



**The Great Grid Upgrade**

Norwich to Tilbury

# Preliminary Environmental Information Report

**Volume II – Figures**

April 2024

**nationalgrid**

AENC-NG-ENV-REP-0003



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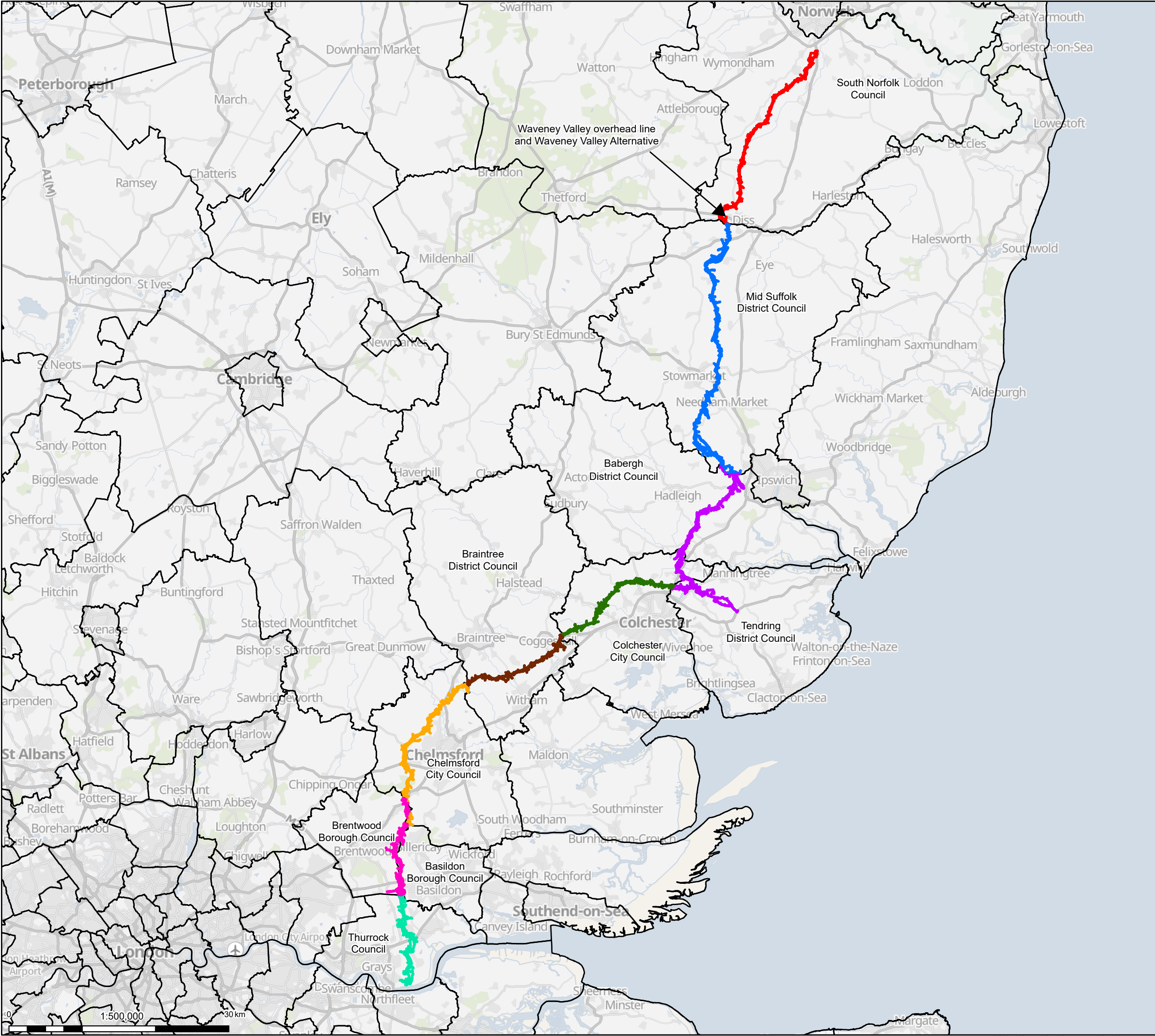
## Part 1 of 27:

Figure 1.1 - Site Location and Project Sections

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Figure 6.1 - Agriculture and Soils Study Area

Figure 6.2 - Provisional ALC Mapping



Legend

Draft order limits - project sections

- Section A: South Norfolk Council
- Section B: Mid Suffolk District Council
- Section C: Babergh District Council, Colchester City Council and Tendring District Council
- Section D: Colchester City Council
- Section E: Braintree District Council
- Section F: Chelmsford City Council
- Section G: Brentwood Borough Council and Basildon Borough Council
- Section H: Thurrock Council
- Local Authority Boundary

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PROJECT:  
**NORWICH TO  
TILBURY**

Title:

**Figure 1.1 - Introduction -  
Site Location Plan and  
Project Sections**

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Drawn	K. Fischer	Date:	April 2024
Checked	A. Fell	Date:	April 2024
Approved	K. Burrows	Date:	April 2024
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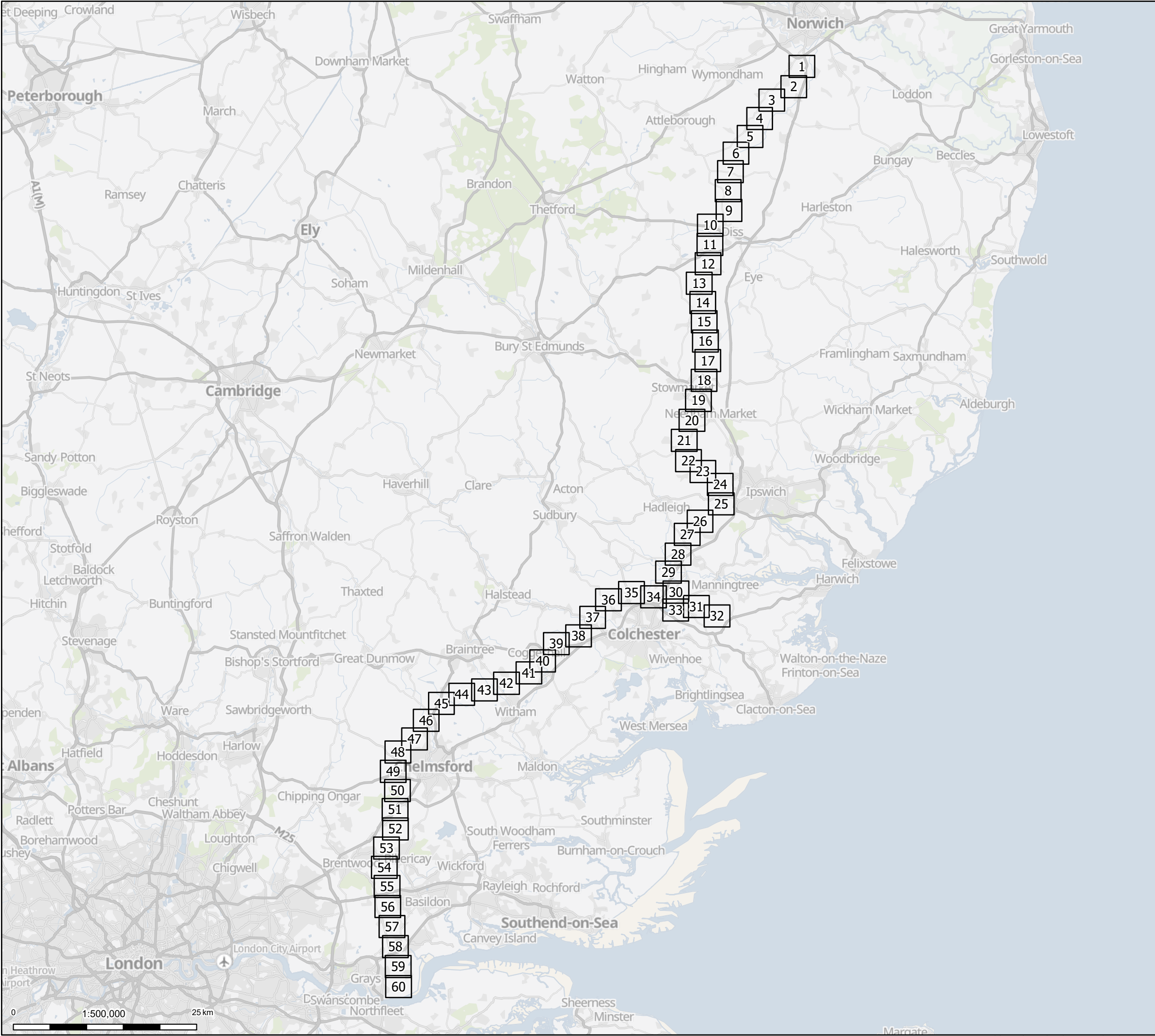
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Note: This figure has been revised. This does not affect the preliminary assessment in the PEIR. For more details we refer you to the Errata and Corrections Log (June 2024) on the Project website

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PROJECT:  
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Title:

Figure 4.1 - Project Description -  
Proposed Project Design  
Overview

Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
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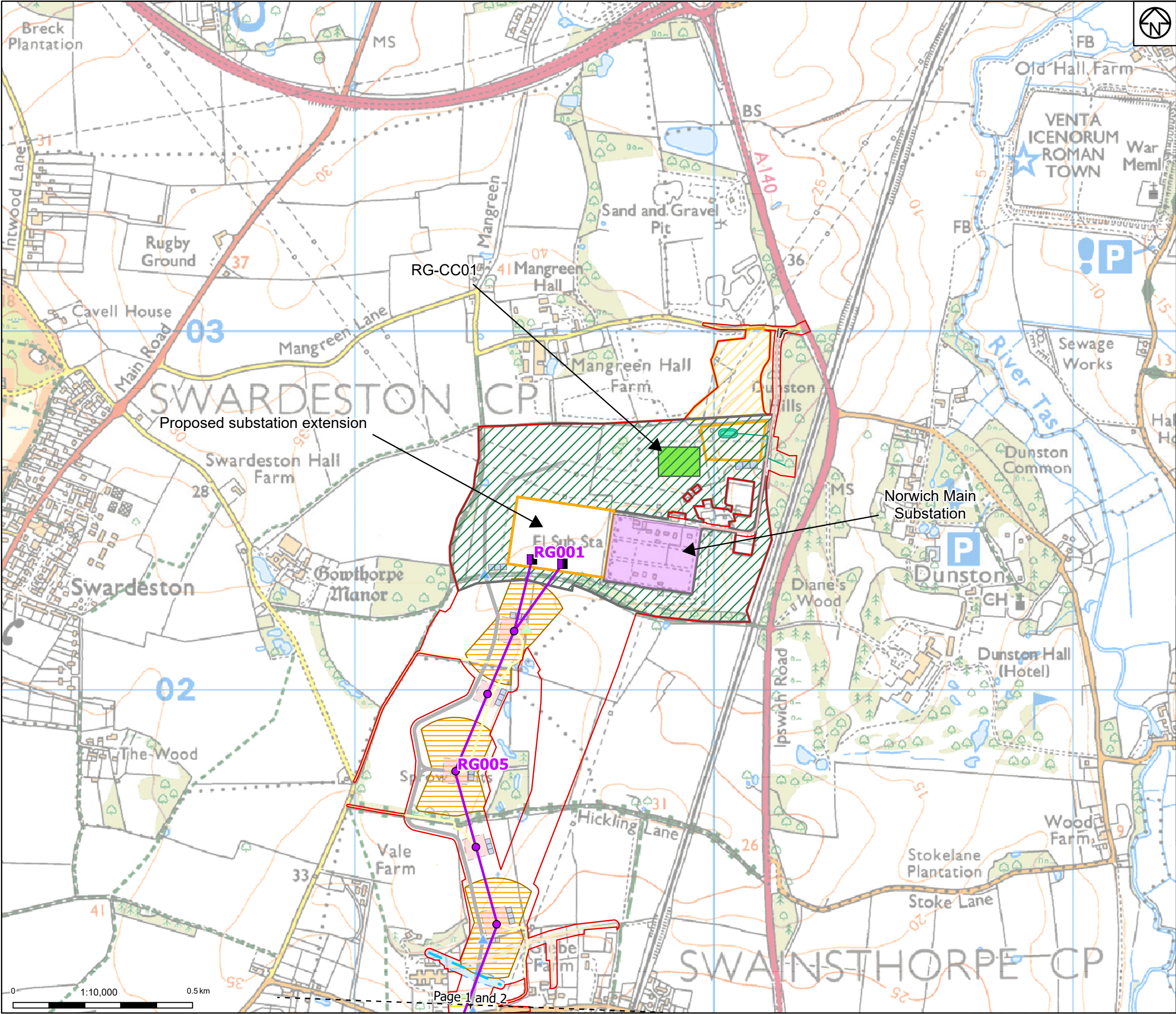
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Revision:

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- Draft order limits

Proposed permanent design details

Proposed full line tension gantry

Proposed pylon position

Proposed overhead line alignment

Existing substation

Proposed substation extension

Proposed overhead line permanent access roads (no physical works)

Proposed substation / CSEC permanent access roads

Proposed 11kV overhead line mitigation required

Pipeline cathodic protection

Proposed environmental areas

Proposed CSE compound/ substation construction compound

Proposed overhead line access routes water crossing

Proposed overhead line watercourse crossings

Proposed temporary attenuation drainage

Proposed temporary attenuation drainage

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed temporary construction haul road

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed pipeline cathodic protection work area

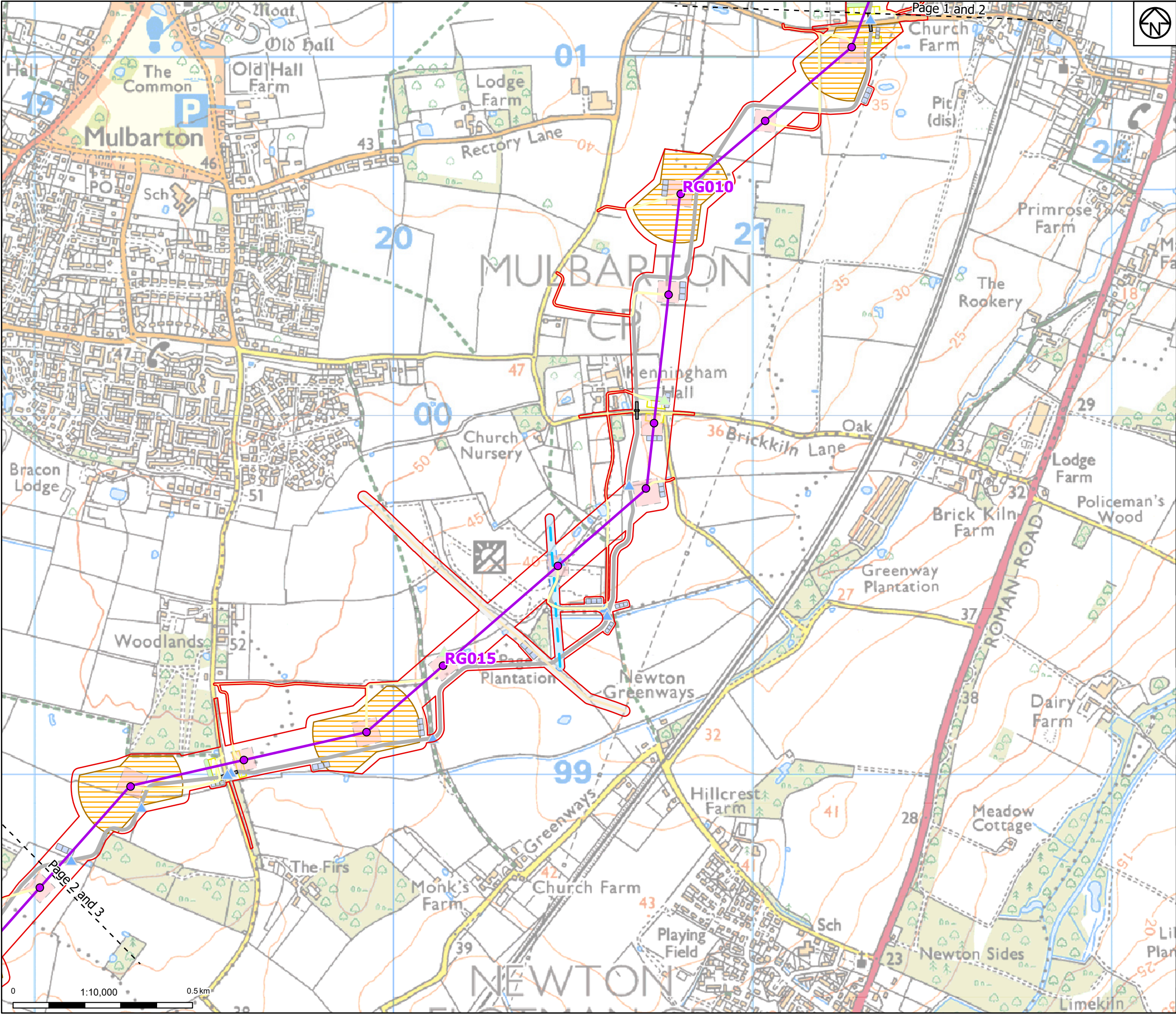
Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.
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Proposed Project Design  
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| Approved          | K. Burrows | Date            | June 2024 |
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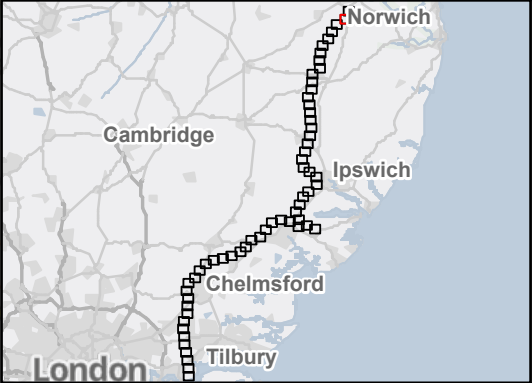
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- Proposed permanent design details**
- Proposed pylon position
  - Proposed overhead line alignment
  - Proposed overhead line permanent access roads (no physical works)
  - Proposed 11kV overhead line mitigation required
  - Pipeline cathodic protection
- Proposed temporary design details**
- Proposed overhead line access routes water crossing
  - Proposed overhead line watercourse crossings
  - Proposed overhead line construction SuDS basins
  - Proposed site access points
  - Proposed overhead line haul road
  - Proposed overhead line crossing protection access route
  - Proposed crossing protection access route buffer
  - Proposed pylon construction work area
  - Proposed overhead line pulling location
  - Proposed overhead line crossing protection work area
  - Proposed UKPN overhead line mitigation work area (wood pole lines)
  - Proposed pipeline cathodic protection work area
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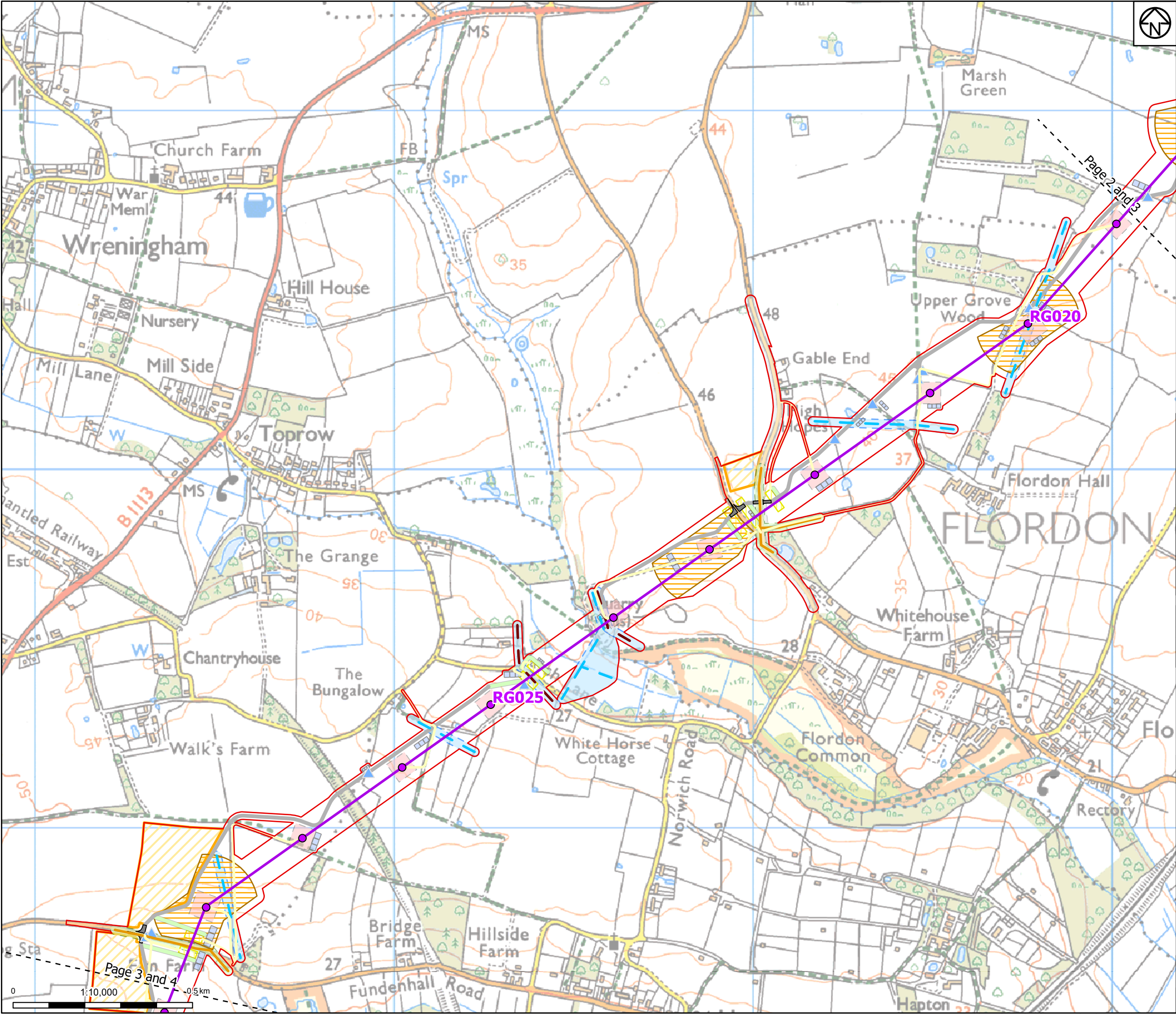
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Suitability Description:  
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Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

BT overhead line mitigation

Pipeline cathodic protection

Proposed temporary design details

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line mitigation work area (wood pole lines)

