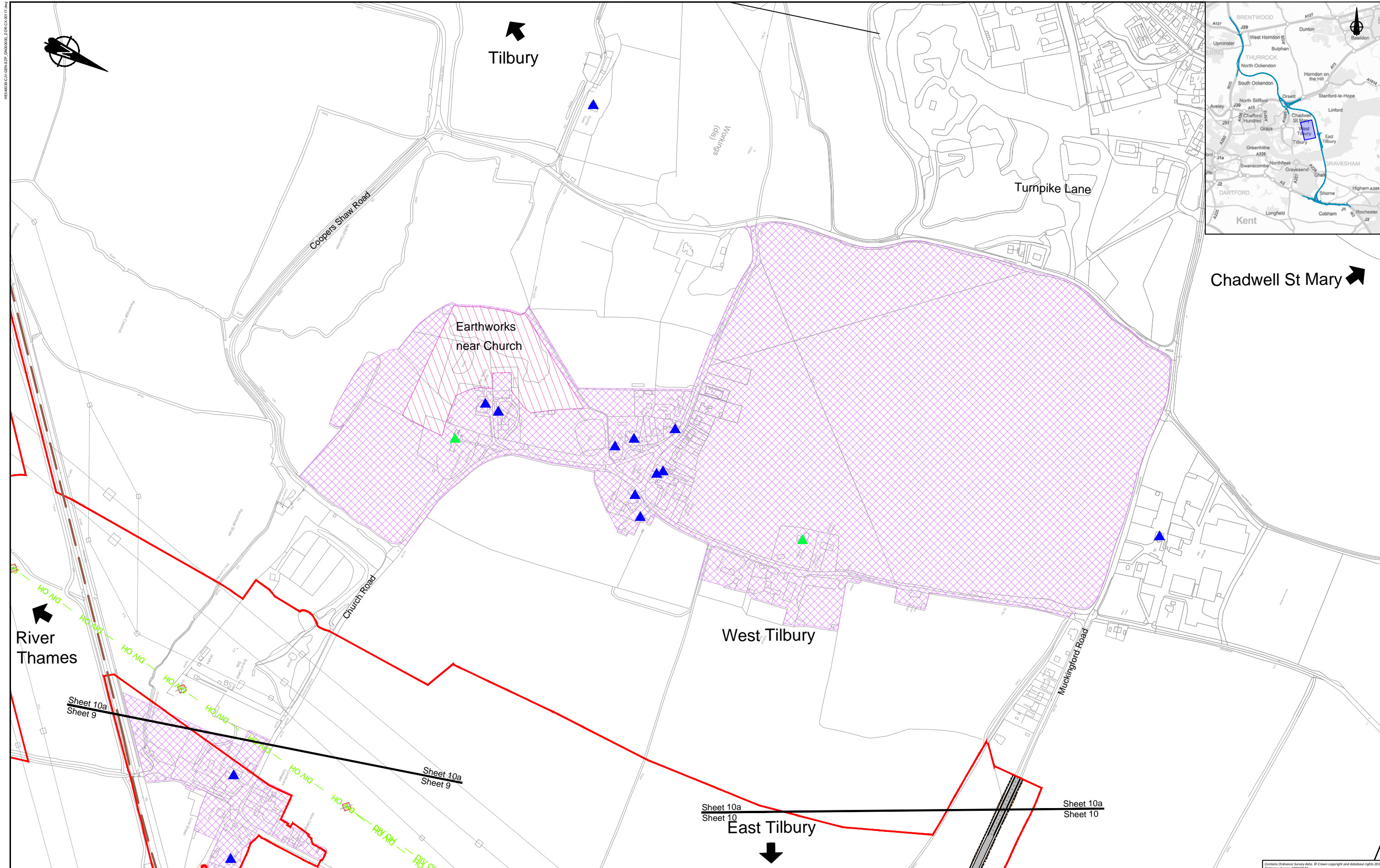


Client
**highways
england**

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**GENERAL ARRANGEMENT PLAN
SHEET 10**



River Thames

Tilbury

Turpike Lane

Chadwell St Mary

Earthworks near Church

West Tilbury

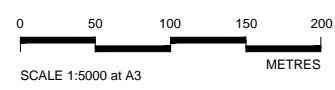
East Tilbury


Sheet 10a
Sheet 9

Sheet 10a
Sheet 9

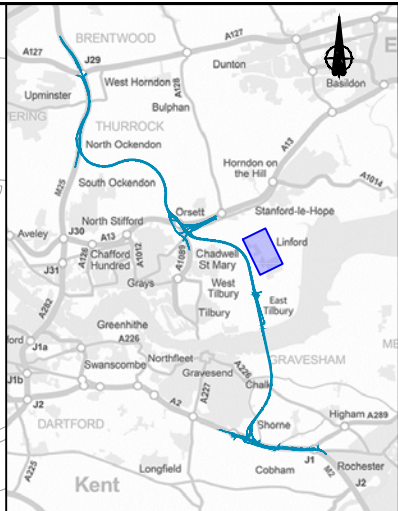
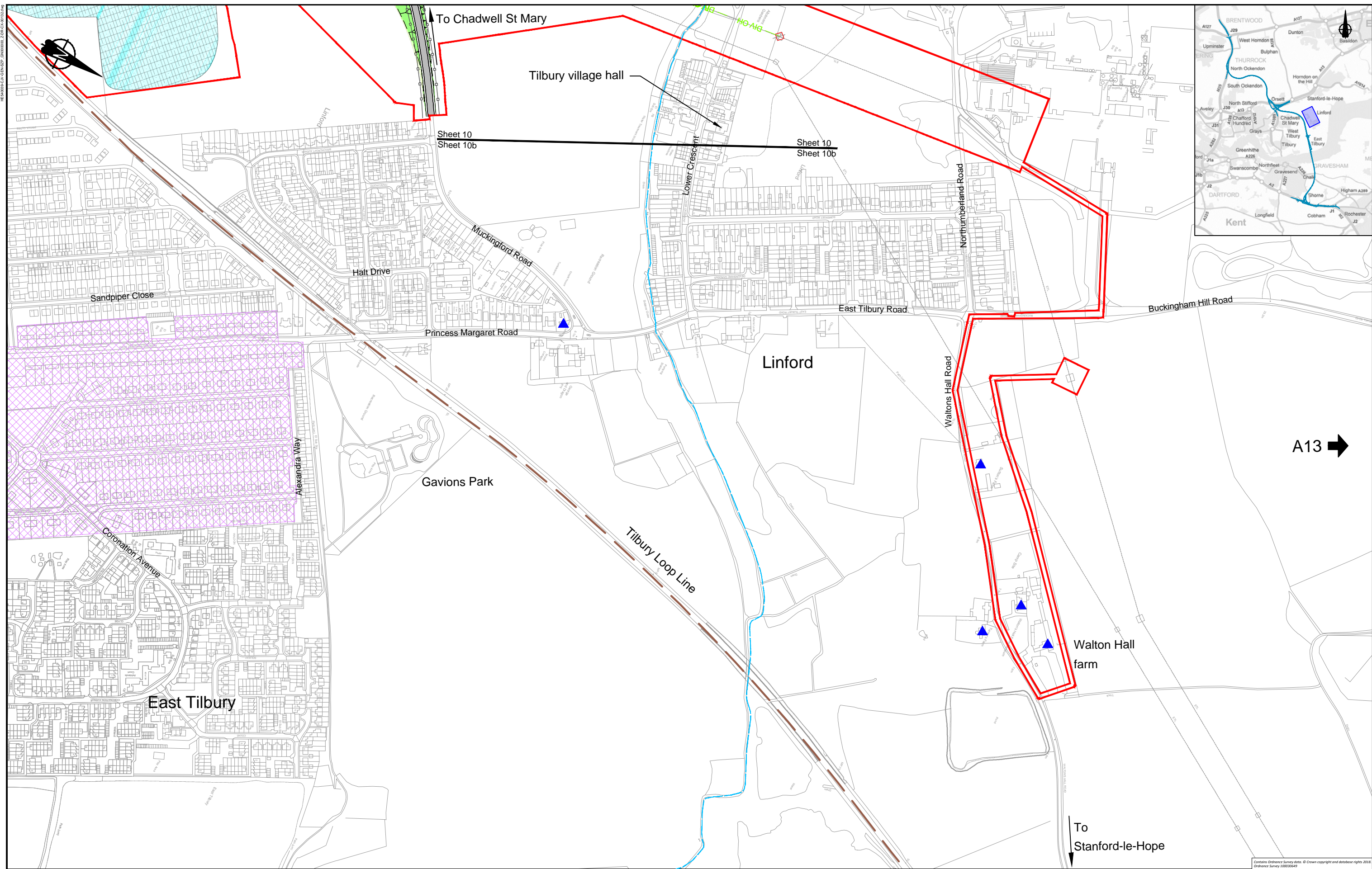
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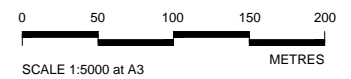
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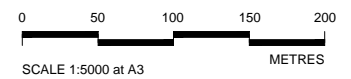
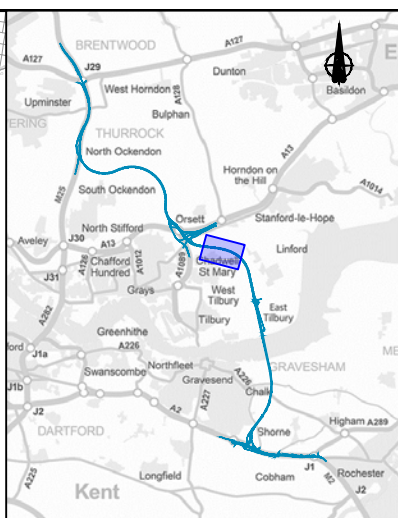
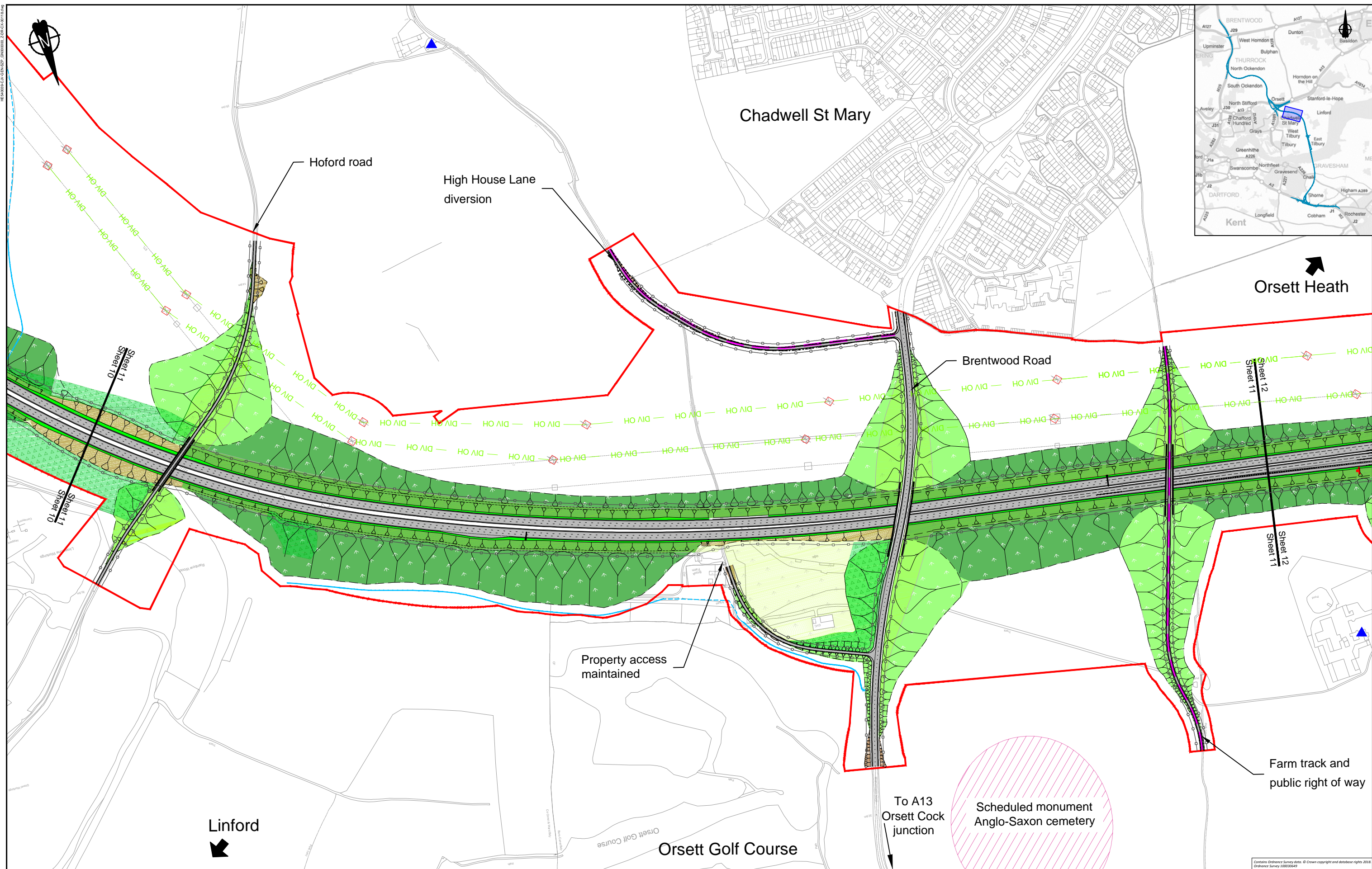


