

Lower Thames Crossing
Map Book 1: General Arrangements

Lower Thames Crossing map books

The three map books for the community impacts consultation contain plans of our proposals, under the following headings:

- Map book 1: General Arrangements (layout plans)
- Map book 2: Land Use Plans
- Map book 3: Engineering Plans

The orientation of Map Books 1 and 2 has been updated to enable all drawings to have a north up orientation.

These plans also show the changes we have made since our design refinement consultation last year and are published for the purposes of this consultation. Following this consultation, we will consider the feedback received and use that to inform our Development Consent Order (DCO) application, which we plan to submit to the Planning Inspectorate later this year.

The plans run from the A2 in the south to the M25 in the north. Identically numbered sheets in the Map Books 1 and 2 show the same area. For example sheet 3 shows the A2/LTC junction in Map Books 1 and 2.

Map Book 1: General Arrangements

The General Arrangements show the proposed layout of the project, including:

- Permanent works; new roads, earthworks and roadside features
- Construction compounds
- Environment mitigation; landscaping and tree planting
- Utilities diversions
- Order Limits (previously known as the development boundary)
- Open space and replacement land

NB: The key plans show the relative location of each drawing sheet within the map book and the area they cover. On sheets where there is no information on the key plans, this represents drawings where works are being carried out away from the main route alignment.

Map Book 2: Land Use Plans

The land use plans show the areas of land we are seeking powers to compulsorily acquire or to acquire rights on, under or over. They also show the land we require temporary powers to use, to construct and operate the project. Areas we may need to purchase interests or rights over include the land required for the permanent works, temporary works, compensation land and replacement land.

Permanent works

Compulsory purchase of land or compulsory acquisition of rights will be required for the route of the road, to re-connect local roads and for associated structures like drainage ponds and the tunnel control building. In some land parcels, only the acquisition of subsoil will be required. For example, the construction of the tunnel beneath the River Thames.

Temporary works

Temporary use of land is needed for the project's construction works and to provide sufficient space to do so safely. The land use 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 permanent and temporary rights over land to divert utilities such as gas pipelines, electricity cables and water pipes.

Compensation land

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

Replacement land

Land is also included in respect of the replacement of special category land such as open space, or common land which is being compulsorily acquired or in respect of which permanent rights are sought.

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 (level above or below existing ground). 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 Above Ordnance Datum level** the profile reference level 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 taken from a reference point at Newlyn in Cornwall.

Large maps

Large maps that cover a greater area have also been produced, which detail the following:

- Environmental constraints – 1 sheet
- Land use – 6 sheets
- Operation (General Arrangements – 6 sheets larger coverage)
- Construction (Compounds and Access - 6 sheets)
- General Arrangement (full route) – 1 sheet
- Aerial view of the proposed LTC route – 1 sheet

Main works access routes shown on these maps represent a snapshot in time. They will evolve in line with the surrounding works.

HIGHWAYS ENGLAND - 20190107_20200107



ENGINEERING AND CONSTRUCTION

- New Carriageway
- Railway line
- Overbridge
- Underpass
- Culvert
- Traffic sign
- Gantry
- Lighting
- Pond
- Footpath, Cycleway or Bridleway route
- Tunnel
- Earthworks - Cutting
- Earthworks - Embankment
- Earthworks - Flood protection bund/false cutting
- Verge
- Retaining wall
- Maintenance access
- Ground protection tunnel
- Green Roof for Tunnel Buildings
- UTILITIES**
- Underground multiutility alignment
- Realigned Gas
- Realigned or modified overhead cable
- Maximum length of OHL to be removed
- Diversion ties into existing Gas Compound or Electricity substation

EXISTING ENVIRONMENTAL FEATURES

- 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
- Scheduled monument
- Community Forest
- Watercourse

PROPOSED ENVIRONMENTAL MITIGATION

- Open space provision, replacement open space and replacement common land
- Proposed woodland planting
- Proposed woodland planting
- Proposed grassland planting
- Potential receptor site for ancient woodland compensation
- Potential receptor site for translocation of protected species
- Ecology protection measures
- Flood Compensation Area
- Hedgerow
- Watercourse diversion

BOUNDARIES

- Order Limits
- Registered park or garden
- Relocated Travellers site

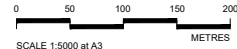
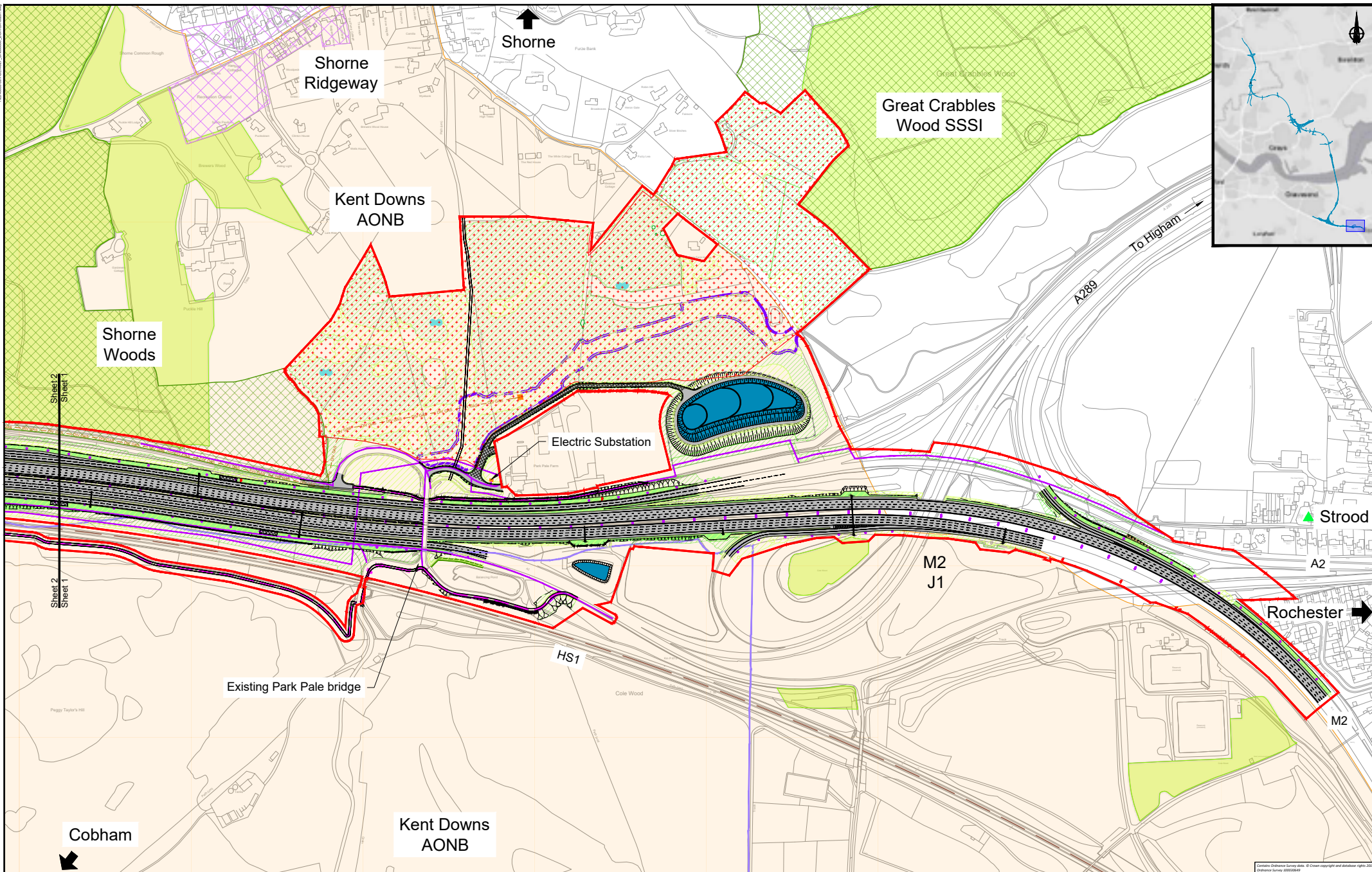
LEGEND:
 Lower Thames Crossing
 Lower Thames Crossing in tunnel

Client

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Project LOWER THAMES CROSSING
 COMMUNITY IMPACTS CONSULTATION

Drawing title
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 KEY PLAN AND LEGEND**

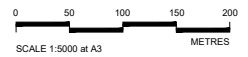
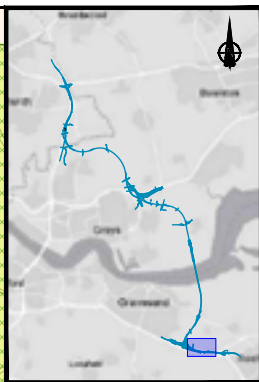
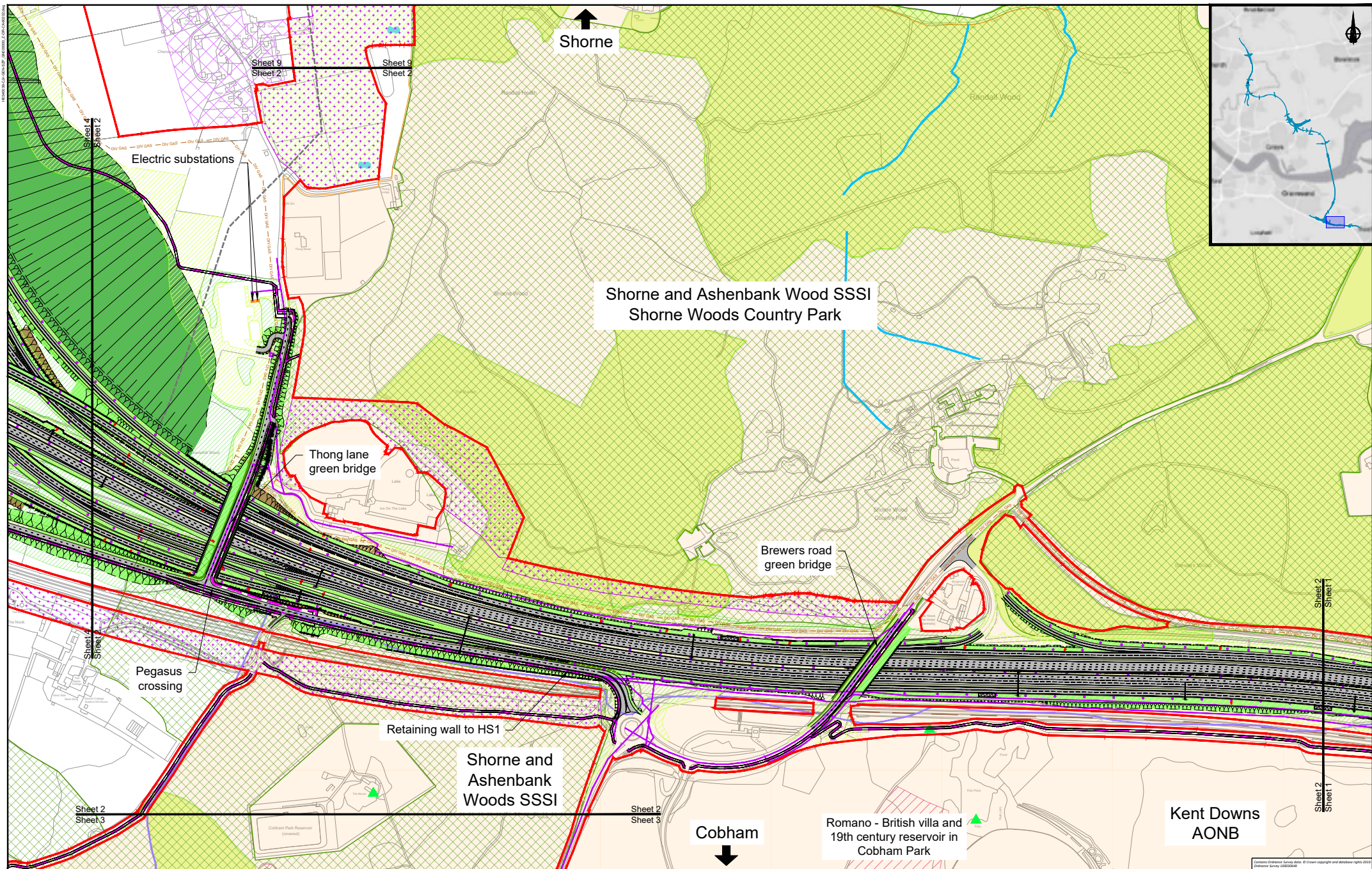


Client
highways england

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COMMUNITY IMPACTS CONSULTATION
Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 1

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Project **LOWER THAMES CROSSING COMMUNITY IMPACTS CONSULTATION**

Drawing title **GENERAL ARRANGEMENT PLAN SHEET 2**

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Sheet 4
Sheet 3

Sheet 4
Sheet 3

Sheet 2
Sheet 3

Sheet 2
Sheet 3

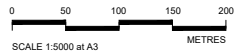
Shorne and
Ashenbank
Woods SSSI

Halfpence Lane

Cobham

Cobham

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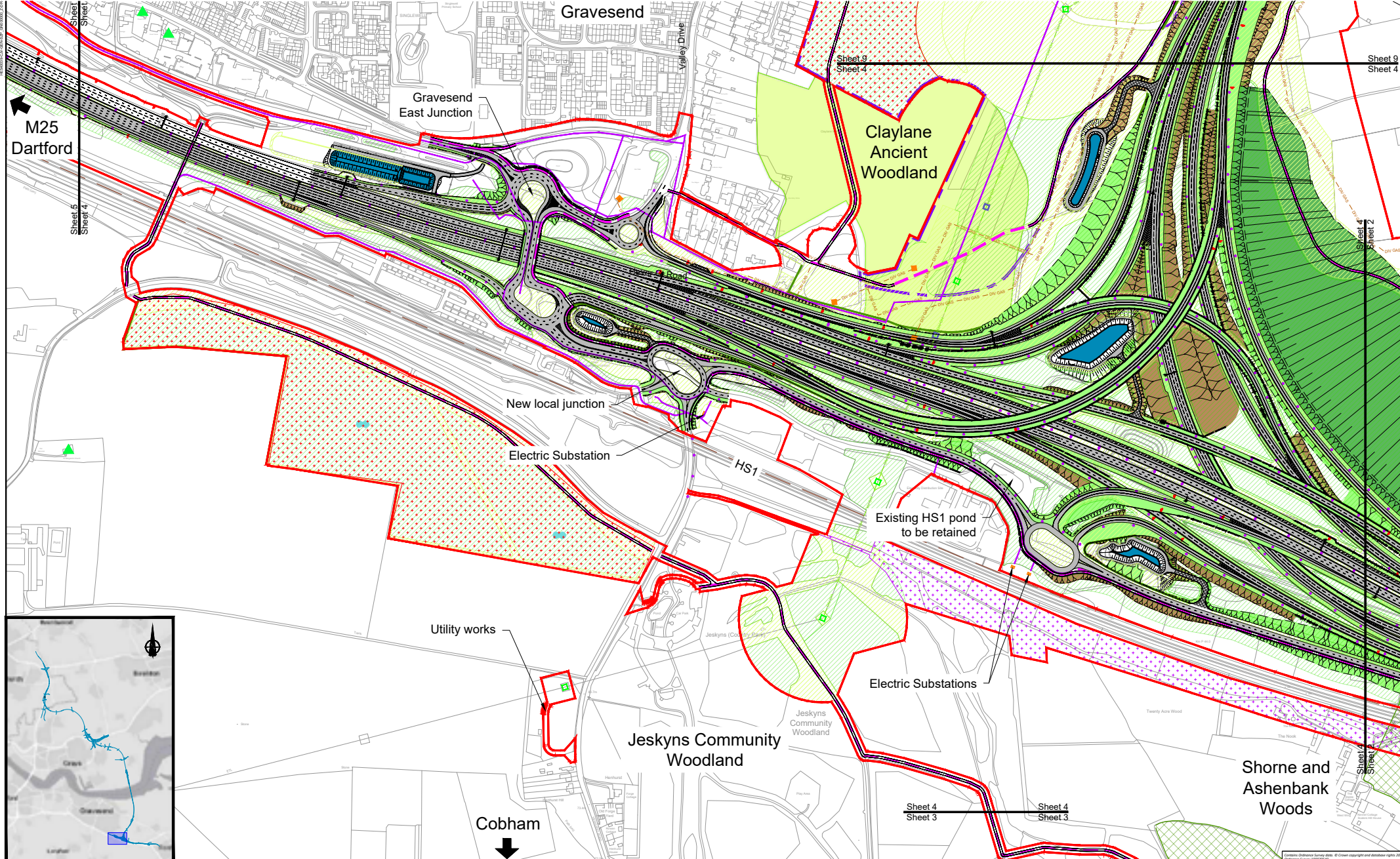


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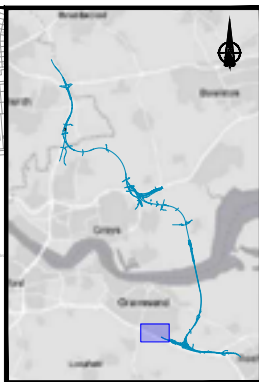
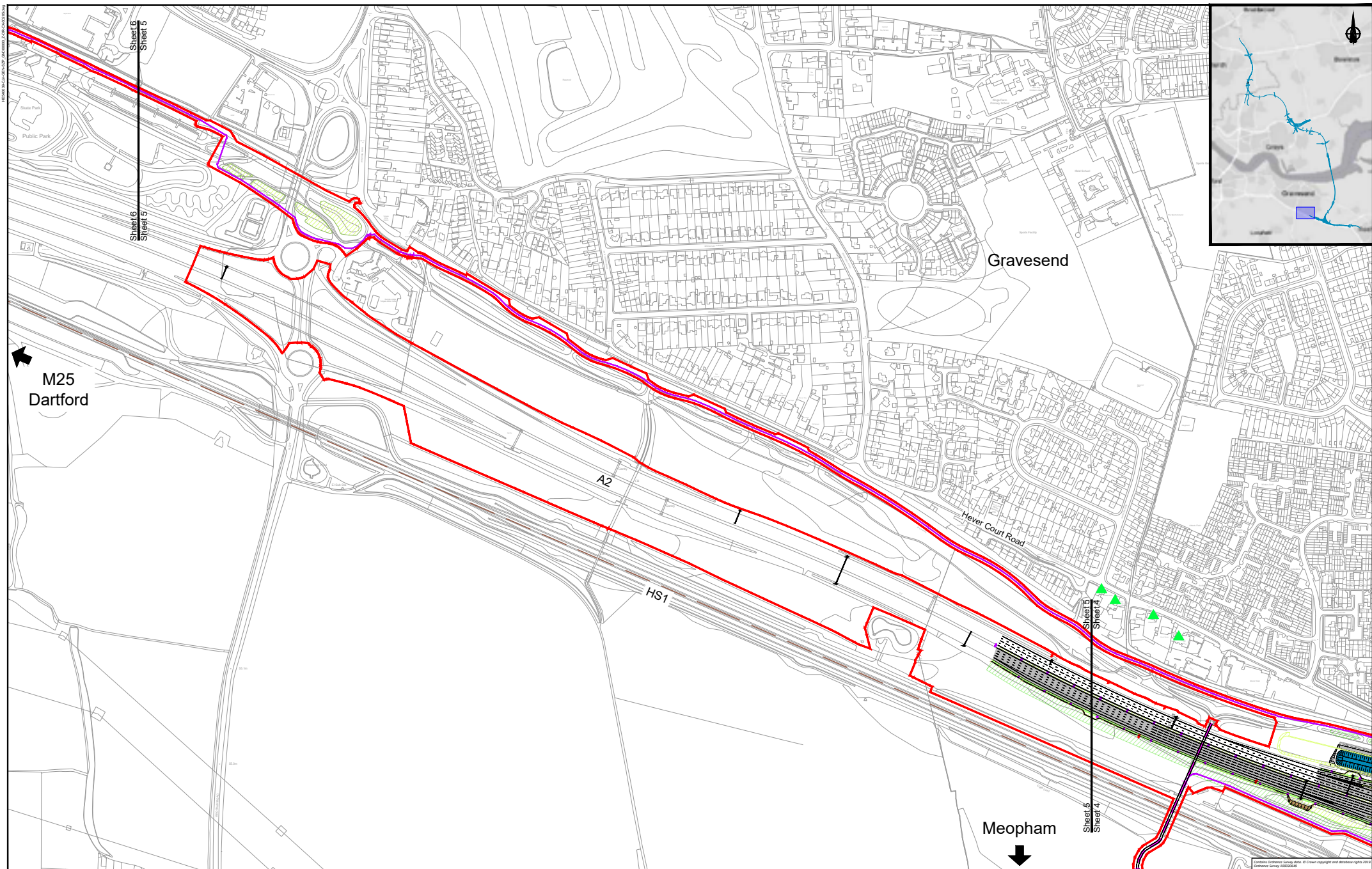
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Drawing title
**GENERAL ARRANGEMENT PLAN
SHEET 3**