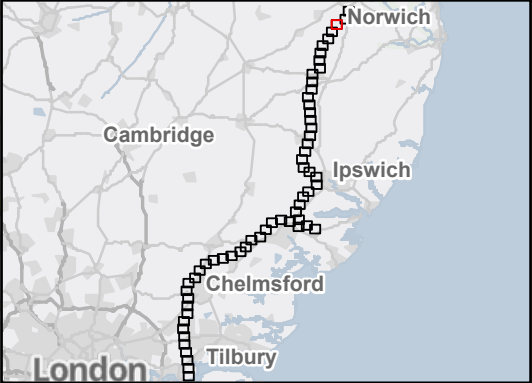
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Proposed pipeline cathodic protection work area

Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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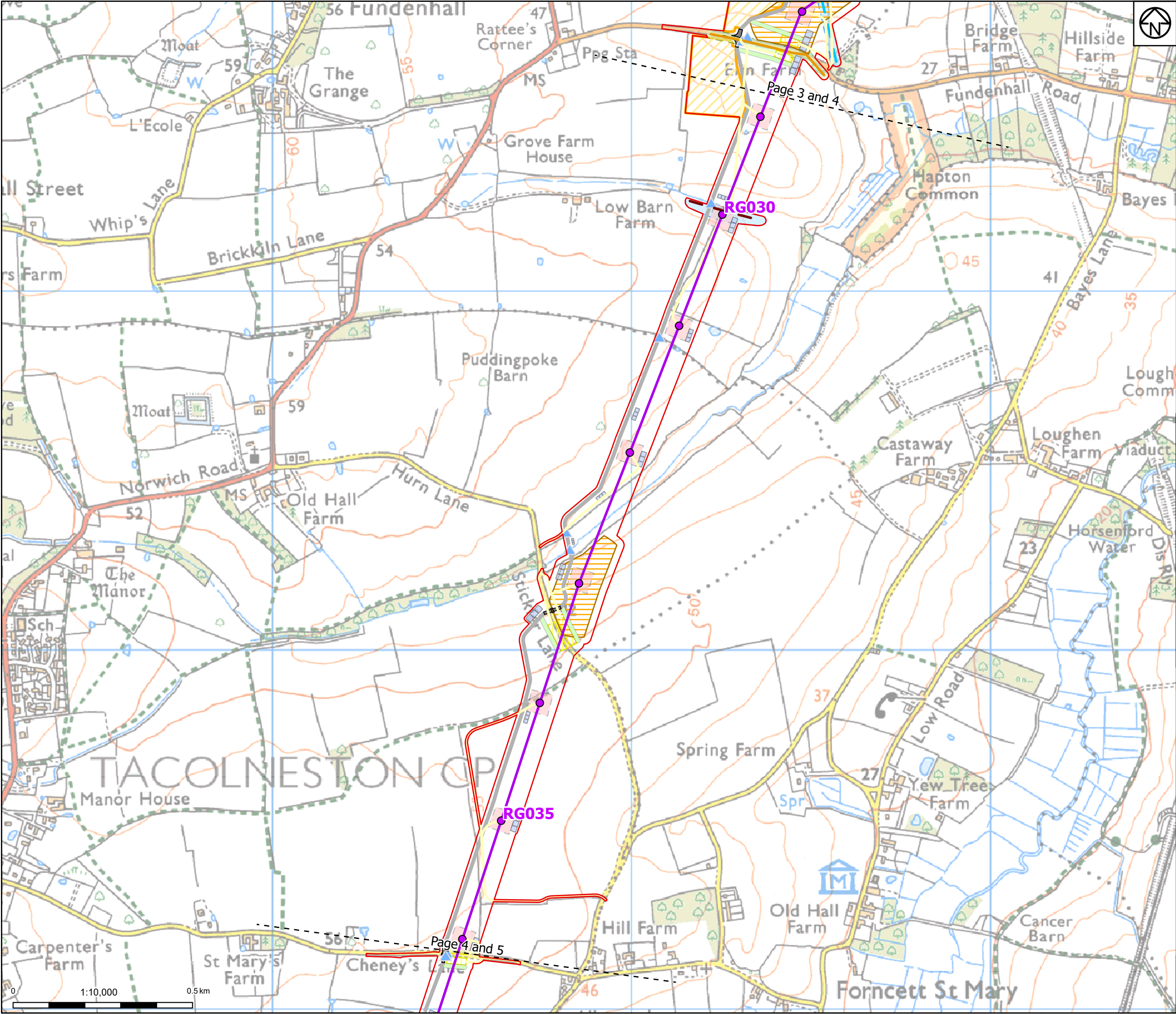
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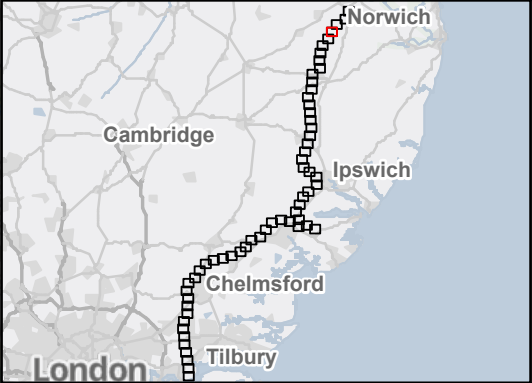
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- Proposed overhead line permanent access roads (no physical works)
- Proposed 11kV overhead line mitigation required
- Proposed 33kV overhead line mitigation required
- BT overhead line mitigation

**Proposed temporary design details**

- Proposed overhead line access routes water crossing
- Proposed overhead line construction SuDS basins
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- Proposed overhead line haul road
- Proposed overhead line crossing protection access route
- Proposed crossing protection access route buffer
- Proposed pylon construction work area
- Proposed overhead line pulling location
- Proposed overhead line crossing protection work area
- Proposed UKPN overhead line mitigation work area (wood pole lines)
- Proposed BT overhead line mitigation work area
- Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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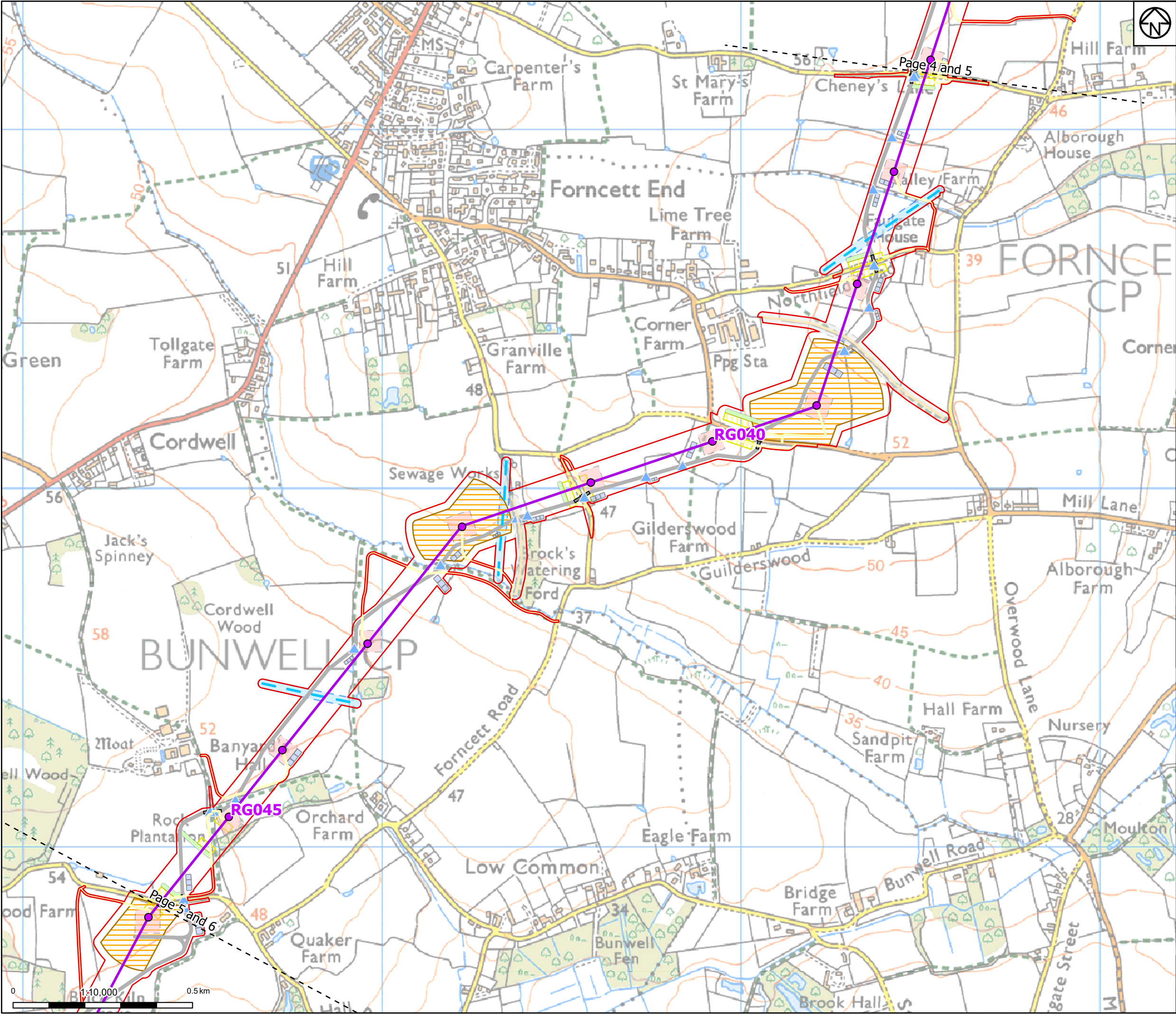
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Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Pipeline cathodic protection

Proposed temporary design details

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

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Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

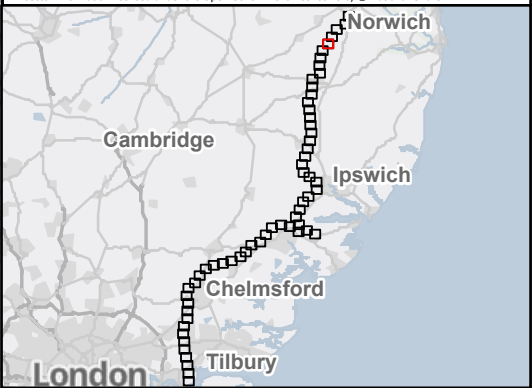
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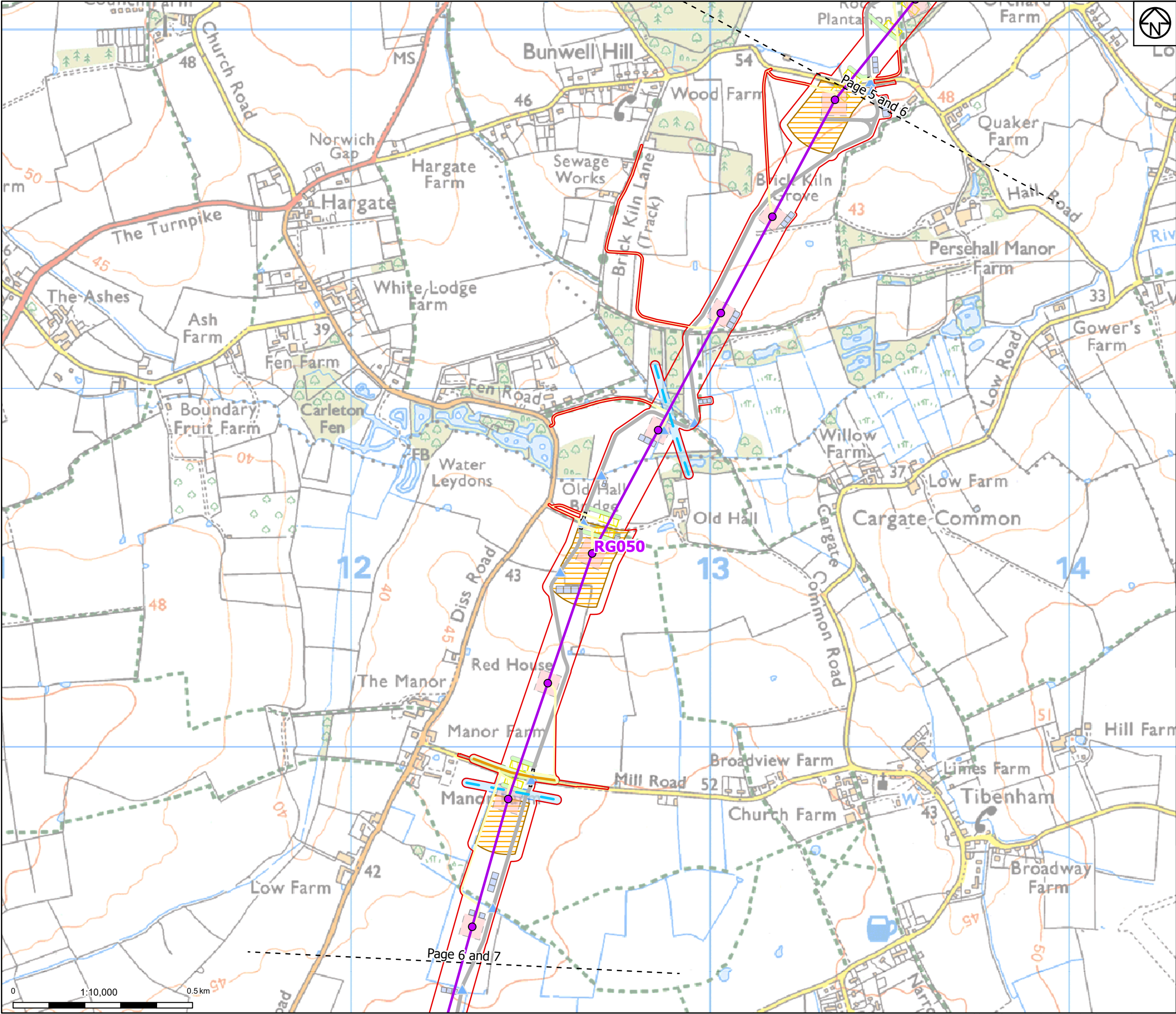
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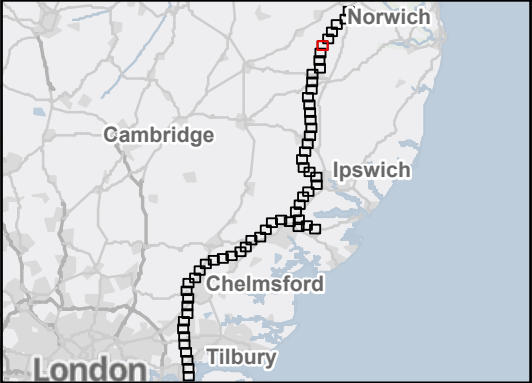
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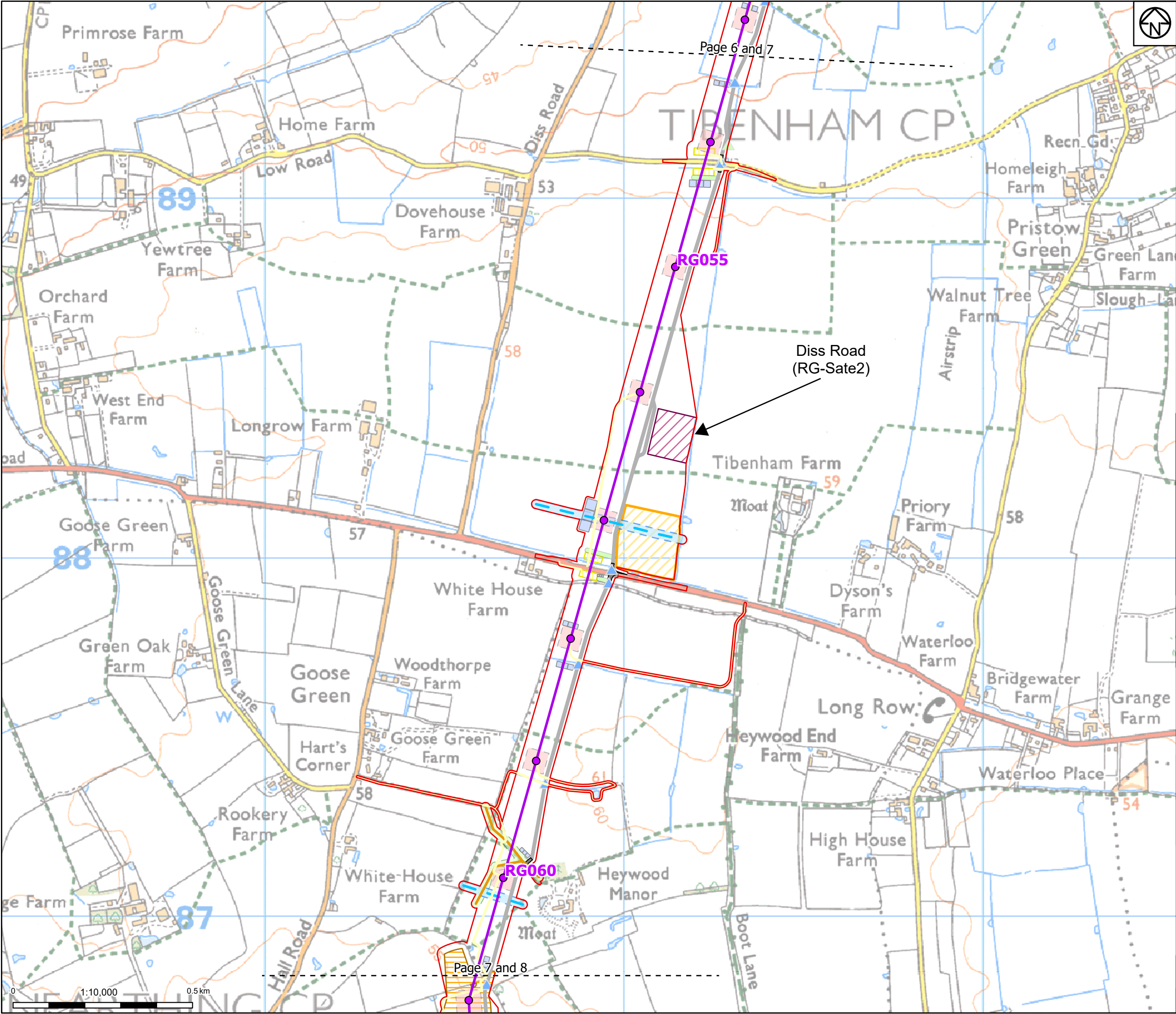
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BT overhead line mitigation

Proposed temporary design details

Satellite construction compound

Proposed overhead line access routes water crossing

Proposed overhead line watercourse crossings

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Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

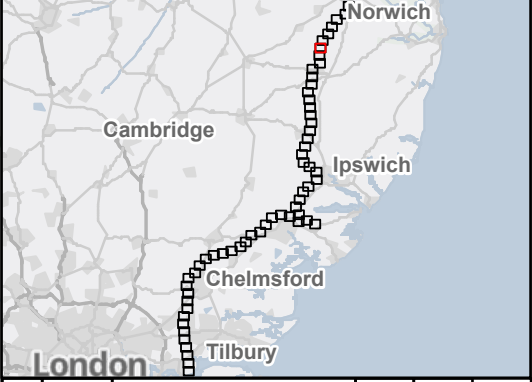
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Proposed BT overhead line mitigation work area