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Drawing title GENERAL ARRANGEMENT PLAN SHEET 10b



Client

Project

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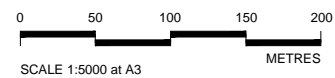
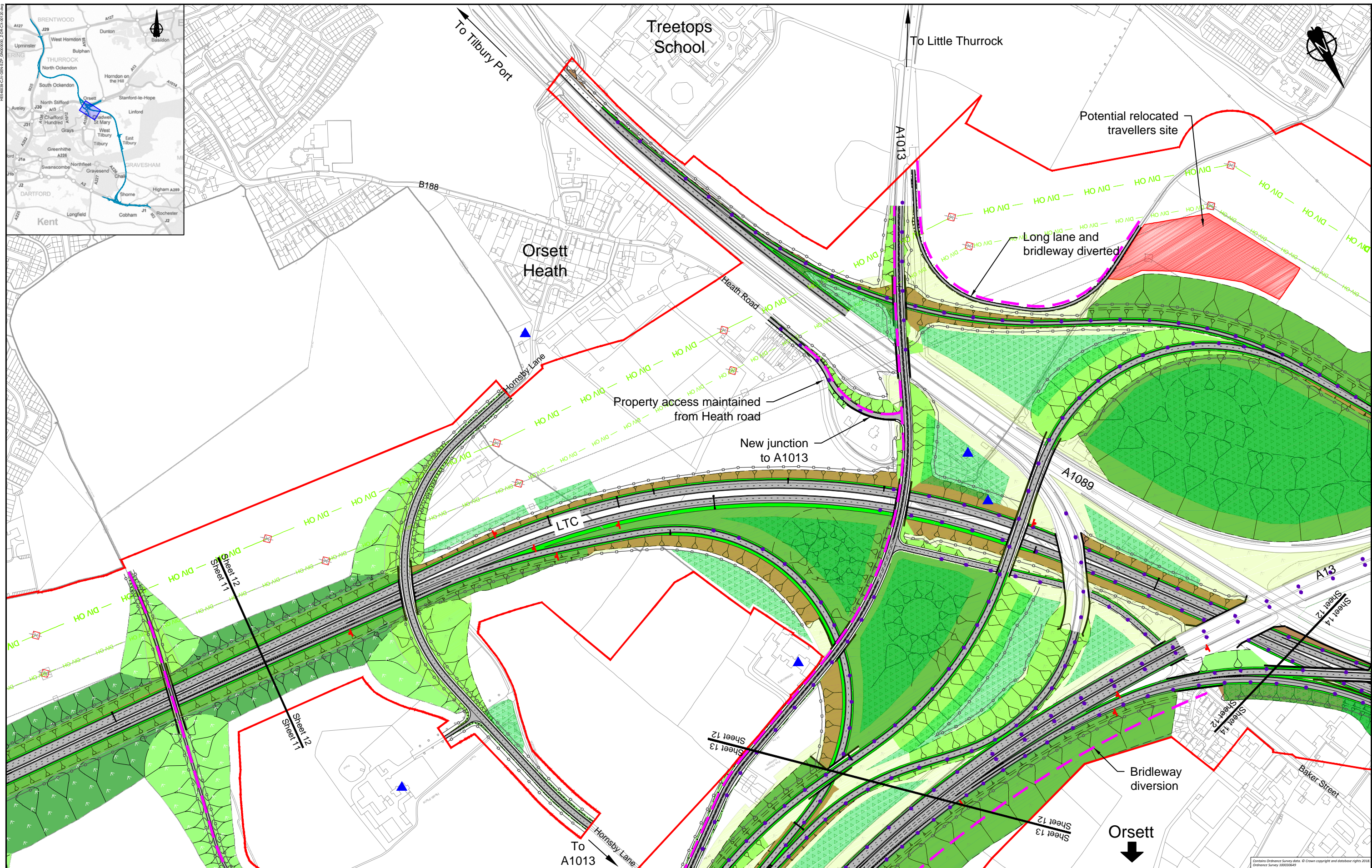
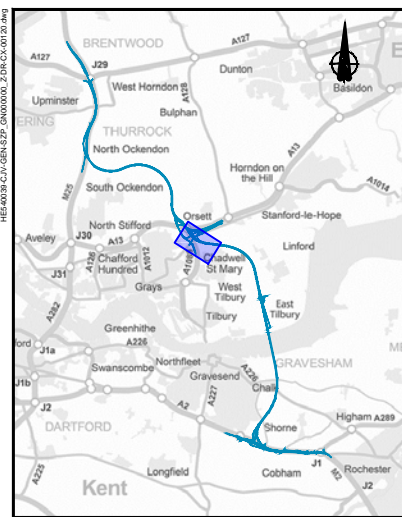
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STATUTORY CONSULTATION

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GENERAL ARRANGEMENT PLAN
SHEET 11