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	Drawing title GENERAL ARRANGEMENT PLAN SHEET 4



M25
Dartford

Gravesend

A2

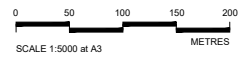
HS1

Hever Court Road

Meopham

Sheet 6
Sheet 5

Sheet 5
Sheet 4

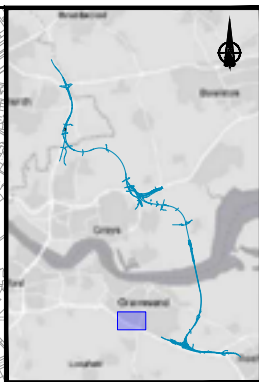
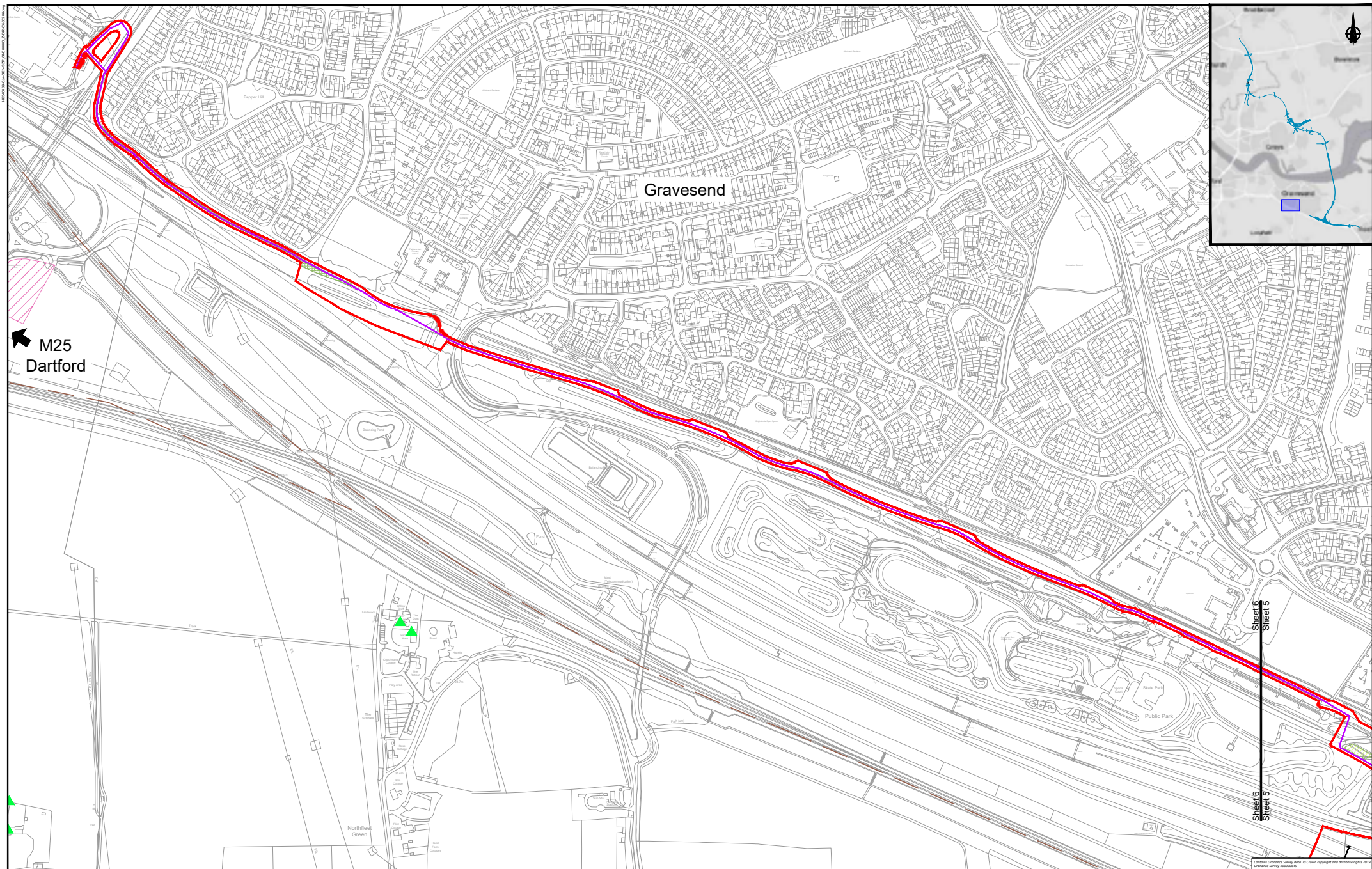


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GENERAL ARRANGEMENT PLAN
SHEET 5

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← M25
Dartford

Gravesend

Sheet 6
Sheet 5

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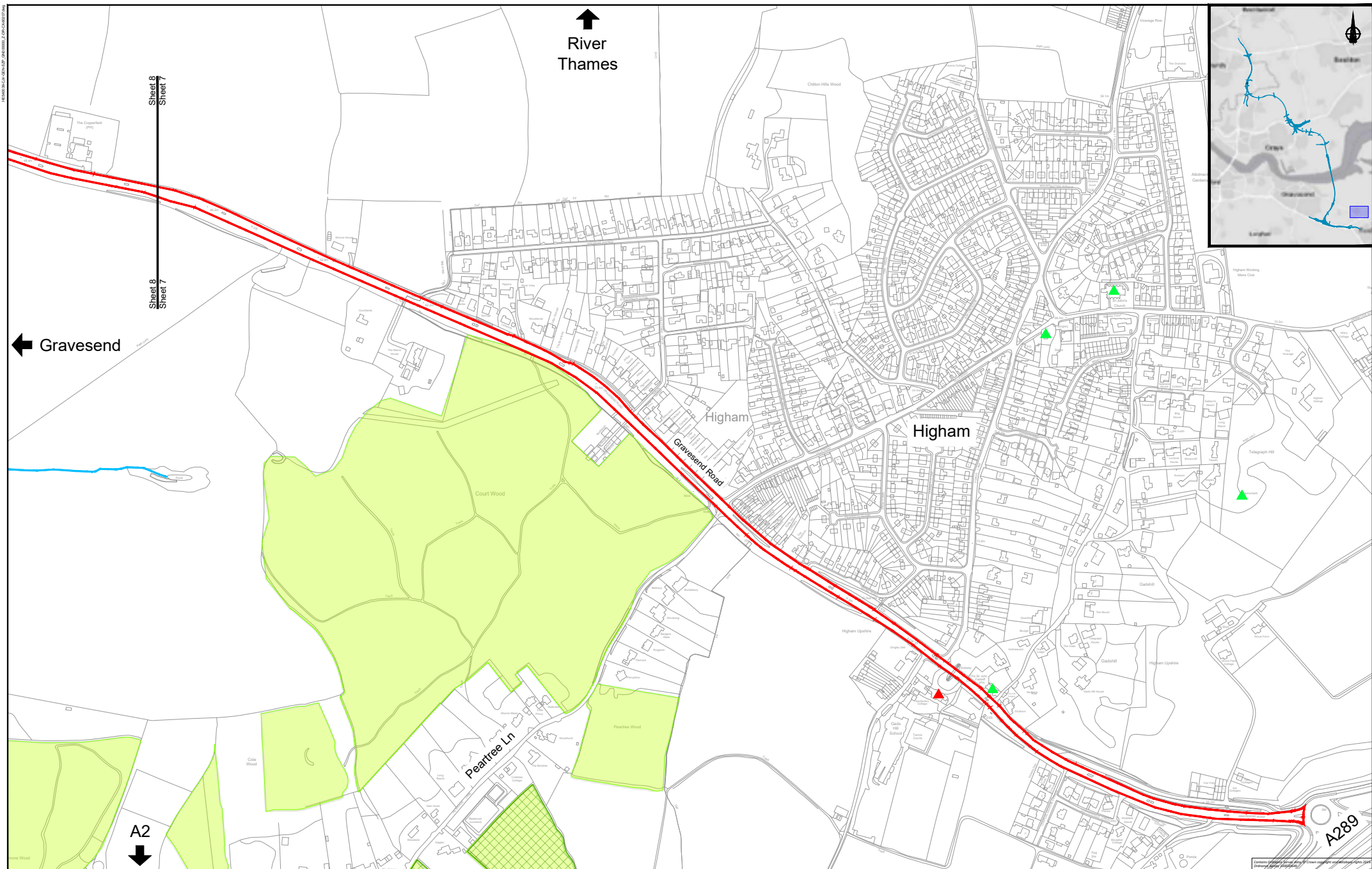
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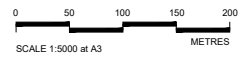


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COMMUNITY IMPACTS CONSULTATION
Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 6



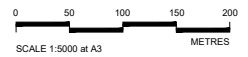
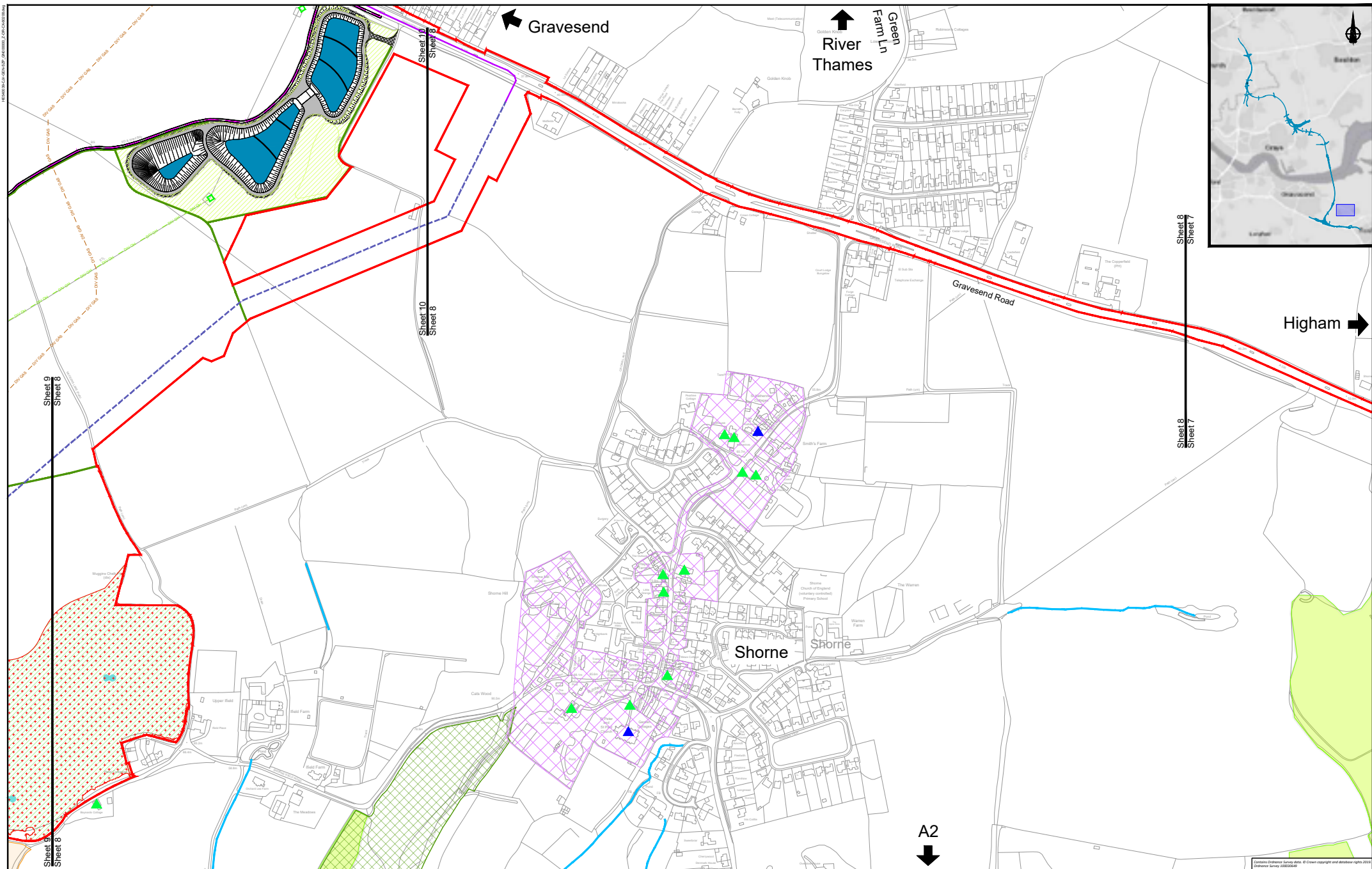
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COMMUNITY IMPACTS CONSULTATION
Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 7



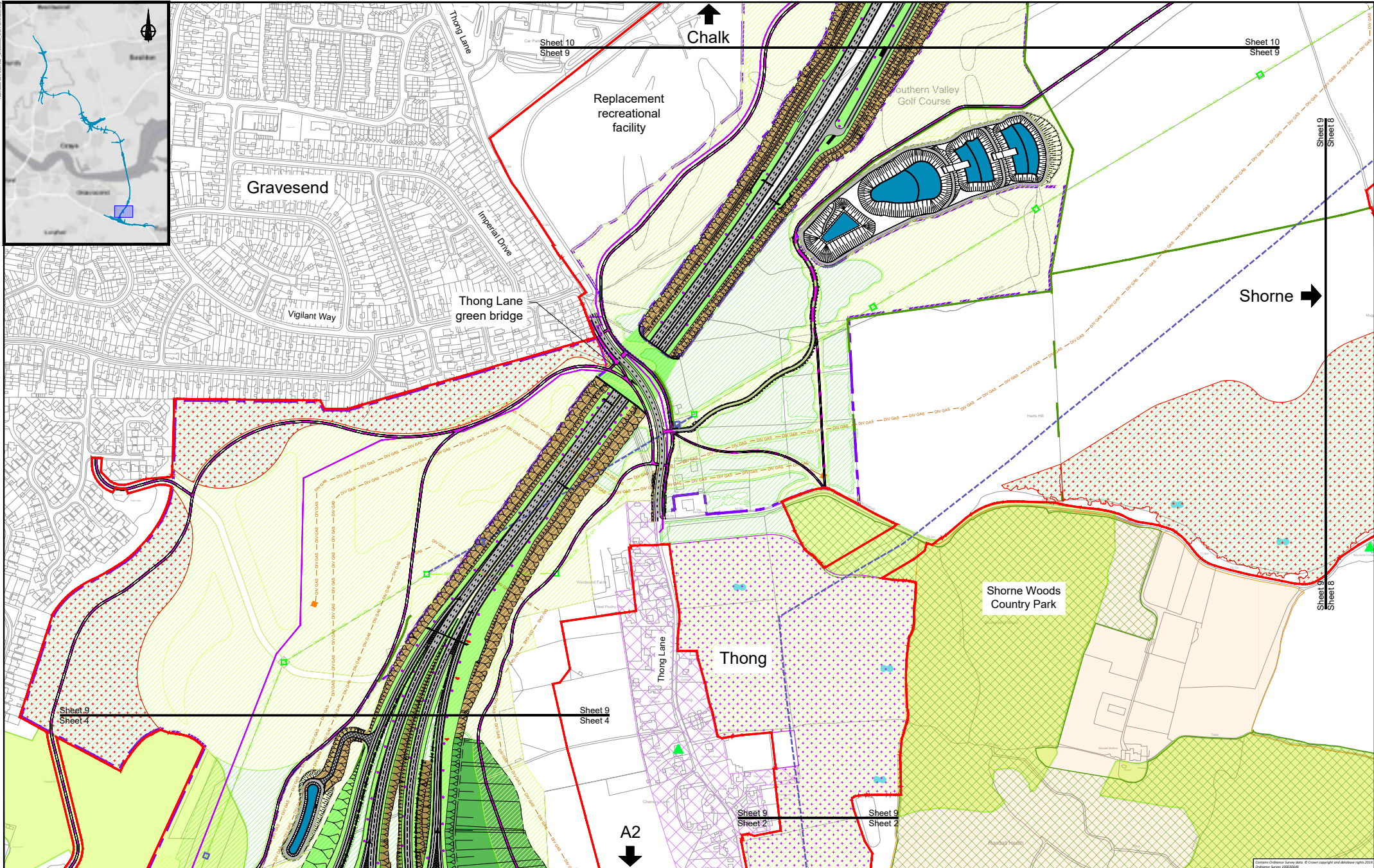
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SHEET 8

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Gravesend

Replacement recreational facility

Southern Valley Golf Course

Thong Lane green bridge

Shorne

Shorne Woods Country Park

Thong

A2

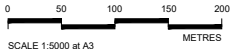
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Sheet 4

Sheet 9
Sheet 2

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Sheet 2

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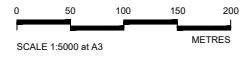
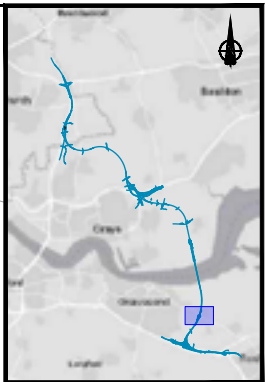
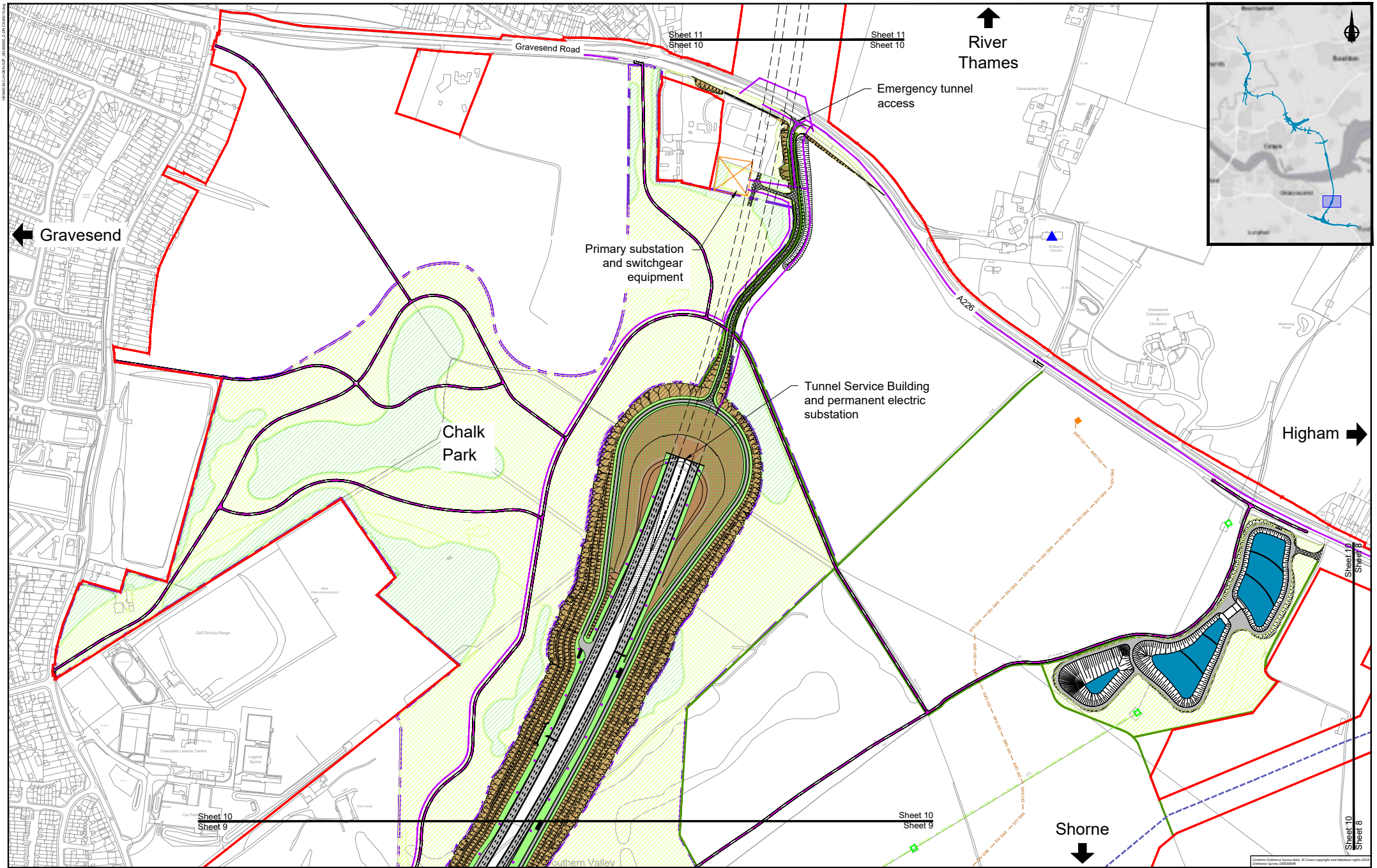
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SHEET 9**