Proposed construction laydown areas

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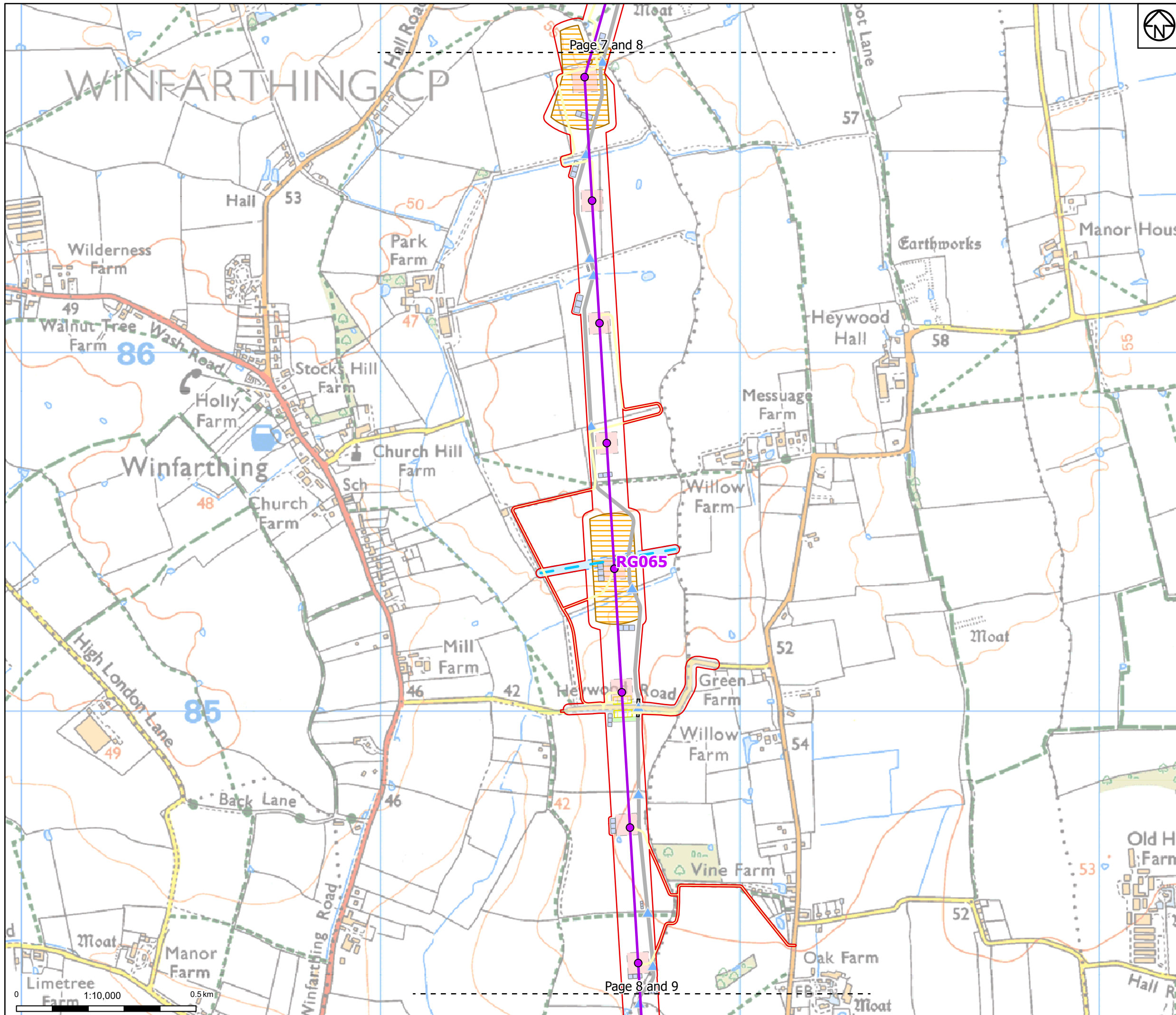
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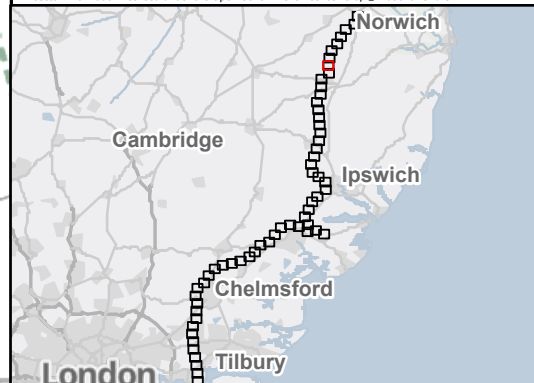
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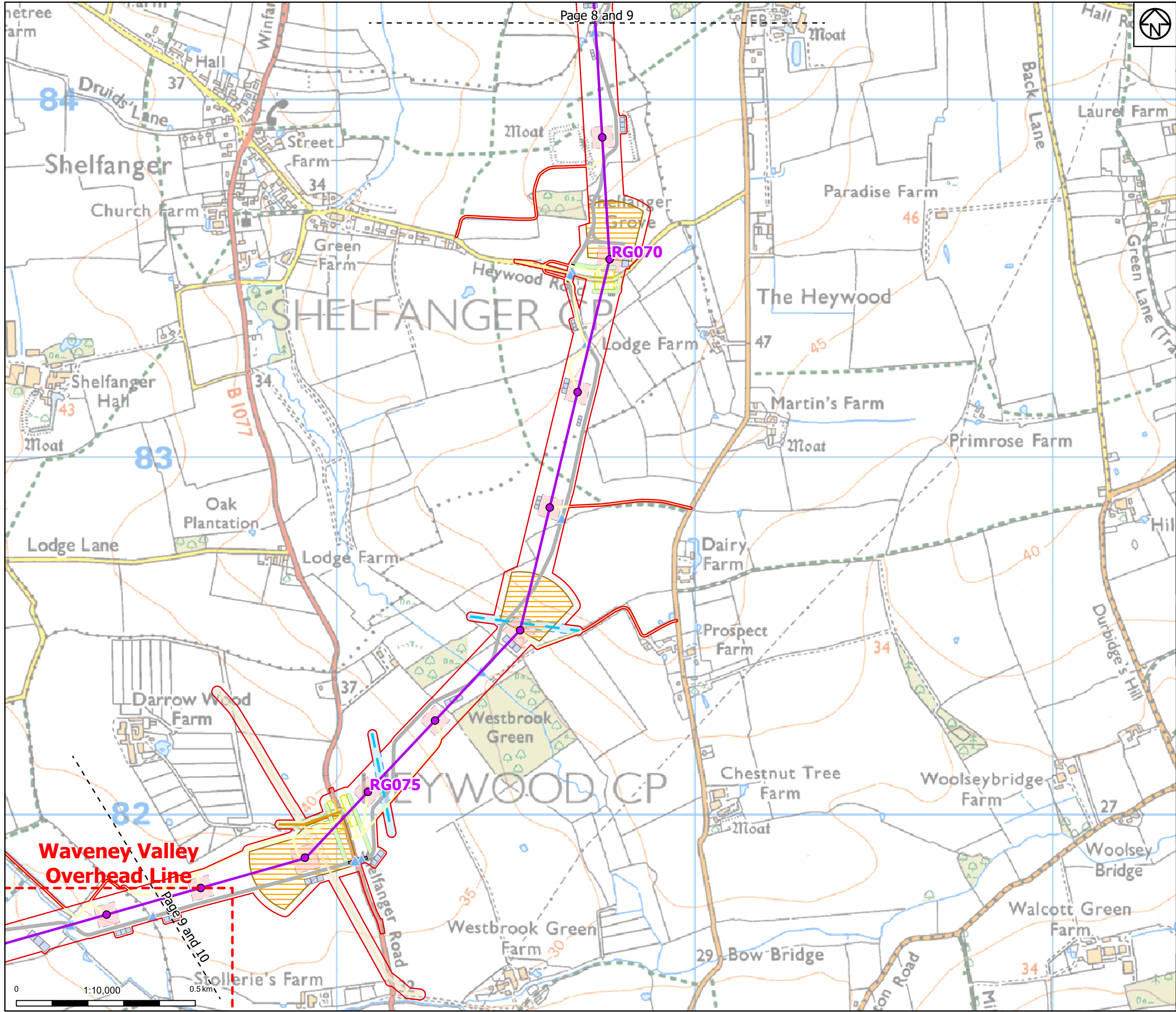
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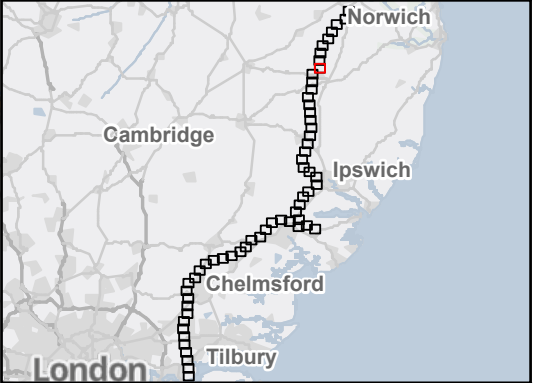
Drawing Number:	10051663-ARC-EGN-ZZ-DR-ZZ-00051	Revision:	B
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- Proposed permanent design details**
  - Proposed pylon position
  - Proposed overhead line alignment
  - Proposed overhead line permanent access roads (no physical works)
  - Proposed 11kV overhead line mitigation required
  - BT overhead line mitigation
  - Pipeline cathodic protection
- Proposed temporary design details**
  - Proposed overhead line access routes water crossing
  - Proposed overhead line construction SuDS basins
  - Proposed site access points
  - Proposed overhead line haul road
  - Proposed overhead line crossing protection access route
  - Proposed crossing protection access route buffer
  - Proposed pylon construction work area
  - Proposed overhead line pulling location
  - Proposed overhead line crossing protection work area
  - Proposed UKPN overhead line mitigation work area (wood pole lines)
  - Proposed BT overhead line mitigation work area
  - Proposed pipeline cathodic protection work area
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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B	June 2024	FOR STATUTORY CONSULTATION	KF	AF	KB
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PROJECT:

Norwich to Tilbury

Title:

Figure 4.1 - Project Description - Proposed Project Design

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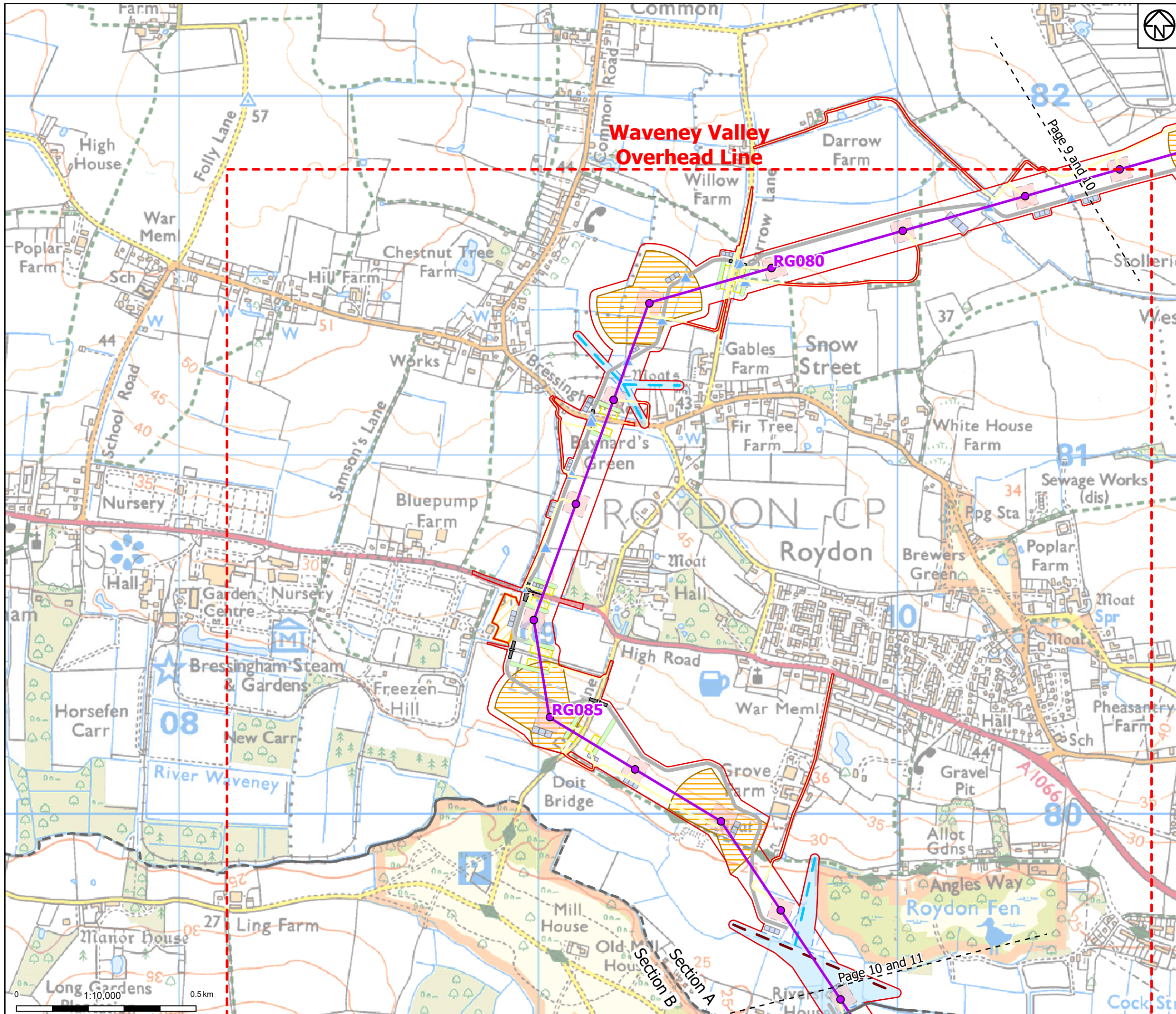
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Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number:  
10051663-ARC-EGN-ZZ-DR-ZZ-00051

Revision:  
B





Draft order limits

Project section line

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

Pipeline cathodic protection

Proposed temporary design details

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed temporary construction haul road

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Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

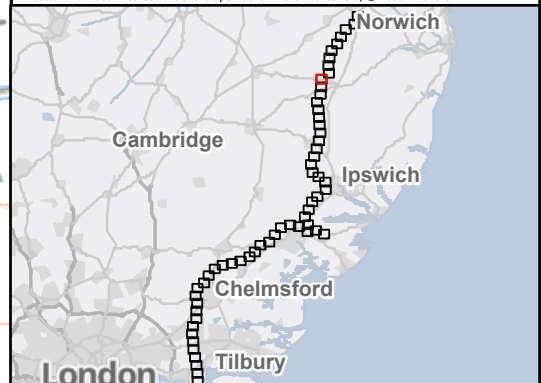
Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed pipeline cathodic protection work area

Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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nationalgrid

PROJECT:  
Norwich to  
Tilbury

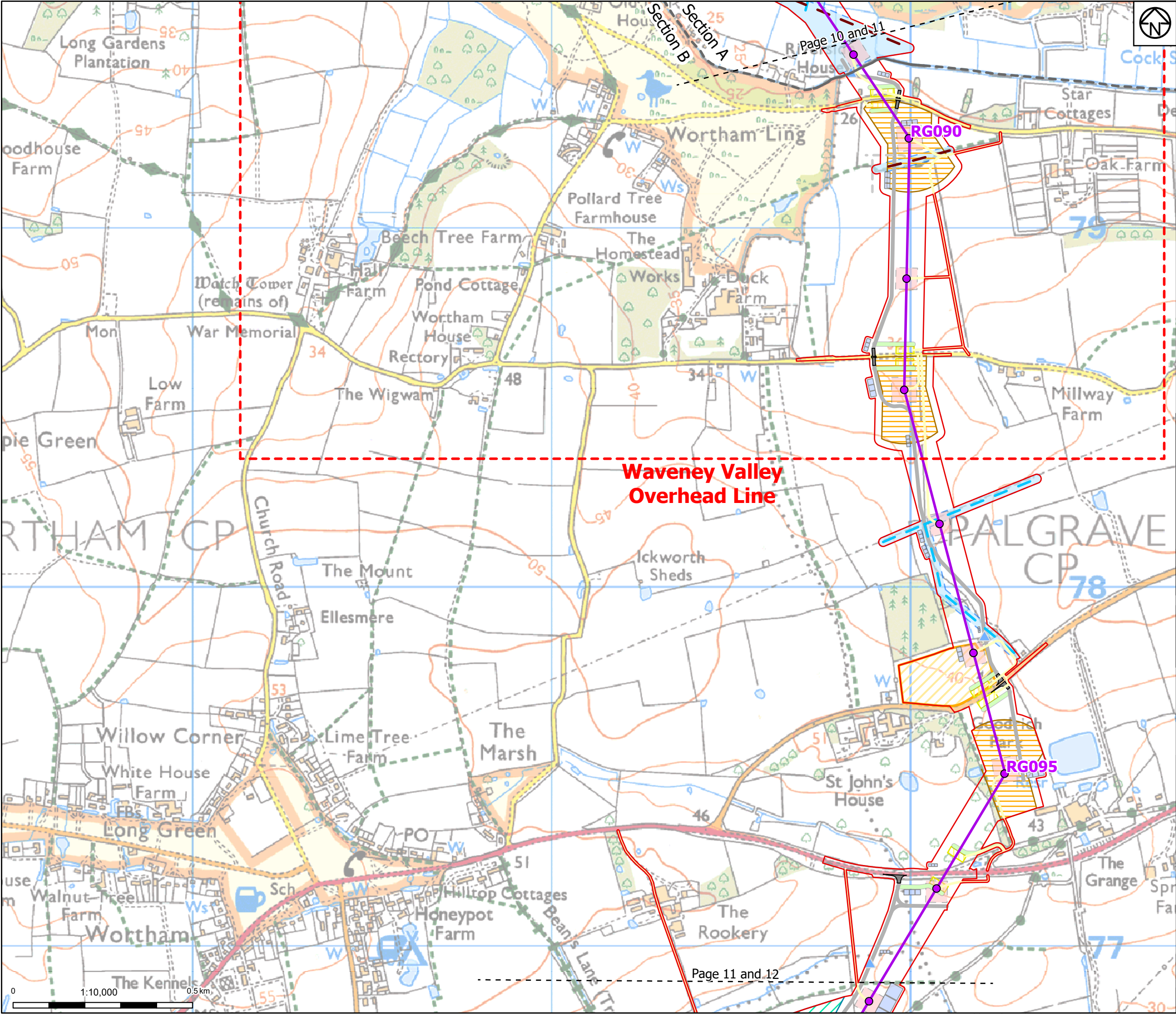
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Figure 4.1 - Project Description -  
Proposed Project Design  
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Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:  
Accepted as Concept Stage

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Draft order limits

Project section line

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

Proposed temporary design details

Main construction compound

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed temporary construction haul road

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

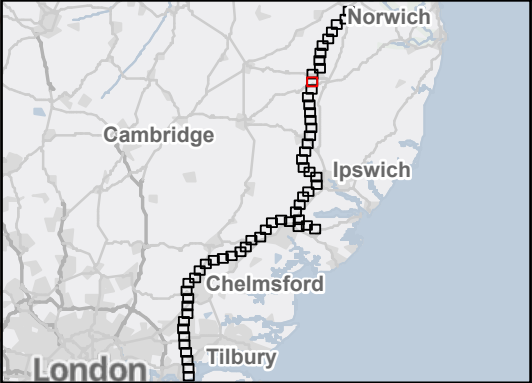
Proposed UKPN tower access

Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

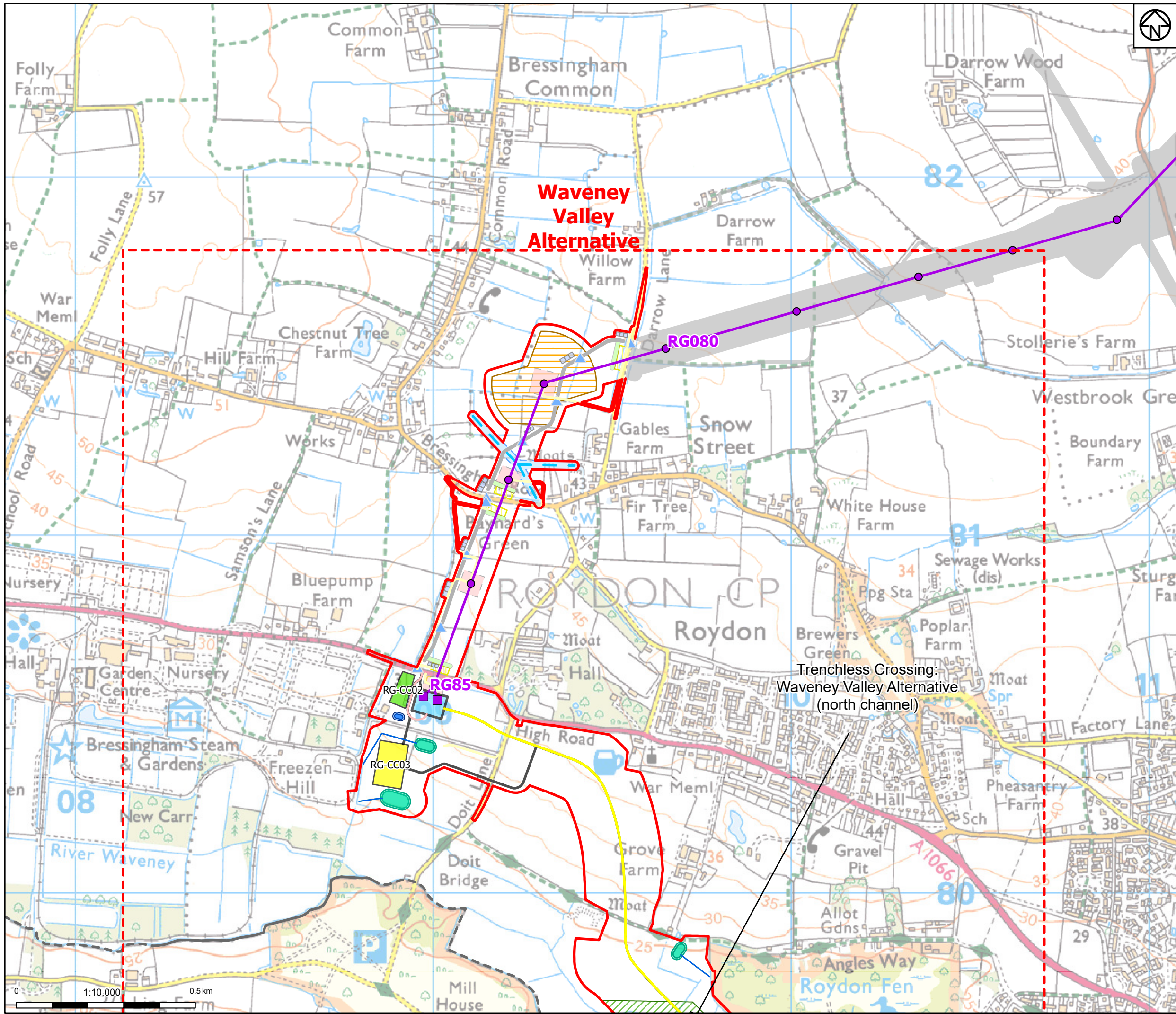
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Figure 4.1 - Project Description -  
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Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
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Scale:	1:10,000	Datum:	AOD
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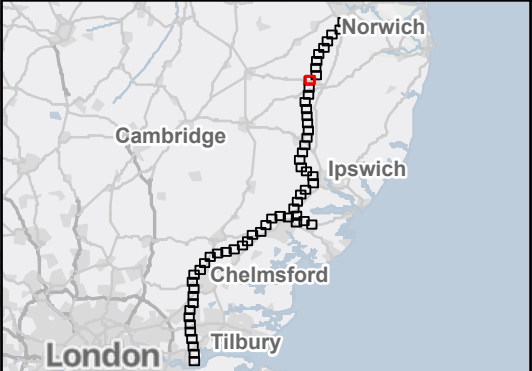


**Legend**

- Draft order limits**
  - Project section line
- Proposed permanent design details**
  - Proposed low duty gantry
  - Proposed pylon position
  - Proposed overhead line alignment
  - Proposed underground cable alignment
  - Proposed overhead line permanent access roads (no physical works)
  - Proposed substation / CSEC permanent access roads
  - Proposed 11kV overhead line mitigation required
  - Proposed cable sealing end compound
  - Proposed trenchless crossing
  - Proposed permanent attenuation drainage channel
  - Proposed permanent attenuation drainage pond
- Proposed temporary design details**
  - Proposed CSEC construction compound
  - Proposed cable construction compound
- Proposed overhead line access routes water crossing**
  - Proposed temporary attenuation drainage
  - Proposed temporary attenuation drainage
  - Proposed overhead line construction SuDS basins
  - Proposed cabling haul road
  - Proposed temporary construction haul road
  - Proposed overhead line haul road
  - Proposed overhead line crossing protection access route
  - Proposed crossing protection access route buffer
  - Proposed pylon construction work area
  - Proposed overhead line pulling location
  - Proposed overhead line crossing protection work area
  - Proposed UKPN overhead line mitigation work area (wood pole lines)

Note: The Proposed Overhead Line Alignment and Proposed Underground Cable Alignment together comprise the 2024 Preferred Draft Alignment.