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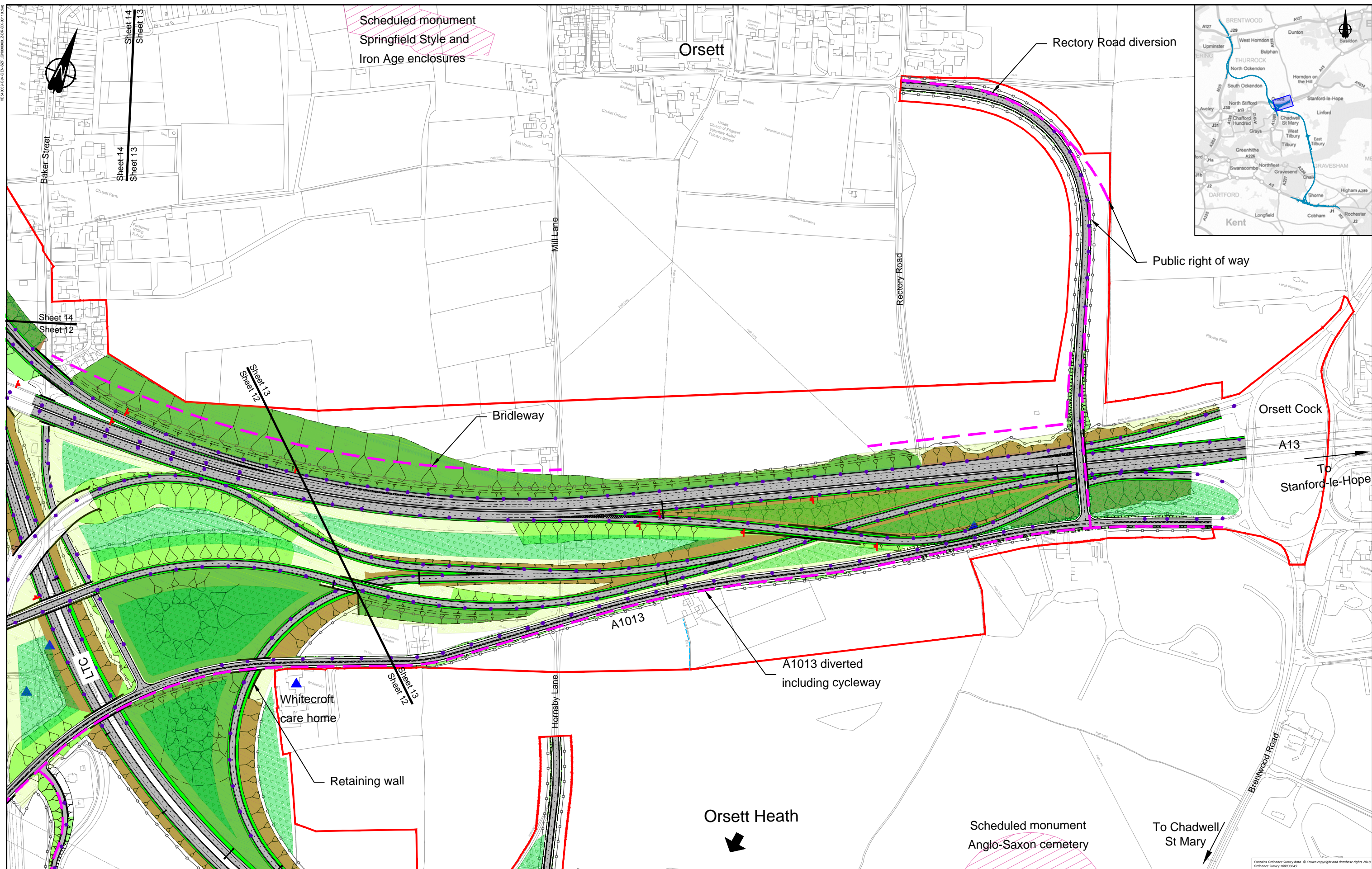


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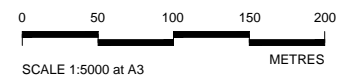
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Sheet 14
Sheet 13

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Sheet 12



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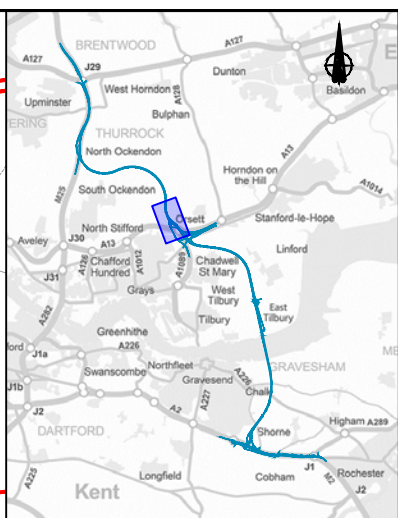
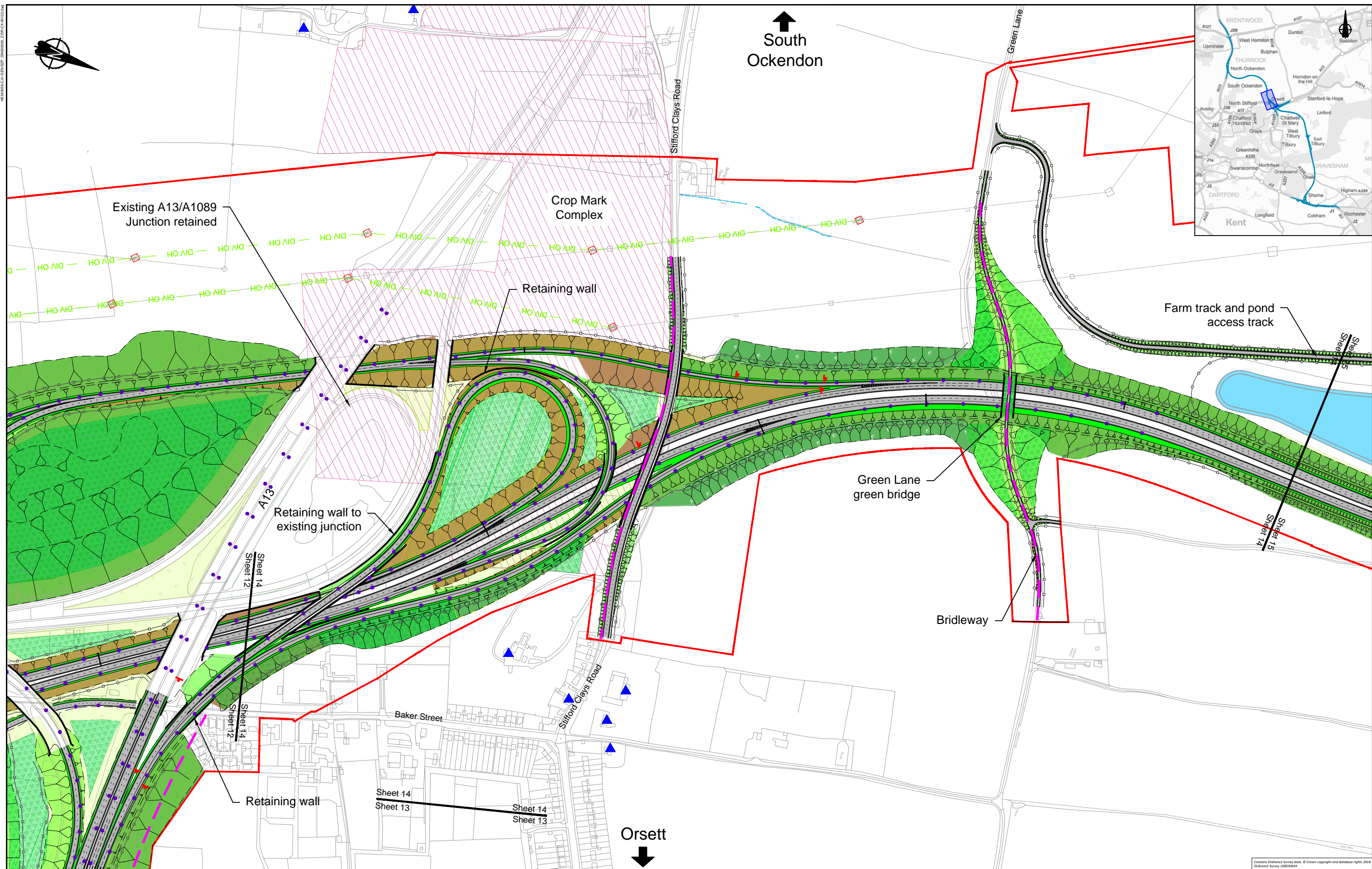
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STATUTORY CONSULTATION

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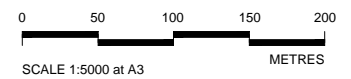
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↑
South
Ockendon

↓
Orsett



Client

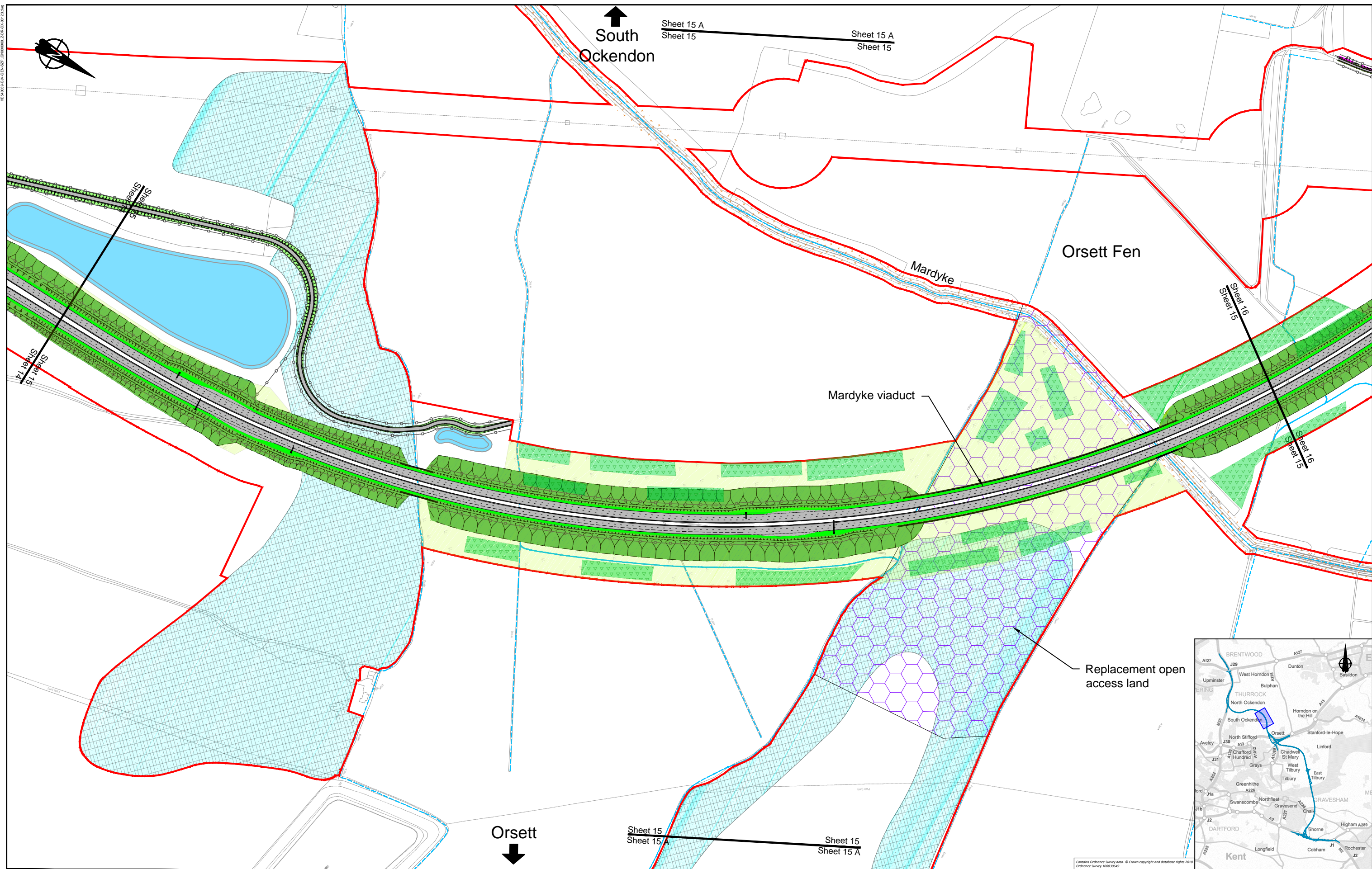
PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title GENERAL ARRANGEMENT PLAN SHEET 14