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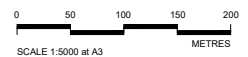
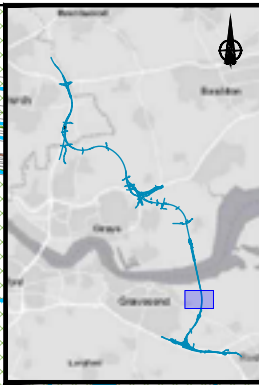
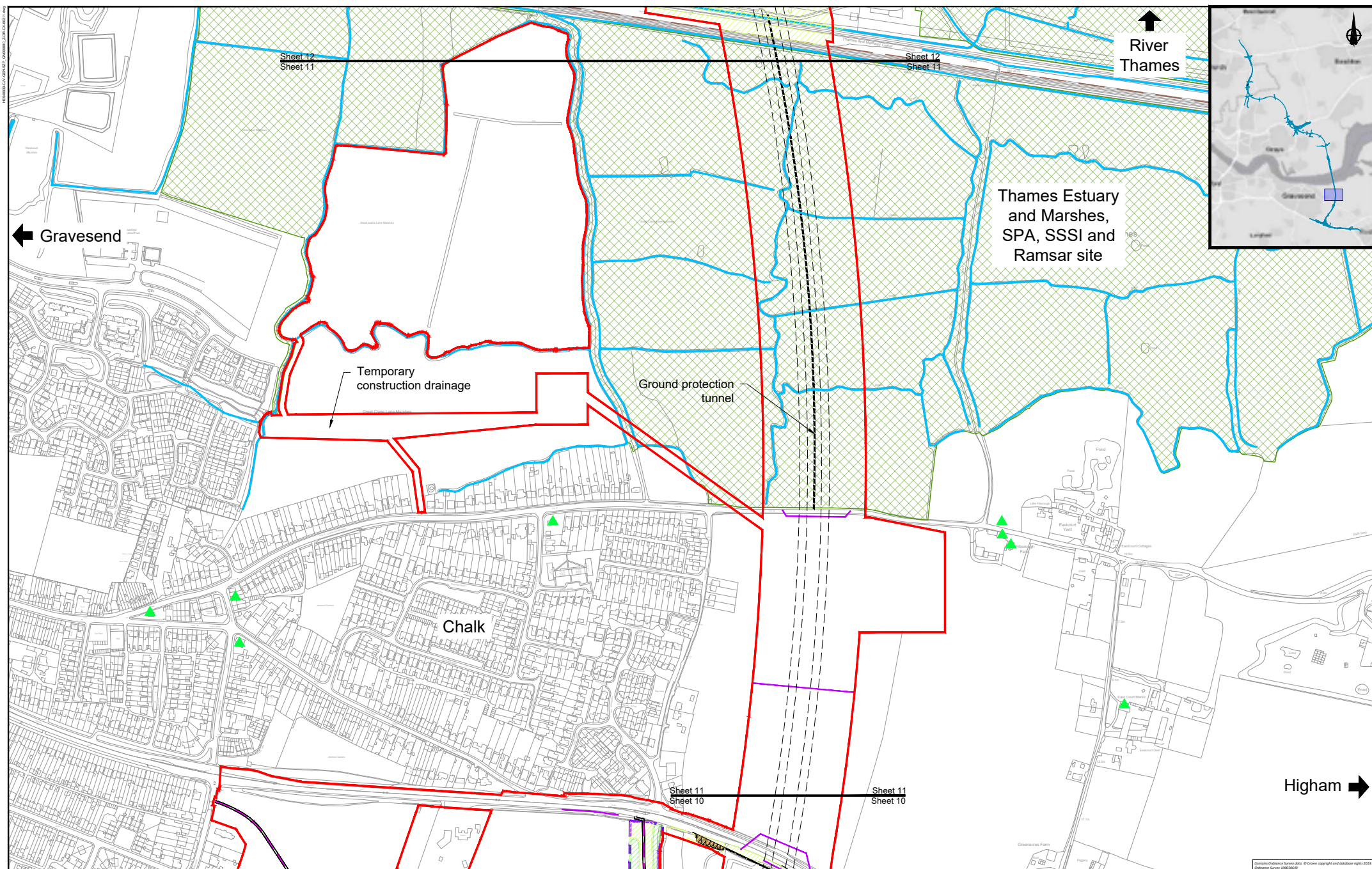
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SHEET 10

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Sheet 10 Sheet 8



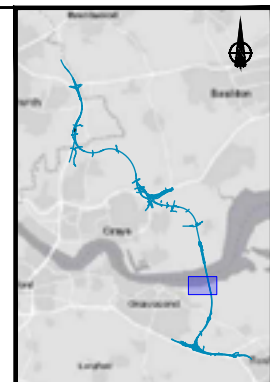
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**GENERAL ARRANGEMENT PLAN
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Sheet 12

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River Thames

Tunnel

Temporary construction drainage outfall

Thames Estuary and Marshes, SPA, SSSI and Ramsar site

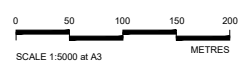
North Kent Railway and Thames Medway Canal

Ground Protection Tunnel

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Sheet 11

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Sheet 13

← Gravesend



Client

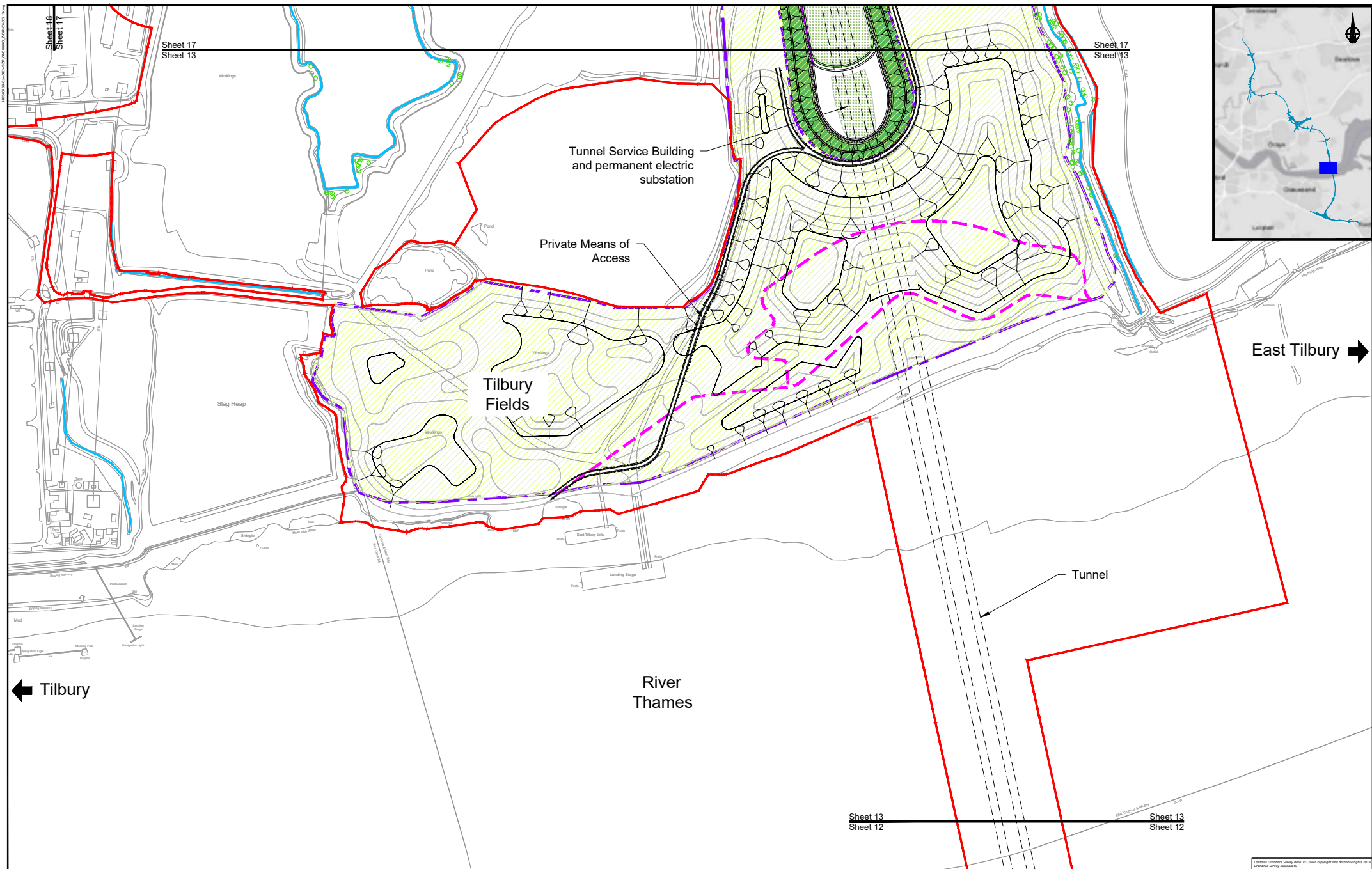


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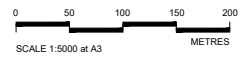


East Tilbury →

← Tilbury

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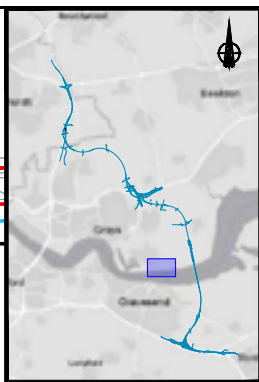
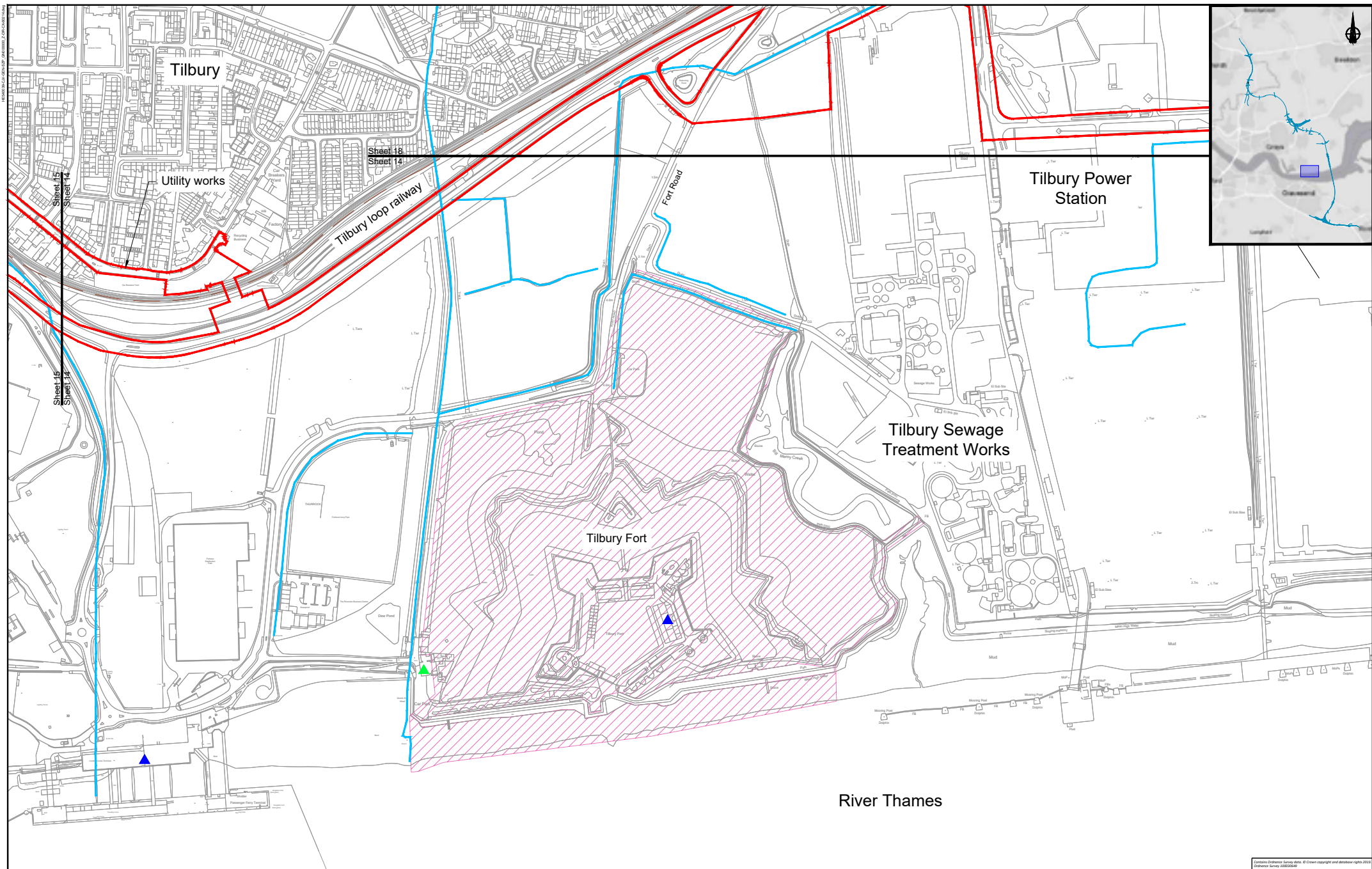
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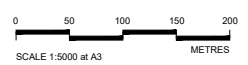
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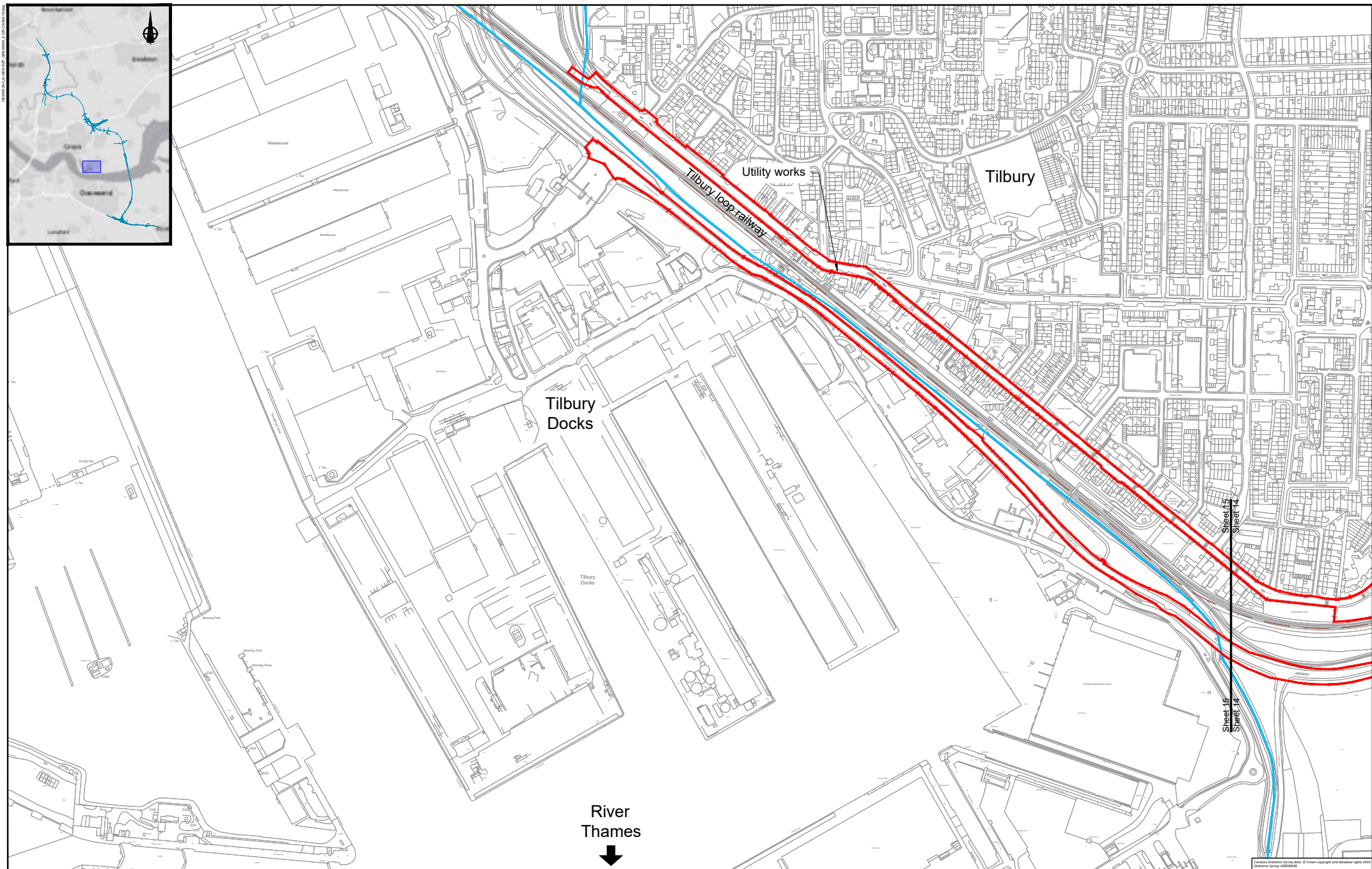
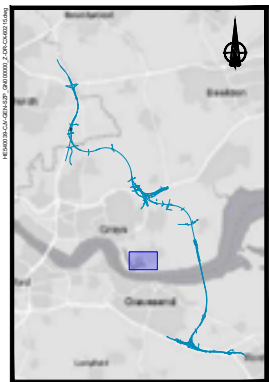
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Project

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COMMUNITY IMPACTS CONSULTATION**