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**PROJECT:**  
nationalgrid Norwich to Tilbury

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Checked	A. Fell	Date	June 2024
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Suitability Description:  
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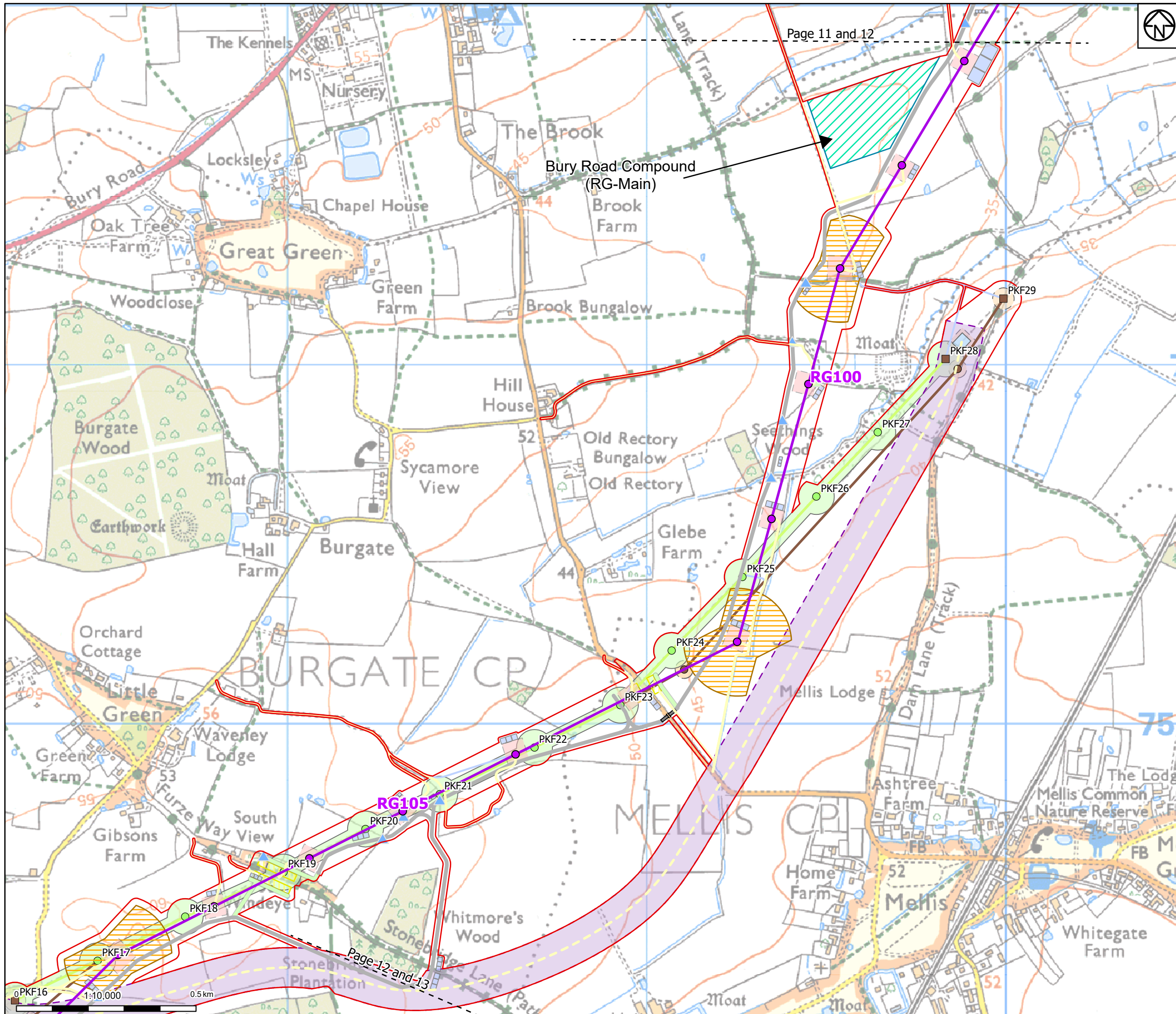
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Revision:  
B









- 
- Proposed permanent design details**

  - Proposed pylon position
  - Proposed overhead line alignment
  - Proposed overhead line permanent access roads (no physical works)
  - Proposed UKPN cable centreline

**Proposed temporary design details**

  - Main construction compound
  - Proposed overhead line access routes water crossing
  - Proposed overhead line watercourse crossings
  - Proposed overhead line construction SuDS basins
  - Proposed site access points
  - Proposed overhead line haul road
  - Proposed overhead line crossing protection access route
  - Proposed crossing protection access route buffer
  - Proposed pylon construction work area
  - Proposed overhead line pulling location
- Proposed overhead line crossing protection work area
  - Proposed UKPN overhead line dismantle towers
  - Proposed UKPN overhead line existing tower (to be modified)
  - Proposed UKPN overhead line temporary structures (only angles)
  - Proposed UKPN dismantle centreline
  - Proposed UKPN temporary diversion centreline
  - Proposed UKPN tower access
  - Proposed UKPN cable construction swathe
  - Proposed UKPN cable construction swathe
  - Proposed UKPN cable sealing end platform
  - Proposed UKPN overhead line temporary works

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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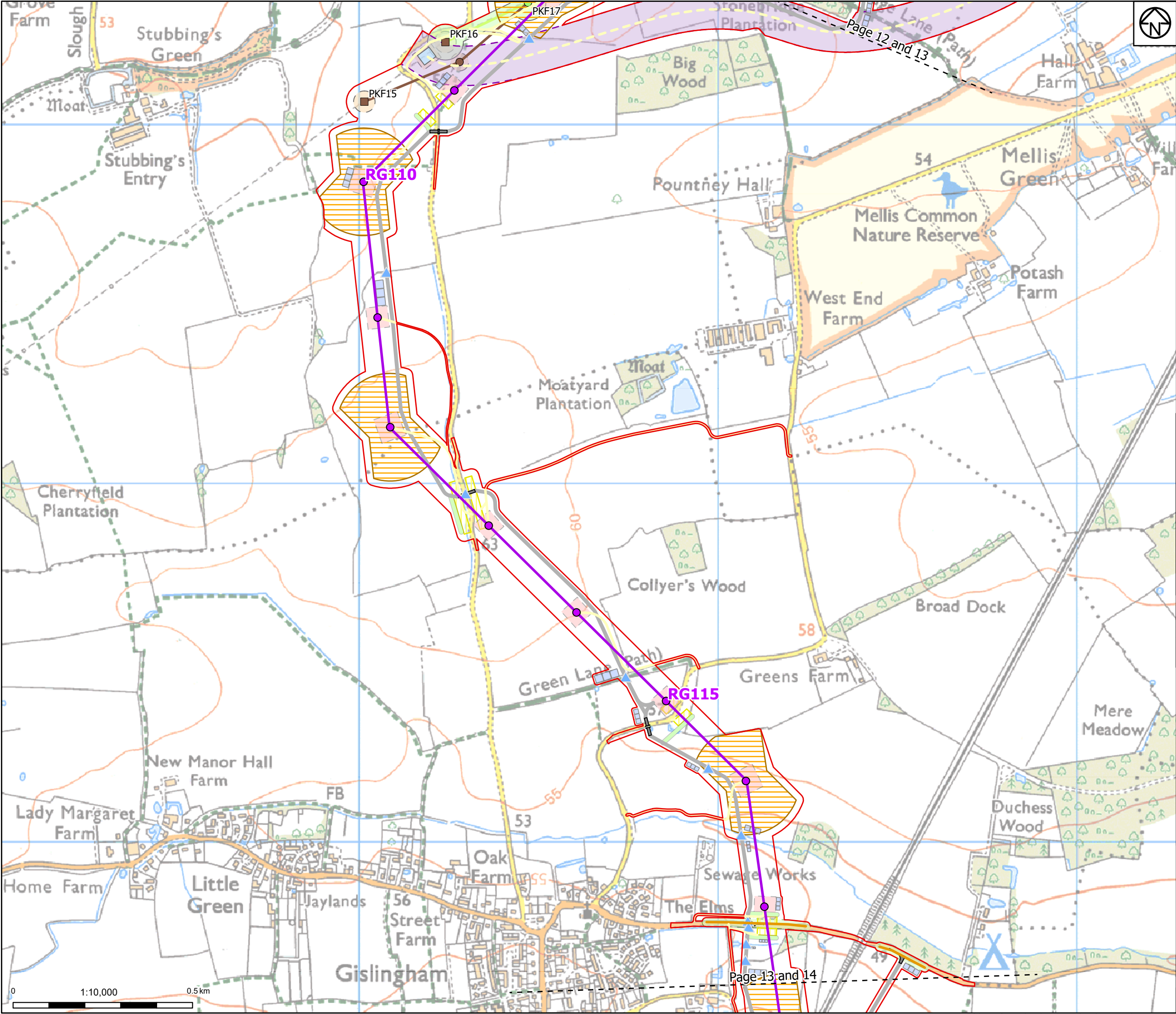
PROJECT:  
nationalgrid Norwich to  
Tilbury

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Figure 4.1 - Project Description -  
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Suitability Code:	A2	Project Number:	10059280
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Accepted as Concept Stage			
Drawing Number: 10051663-ARC-EGN-ZZ-DR-ZZ-00051			Revision: B





Draft order limits

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed UKPN cable centreline

BT overhead line mitigation

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line dismantle towers

Proposed UKPN overhead line existing tower (to be modified)

Proposed UKPN overhead line temporary structures (only angles)

Proposed UKPN dismantle centreline

Proposed UKPN temporary diversion centreline

Proposed UKPN cable construction swathe

Proposed UKPN cable construction swathe

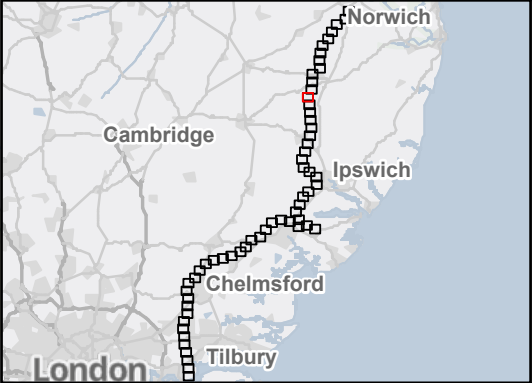
Proposed UKPN cable sealing end platform

Proposed UKPN overhead line temporary works

Proposed BT overhead line mitigation work area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

Norwich to Tilbury

Title:  
**Figure 4.1 - Project Description - Proposed Project Design**  
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Designed	J. Glynn	Date	June 2024
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Approved	K. Burrows	Date	June 2024
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Suitability Description:

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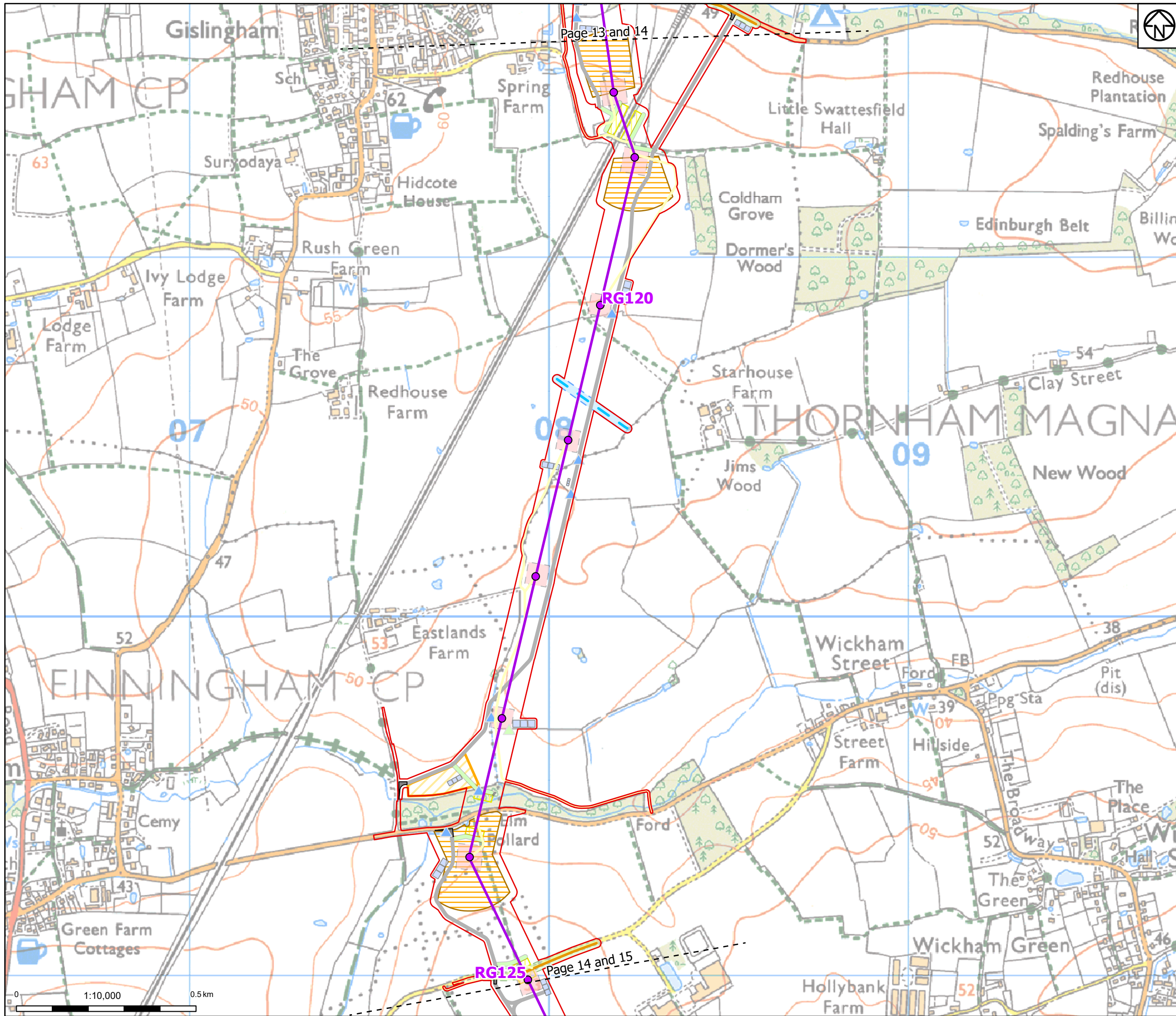
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Revision:

B





Draft order limits

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

BT overhead line mitigation

Proposed temporary design details

Proposed overhead line access routes water crossing

Proposed overhead line watercourse crossings

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed BT overhead line mitigation work area

Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

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Norwich to Tilbury

Title:

Figure 4.1 - Project Description - Proposed Project Design  
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Approved	K. Burrows	Date	June 2024
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Original Size:	A3	Grid:	OS
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Suitability Description:

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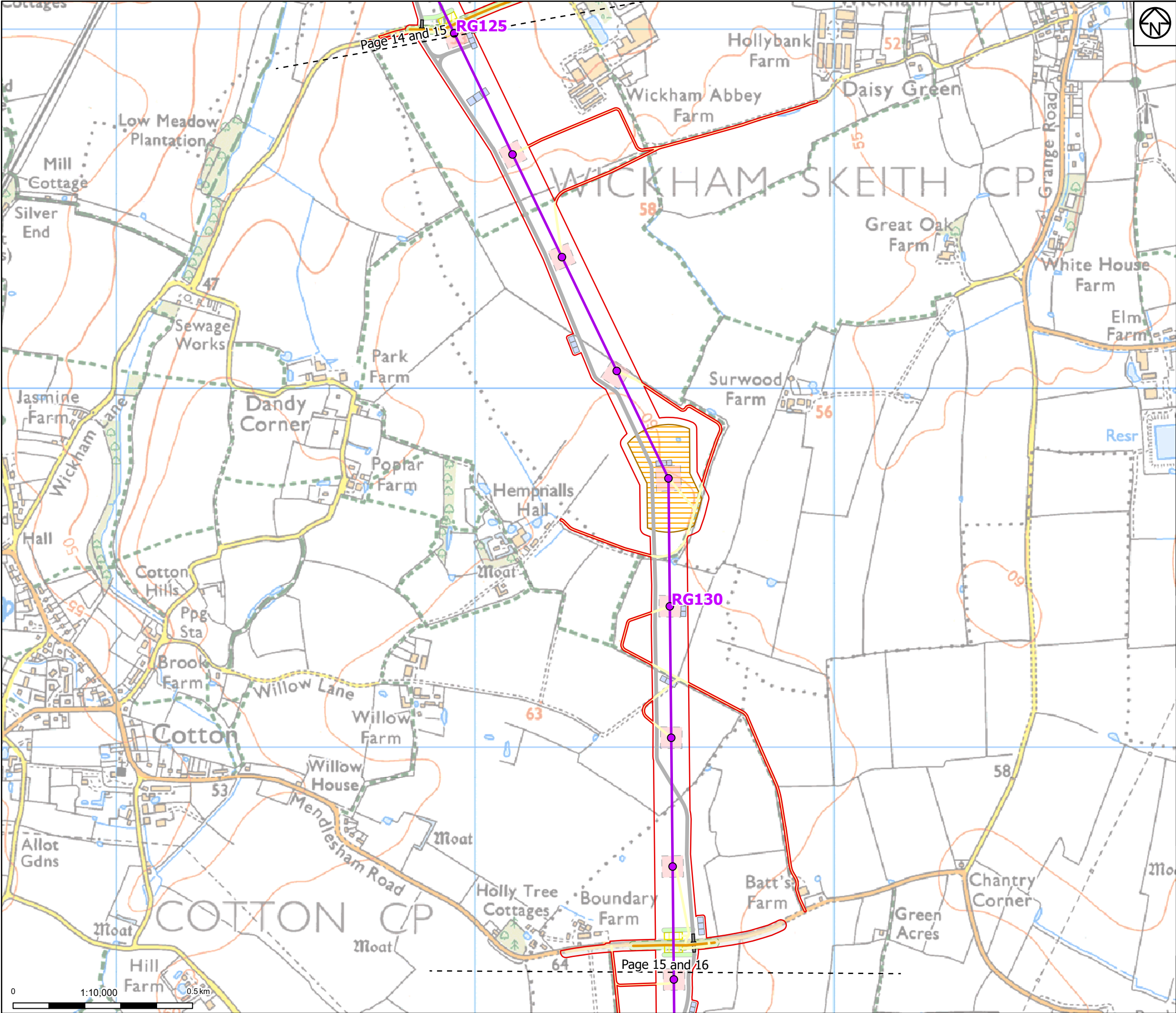
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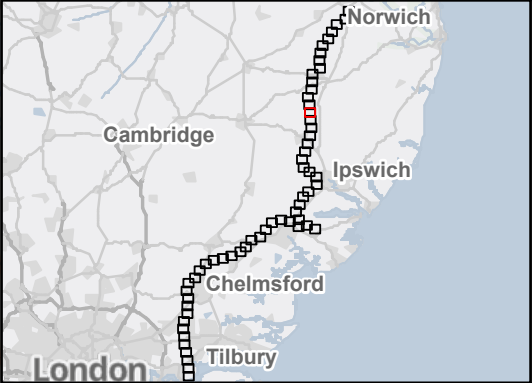
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- Proposed overhead line alignment
- Proposed overhead line permanent access roads (no physical works)
- BT overhead line mitigation
- Pipeline cathodic protection

**Proposed temporary design details**

- Proposed overhead line construction SuDS basins
- Proposed site access points
- Proposed overhead line haul road
- Proposed overhead line crossing protection access route
- Proposed crossing protection access route buffer
- Proposed pylon construction working area
- Proposed overhead line pulling location
- Proposed overhead line crossing protection work area
- Proposed BT overhead line mitigation work area
- Proposed pipeline cathodic protection work area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

Title:

Figure 4.1 - Project Description -  
Proposed Project Design  
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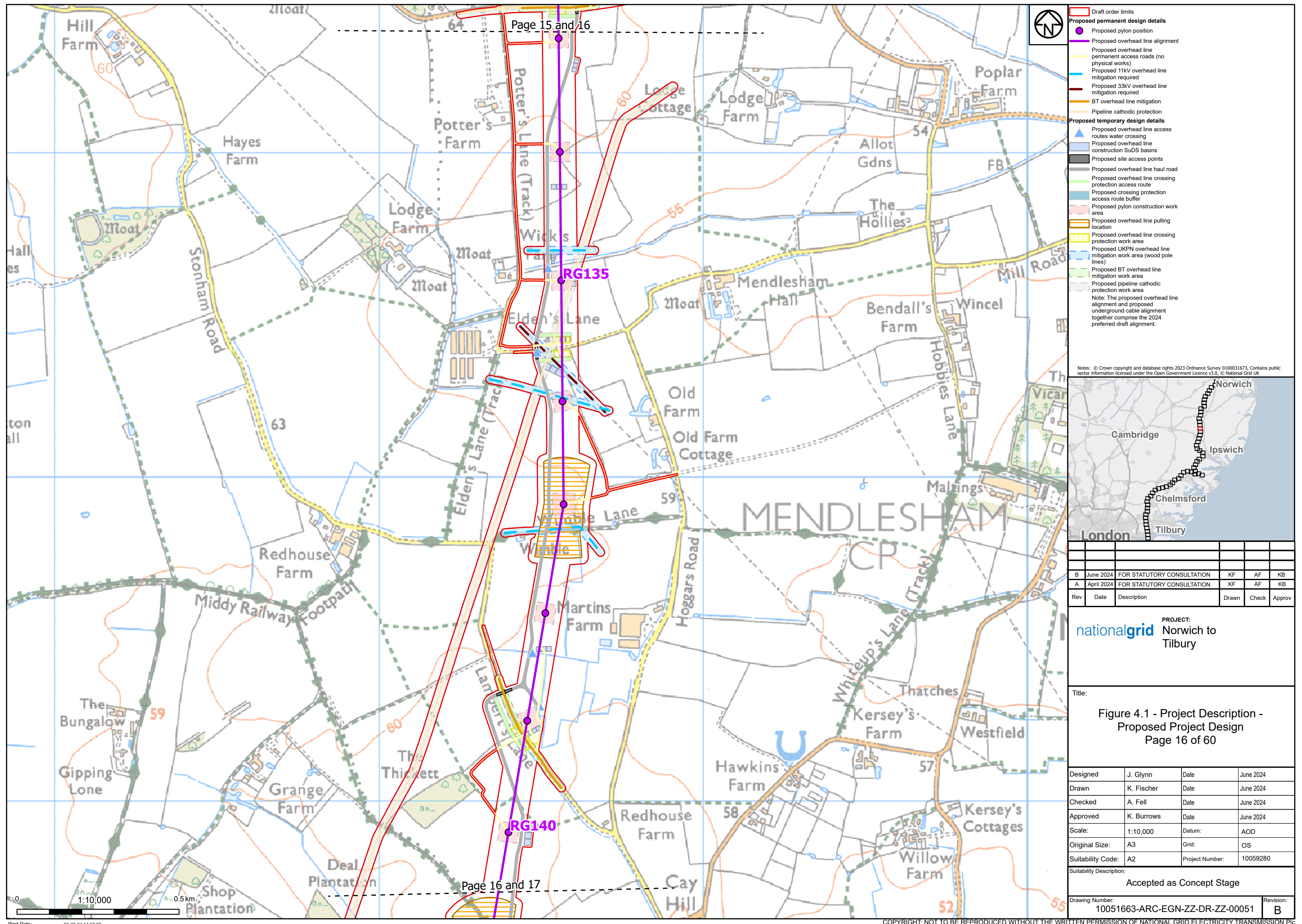
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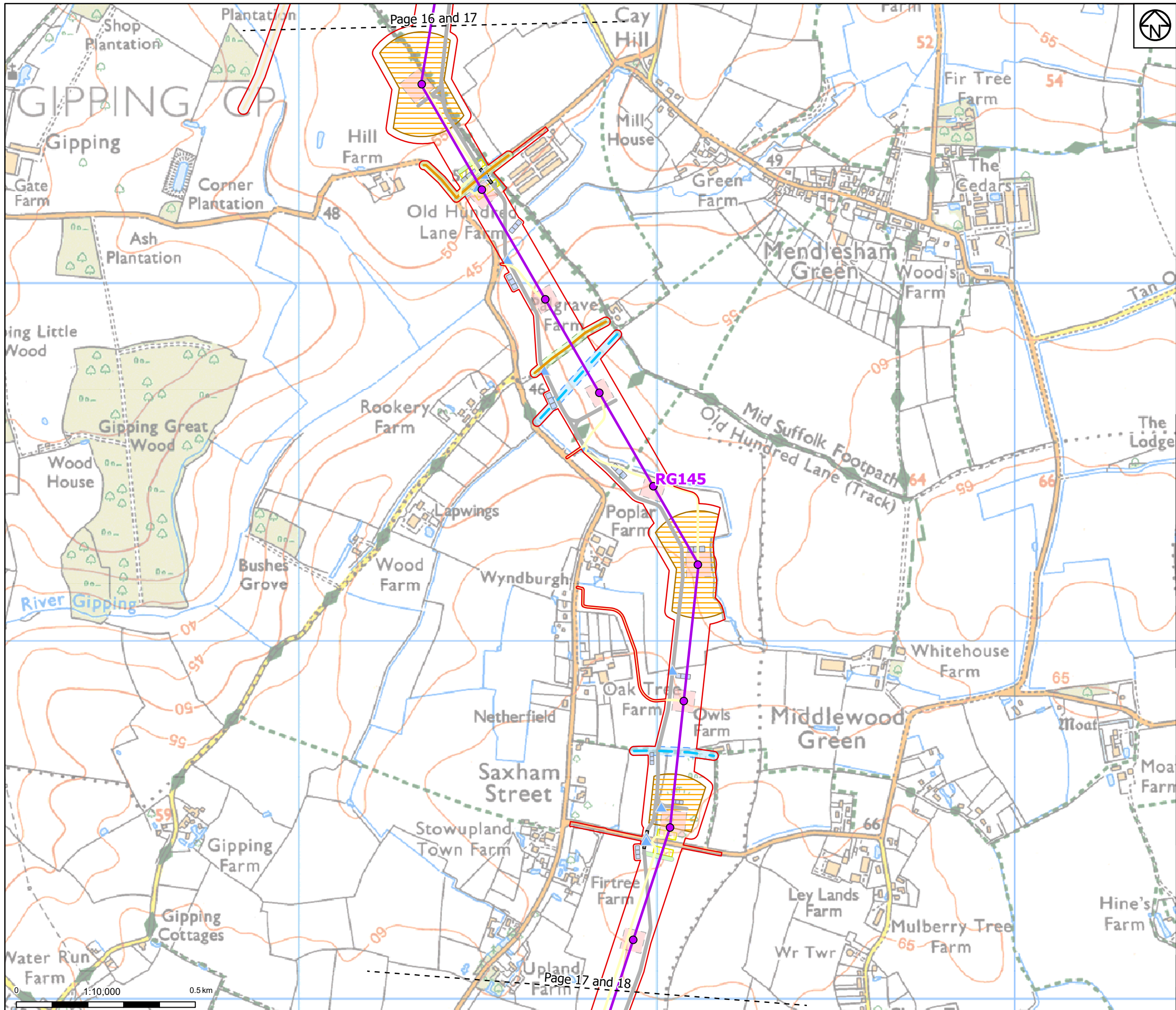
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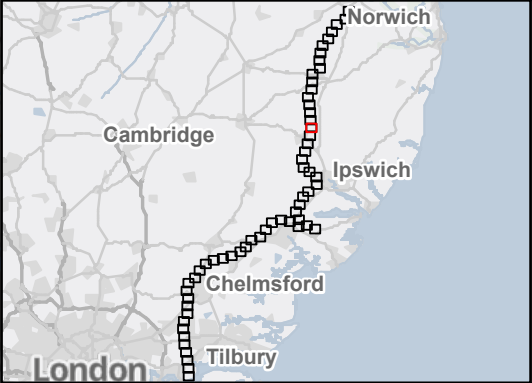
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- Proposed overhead line alignment
- Proposed overhead line permanent access roads (no physical works)
- Proposed 11kV overhead line mitigation required
- BT overhead line mitigation
- Pipeline cathodic protection

**Proposed temporary design details**

- Proposed overhead line access routes water crossing
- Proposed overhead line construction SuDS basins
- Proposed site access points
- Proposed overhead line haul road
- Proposed overhead line crossing protection access route
- Proposed crossing protection access route buffer
- Proposed pylon construction work area
- Proposed overhead line pulling location
- Proposed overhead line crossing protection work area
- Proposed UKPN overhead line mitigation work area (wood pole lines)
- Proposed BT overhead line mitigation work area
- Proposed pipeline cathodic protection work area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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Norwich to  
Tilbury

Title:  
  
Figure 4.1 - Project Description -  
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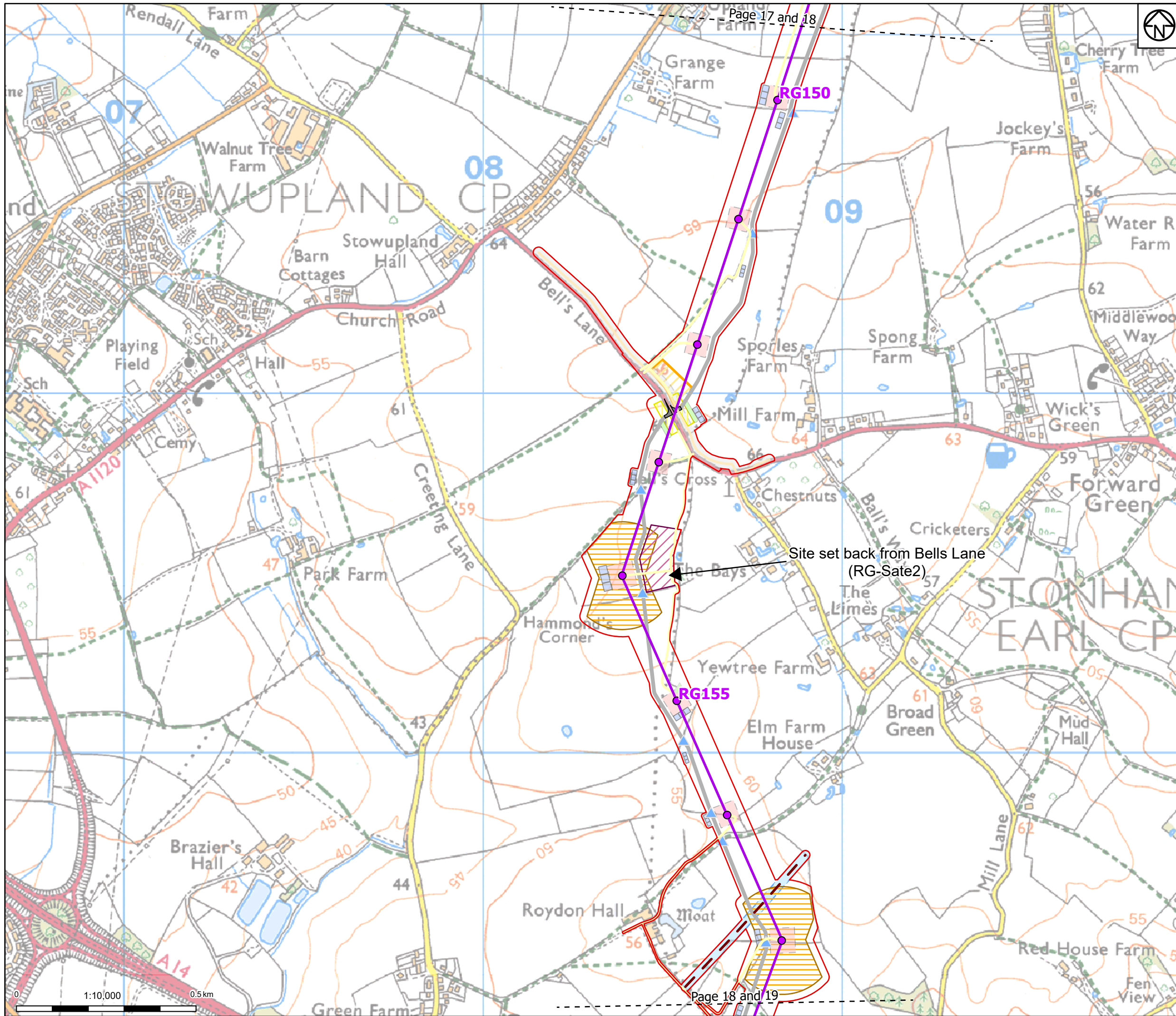
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Revision:  
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**Proposed permanent design details**

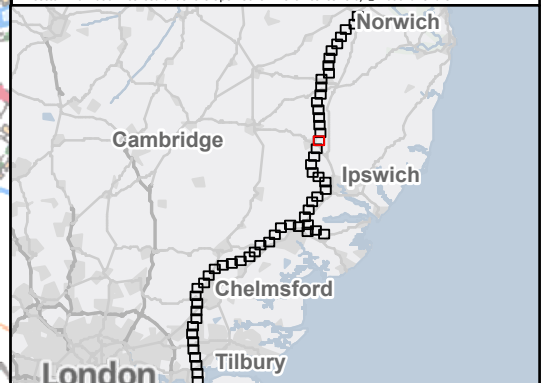
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- Proposed overhead line alignment
- Proposed overhead line permanent access roads (no physical works)
- Proposed 33kV overhead line mitigation required
- Pipeline cathodic protection

**Proposed temporary design details**

- Satellite construction compound
- Proposed overhead line access routes water crossing
- Proposed overhead line watercourse crossings
- Proposed overhead line construction SuDS basins
- Proposed site access points
- Proposed overhead line haul road
- Proposed overhead line crossing protection access route
- Proposed crossing protection access route buffer
- Proposed pylon construction work area
- Proposed overhead line pulling location
- Proposed overhead line crossing protection work area
- Proposed UKPN overhead line mitigation work area (wood pole lines)
- Proposed pipeline cathodic protection work area
- Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

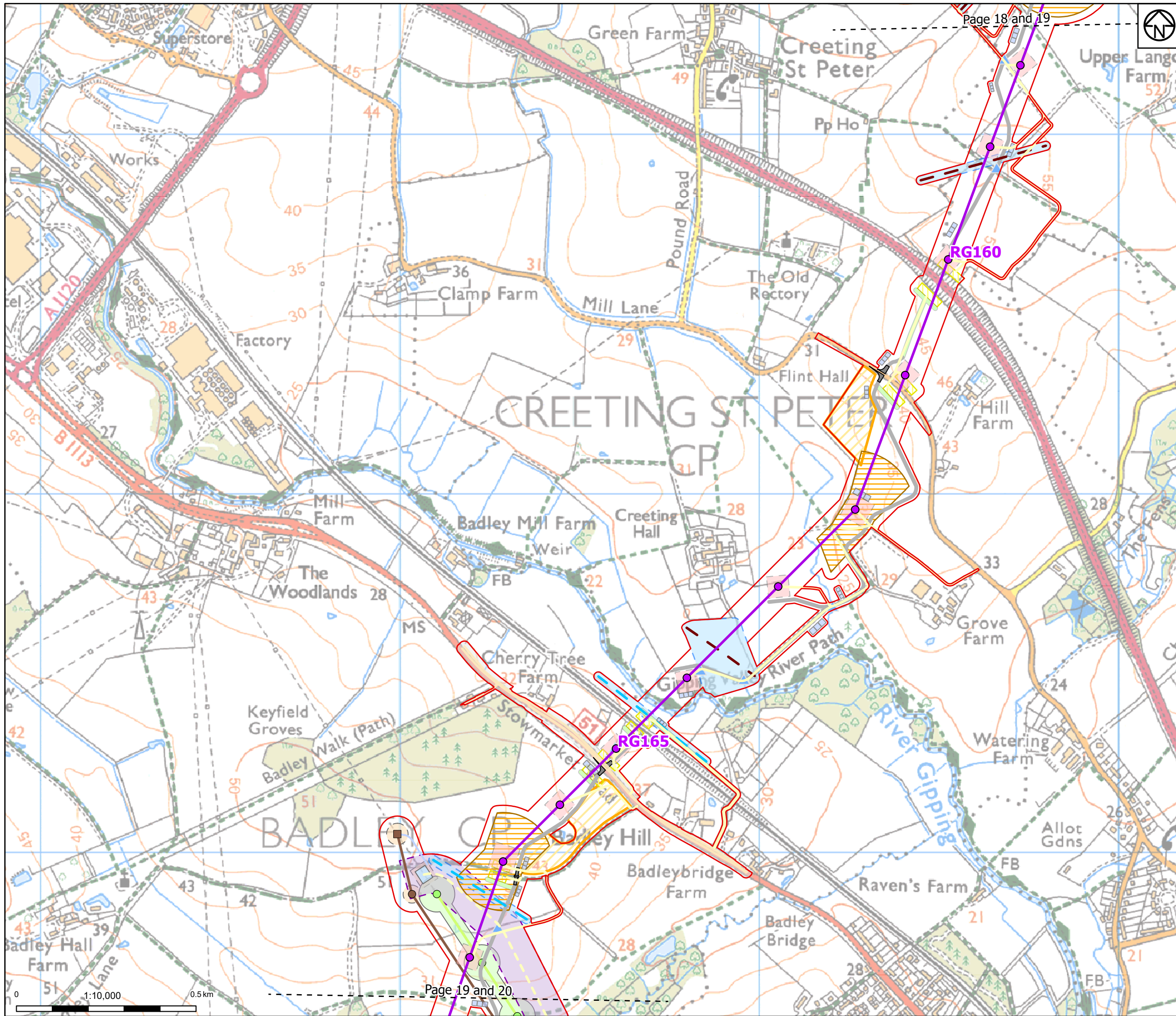
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:  
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Draft order limits

Proposed permanent design details

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

Proposed UKPN cable centreline

Pipeline cathodic protection

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line dismantle towers

Proposed UKPN overhead line existing tower (to be modified)

Proposed UKPN overhead line temporary structures (only angles)

Proposed UKPN dismantle centreline

Proposed UKPN temporary diversion centreline

Proposed UKPN tower access

Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed UKPN cable construction swathe

Proposed UKPN cable construction swathe

Proposed UKPN cable sealing end platform

Proposed UKPN overhead line temporary works

Proposed pipeline cathodic protection work area

Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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Norwich

Ipswich

Chelmsford

Tilbury

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PROJECT:

Norwich to Tilbury

Title:

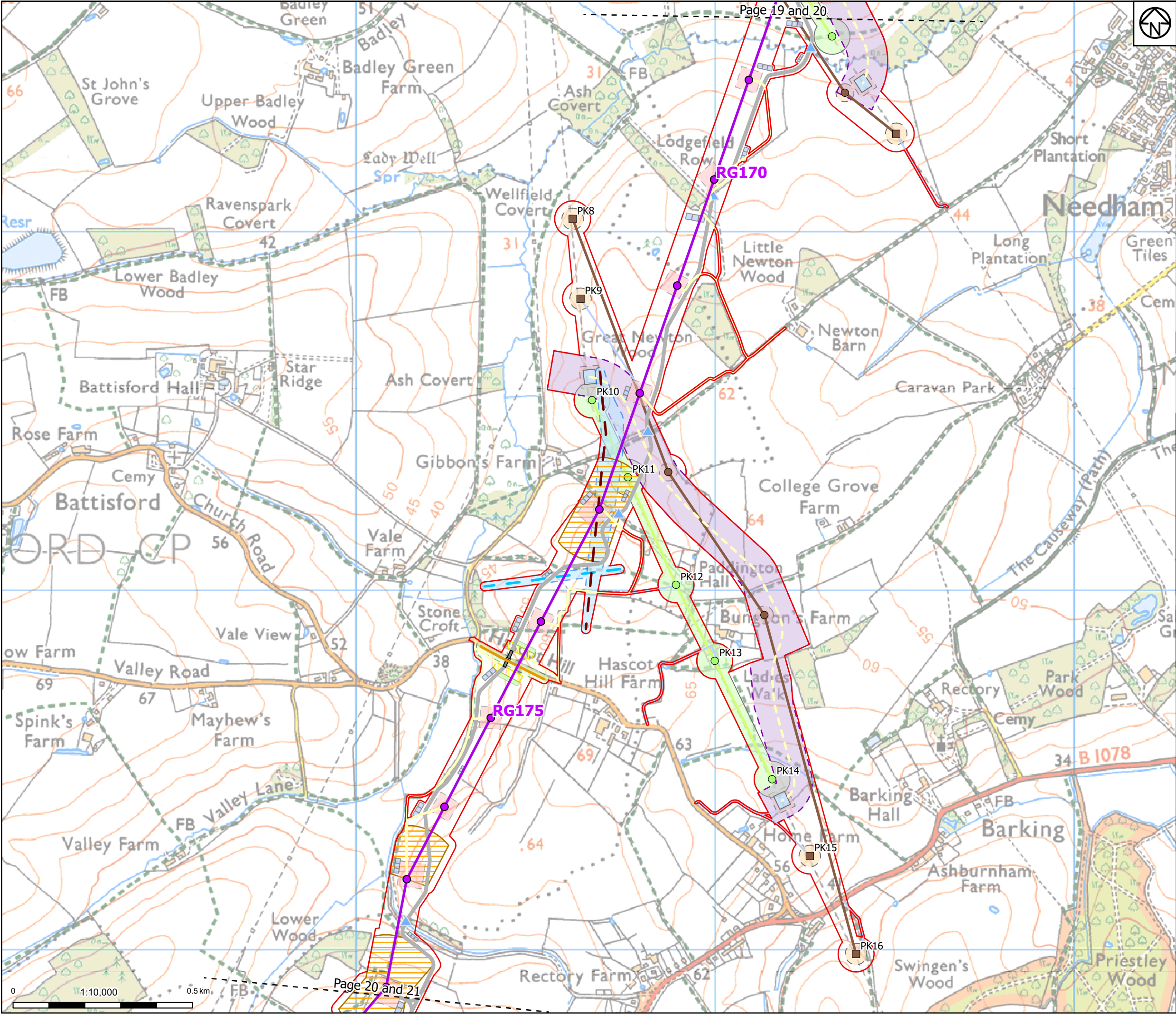
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Draft order limits

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

Proposed UKPN cable centreline

BT overhead line mitigation

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line dismantle towers

Proposed UKPN overhead line existing tower (to be modified)

Proposed UKPN overhead line temporary structures (only angles)

Proposed UKPN dismantle centreline

Proposed UKPN temporary diversion centreline

Proposed UKPN tower access

Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed UKPN cable construction swathe

Proposed UKPN cable construction swathe

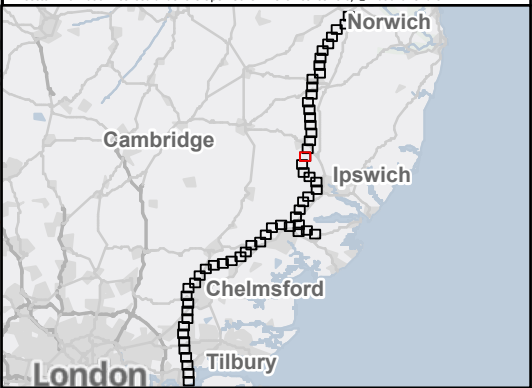
Proposed UKPN cable sealing end platform

Proposed UKPN overhead line temporary works

Proposed BT overhead line mitigation work area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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A	April 2024	FOR STATUTORY CONSULTATION	KF	AF	KB

nationalgrid

PROJECT:  
Norwich to  
Tilbury

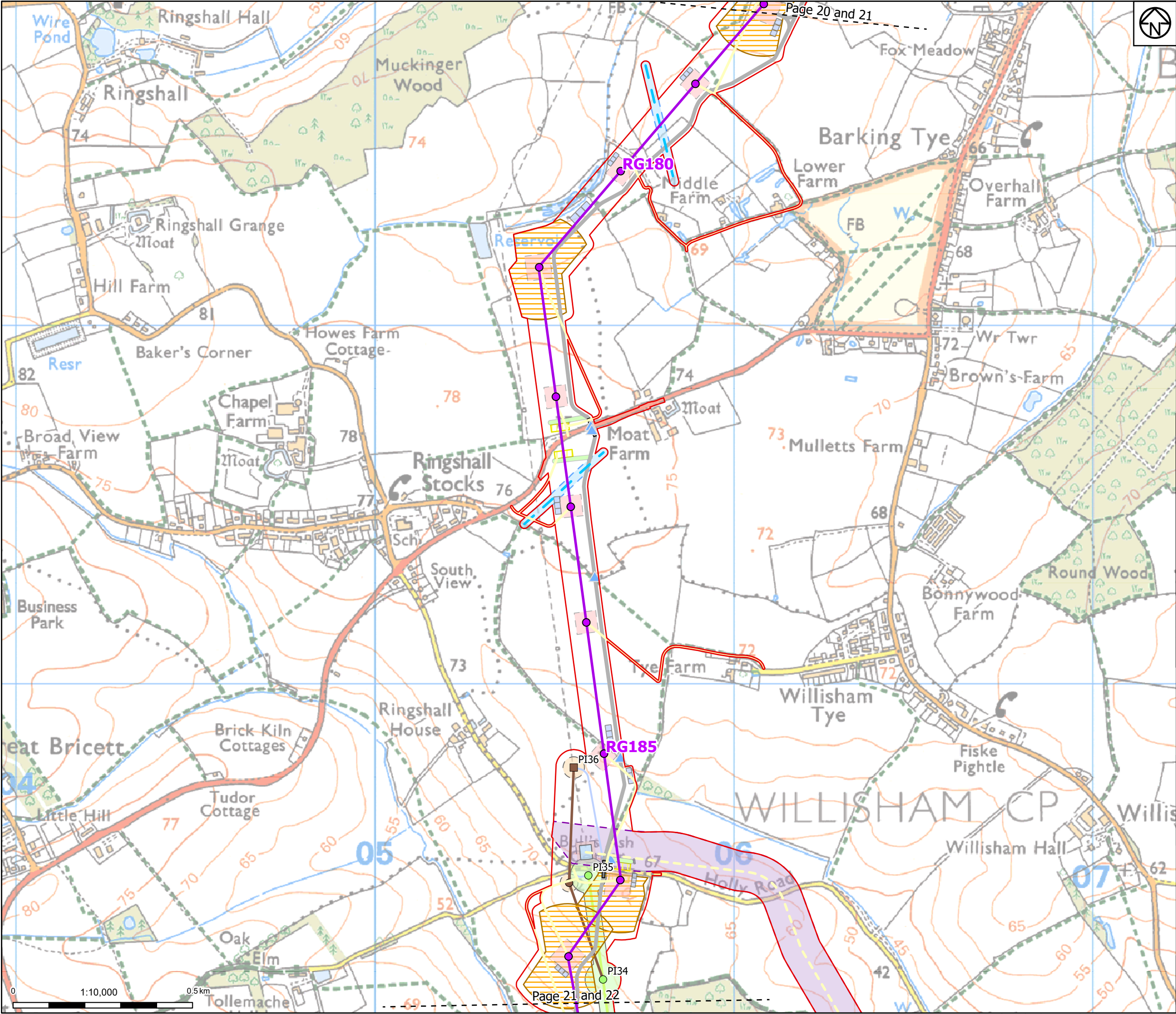
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Figure 4.1 - Project Description -  
Proposed Project Design  
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Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:  
Accepted as Concept Stage