M14003/CLV/ENR/027_000000_2.06.CLV/12.46

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South
Ockendon

Sheet 15 A
Sheet 15

Sheet 15 A
Sheet 15

Orsett Fen

Mardyke

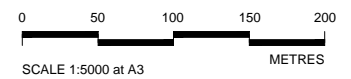
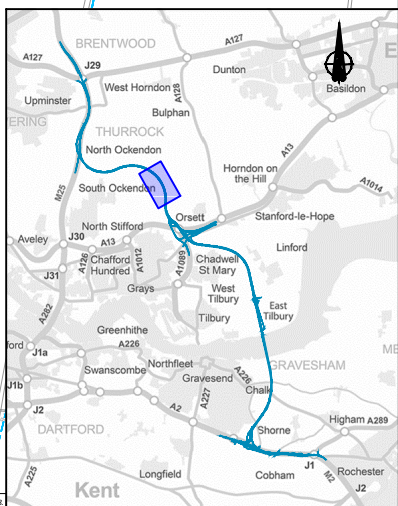
Mardyke viaduct

Replacement open
access land

Orsett

Sheet 15
Sheet 15

Sheet 15
Sheet 15 A



Client

PROPOSALS FOR CONSULTATION

Project

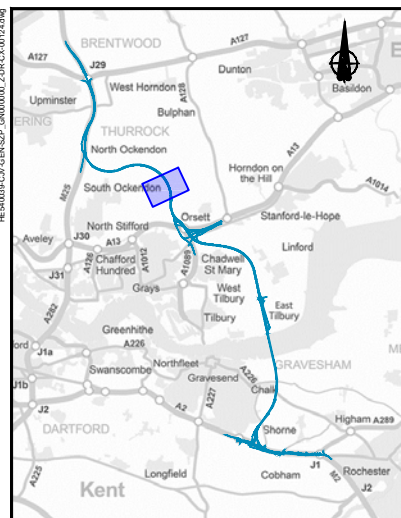
LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title

GENERAL ARRANGEMENT PLAN SHEET 15

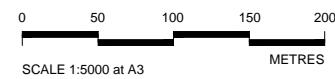
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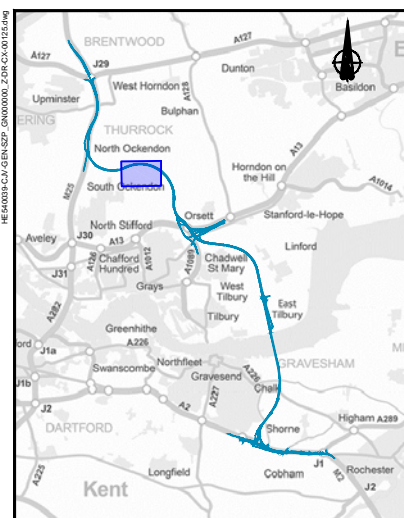
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Sheet 15

Sheet 15
Sheet 15 A

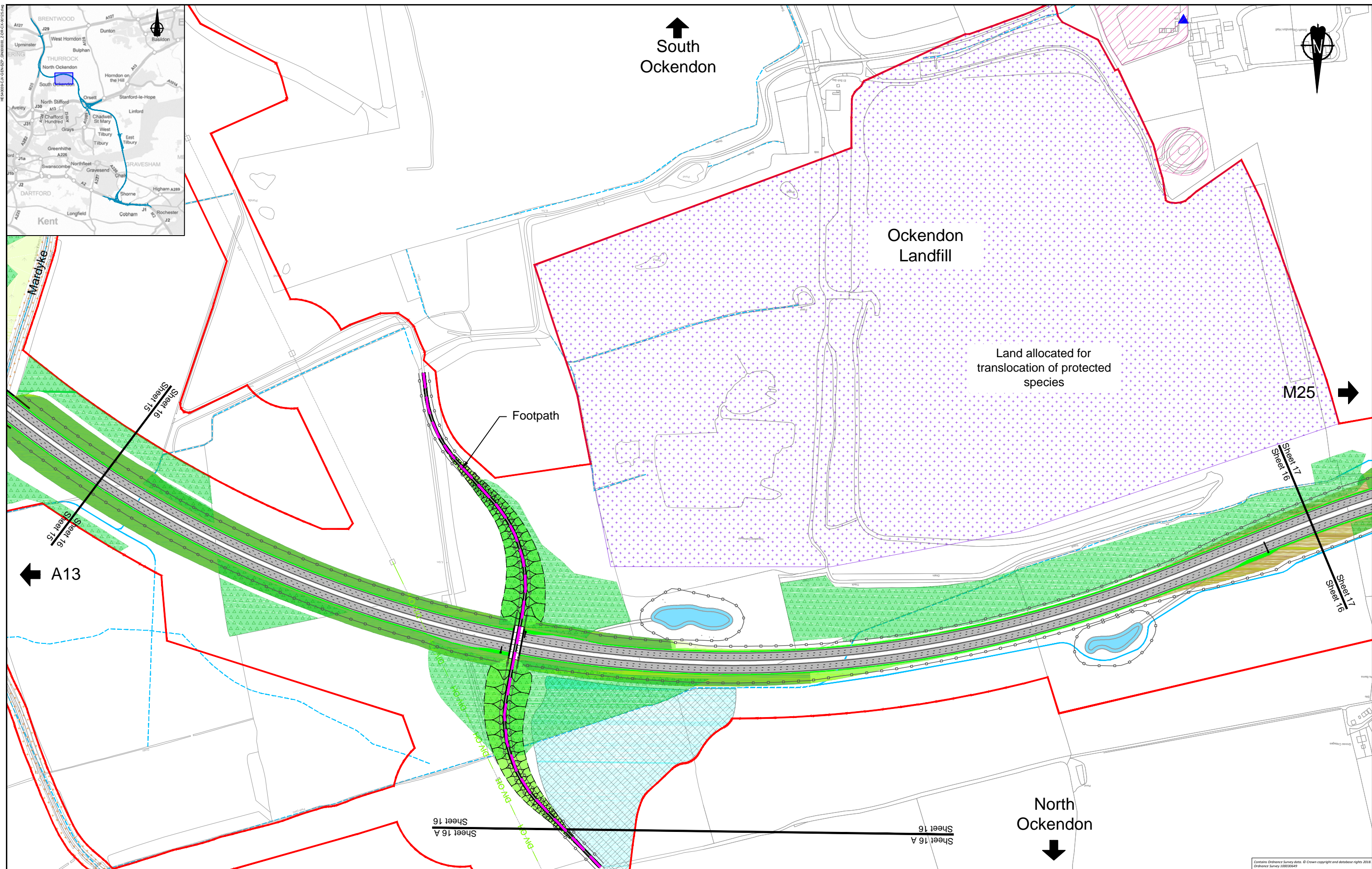


	Client	Project	LOWER THAMES CROSSING STATUTORY CONSULTATION
	PROPOSALS FOR CONSULTATION		Drawing title

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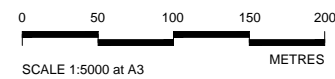
↑
South
Ockendon



← A13

M25 →

↓
North
Ockendon



Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title GENERAL ARRANGEMENT PLAN SHEET 16

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HE400333/CA/EN/027_00/0000_2/06/CA/01/16/04



North
Ockendon

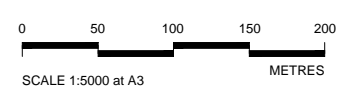
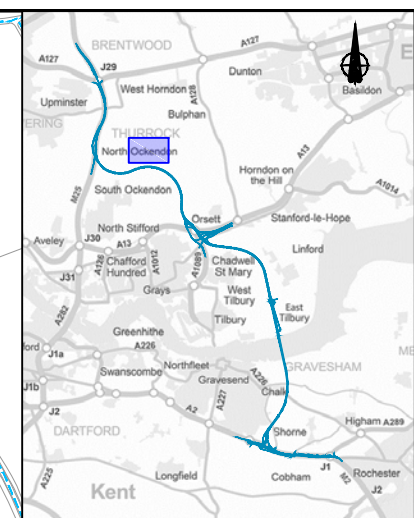
M25