Drawing title

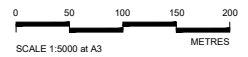
**GENERAL ARRANGEMENT PLAN
SHEET 14**



River Thames
↓

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Sheet 14

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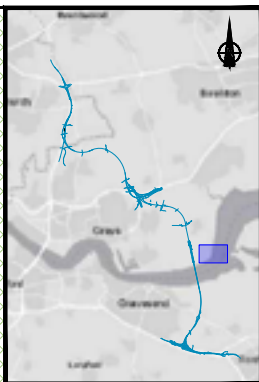
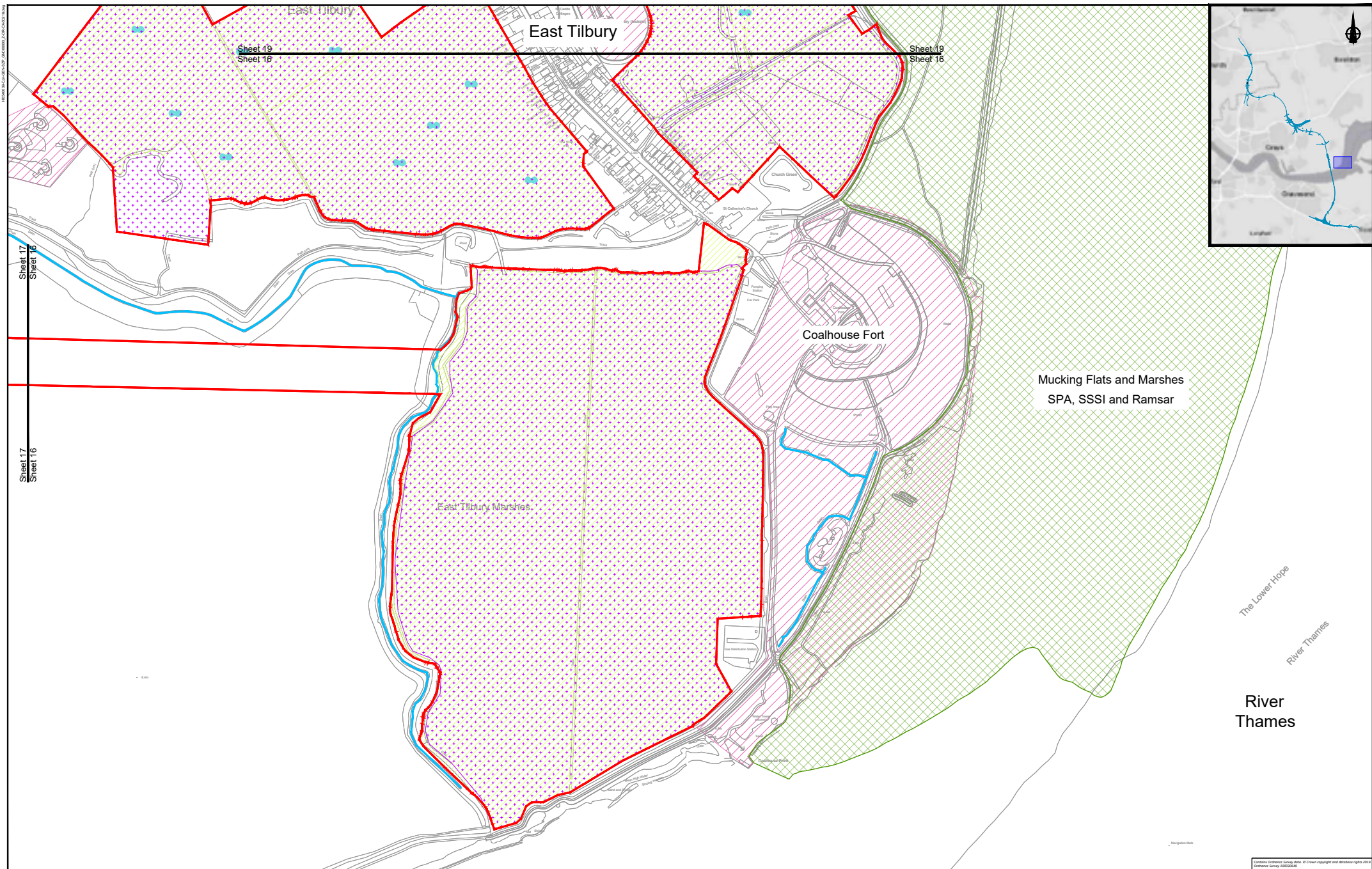


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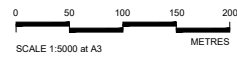
East Tilbury Marshes

Coalhouse Fort

Mucking Flats and Marshes
SPA, SSSI and Ramsar

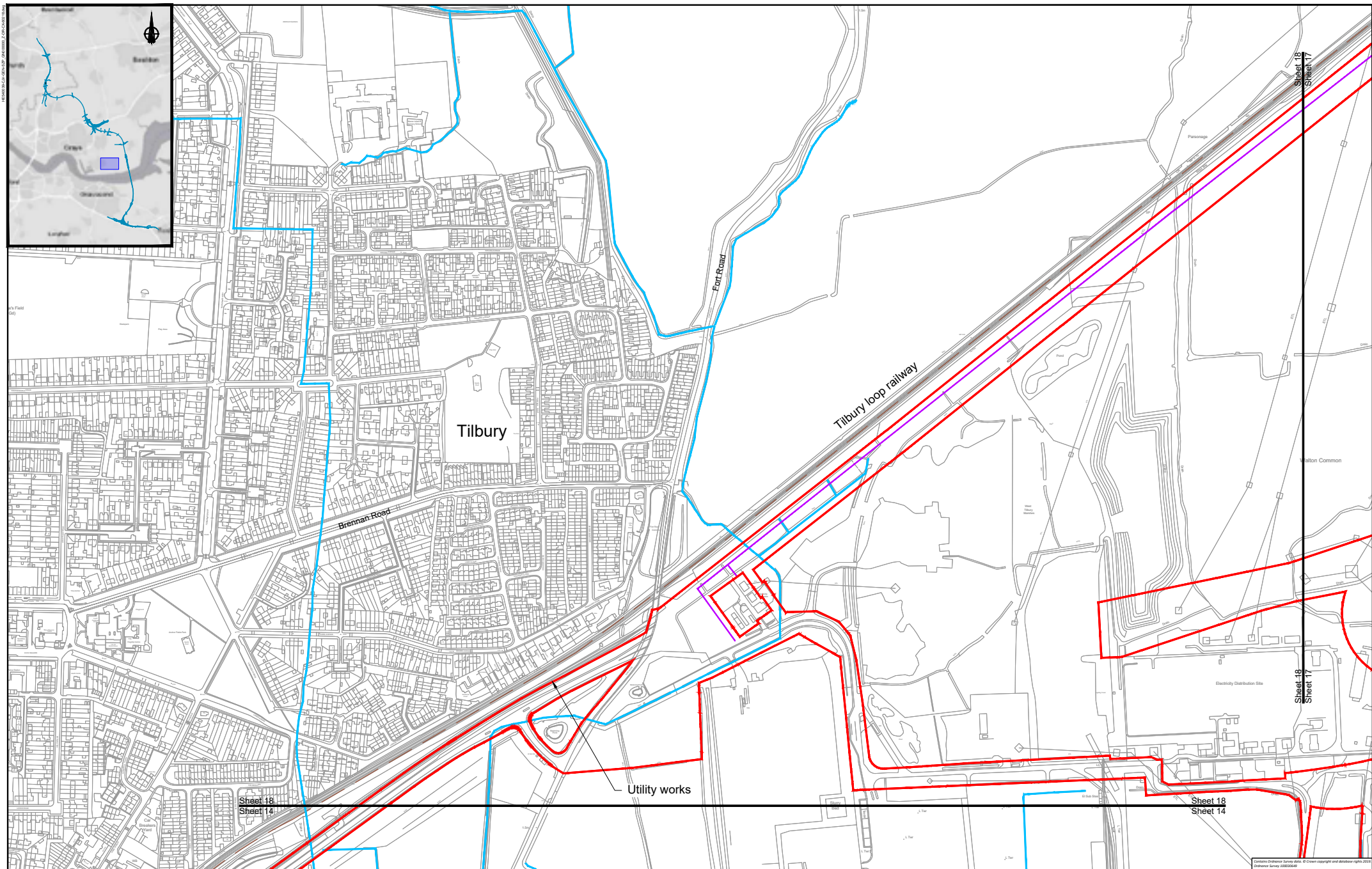
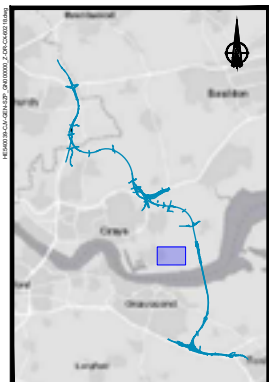
The Lower Hope
River Thames
River Thames

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highways england
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**GENERAL ARRANGEMENT PLAN
SHEET 16**

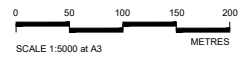


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Utility works

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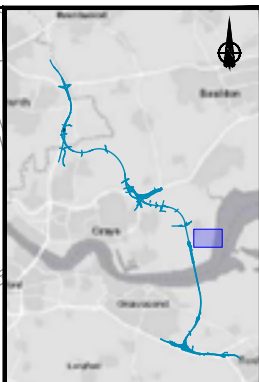
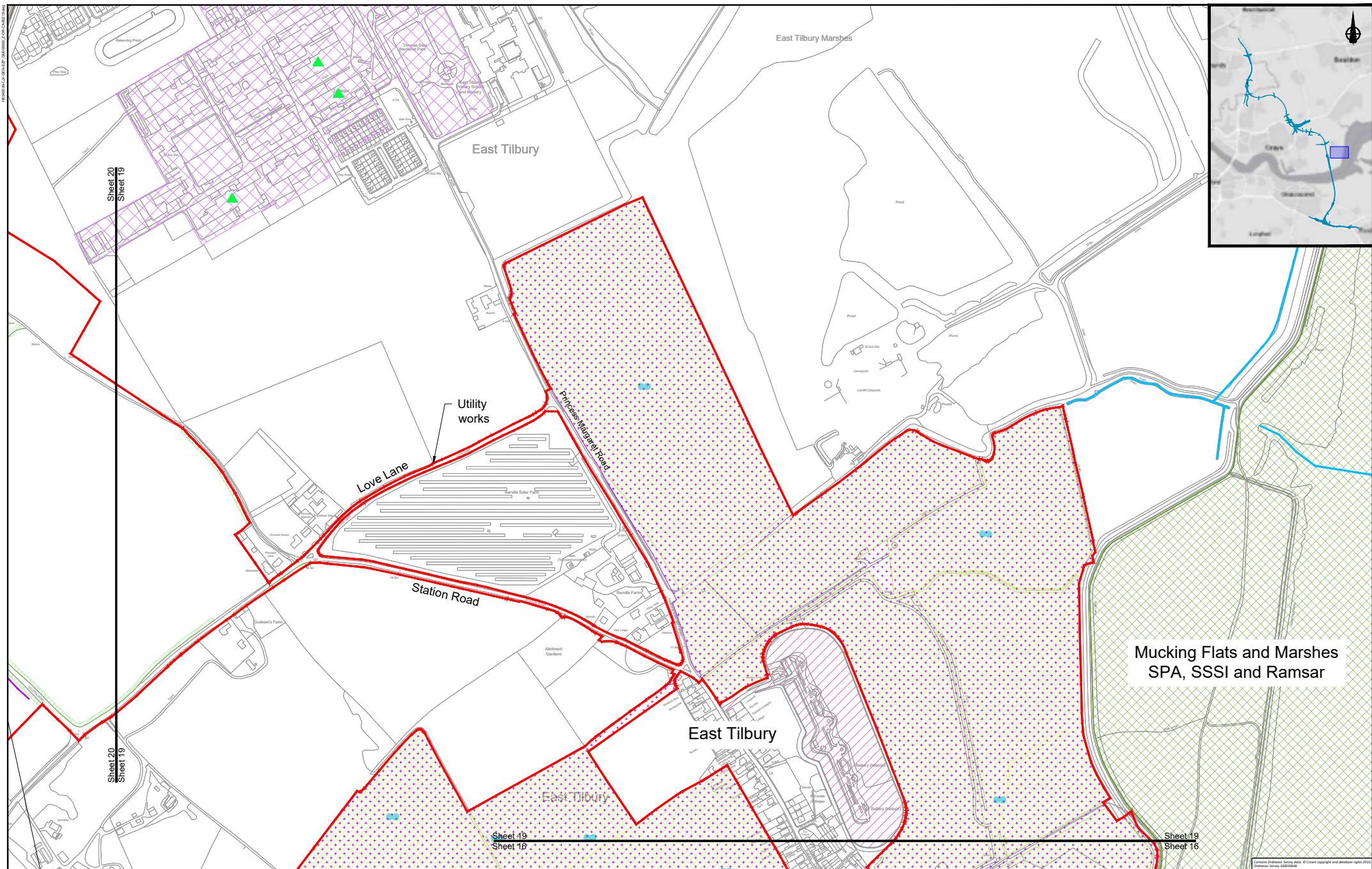


PROPOSALS FOR CONSULTATION

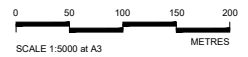
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Drawing title GENERAL ARRANGEMENT PLAN
SHEET 18

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Mucking Flats and Marshes
SPA, SSSI and Ramsar



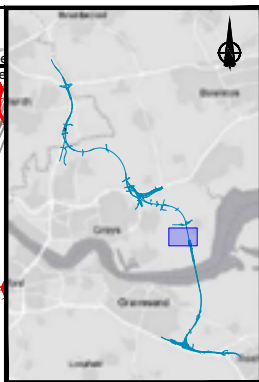
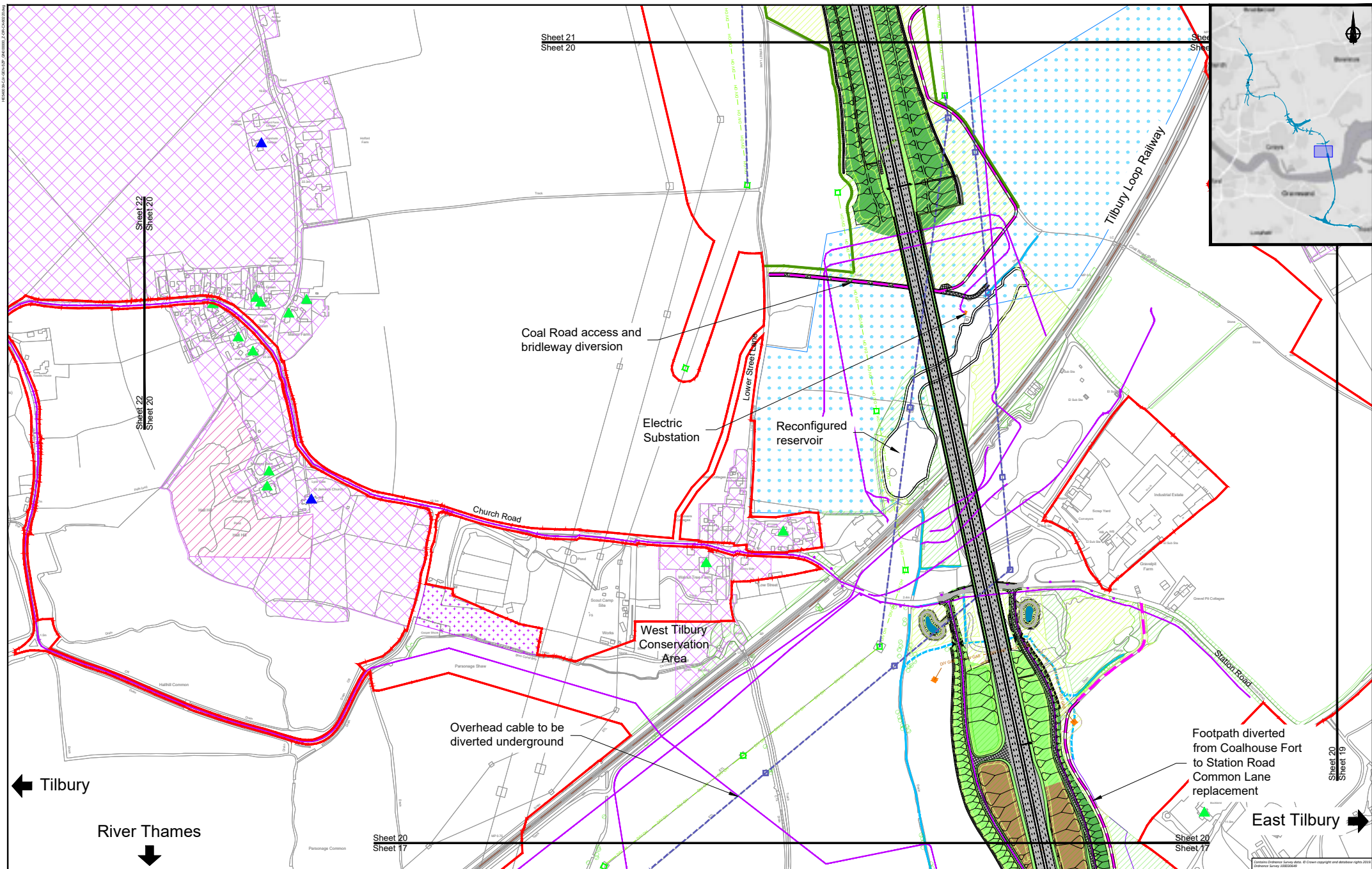
PROPOSALS FOR
CONSULTATION

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Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 19

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← Tilbury

River Thames
↓

East Tilbury →

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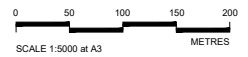
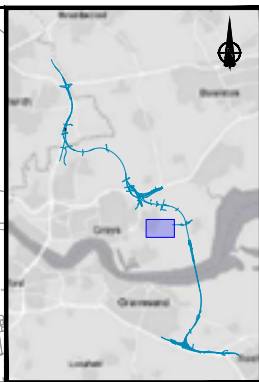
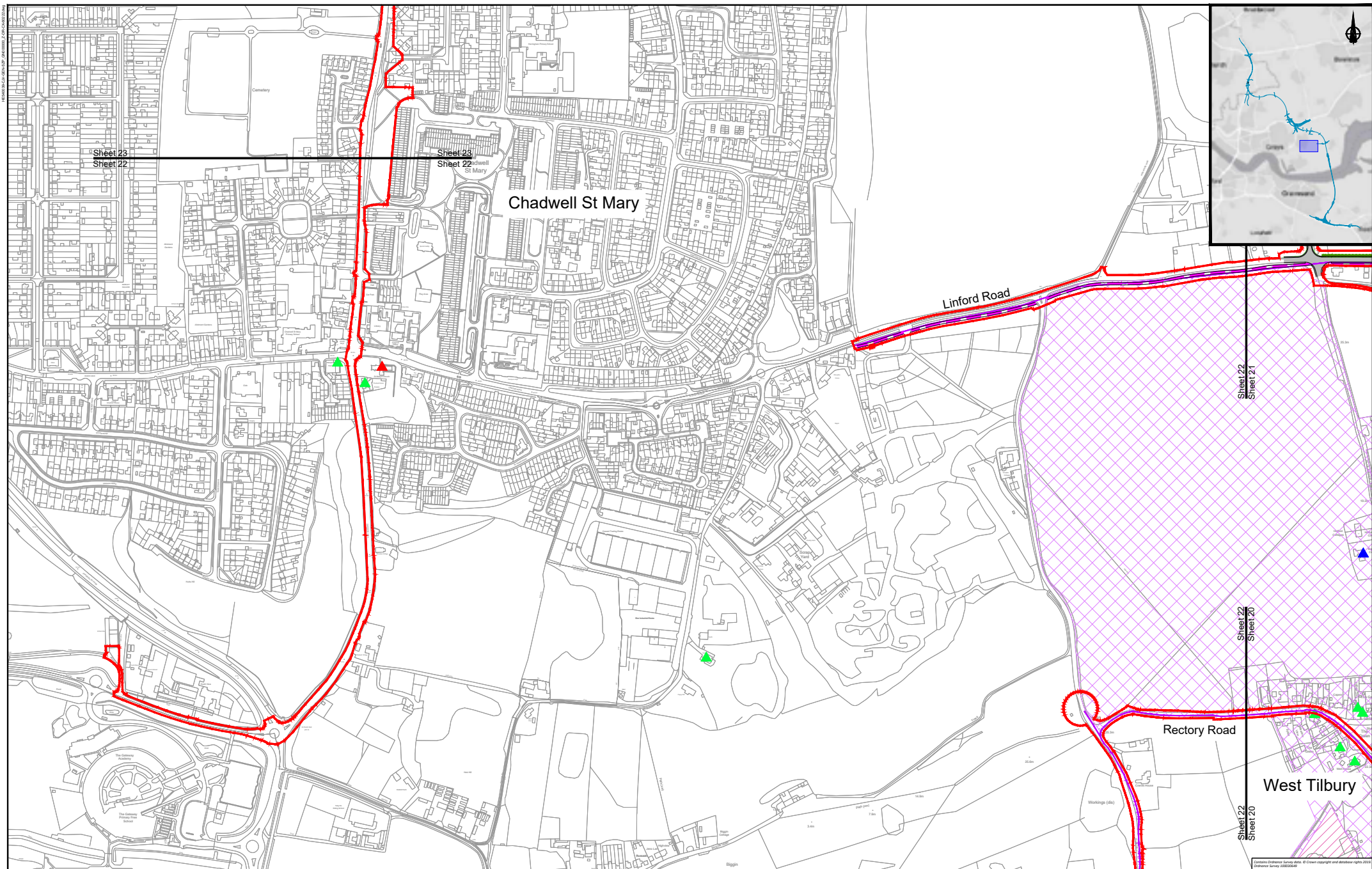
highways
england