Drawing Number: 10051663-ARC-EGN-ZZ-DR-ZZ-00051	Revision: B
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Draft order limits

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Proposed UKPN cable centreline

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line dismantle towers

Proposed UKPN overhead line existing tower (to be modified)

Proposed UKPN overhead line temporary structures (only angles)

Proposed UKPN dismantle centreline

Proposed UKPN temporary diversion centreline

Proposed UKPN tower access

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Proposed UKPN cable construction swathe

Proposed UKPN cable construction swathe

Proposed UKPN cable sealing end platform

Proposed UKPN overhead line temporary works

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PROJECT:

Norwich to Tilbury

Title:  
**Figure 4.1 - Project Description - Proposed Project Design**  
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Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
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Accepted as Concept Stage

Drawing Number:

10051663-ARC-EGN-ZZ-DR-ZZ-00051

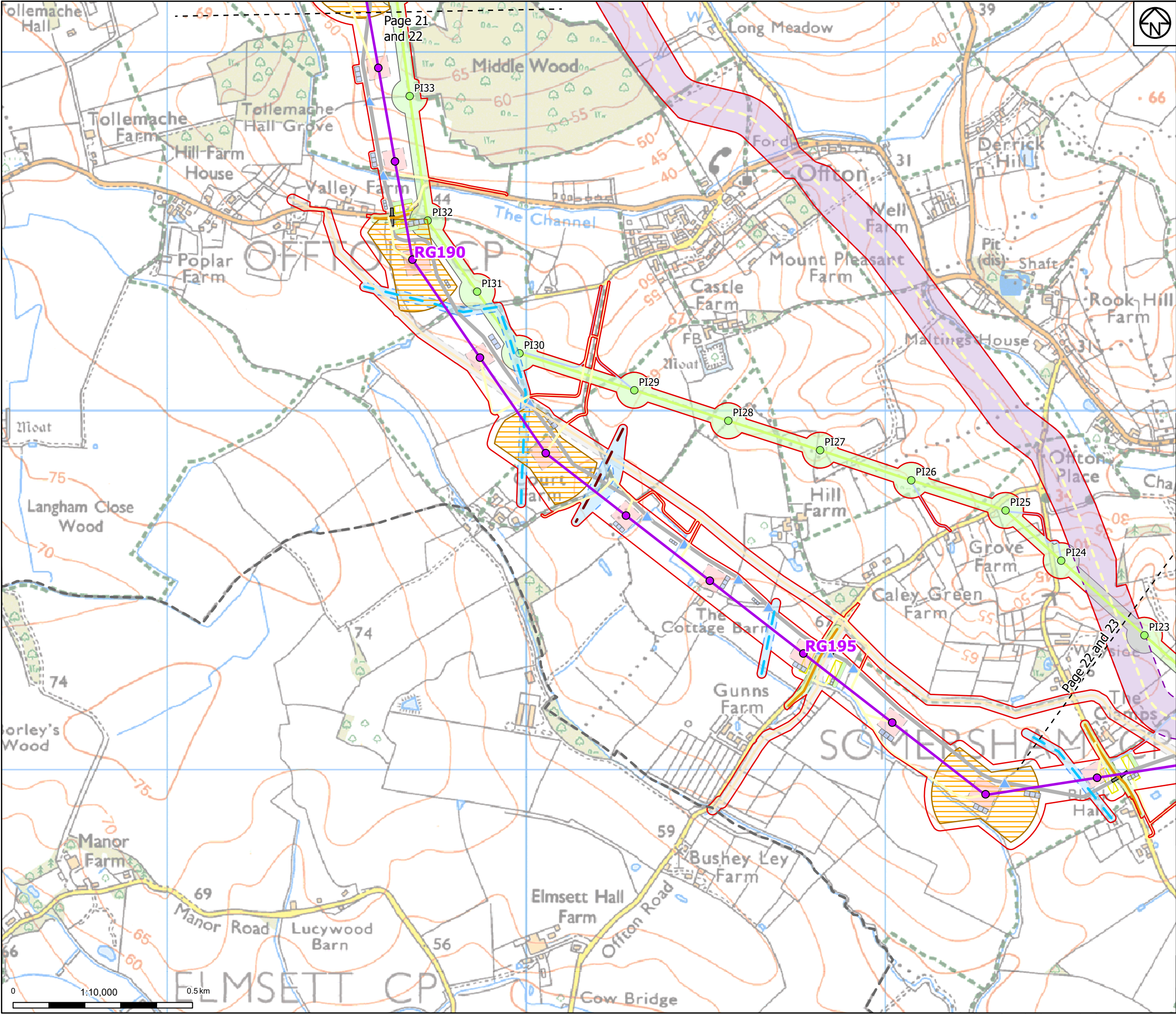
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Print Date: 06-20-24 14:57:15

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- Draft order limits

Project section line

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

Proposed UKPN cable centreline

BT overhead line mitigation

Pipeline cathodic protection

Proposed temporary design details

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

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Proposed UKPN overhead line dismantle towers

Proposed UKPN dismantle centreline

Proposed UKPN tower access

Proposed UKPN overhead line mitigation work area (wood pole lines)

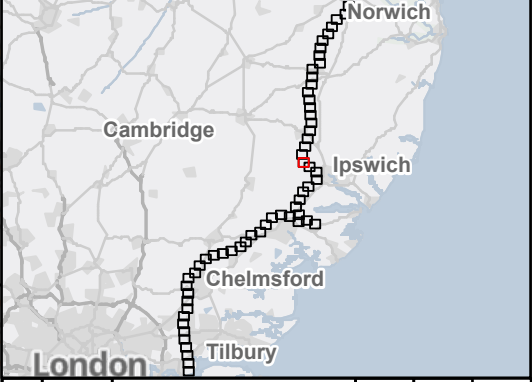
Proposed UKPN cable construction swathe

Proposed UKPN cable sealing end platform

Proposed BT overhead line mitigation work area

Proposed pipeline cathodic protection work area
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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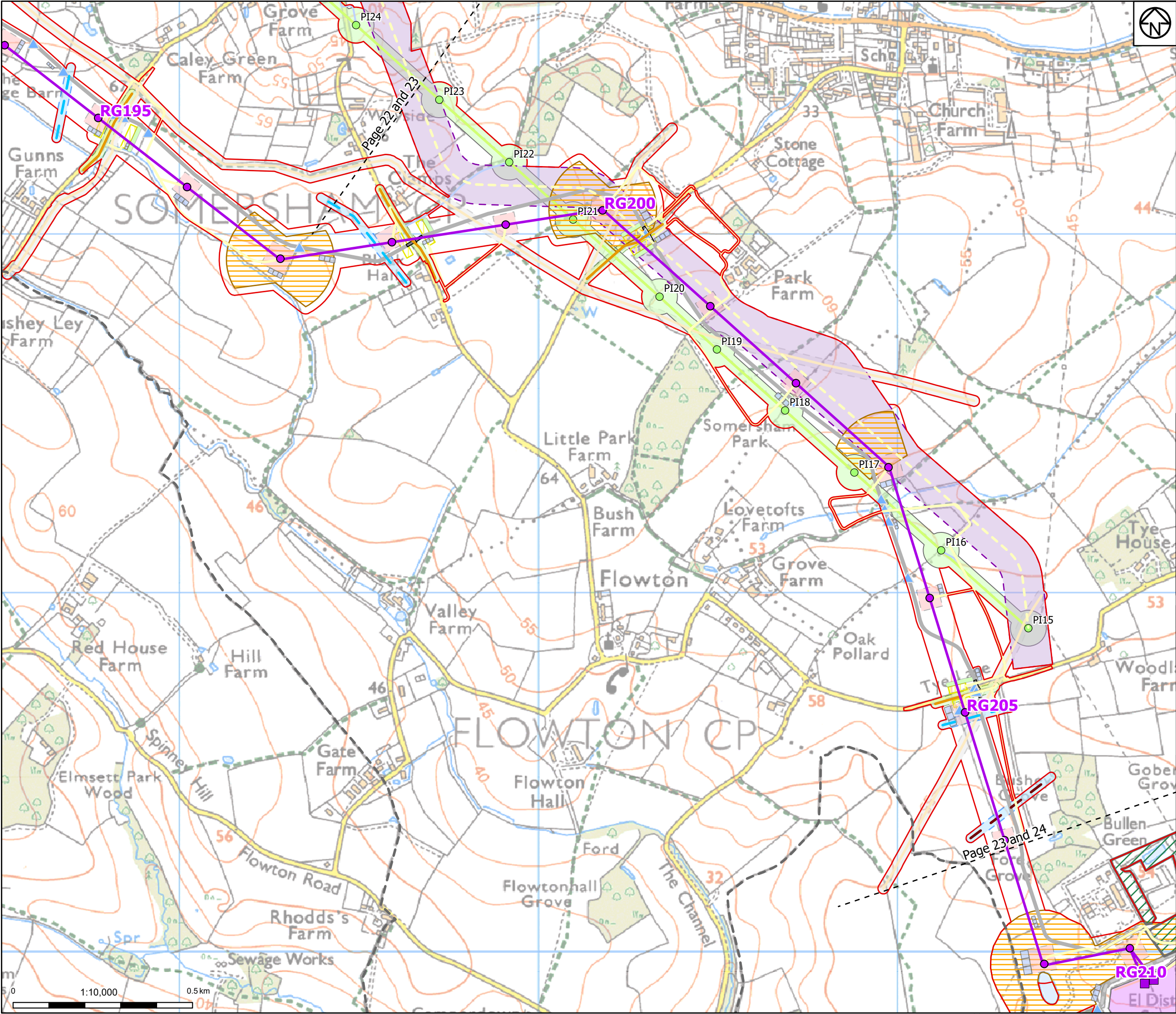
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PROJECT:  
Norwich to  
Tilbury

Title:  
  
Figure 4.1 - Project Description -  
Proposed Project Design  
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Designed	J. Glynn	Date	June 2024
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280
Suitability Description: Accepted as Concept Stage			
Drawing Number: 10051663-ARC-EGN-ZZ-DR-ZZ-00051			Revision: B





Draft order limits

Project section line

Proposed permanent design details

Proposed low duty gantry

Proposed pylon position

Proposed overhead line alignment

Existing substation

Proposed overhead line permanent access roads (no physical works)

Proposed substation / CSEC permanent access roads

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

Proposed UKPN cable centreline

BT overhead line mitigation

Pipeline cathodic protection

Proposed environmental areas

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed temporary construction haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

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Proposed UKPN tower access

Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed UKPN cable construction swathe

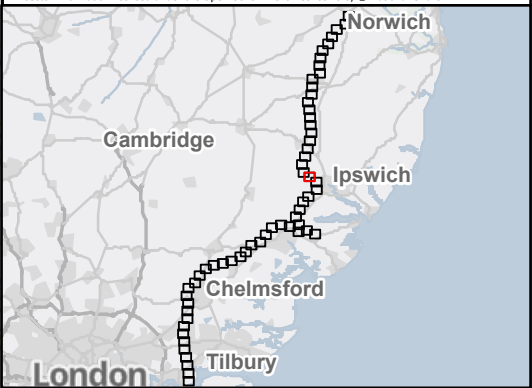
Proposed BT overhead line mitigation work area

Proposed pipeline cathodic protection work area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

North arrow

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PROJECT:  
Norwich to  
Tilbury

Title:  
  
Figure 4.1 - Project Description -  
Proposed Project Design  
Page 23 of 60

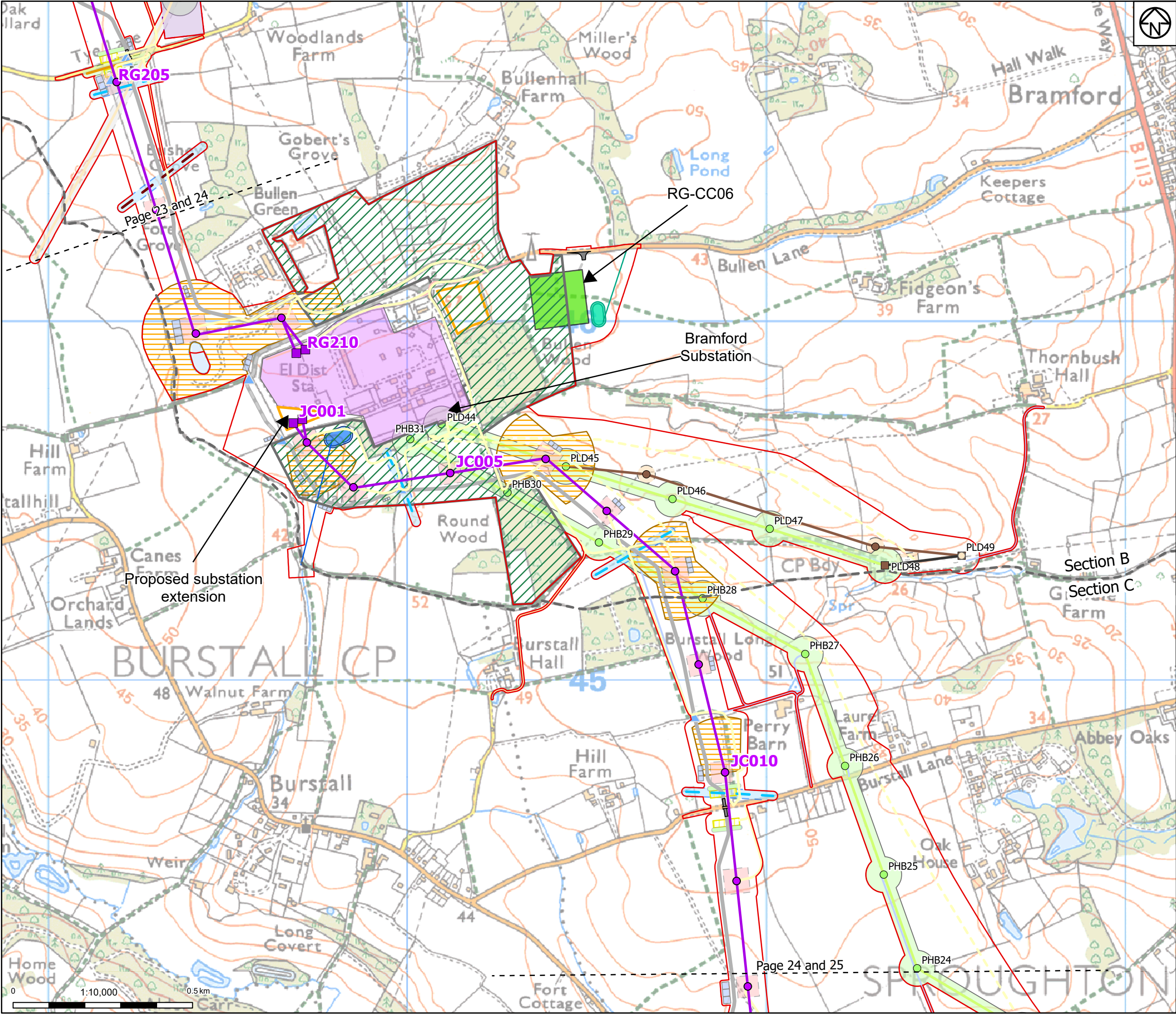
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Revision:  
B





Draft order limits

Project section line

Proposed permanent design details

Proposed low duty gantry

Proposed pylon position

Proposed overhead line alignment

Existing substation

Proposed substation extension

Proposed overhead line permanent access roads (no physical works)

Proposed substation / CSEC permanent access roads

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

Proposed UKPN cable centreline

Proposed UKPN tower permanent OHL assets

BT overhead line mitigation

Pipeline cathodic protection

Proposed environmental areas

Proposed permanent attenuation drainage channel

Proposed permanent attenuation drainage pond

Proposed temporary design details

Proposed CSE compound/ substation construction compound

Proposed overhead line access routes water crossing

Proposed temporary attenuation drainage

Proposed temporary attenuation drainage

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed temporary construction haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line dismantle towers

Proposed UKPN overhead line existing tower (to be modified)

Proposed UKPN overhead line temporary structures (only angles)

Proposed UKPN dismantle centreline

Proposed UKPN existing centreline (modified)

Proposed UKPN temporary diversion centreline

Proposed UKPN tower access

Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed UKPN cable construction swathe

Proposed UKPN diversion order limits

Proposed UKPN cable sealing end platform

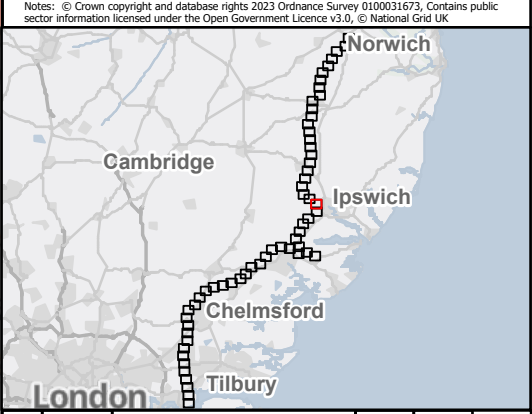
Proposed UKPN overhead line temporary works

Proposed BT overhead line mitigation work area

Proposed pipeline cathodic protection work area

Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.



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PROJECT:

Norwich to Tilbury

Title:  
**Figure 4.1 - Project Description - Proposed Project Design**  
Page 24 of 60

Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
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Accepted as Concept Stage

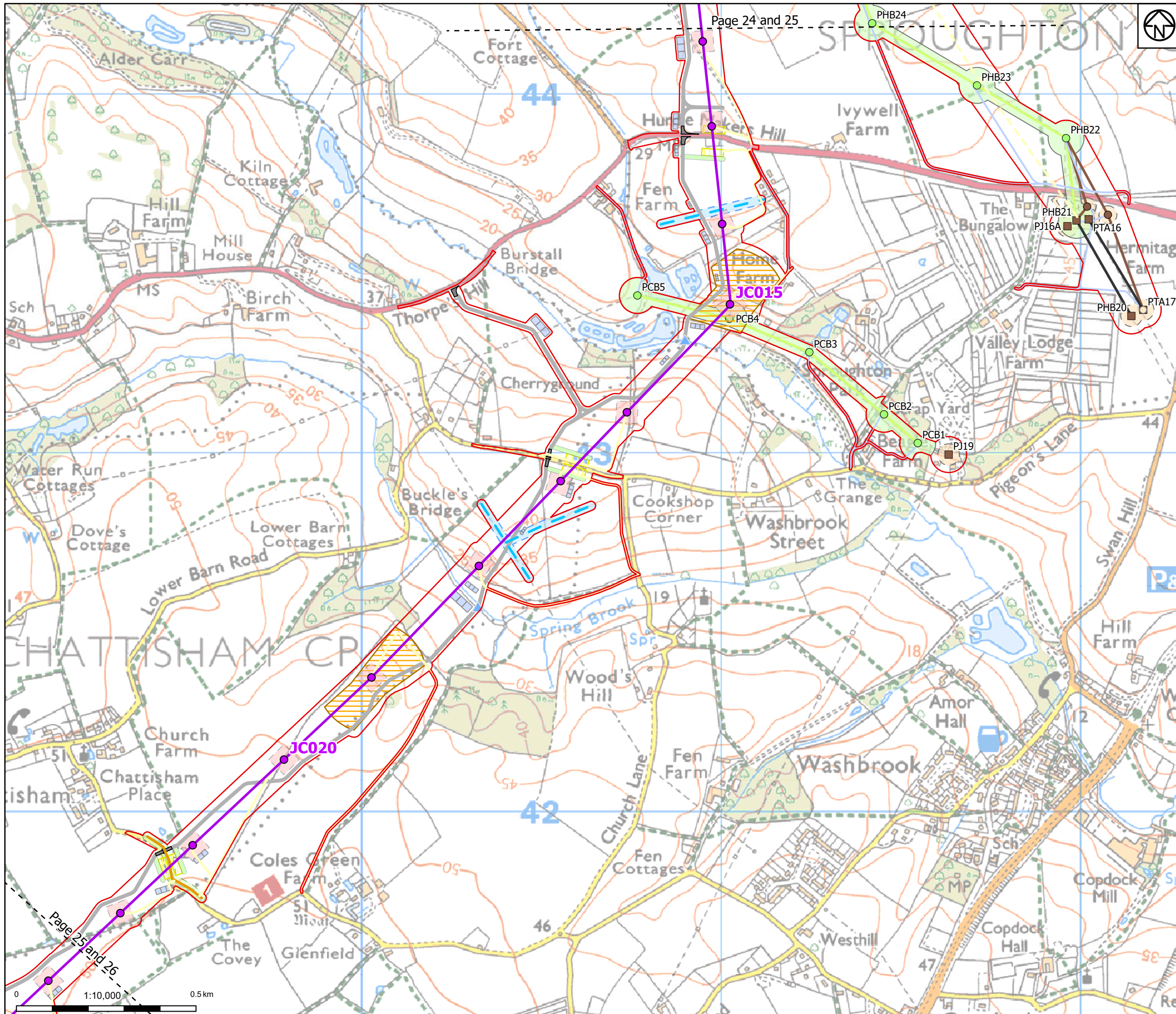
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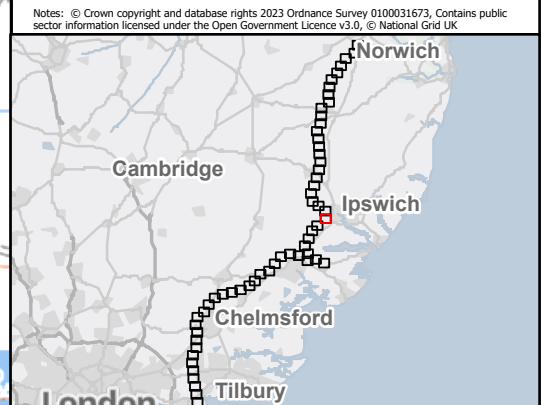
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- Proposed permanent design details**
- Proposed overhead line alignment
  - Proposed overhead line permanent access roads (no physical works)
  - Proposed 11kV overhead line mitigation required
  - Proposed UKPN cable centreline
  - Proposed UKPN tower permanent OHL assets
  - BT overhead line mitigation
  - Proposed overhead line access routes water crossing
  - Proposed overhead line construction SuDS basins
  - Proposed site access points
  - Proposed overhead line haul road
  - Proposed overhead line crossing protection access route
  - Proposed crossing protection access route buffer
  - Proposed pylon construction work area
  - Proposed overhead line pulling location
  - Proposed overhead line crossing protection work area
  - Proposed UKPN overhead line dismantle towers
  - Proposed UKPN overhead line existing tower (to be modified)
  - Proposed UKPN overhead line temporary structures (only angles)
  - Proposed UKPN dismantle centreline
  - Proposed UKPN existing centreline (modified)
  - Proposed UKPN temporary diversion centreline
  - Proposed UKPN tower access
  - Proposed UKPN overhead line mitigation work area (wood pole lines)
  - Proposed UKPN cable sealing end platform
  - Proposed UKPN overhead line temporary works
  - Proposed BT overhead line mitigation work area
- Proposed temporary design details**
- Proposed overhead line access routes water crossing
  - Proposed overhead line construction SuDS basins
  - Proposed site access points
  - Proposed overhead line haul road
  - Proposed overhead line crossing protection access route
  - Proposed crossing protection access route buffer
  - Proposed pylon construction work area
  - Proposed overhead line pulling location
- Notes:**
- Proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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**PROJECT:**  
nationalgrid Norwich to Tilbury