Overhead electricity
cables re-strung

South
Ockendon

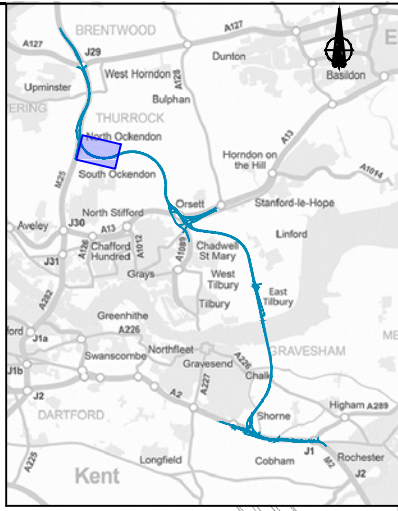
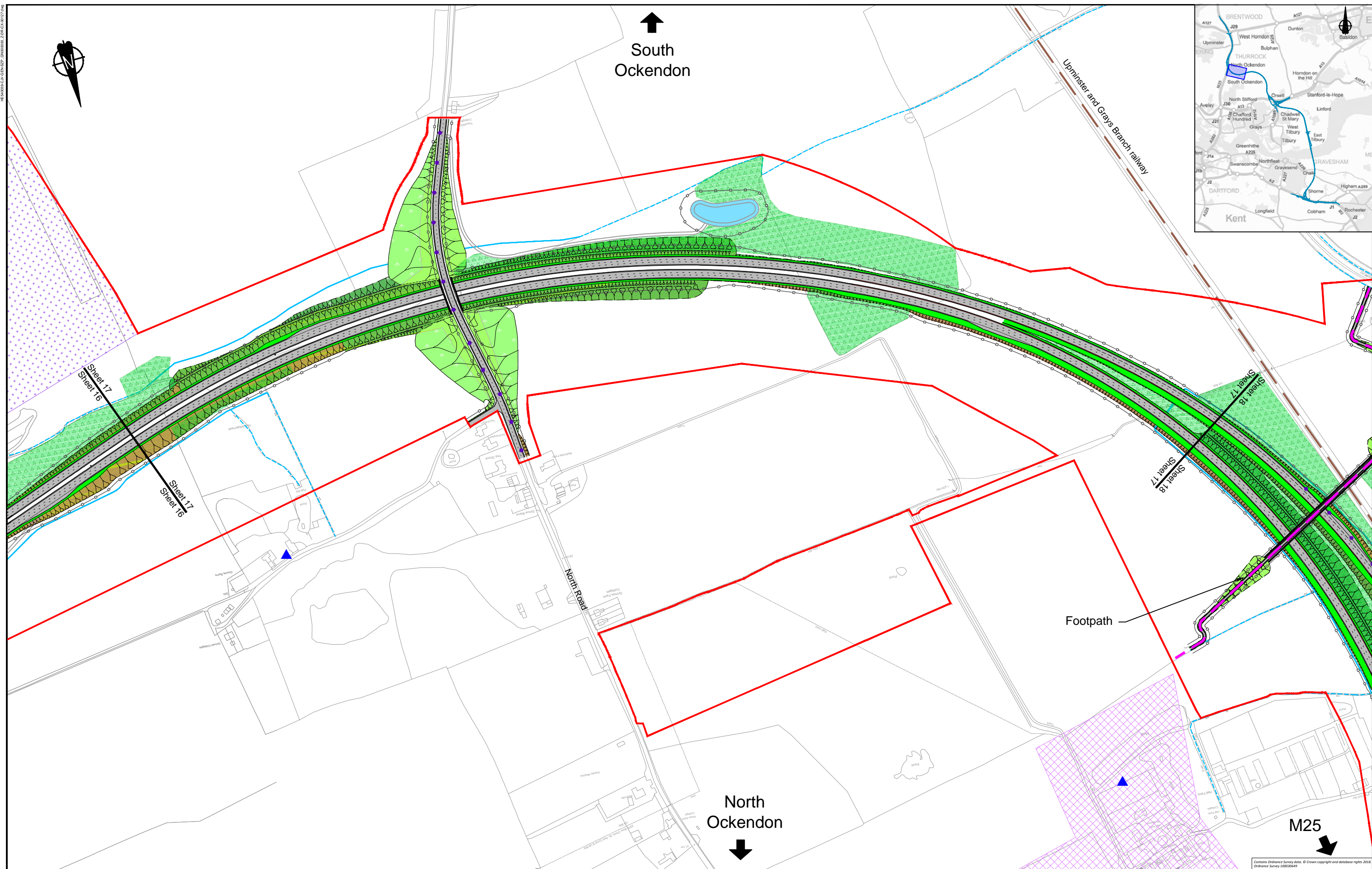
Sheet 16 A
Sheet 16

Sheet 16 A
Sheet 16

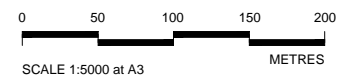


	Client	Project	LOWER THAMES CROSSING STATUTORY CONSULTATION
	PROPOSALS FOR CONSULTATION		Drawing title

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M40003/CA/EN/027_000000_2.06.CA/017/46



Client



Project

**LOWER THAMES CROSSING
STATUTORY CONSULTATION**

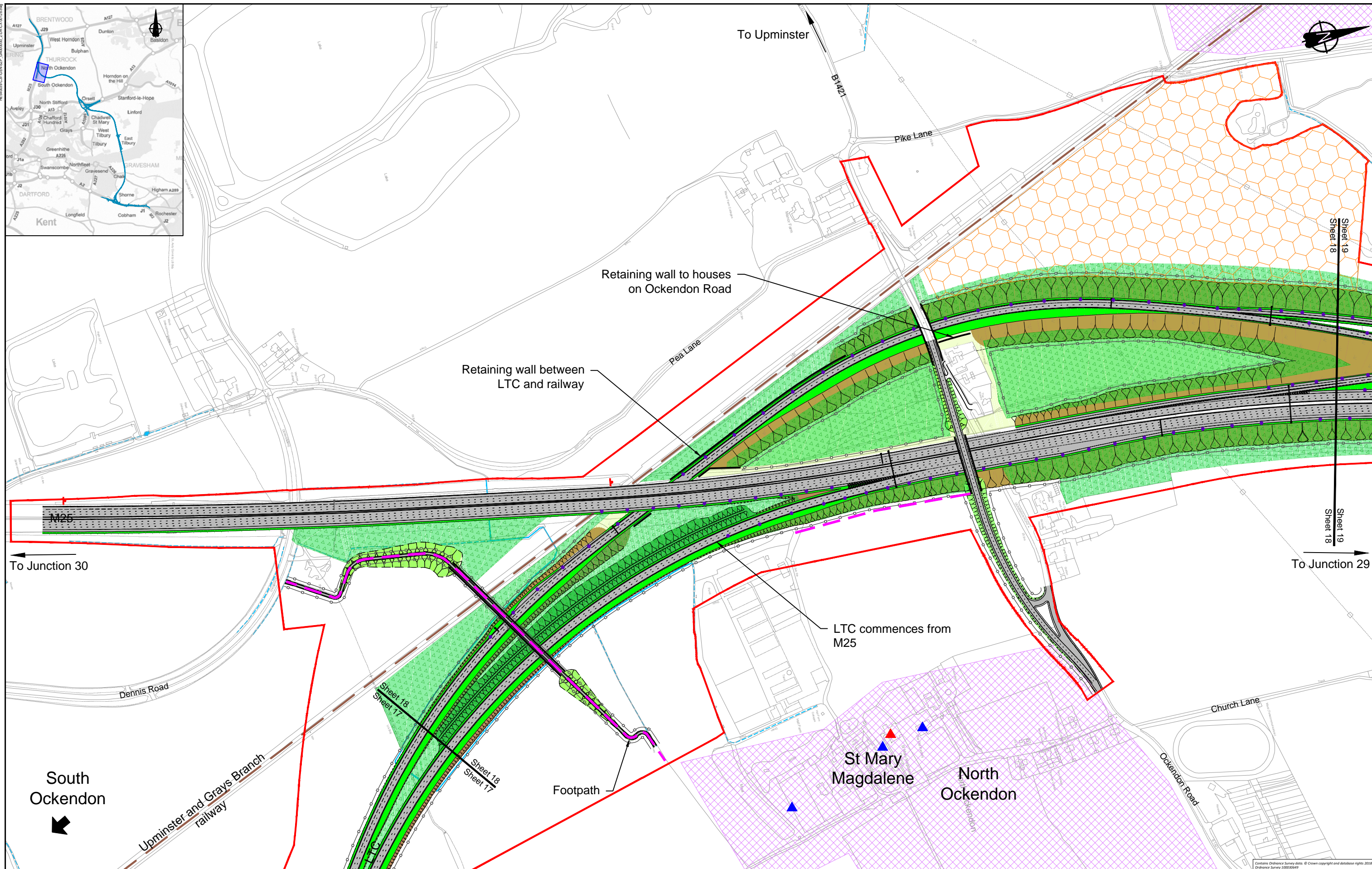
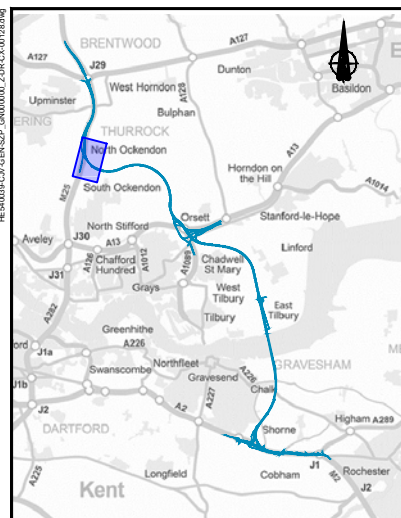
Drawing title