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Drawing title GENERAL ARRANGEMENT PLAN
SHEET 20

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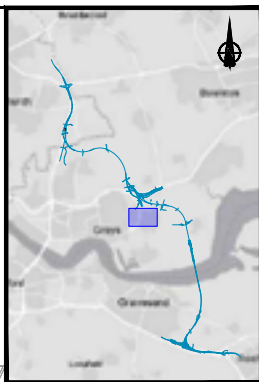
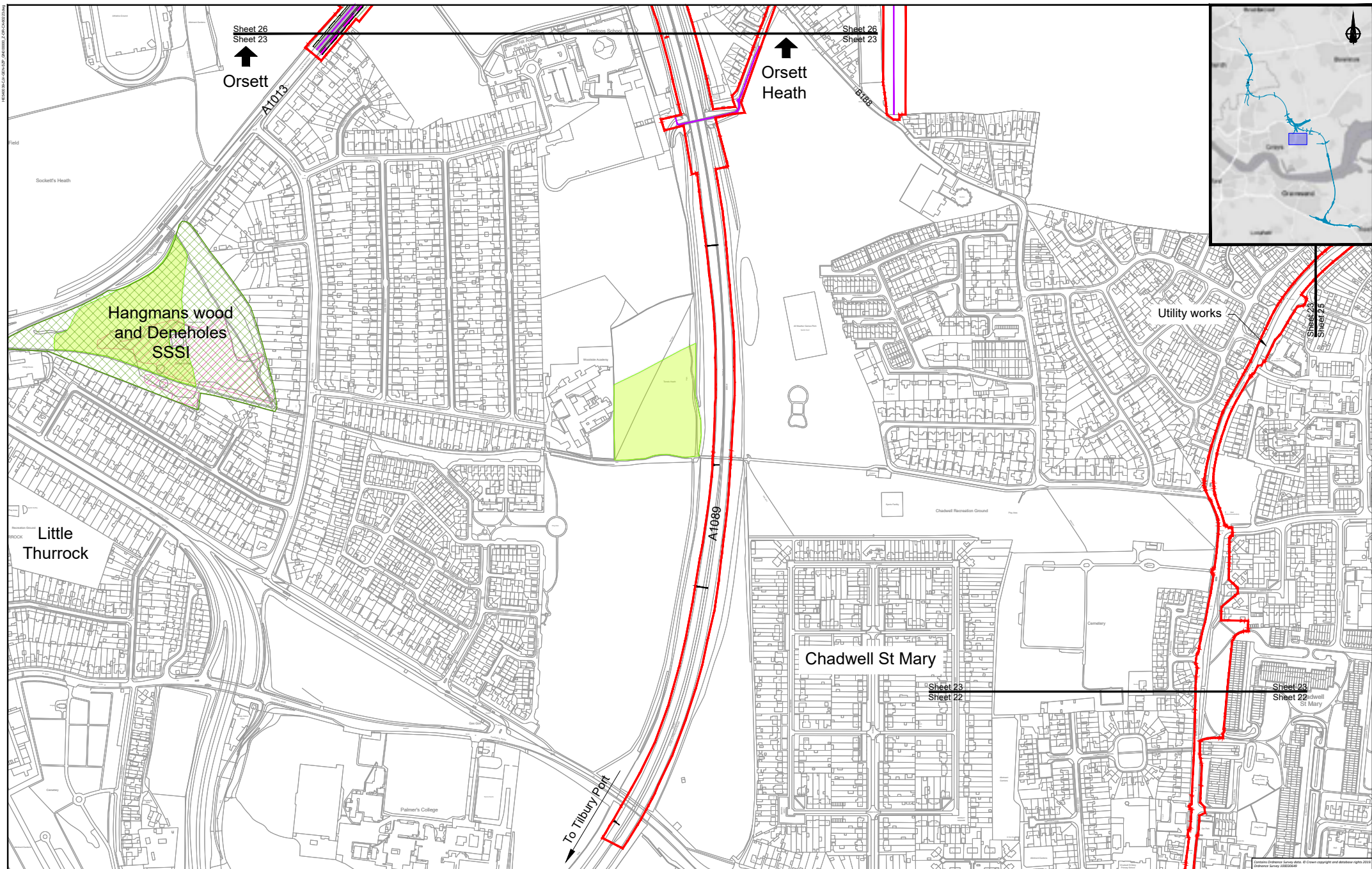
PROPOSALS FOR CONSULTATION

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Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 22

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Sheet 26
Sheet 23
↑
Orsett

Sheet 26
Sheet 23
↑
Orsett Heath

Hangmans wood and Deneholes SSSI

Little Thurrock

Chadwell St Mary

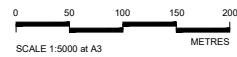
Utility works

To Tilbury Port
↓

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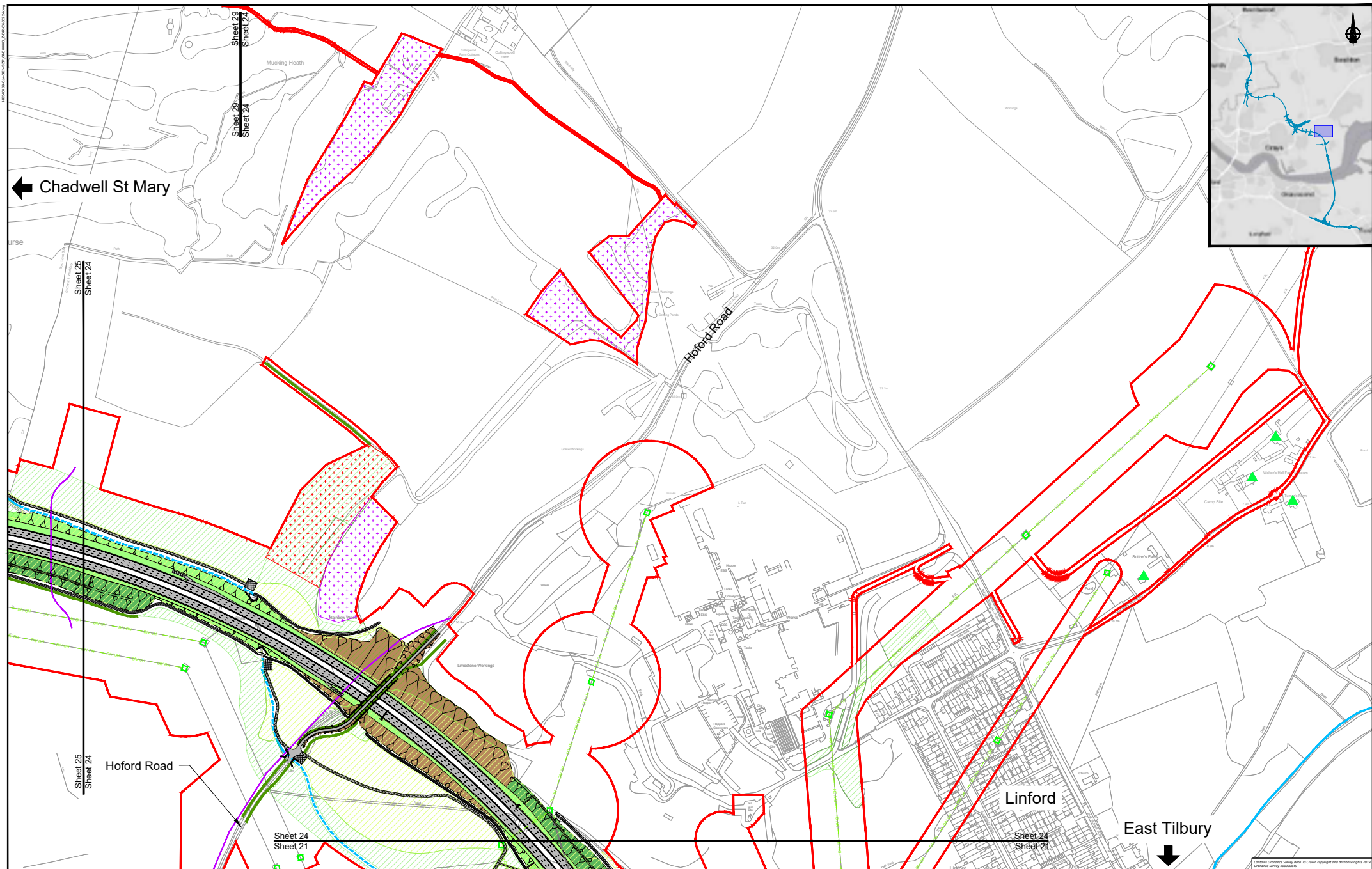
PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING
COMMUNITY IMPACTS CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 23

HEMOR&CANNON/2016/0000_2016/0000/0000

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← Chadwell St Mary

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Hoford Road

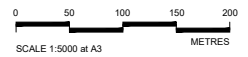
Hoford Road

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Sheet 21

Linford

Sheet 24
Sheet 21

East Tilbury



Client **highways england**

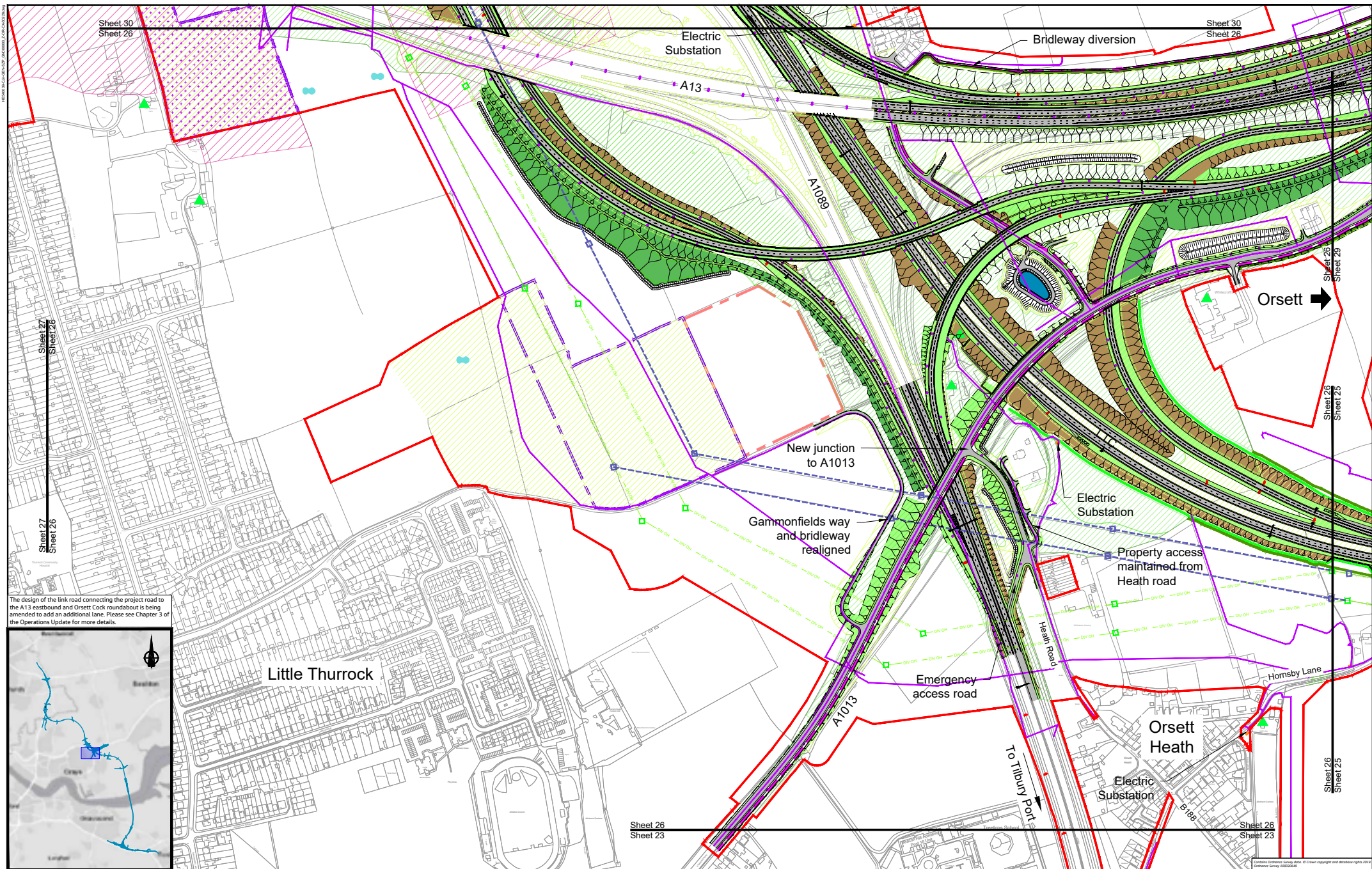
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Project **LOWER THAMES CROSSING**
COMMUNITY IMPACTS CONSULTATION

Drawing title **GENERAL ARRANGEMENT PLAN**
SHEET 24

HE080524/01/2018/0000_20180524/01

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The design of the link road connecting the project road to the A13 eastbound and Orsett Cock roundabout is being amended to add an additional lane. Please see Chapter 5 of the Operations Update for more details.

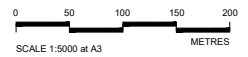


Little Thurrock

Orsett Heath

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Client

PROPOSALS FOR CONSULTATION

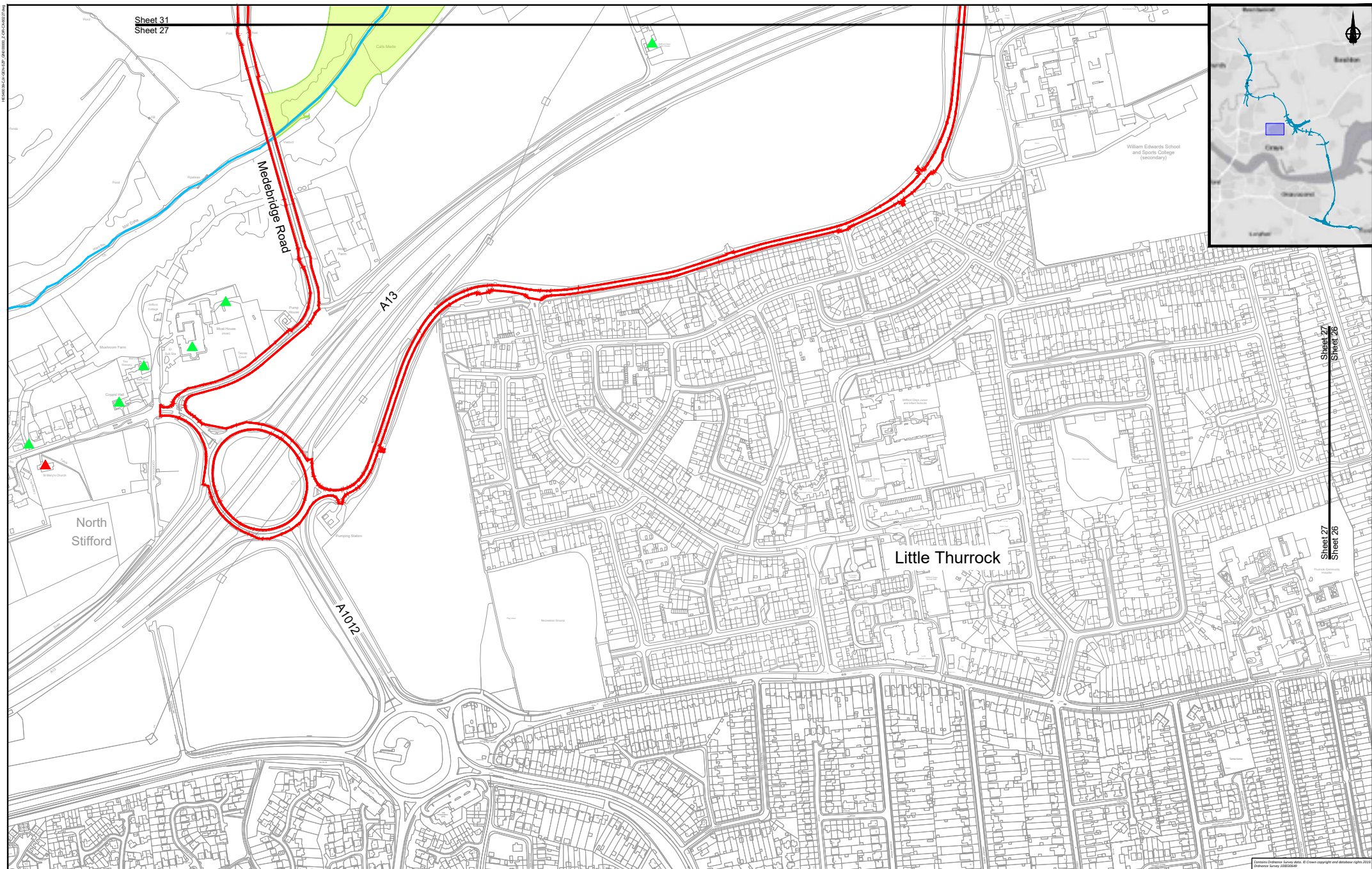
Project LOWER THAMES CROSSING
COMMUNITY IMPACTS CONSULTATION

Drawing title

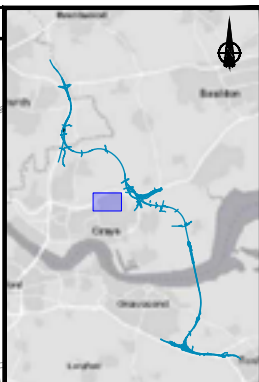
GENERAL ARRANGEMENT PLAN

SHEET 26

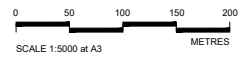
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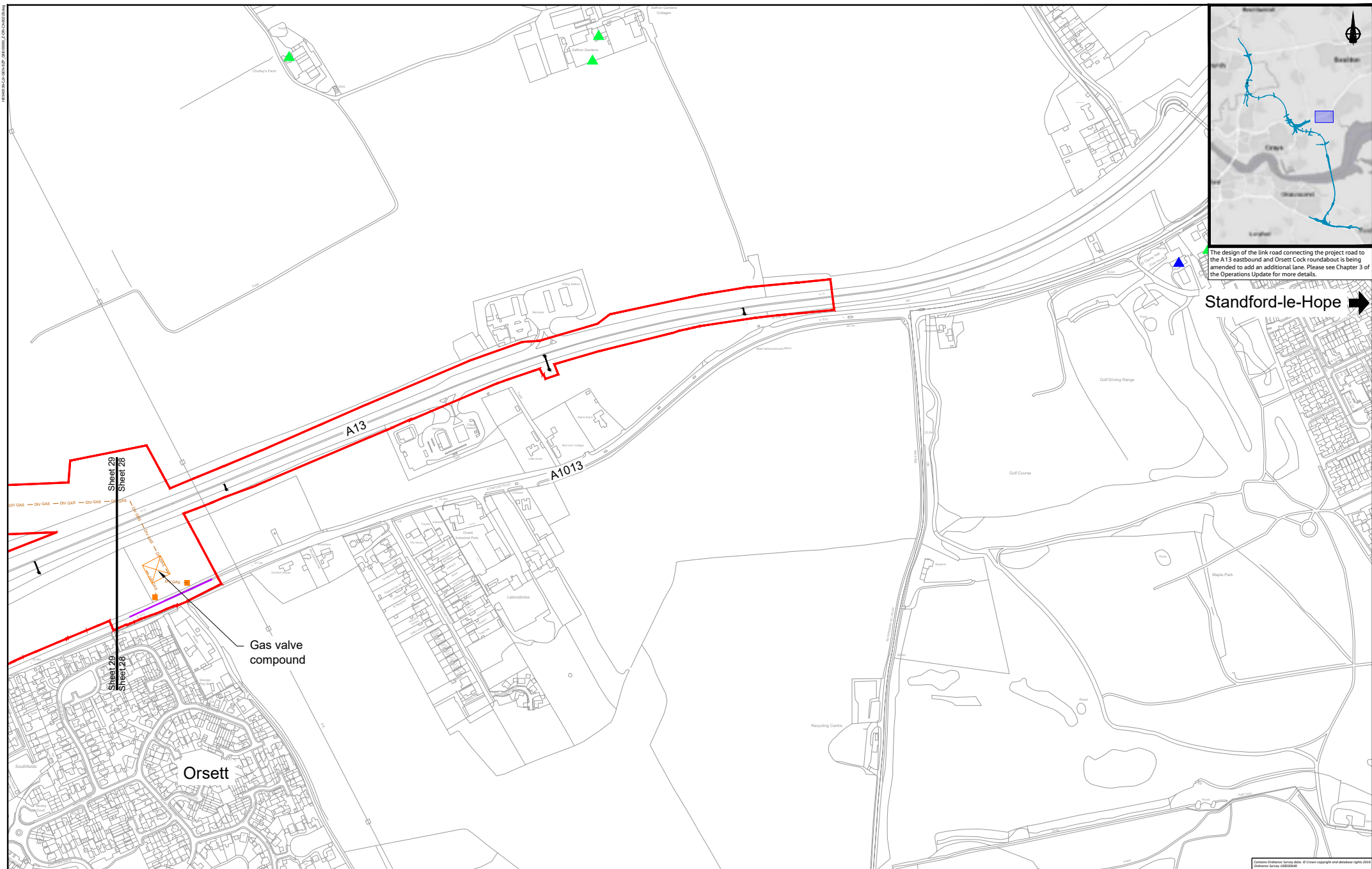


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CONSULTATION

Project LOWER THAMES CROSSING
COMMUNITY IMPACTS CONSULTATION
Drawing title

GENERAL ARRANGEMENT PLAN
SHEET 27

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The design of the link road connecting the project road to the A13 eastbound and Orsett Cock roundabout is being amended to add an additional lane. Please see Chapter 3 of the Operations Update for more details.