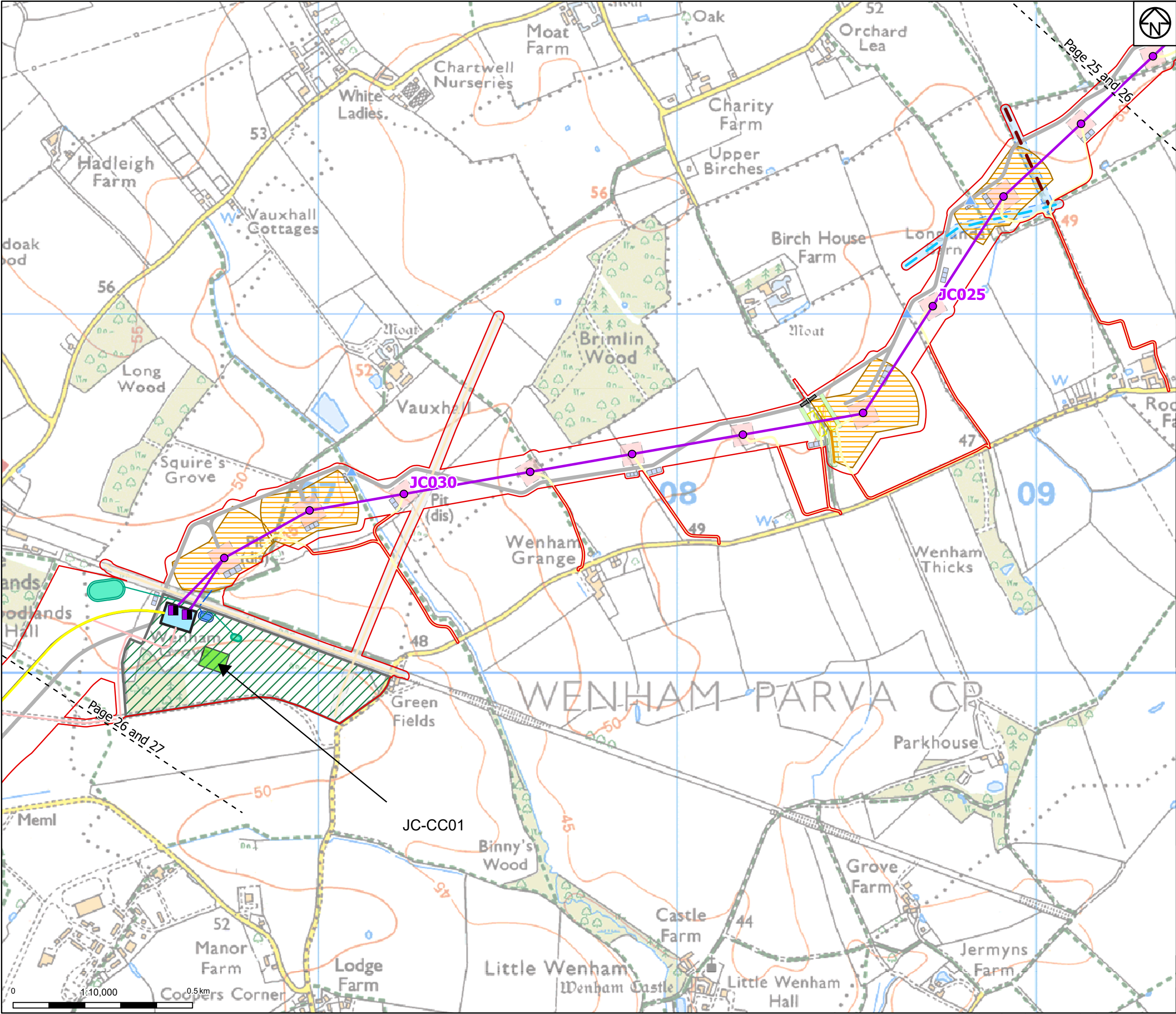
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Figure 4.1 - Project Description - Proposed Project Design  
Page 25 of 60

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Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

**Suitability Description:**  
Accepted as Concept Stage

Drawing Number: 10051663-ARC-EGN-ZZ-DR-ZZ-00051  
Revision: B





Draft order limits

Proposed full line tension gantry

Proposed pylon position

Proposed overhead line alignment

Proposed underground cable alignment

Proposed overhead line permanent access roads (no physical works)

Proposed substation / CSEC permanent access roads

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

BT overhead line mitigation

Pipeline cathodic protection

Proposed cable sealing end compound

Proposed environmental areas

Proposed permanent attenuation drainage channel

Proposed permanent attenuation drainage pond

Proposed temporary design details

Proposed CSE compound/ substation construction compound

Proposed overhead line access routes water crossing

Proposed temporary attenuation drainage

Proposed temporary attenuation drainage

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed cabling haul road

Proposed temporary construction haul road

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Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

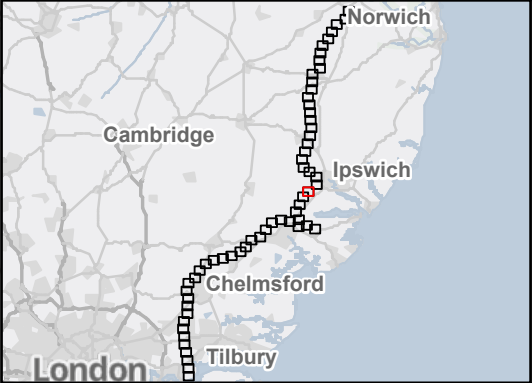
Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed BT overhead line mitigation work area

Proposed pipeline cathodic protection work area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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nationalgrid

PROJECT:  
Norwich to  
Tilbury

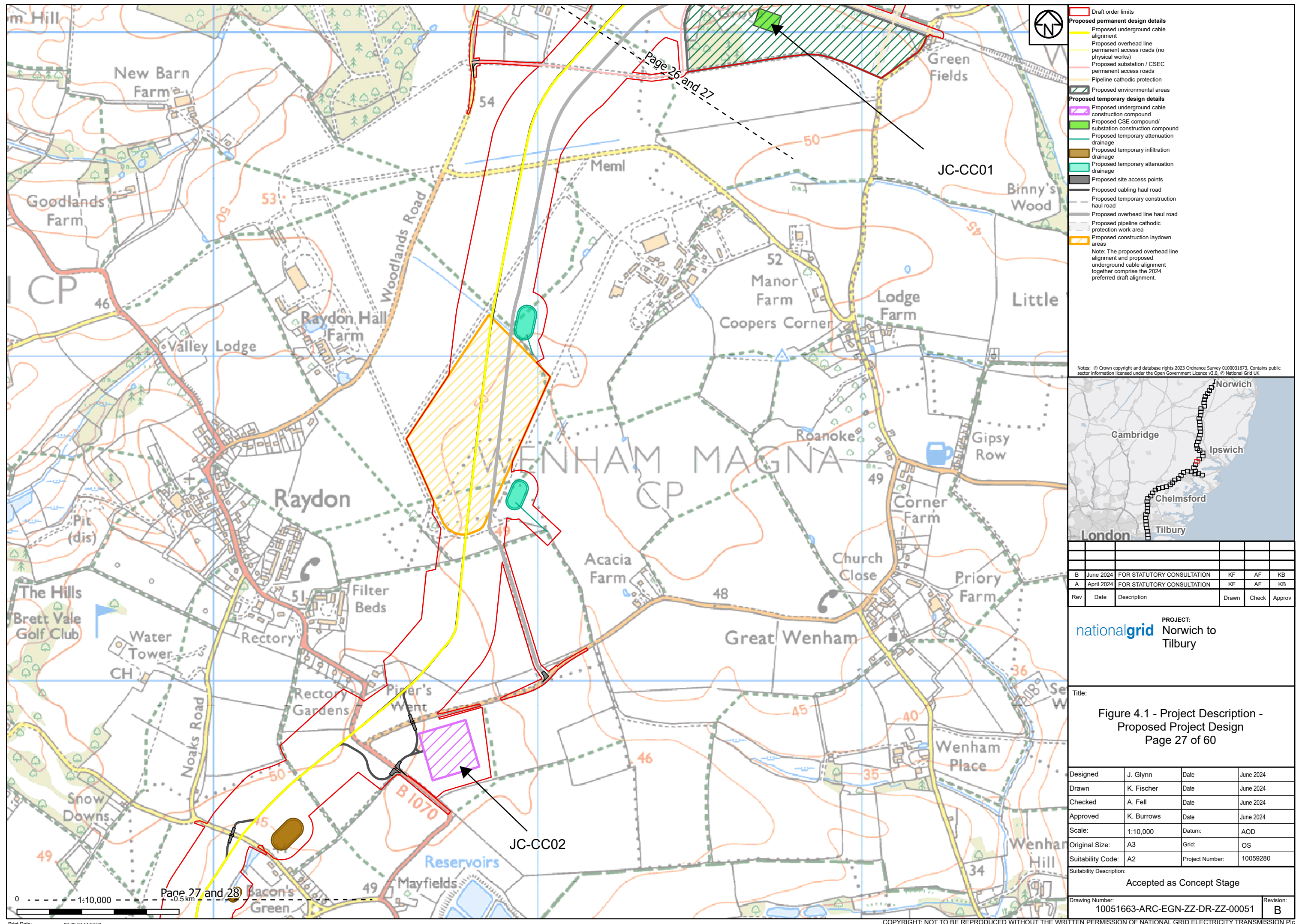
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Figure 4.1 - Project Description -  
Proposed Project Design  
Page 26 of 60

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Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
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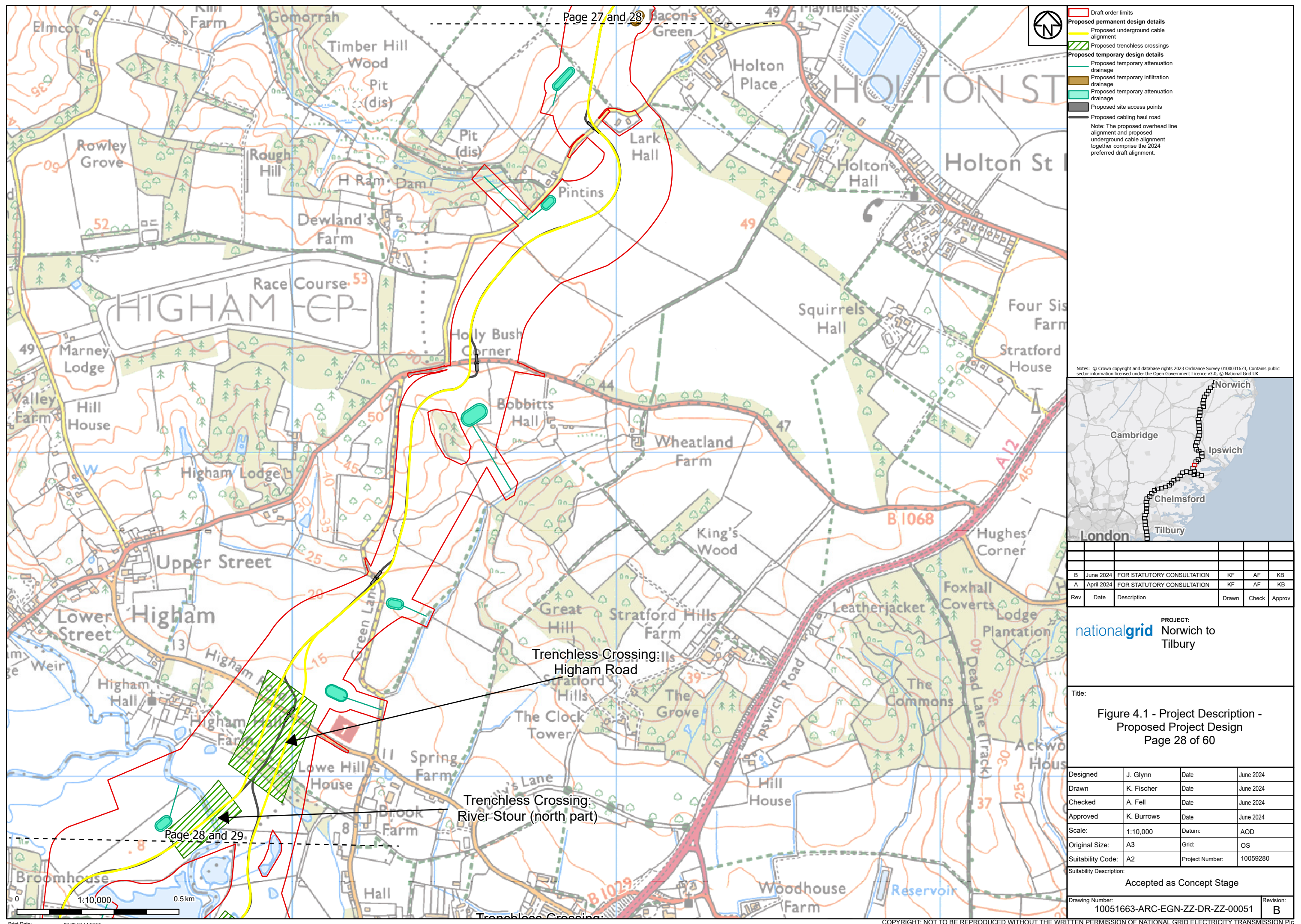
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Accepted as Concept Stage

Drawing Number: 10051663-ARC-EGN-ZZ-DR-ZZ-00051	Revision: B
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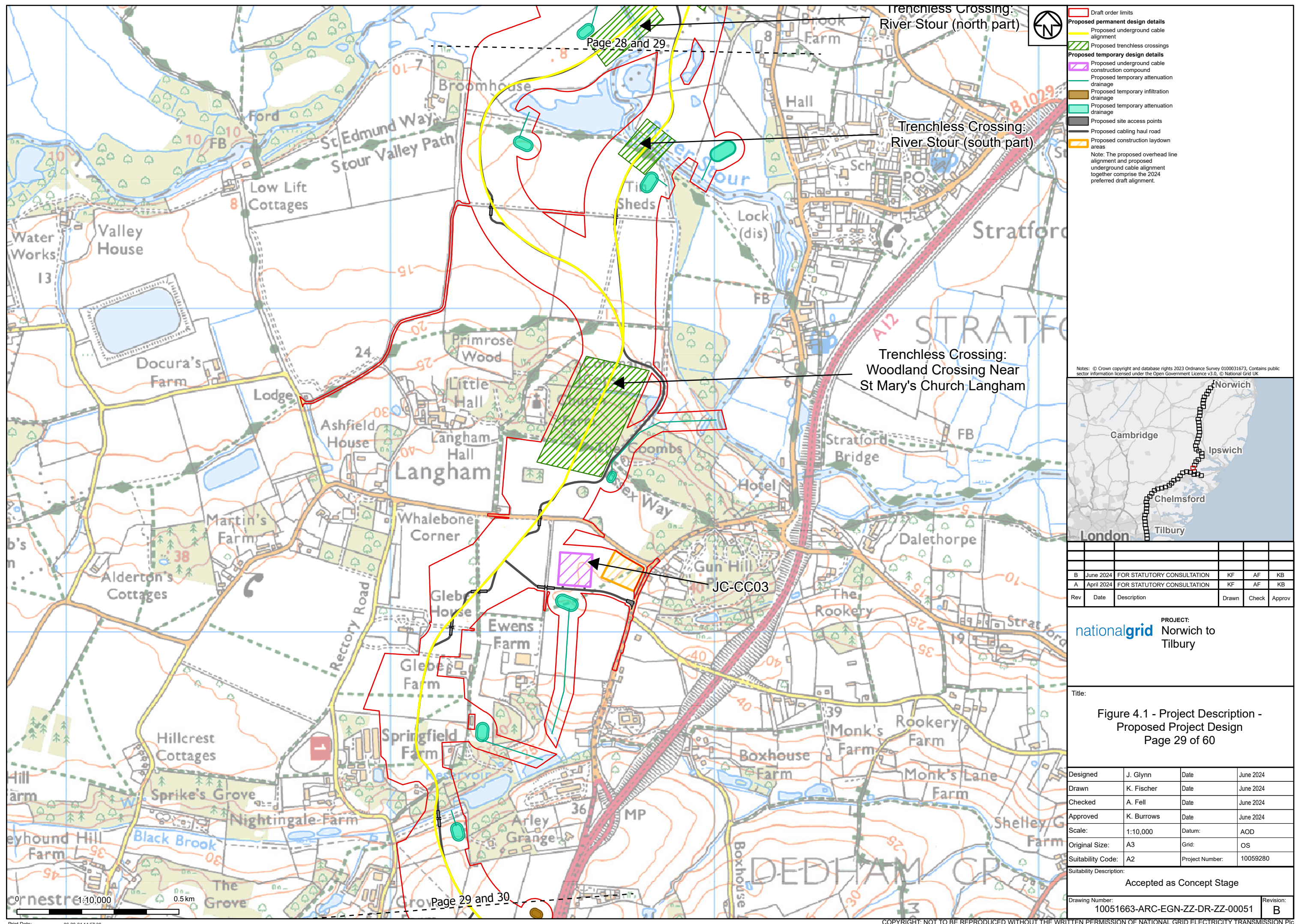




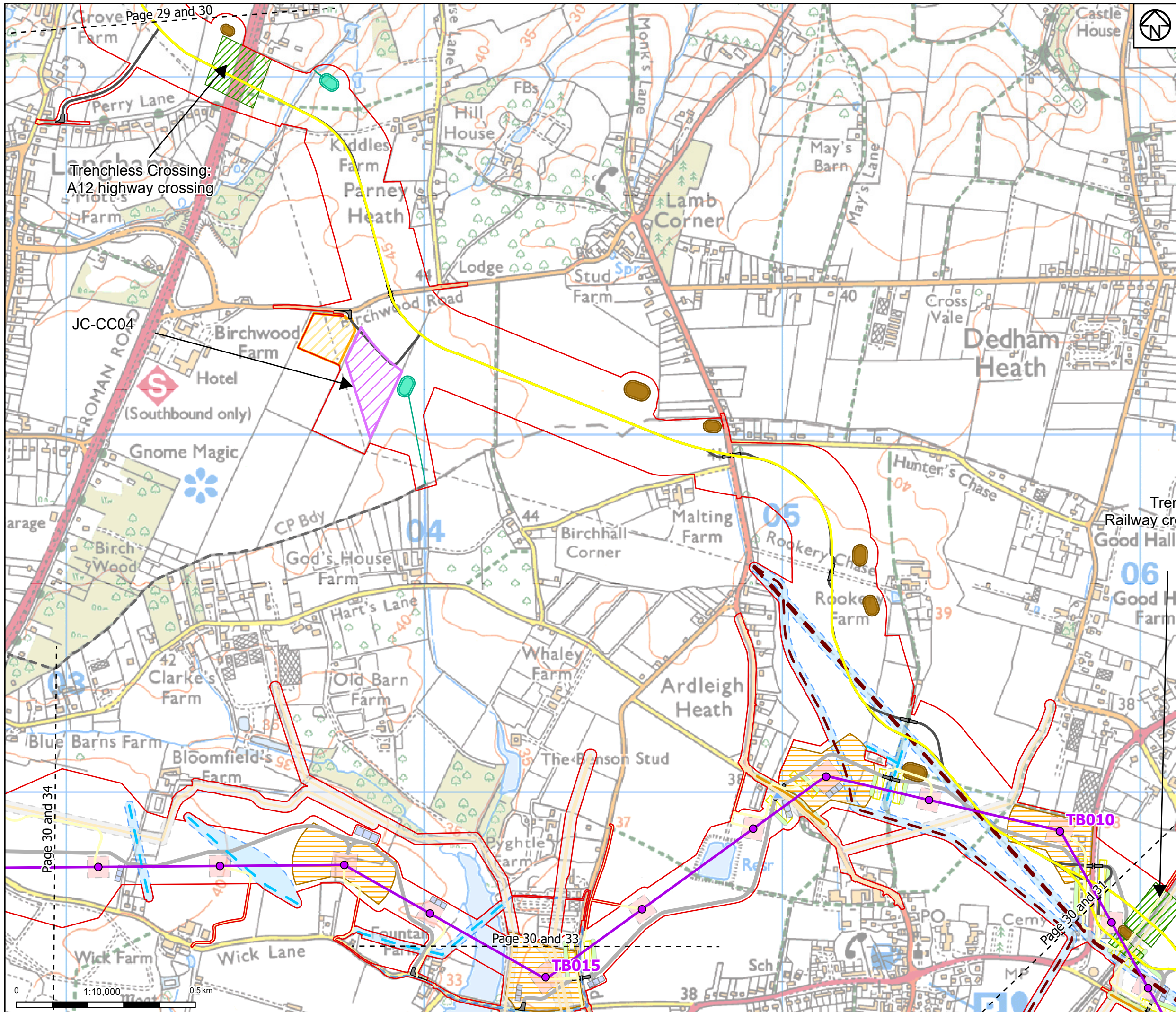












- Draft order limits

Project section line

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed underground cable alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

BT overhead line mitigation

Pipeline cathodic protection

Proposed trenchless crossings

Proposed underground cable construction compound

Proposed overhead line access routes water crossing

Proposed temporary attenuation drainage

Proposed temporary infiltration drainage

Proposed temporary attenuation drainage

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed cabling haul road

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line mitigation work area (wood pole lines)