**PROPOSALS FOR
CONSULTATION**

Drawing title

**GENERAL ARRANGEMENT PLAN
SHEET 17**

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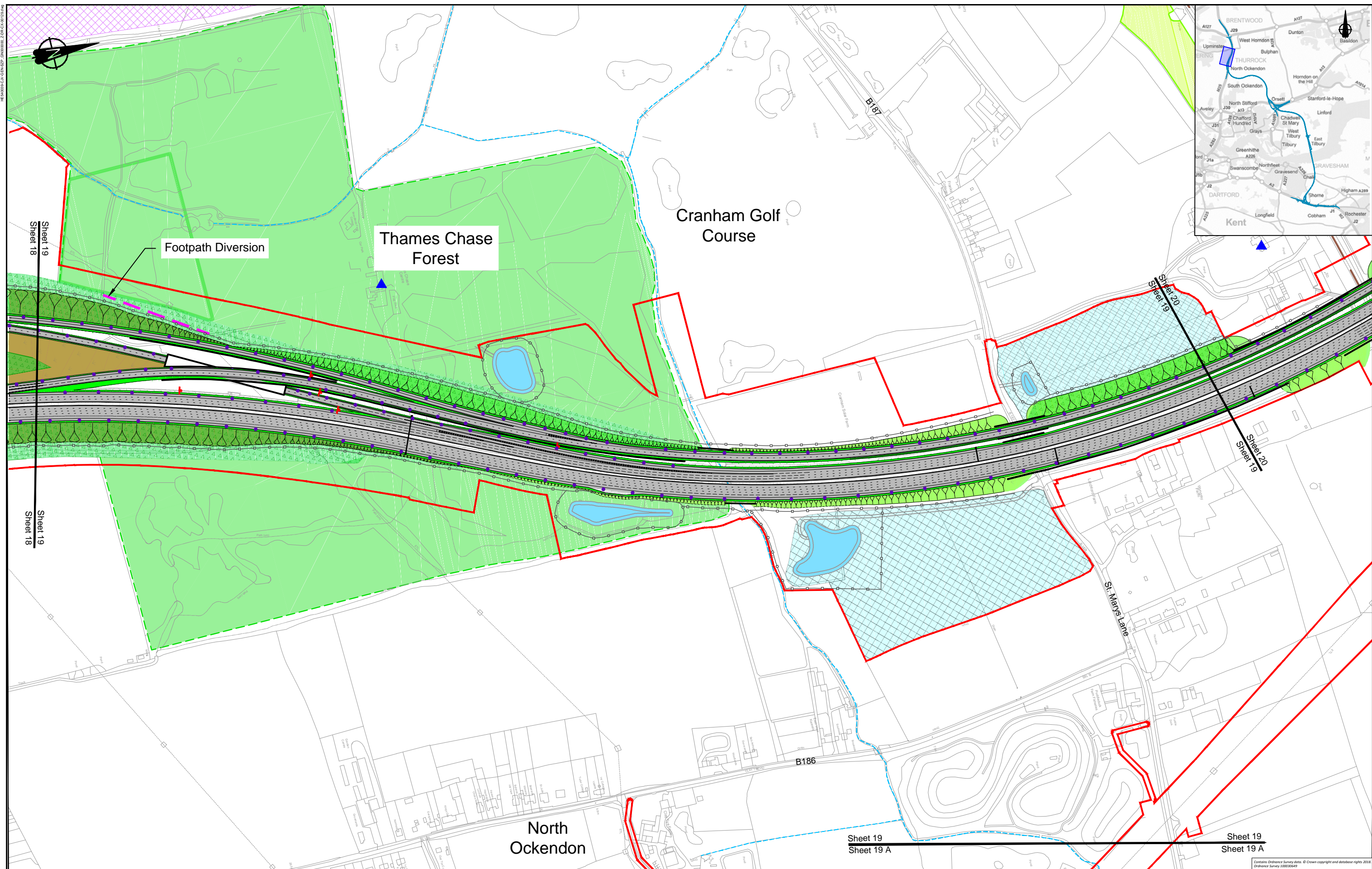
0 50 100 150 200
SCALE 1:5000 at A3 METRES

Client
highways england

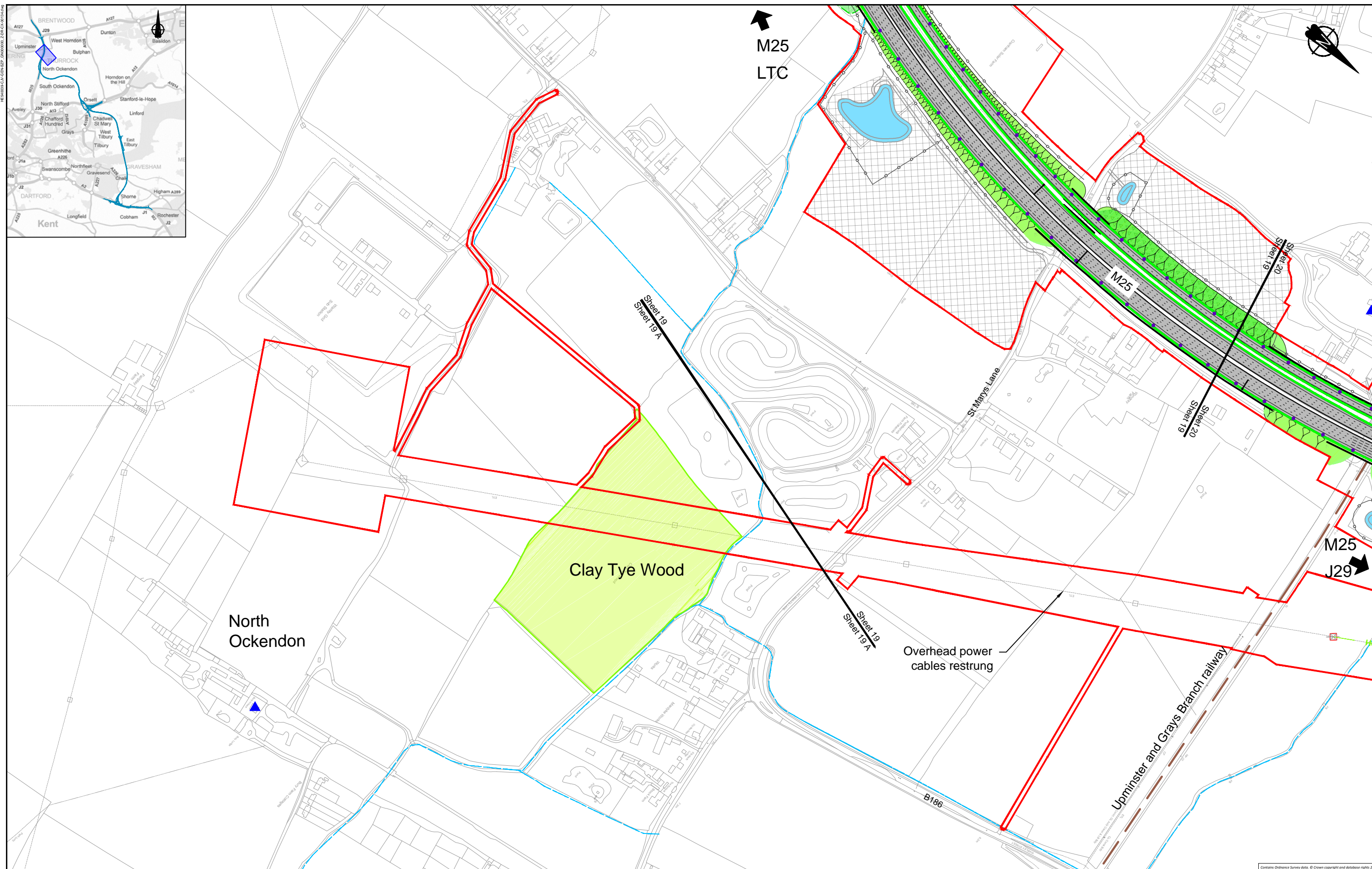
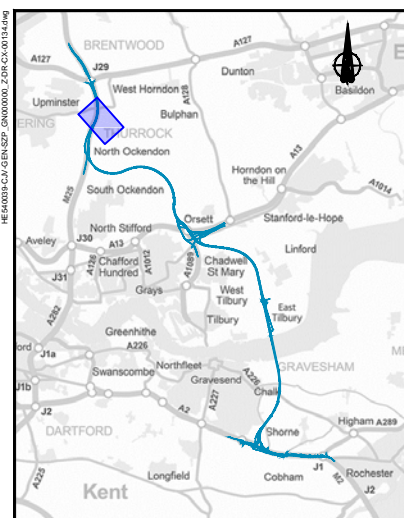
PROPOSALS FOR CONSULTATION

Project
LOWER THAMES CROSSING
STATUTORY CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 18



<p>SCALE 1:5000 at A3 METRES</p>	<p>Client</p> <p>PROPOSALS FOR CONSULTATION</p>	<p>Project</p> <p>LOWER THAMES CROSSING STATUTORY CONSULTATION</p> <p>Drawing title</p> <p>GENERAL ARRANGEMENT PLAN SHEET 19</p>
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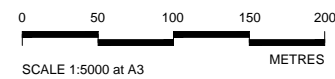
M25
LTC