Stanford-le-Hope →

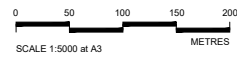
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Gas valve compound

Orsett

HEW000124/01/2019/0001_01/01/2019/0001

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Client 

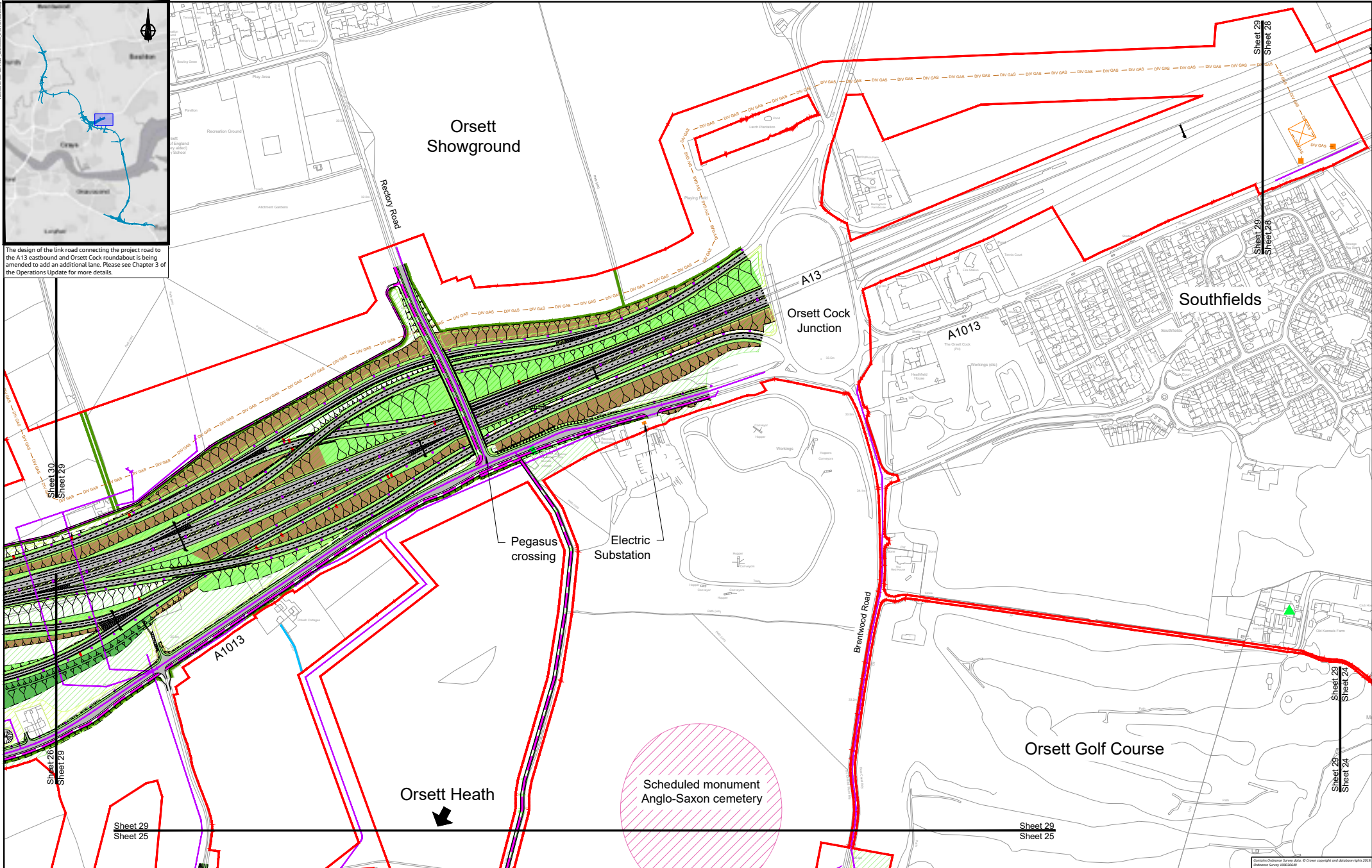
PROPOSALS FOR CONSULTATION

Project **LOWER THAMES CROSSING COMMUNITY IMPACTS CONSULTATION**

Drawing title **GENERAL ARRANGEMENT PLAN SHEET 28**



The design of the link road connecting the project road to the A13 eastbound and Orsett Cock roundabout is being amended to add an additional lane. Please see Chapter 3 of the Operations Update for more details.

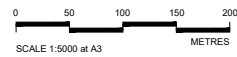


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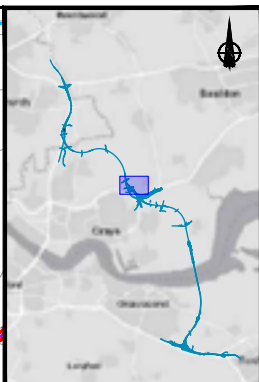
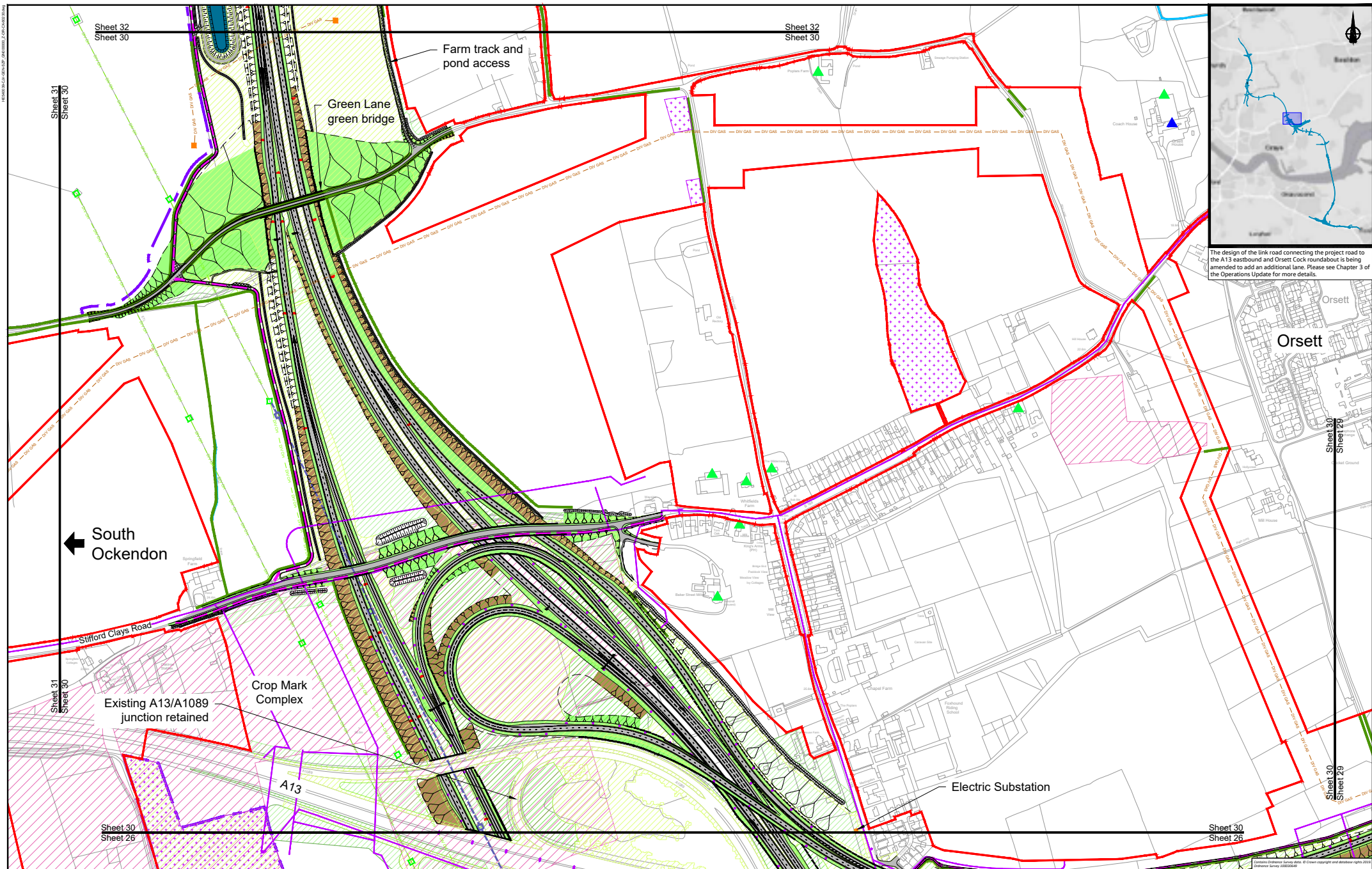
Client 

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Project LOWER THAMES CROSSING
COMMUNITY IMPACTS CONSULTATION

Drawing title **GENERAL ARRANGEMENT PLAN**
SHEET 29

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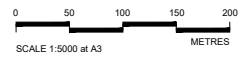


The design of the link road connecting the project road to the A13 eastbound and Orsett Cock roundabout is being amended to add an additional lane. Please see Chapter 3 of the Operations Update for more details.

← South Ockendon

Orsett

Electric Substation

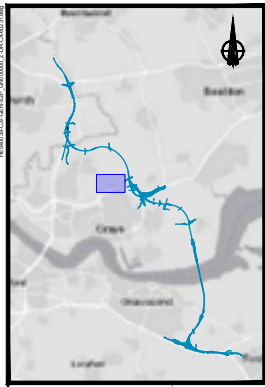


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Project LOWER THAMES CROSSING
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Drawing title
GENERAL ARRANGEMENT PLAN
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← South Ockendon

Utility works

Medebridge Road

Grays

Little Thurrock

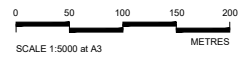
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A13

Stifford Clays Road

Orsett →

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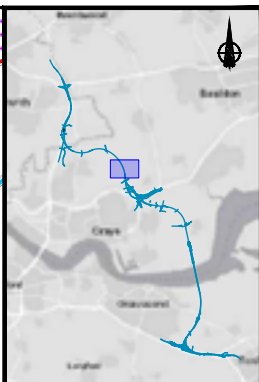
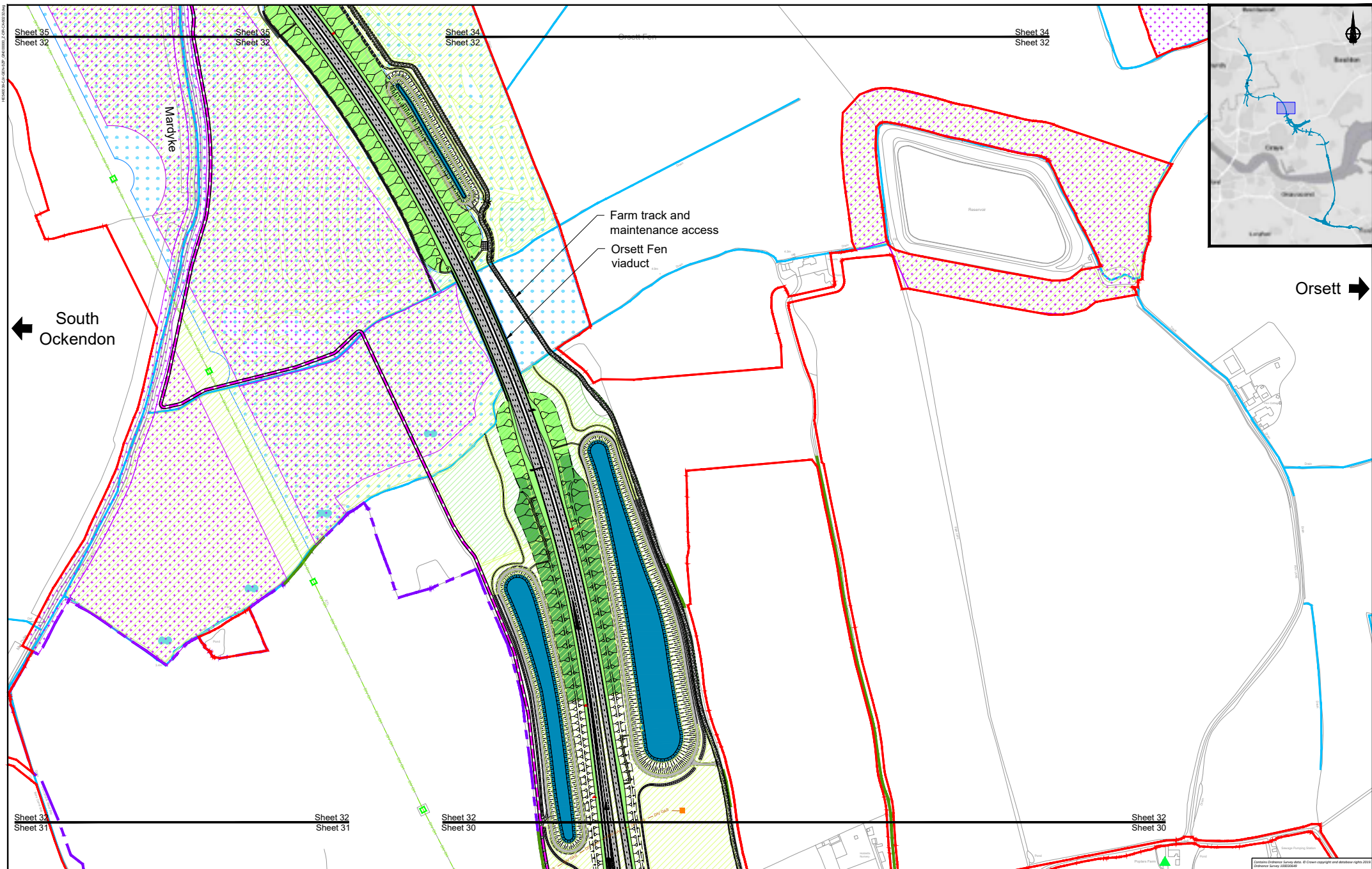
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Drawing title **GENERAL ARRANGEMENT PLAN**
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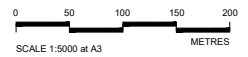
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Farm track and
maintenance access

Orsett Fen
viaduct

← South
Ockendon

Orsett →



Client **highways england**

**PROPOSALS FOR
CONSULTATION**

Project **LOWER THAMES CROSSING
COMMUNITY IMPACTS CONSULTATION**

Drawing title **GENERAL ARRANGEMENT PLAN
SHEET 32**

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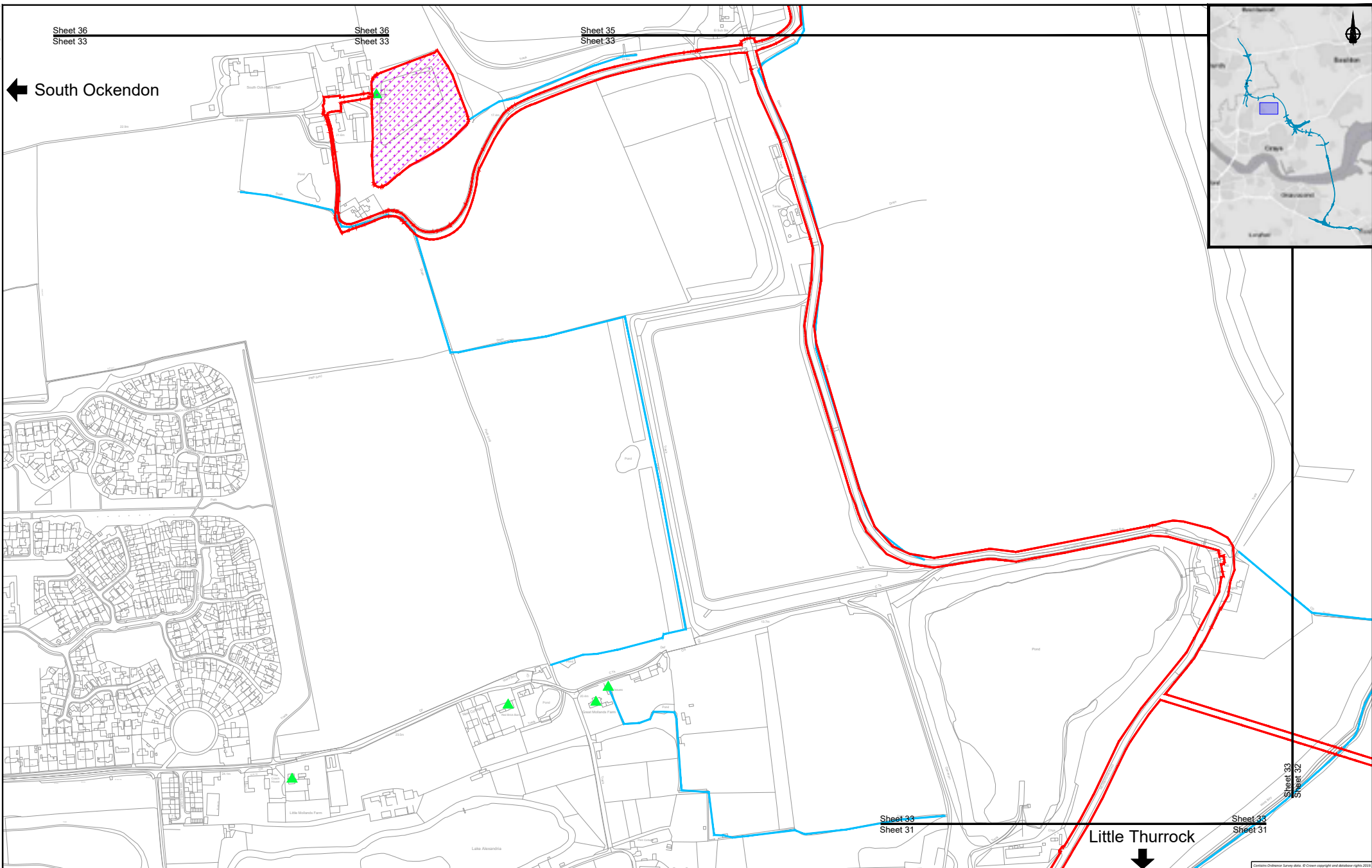
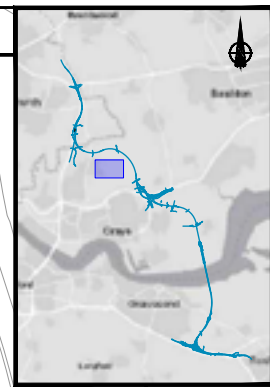
Highways England

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← South Ockendon



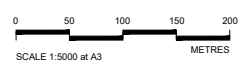
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Little Thurrock

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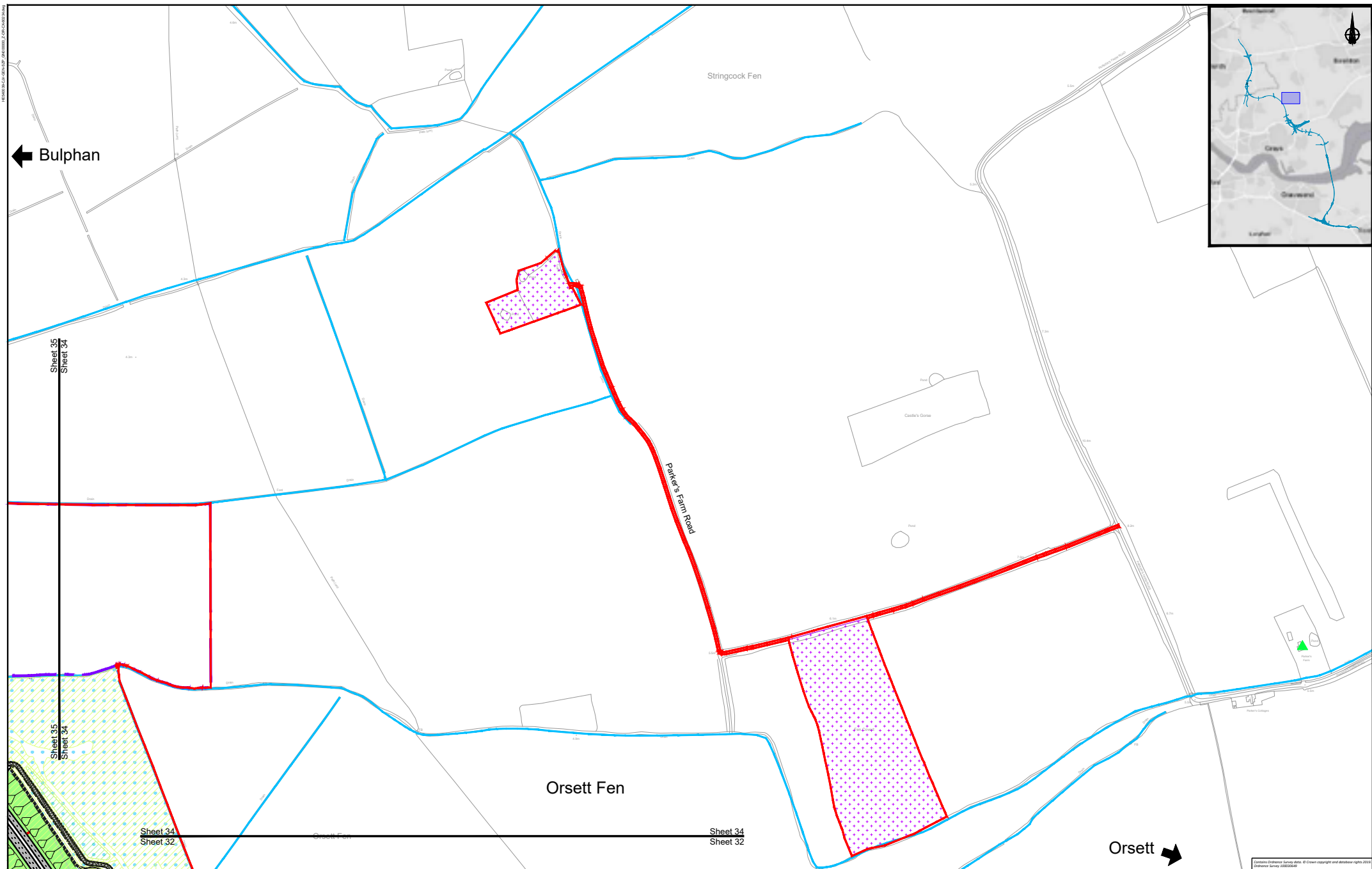


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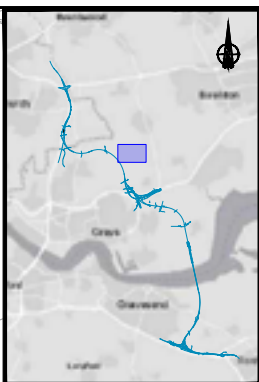
PROPOSALS FOR CONSULTATION

Project **LOWER THAMES CROSSING
COMMUNITY IMPACTS CONSULTATION**

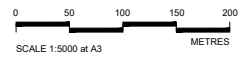
Drawing title **GENERAL ARRANGEMENT PLAN
SHEET 33**



← Bulphan



Orsett →



Client

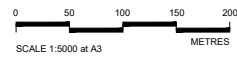
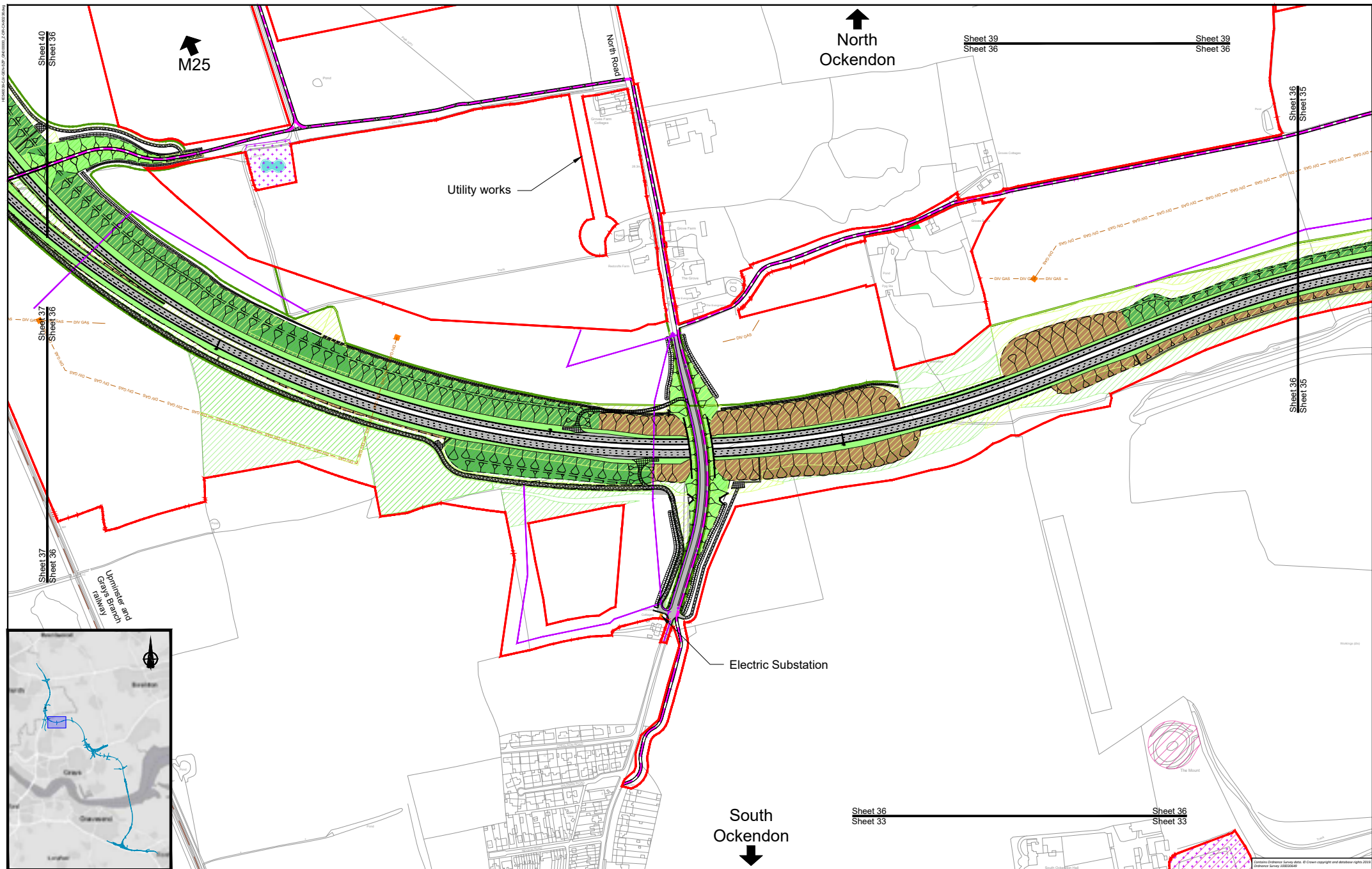


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Project LOWER THAMES CROSSING
COMMUNITY IMPACTS CONSULTATION

Drawing title
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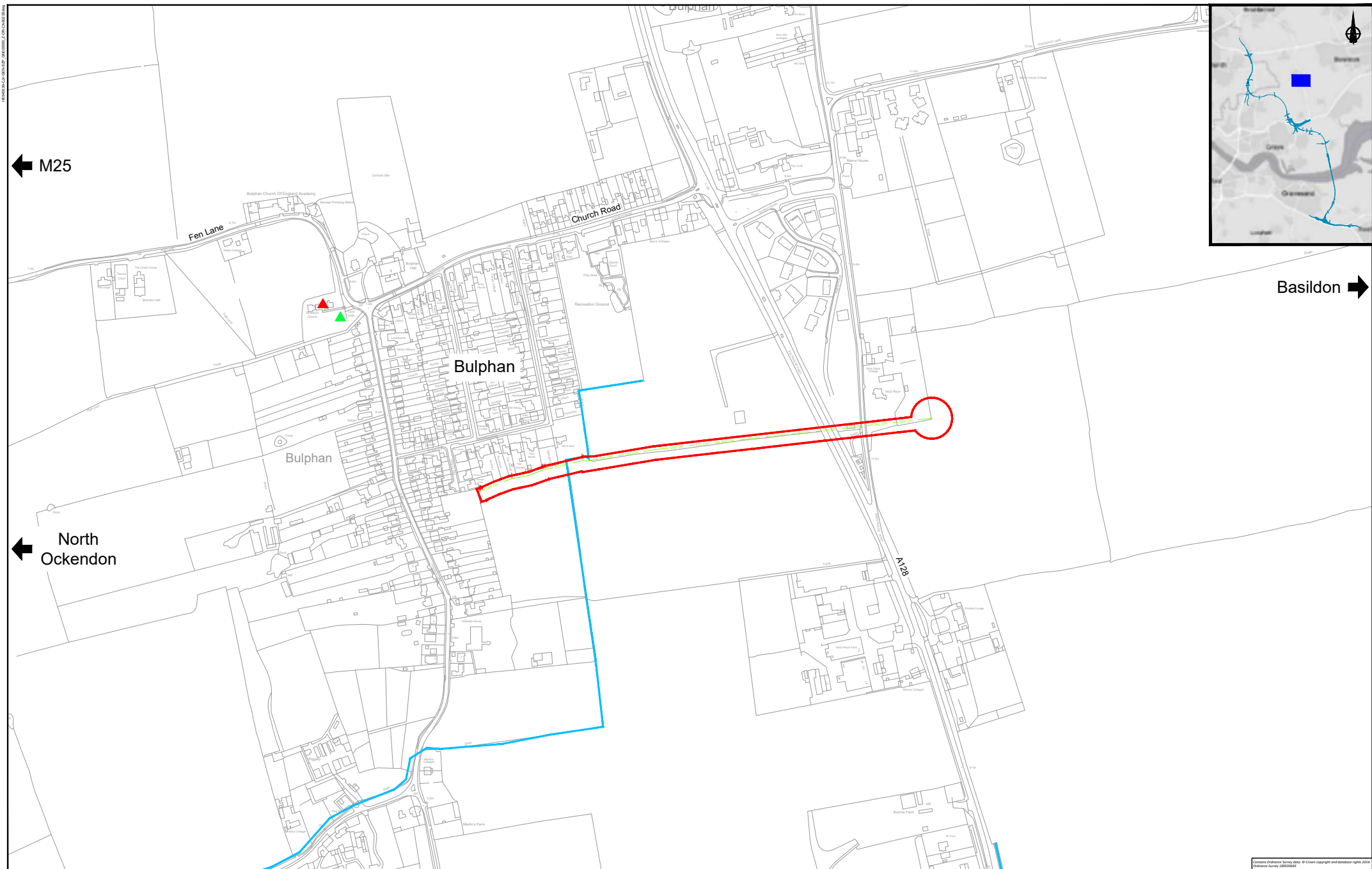
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COMMUNITY IMPACTS CONSULTATION

Drawing title **GENERAL ARRANGEMENT PLAN**
SHEET 36

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← M25

Basildon →

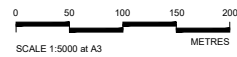
← North Ockendon

Bulphan

Bulphan

A126

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COMMUNITY IMPACTS CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
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HEMANS/CALDWELL/2016/0000_2016/0000_2016/0000/2016

← M25

← North Ockendon

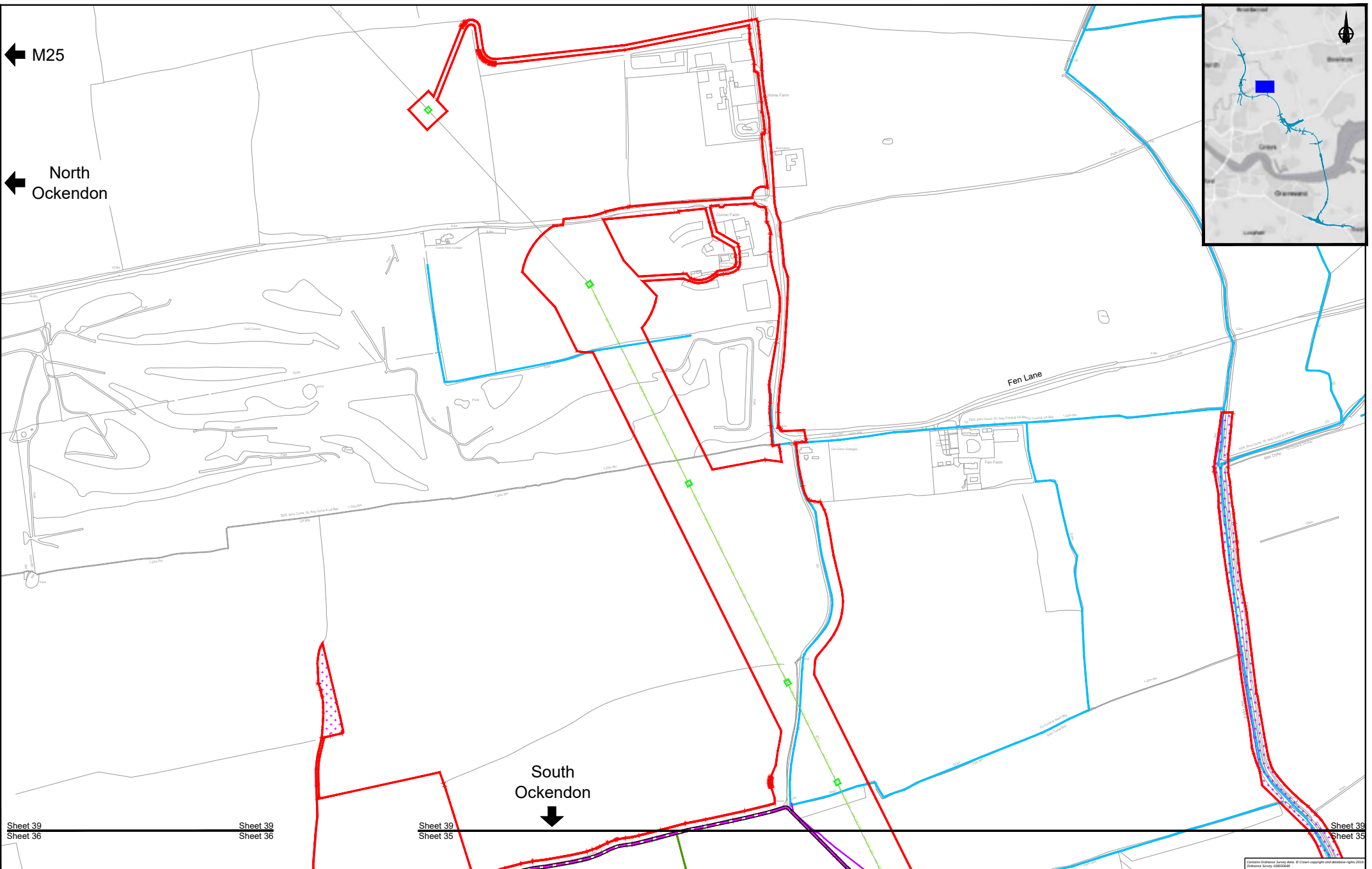
South Ockendon
↓

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SCALE 1:5000 at A3 METRES

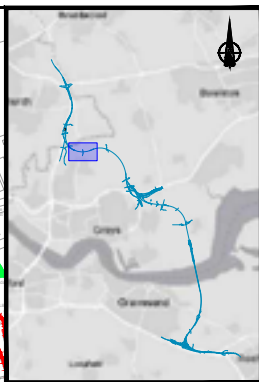
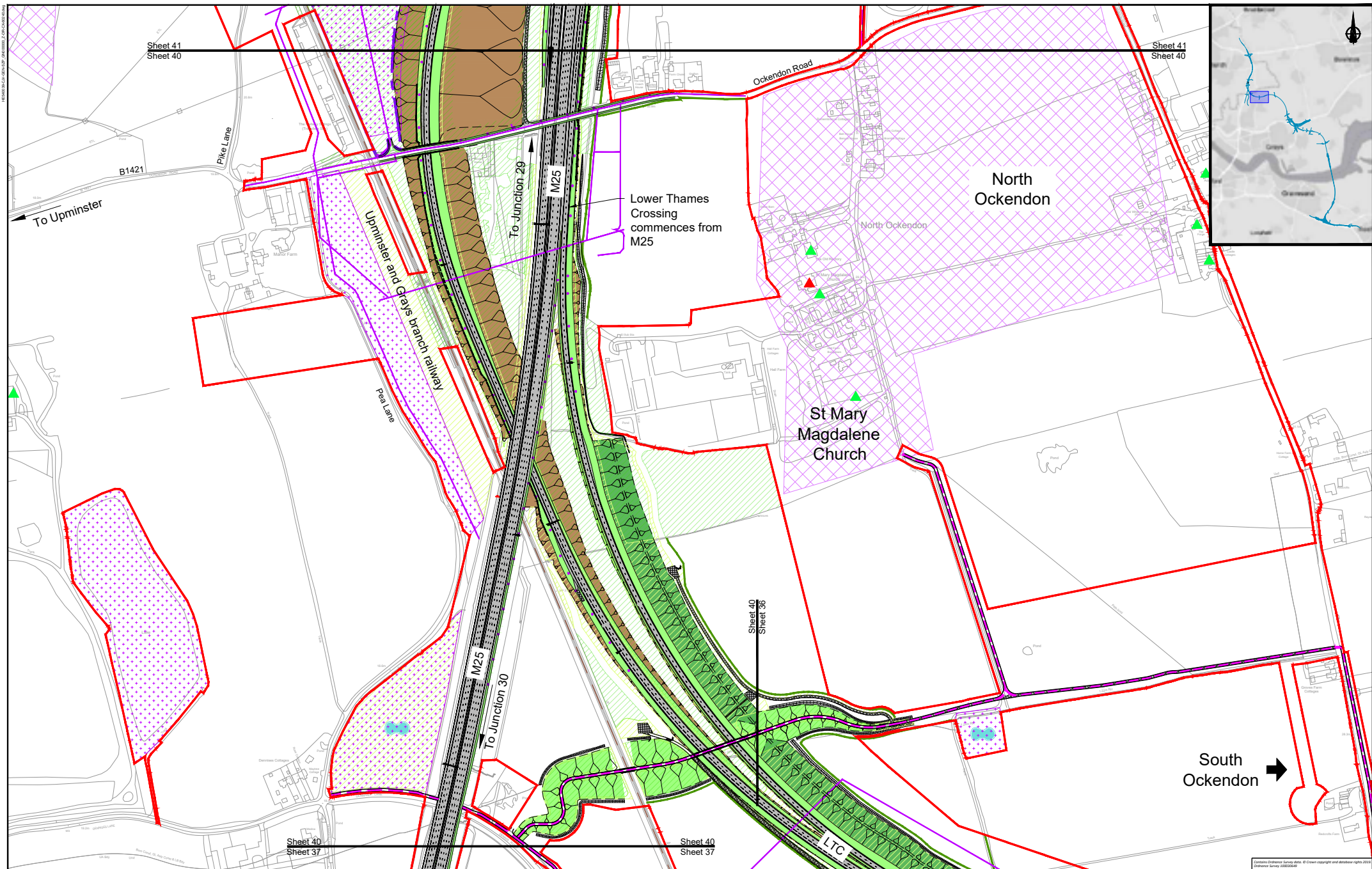
Client 