Clay Tye Wood

North
Ockendon

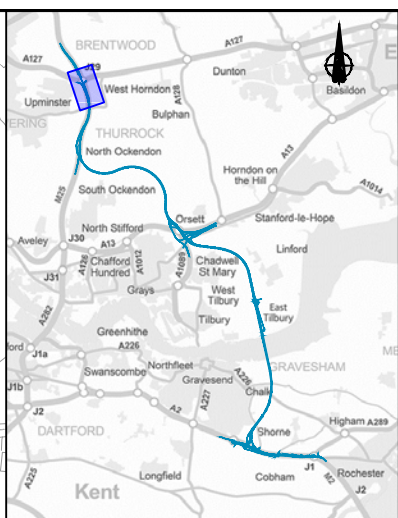
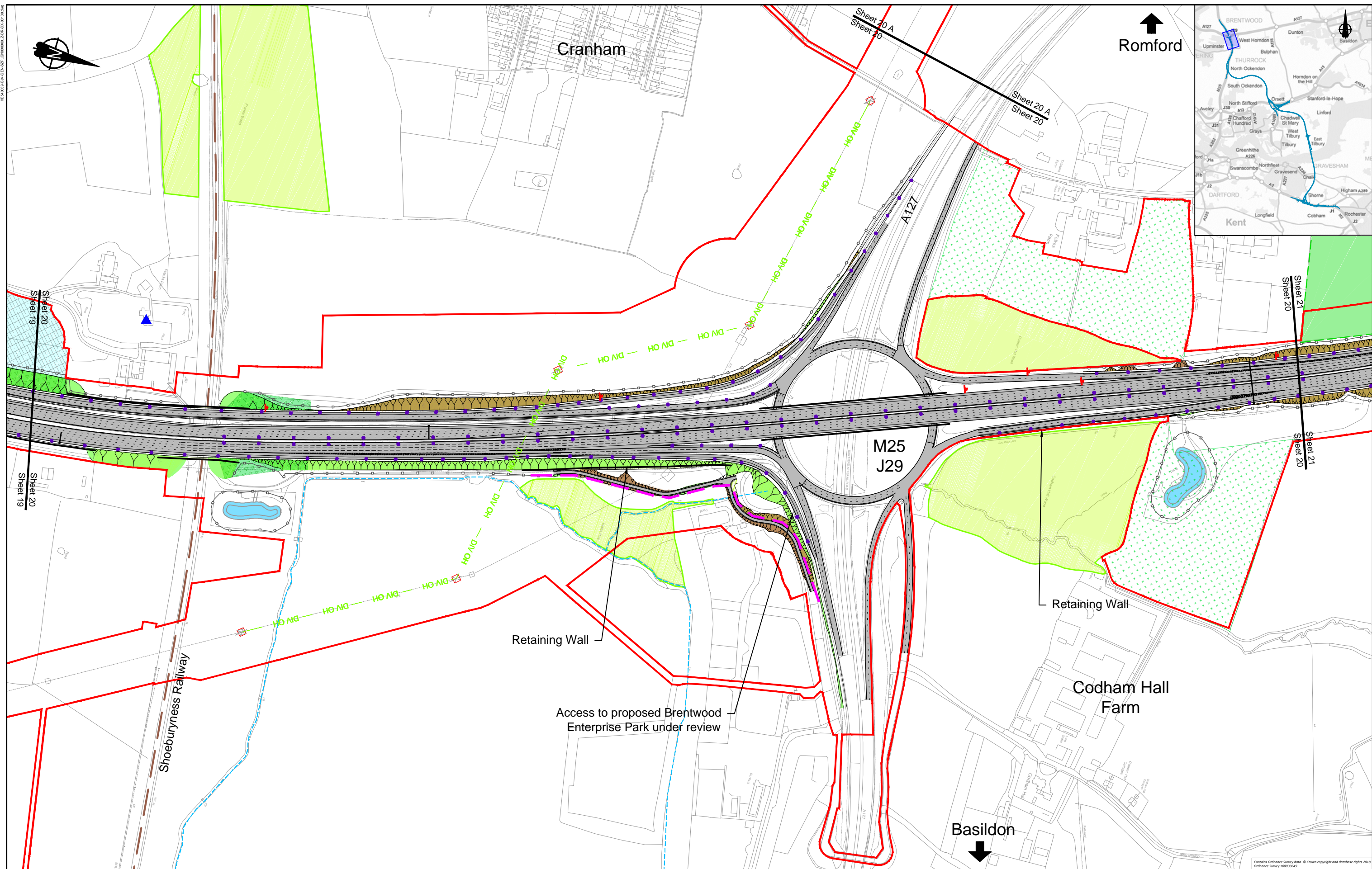
Overhead power
cables restrung

Upminster and Grays Branch railway



	Client	Project	LOWER THAMES CROSSING STATUTORY CONSULTATION
	PROPOSALS FOR CONSULTATION		Drawing title

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M540033/2/EN/027_000000_2/06/01/19/46

Sheet 19
Sheet 20

Sheet 20 A
Sheet 20

Sheet 20
Sheet 21

Shoeburyness Railway

Cranham

Romford

M25
J29

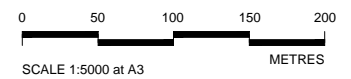
Basildon

Retaining Wall

Retaining Wall

Access to proposed Brentwood
Enterprise Park under review

Codham Hall
Farm



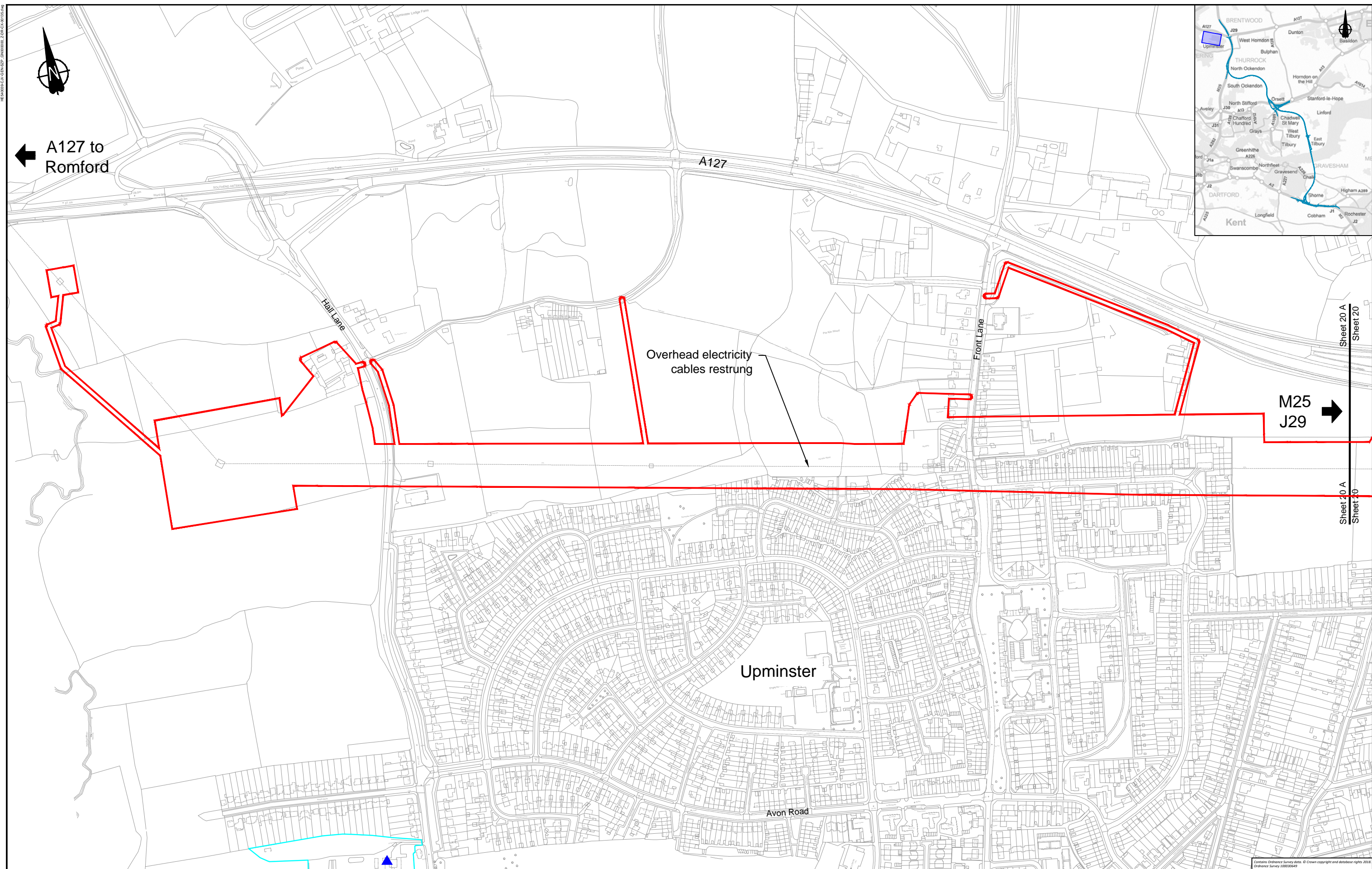
Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **GENERAL ARRANGEMENT PLAN SHEET 20**