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Project LOWER THAMES CROSSING
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Drawing title **GENERAL ARRANGEMENT PLAN**
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To Upminster

To Junction 29

Lower Thames Crossing commences from M25

North Ockendon

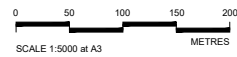
St Mary Magdalene Church

South Ockendon →

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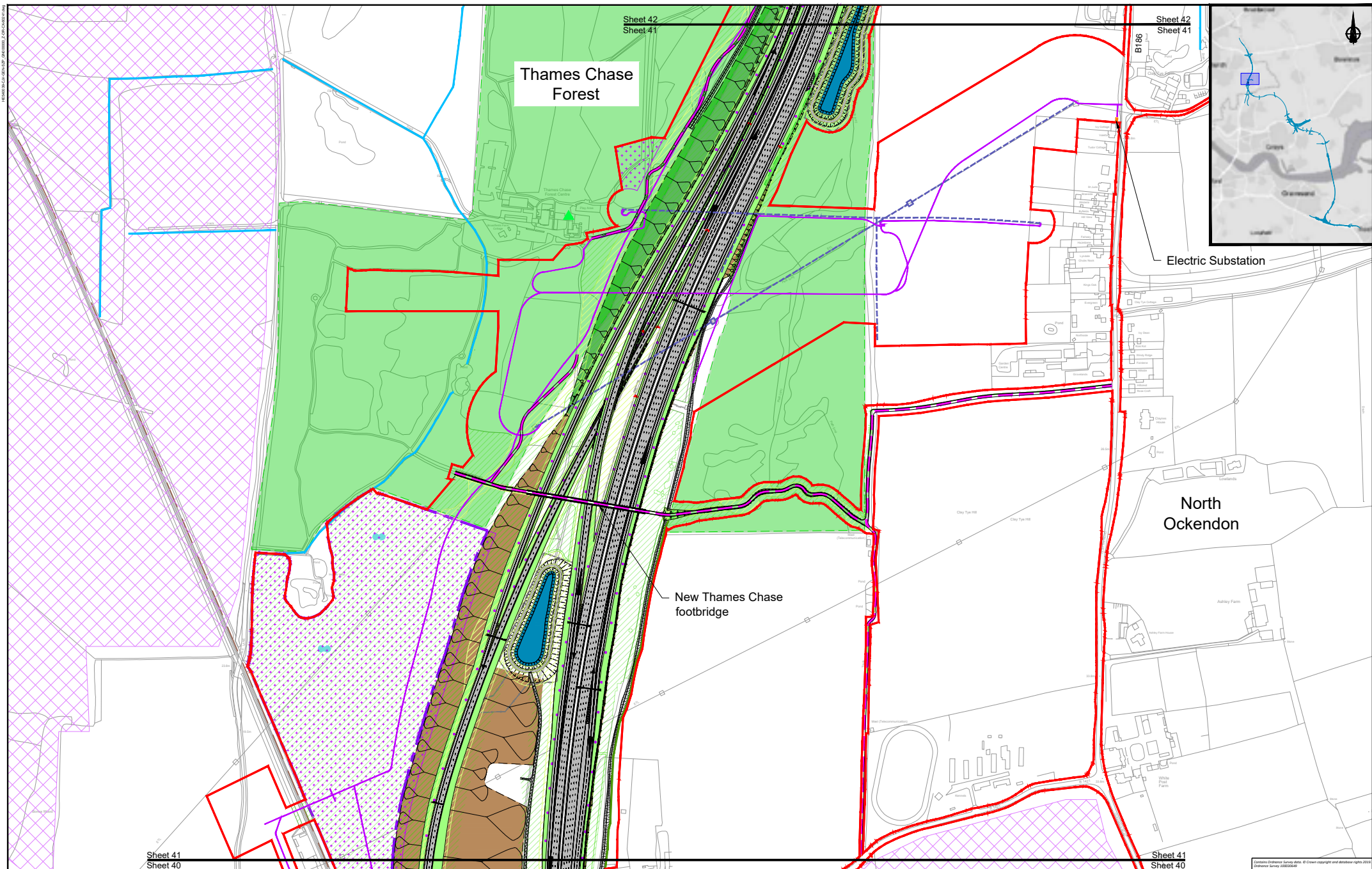


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COMMUNITY IMPACTS CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
SHEET 40

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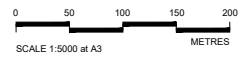


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Client 

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← Cranham

Upminster and Grays branch railway

B187

Cranham Golf Course

Thames Chase Forest

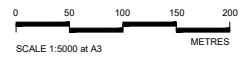
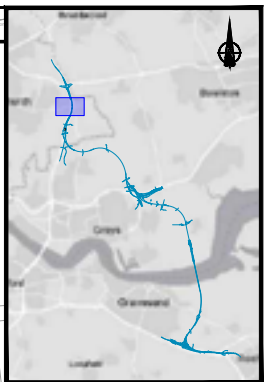
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St. Marys Lane

B186

North Ockendon

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Project LOWER THAMES CROSSING
COMMUNITY IMPACTS CONSULTATION
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M25
J28

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M25

Warley Road

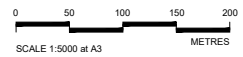
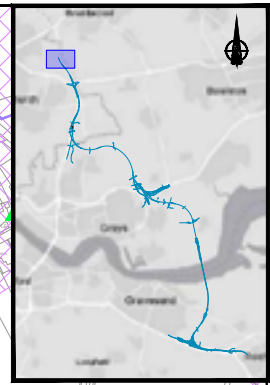
Folkes Lane
Woodland

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M25
J29

Harold Wood



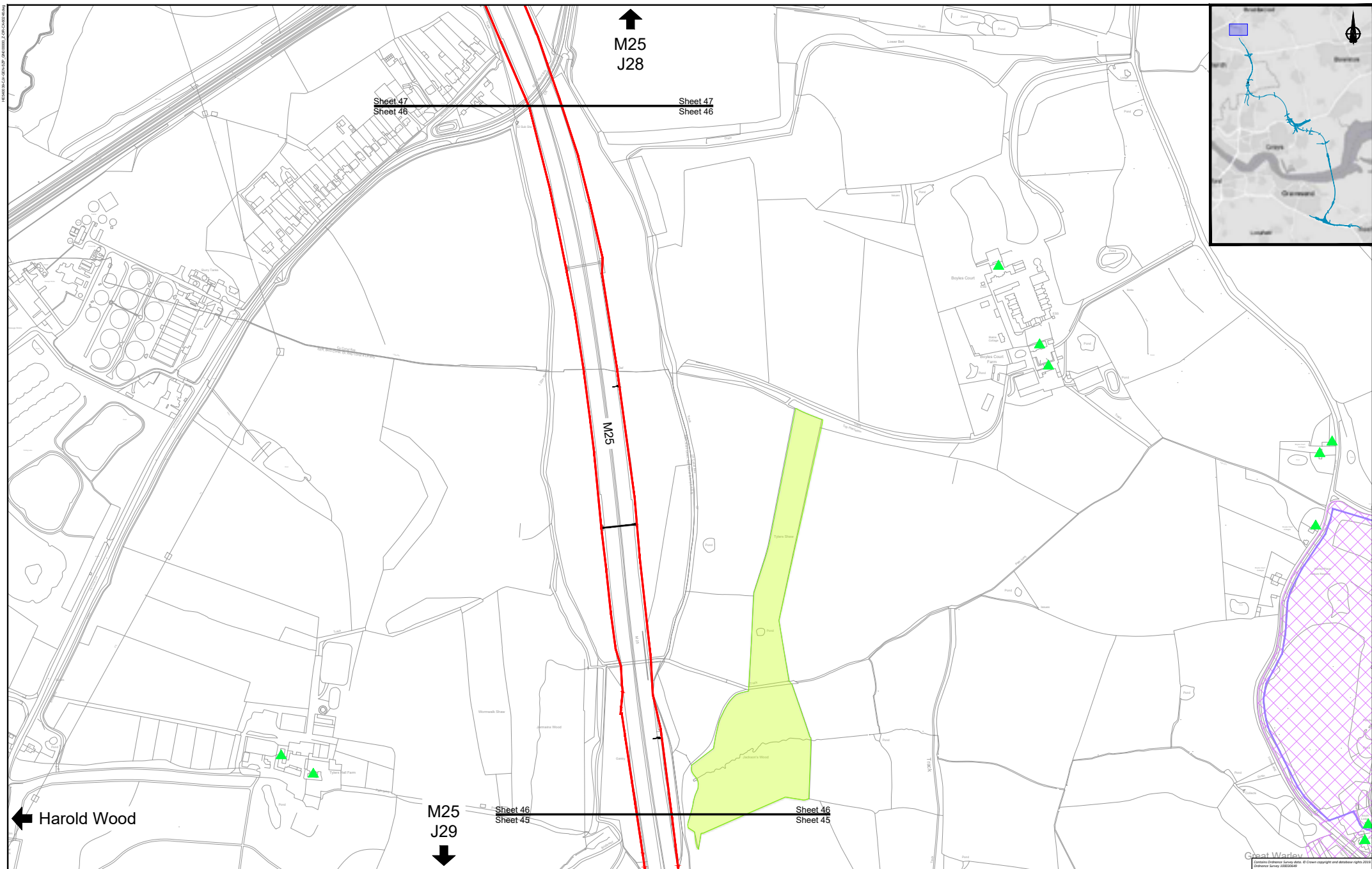
highways
england

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CONSULTATION**

Project LOWER THAMES CROSSING
COMMUNITY IMPACTS CONSULTATION

Drawing title
**GENERAL ARRANGEMENT PLAN
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↑
M25
J28

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M25

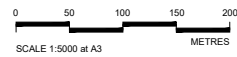
← Harold Wood

M25
J29
↓

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Great Warley
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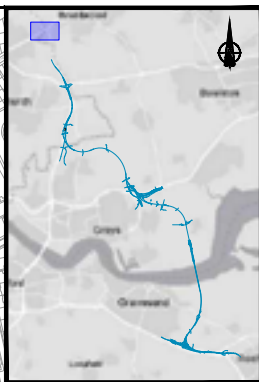
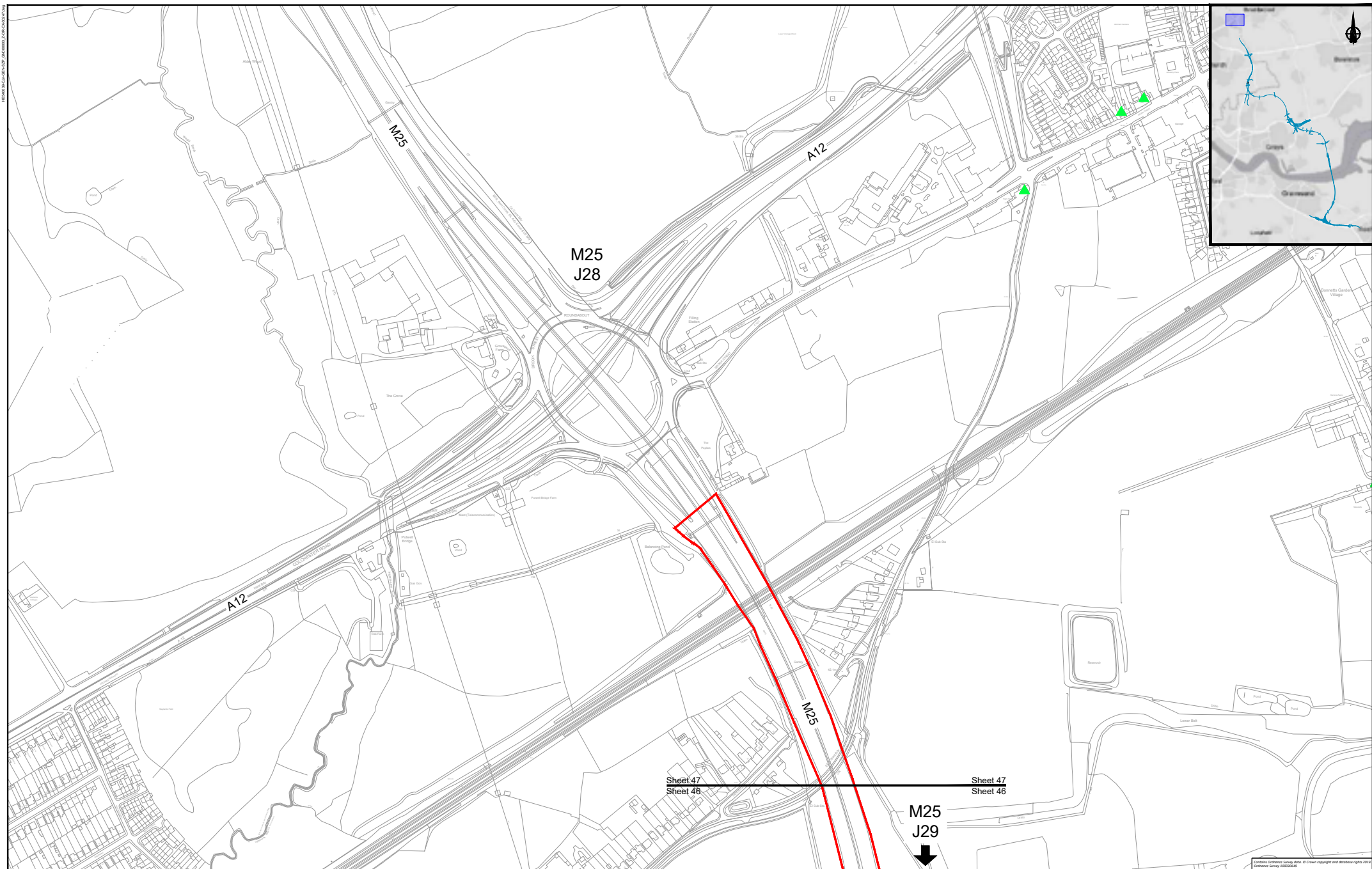
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PROPOSALS FOR CONSULTATION

Project LOWER THAMES CROSSING
COMMUNITY IMPACTS CONSULTATION

Drawing title
GENERAL ARRANGEMENT PLAN
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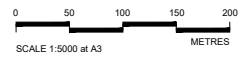
14/06/2016 10:28:12 AM



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M25
J29
↓



Client

PROPOSALS FOR CONSULTATION

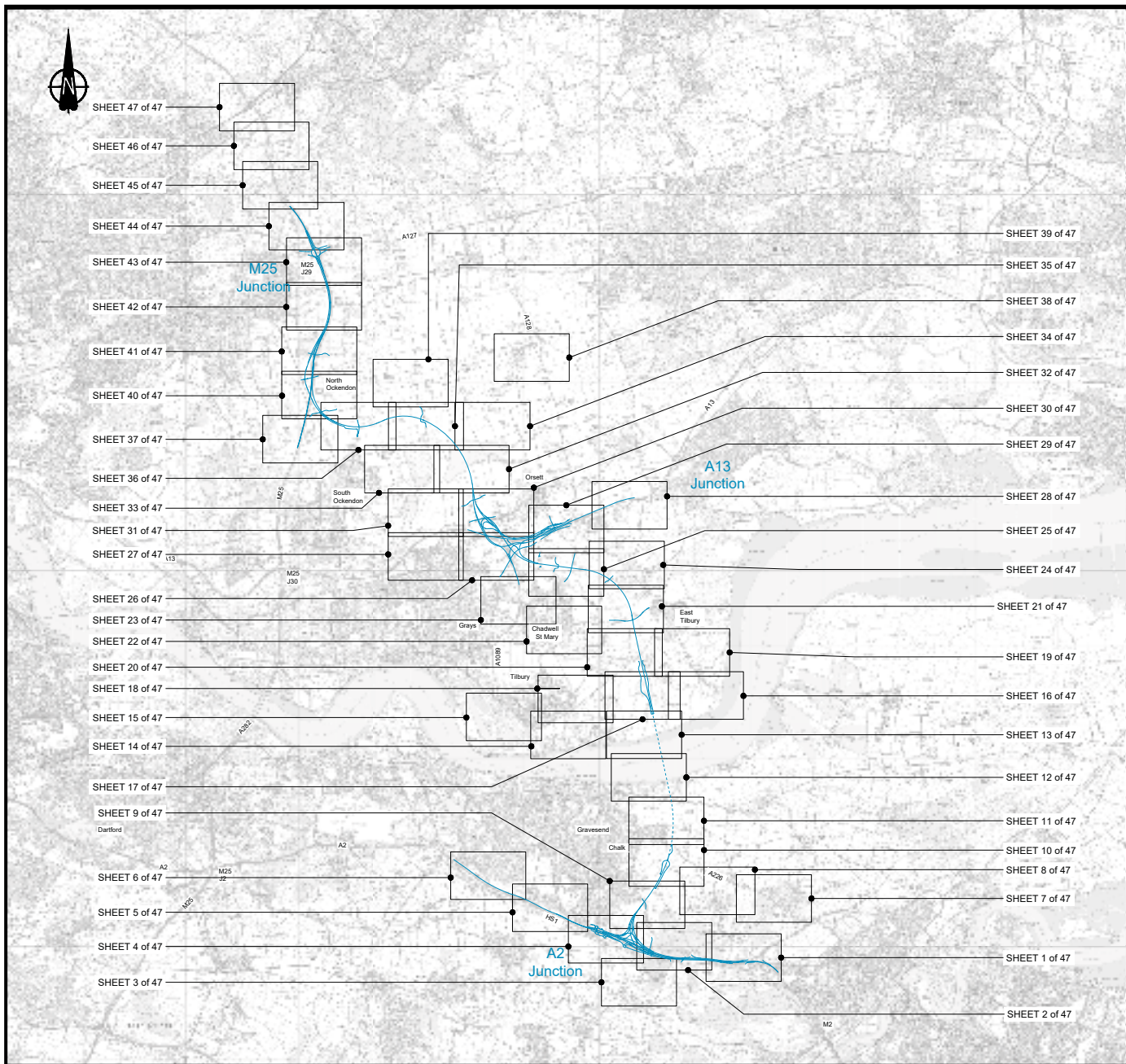
Project LOWER THAMES CROSSING
COMMUNITY IMPACTS CONSULTATION

Drawing title

GENERAL ARRANGEMENT PLAN

SHEET 47

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ENGINEERING AND CONSTRUCTION	EXISTING ENVIRONMENTAL FEATURES
New Carriageway	Grade I listed building
Railway line	Grade II listed building
Overbridge	Grade II* listed building
Underpass	Area of Outstanding Natural Beauty (AONB)
Culvert	Site of Special Scientific Interest (SSSI)
Traffic sign	Ancient Woodland
Gantry	Conservation Area
Lighting	Scheduled monument
Pond	Community Forest
Footpath, Cycleway or Bridleway route	Watercourse
Tunnel	
Earthworks - Cutting	
Earthworks - Embankment	
Earthworks - Flood protection bund/false cutting	
Verge	
Retaining wall	
Maintenance access	
Ground protection tunnel	
Green Roof for Tunnel Buildings	
UTILITIES	
Underground multiutility alignment	
Realigned Gas	
Realigned or modified overhead cable	
Maximum length of OHL to be removed	
Diversion ties into existing Gas Compound or Electricity substation	
	PROPOSED ENVIRONMENTAL MITIGATION
	Open space provision, replacement open space and replacement common land
	Proposed woodland planting
	Proposed woodland planting
	Proposed grassland planting
	Potential receptor site for ancient woodland compensation
	Potential receptor site for translocation of protected species
	Ecology protection measures
	Flood Compensation Area
	Hedgerow
	Watercourse diversion
	BOUNDARIES
	Order Limits
	Registered park or garden
	Relocated Travellers site

LEGEND:
 Lower Thames Crossing
 Lower Thames Crossing in tunnel

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

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