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← A127 to Romford

Overhead electricity cables restrung

M25 J29 →

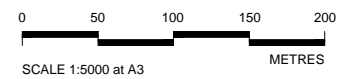
Upminster

Avon Road

Sheet 20 A
Sheet 20

Sheet 20 A
Sheet 20

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Client

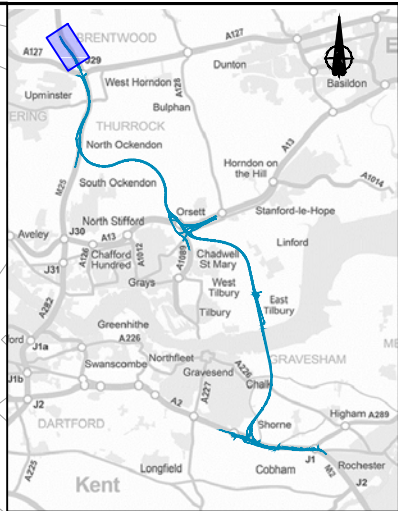
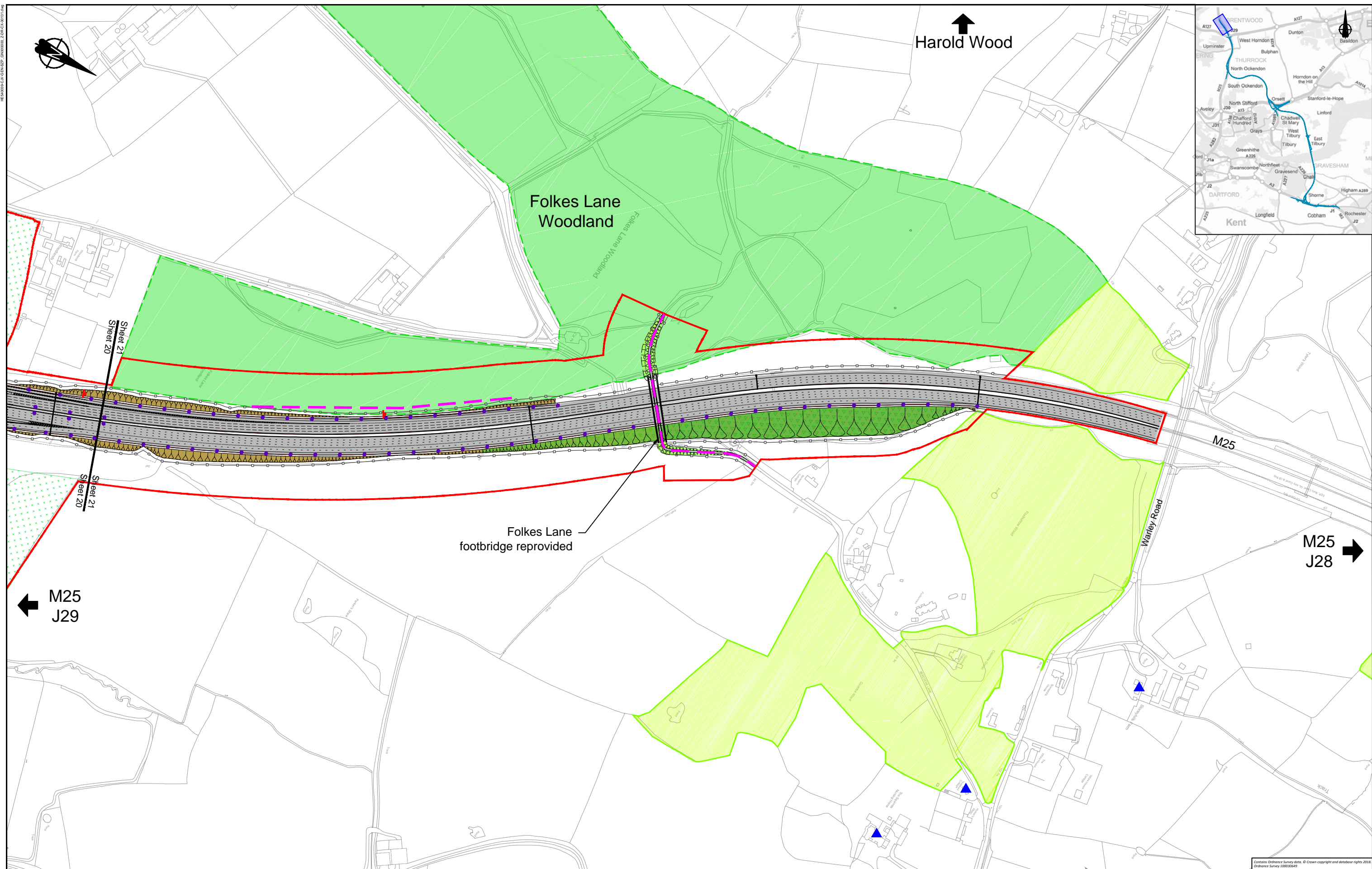
PROPOSALS FOR CONSULTATION

Project

LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title

GENERAL ARRANGEMENT PLAN SHEET 20a



↑
Harold Wood

Sheet 21
Sheet 20

Sheet 21
Sheet 20

Folkes Lane
footbridge reprovided

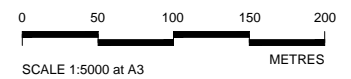
←
M25
J29


M25
J28 →

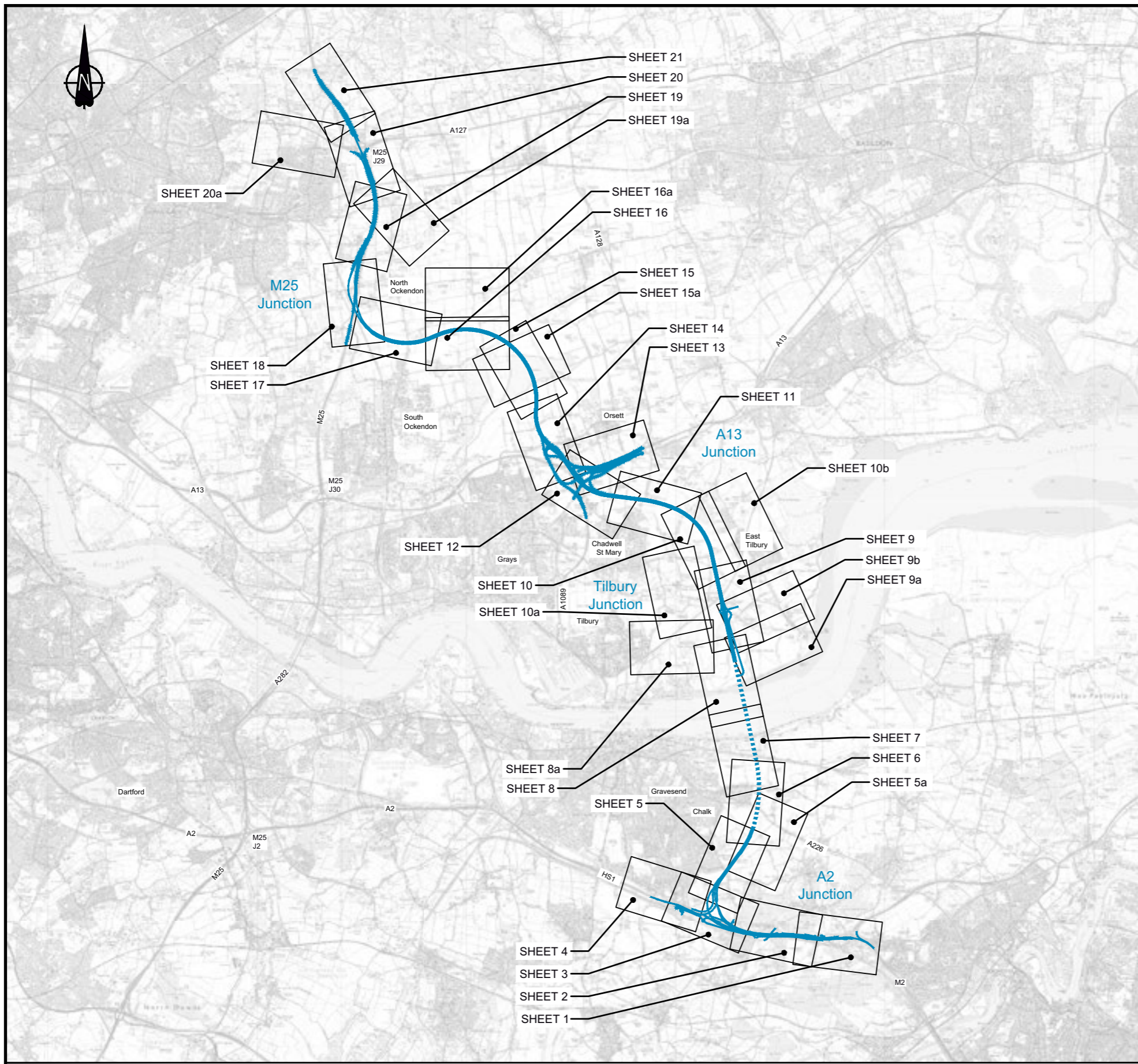
Warley Road

M25

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 PROPOSALS FOR CONSULTATION	Client Project LOWER THAMES CROSSING STATUTORY CONSULTATION
	Drawing title GENERAL ARRANGEMENT PLAN SHEET 21



ENGINEERING AND CONSTRUCTION

- New Carriageway
- Railway line
- Overbridge
- Underpass
- Traffic sign
- Gantry
- Lighting
- Fence
- Pond
- Flood Compensation Area
- Public Right of Way (PRoW)
- Tunnel
- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - Flood protection bund/false cutting
- Verge
- Retaining wall

UTILITIES

- DIV GAS Realigned Gas
- DIV OH Realigned Overhead cable
- Diver Diversion ties into existing

BOUNDARIES

- Development boundary

ENVIRONMENT

- Grade I listed building
- Grade II listed building
- Grade II* listed building
- Area of Outstanding Natural Beauty (AONB)
- Site of Special Scientific Interest (SSSI)
- Ancient Woodland
- Conservation Area
- Potential relocated Travellers site
- Scheduled monument
- Replacement Open Access Land
- Environmental improvement works
- Proposed woodland planting
- Proposed grassland planting
- Area returned to agriculture
- Potential receptor site for ancient woodland compensation
- Potential receptor site for translocation of protected species
- Potential receptor site for excavated material/landscape enhancement
- Community Forest
- River Thames RMCZ (Recommended Marine Conservation Zone)
- Watercourse
- Watercourse diversion

LEGEND:
 LTC route above ground
 LTC route in tunnel

Not to scale

Client

PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing title **GENERAL ARRANGEMENT KEY PLAN AND LEGEND**

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