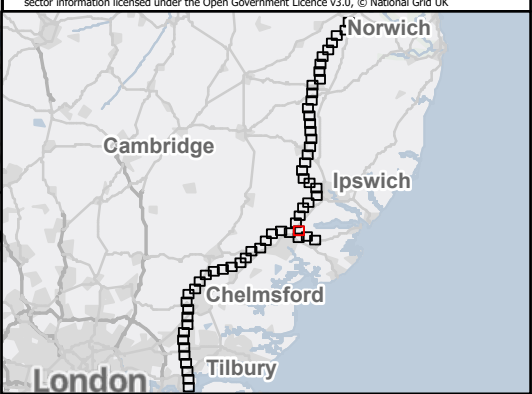
Proposed BT overhead line mitigation work area

Proposed pipeline cathodic protection work area

Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

Title:  
  
Figure 4.1 - Project Description -  
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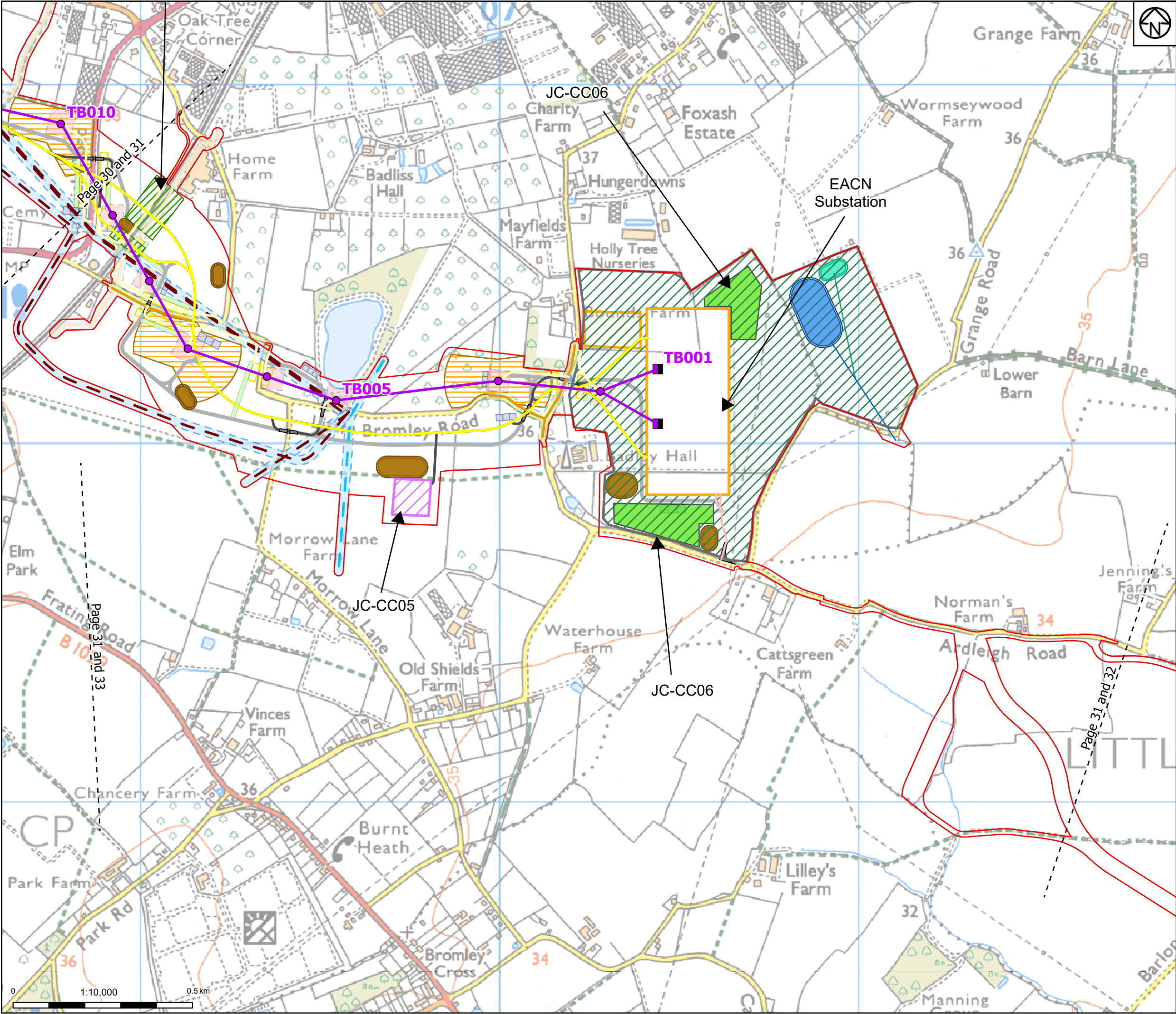
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number:  
10051663-ARC-EGN-ZZ-DR-ZZ-00051

Revision:  
B





- Draft order limits

Proposed permanent design details

Proposed full line tension gantry

Proposed pylon position

Proposed overhead line alignment

Proposed underground cable alignment

Proposed EACN substation

Proposed overhead line permanent access roads (no physical works)

Proposed substation / CSEC permanent access roads

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

BT overhead line mitigation

Pipeline cathodic protection

Proposed trenchless crossings

Proposed environmental areas

Proposed permanent attenuation drainage channel

Proposed permanent attenuation drainage pond

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Proposed temporary attenuation drainage

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Proposed temporary construction haul road

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Proposed crossing protection access route buffer

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Proposed overhead line pulling location

Proposed overhead line crossing protection work area

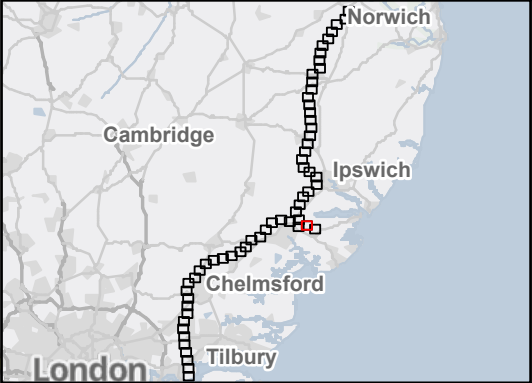
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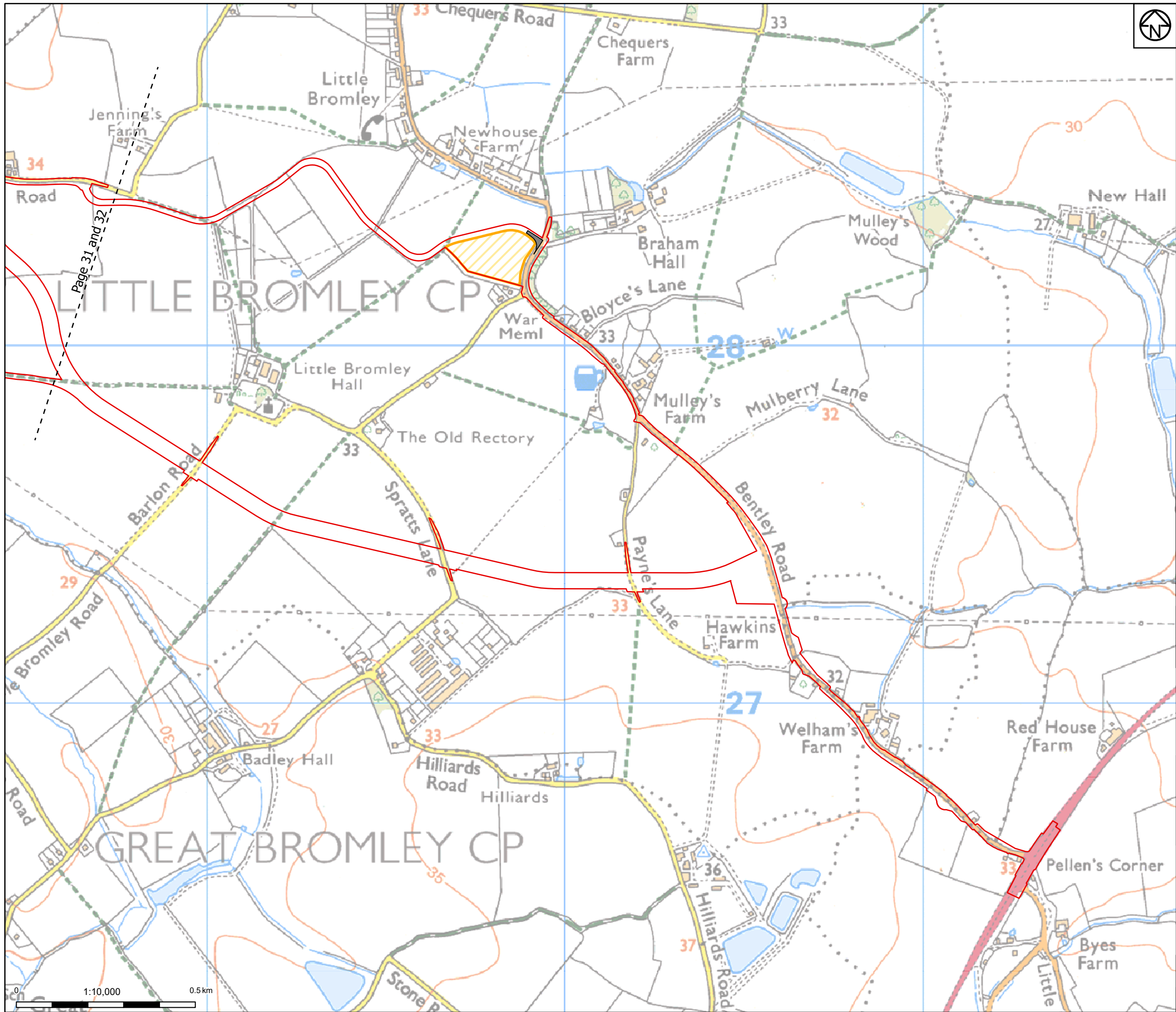
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PROJECT:  
Norwich to  
Tilbury

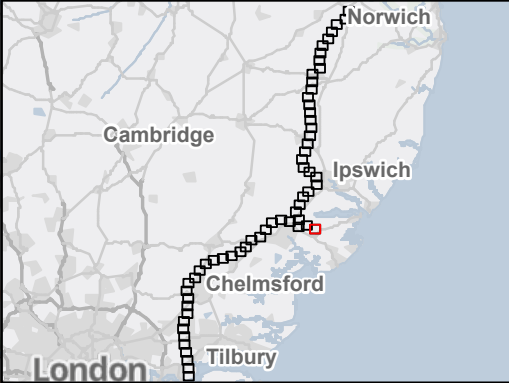
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Draft order limits  
Proposed temporary design details  
Proposed site access points  
Proposed construction laydown areas  
Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
nationalgrid Norwich to Tilbury

Title:  
Figure 4.1 - Project Description - Proposed Project Design  
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Draft order limits

Project section line

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed underground cable alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

BT overhead line mitigation

Pipeline cathodic protection

Proposed trenchless crossings

Proposed temporary infiltration drainage

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed cabling haul road

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Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

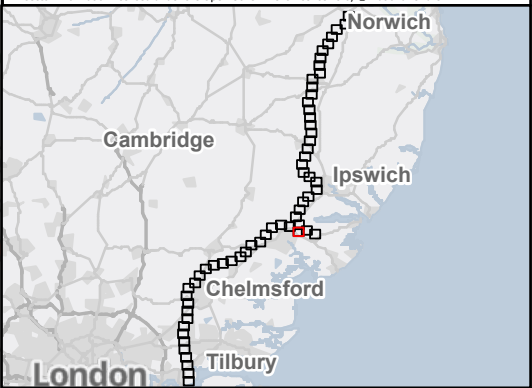
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Proposed pipeline cathodic protection work area

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PROJECT:

nationalgrid

Norwich to Tilbury

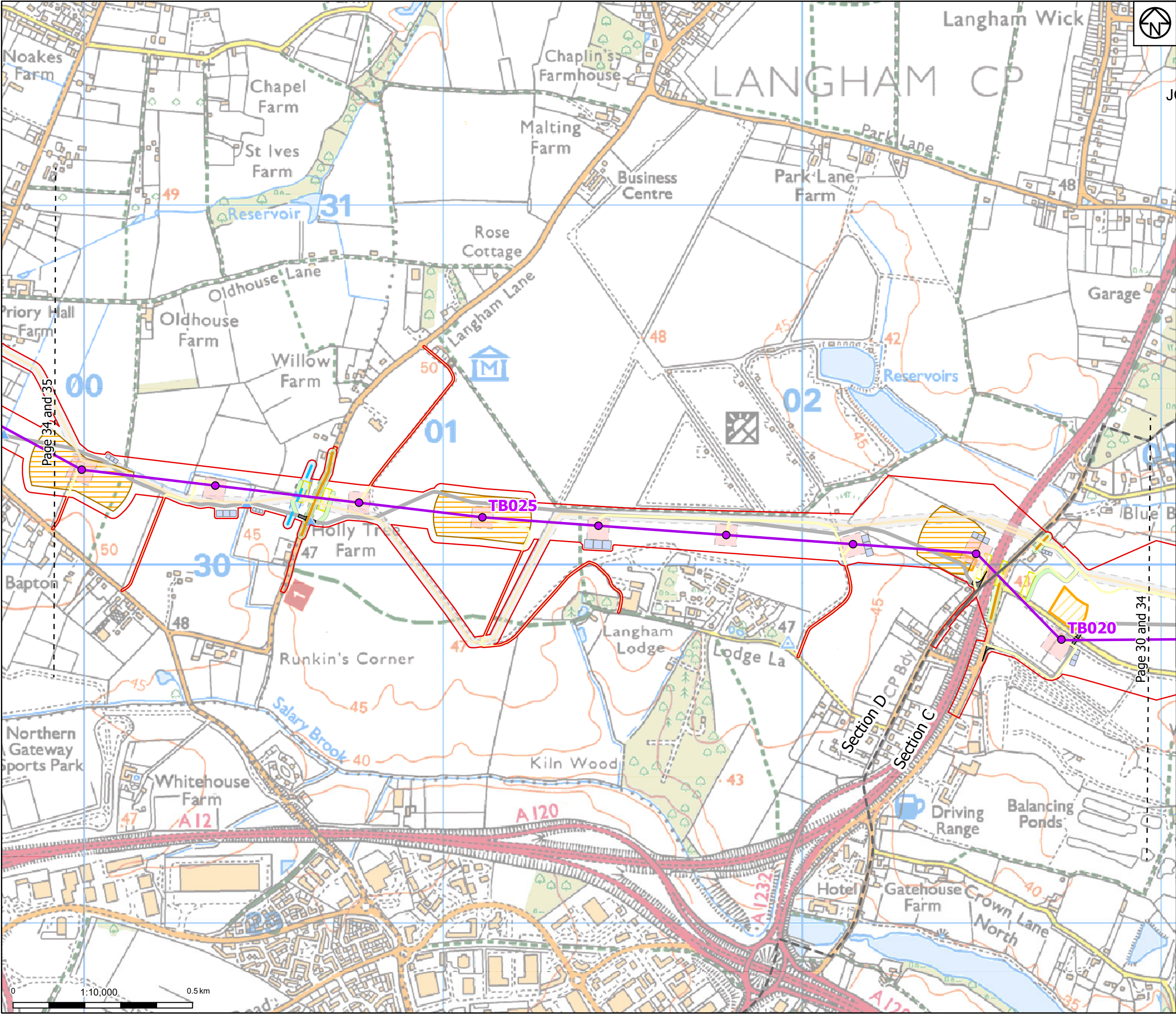
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**Figure 4.1 - Project Description - Proposed Project Design**  
Page 33 of 60

Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:  
Accepted as Concept Stage

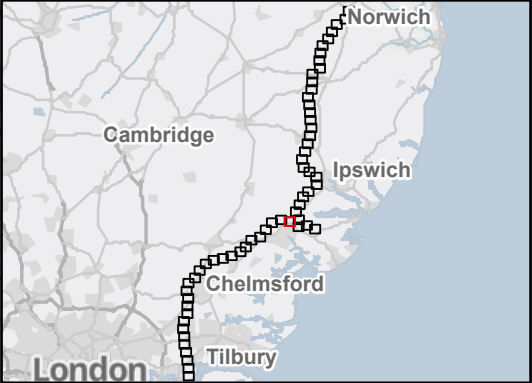
Drawing Number: 10051663-ARC-EGN-ZZ-DR-ZZ-00051	Revision: B
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- Legend**
- Proposed permanent design details**
- Proposed pylon position
  - Proposed overhead line alignment
  - Proposed overhead line permanent access roads (no physical works)
  - Proposed 11kV overhead line mitigation required
  - BT overhead line mitigation
  - Pipeline cathodic protection
- Proposed temporary design details**
- Proposed overhead line access routes water crossing
  - Proposed overhead line construction SuDS basins
  - Proposed site access points
  - Proposed overhead line haul road
  - Proposed overhead line crossing protection access route
  - Proposed crossing protection access route buffer
  - Proposed pylon construction work area
  - Proposed overhead line pulling location
  - Proposed overhead line crossing protection work area
  - Proposed UKPN overhead line mitigation work area (wood pole lines)
  - Proposed BT overhead line mitigation work area
  - Proposed pipeline cathodic protection work area
  - Proposed construction laydown areas
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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**PROJECT:**  
nationalgrid Norwich to Tilbury

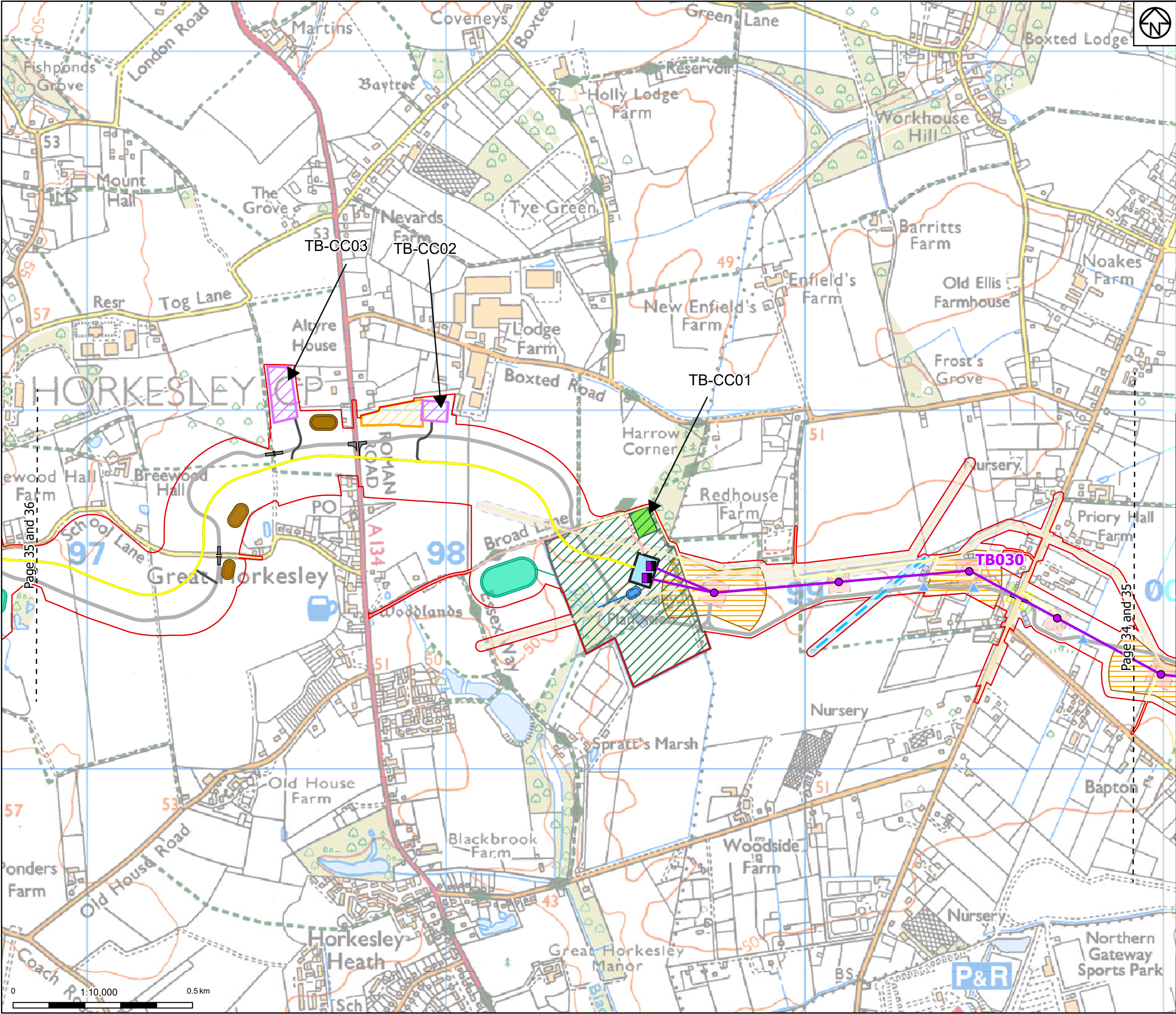
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Page 34 of 60

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Accepted as Concept Stage

Drawing Number:	10051663-ARC-EGN-ZZ-DR-ZZ-00051	Revision:	B
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Draft order limits

Proposed permanent design details

Proposed full line tension gantry

Proposed pylon position

Proposed overhead line alignment

Proposed underground cable alignment

Proposed overhead line permanent access roads (no physical works)

Proposed substation / CSEC permanent access roads

Proposed 11kV overhead line mitigation required

Pipeline cathodic protection

Proposed cable sealing end compound

Proposed environmental areas

Proposed permanent attenuation drainage channel

Proposed permanent attenuation drainage pond

Proposed temporary design details

Proposed underground cable construction compound

Proposed CSE compound/substation construction compound

Proposed overhead line access routes water crossing

Proposed overhead line watercourse crossings

Proposed temporary attenuation drainage

Proposed temporary infiltration drainage

Proposed temporary attenuation drainage

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed cabling haul road

Proposed temporary construction haul road

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Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

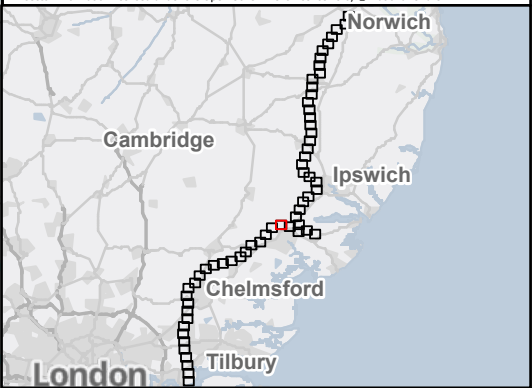
Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed pipeline cathodic protection work area

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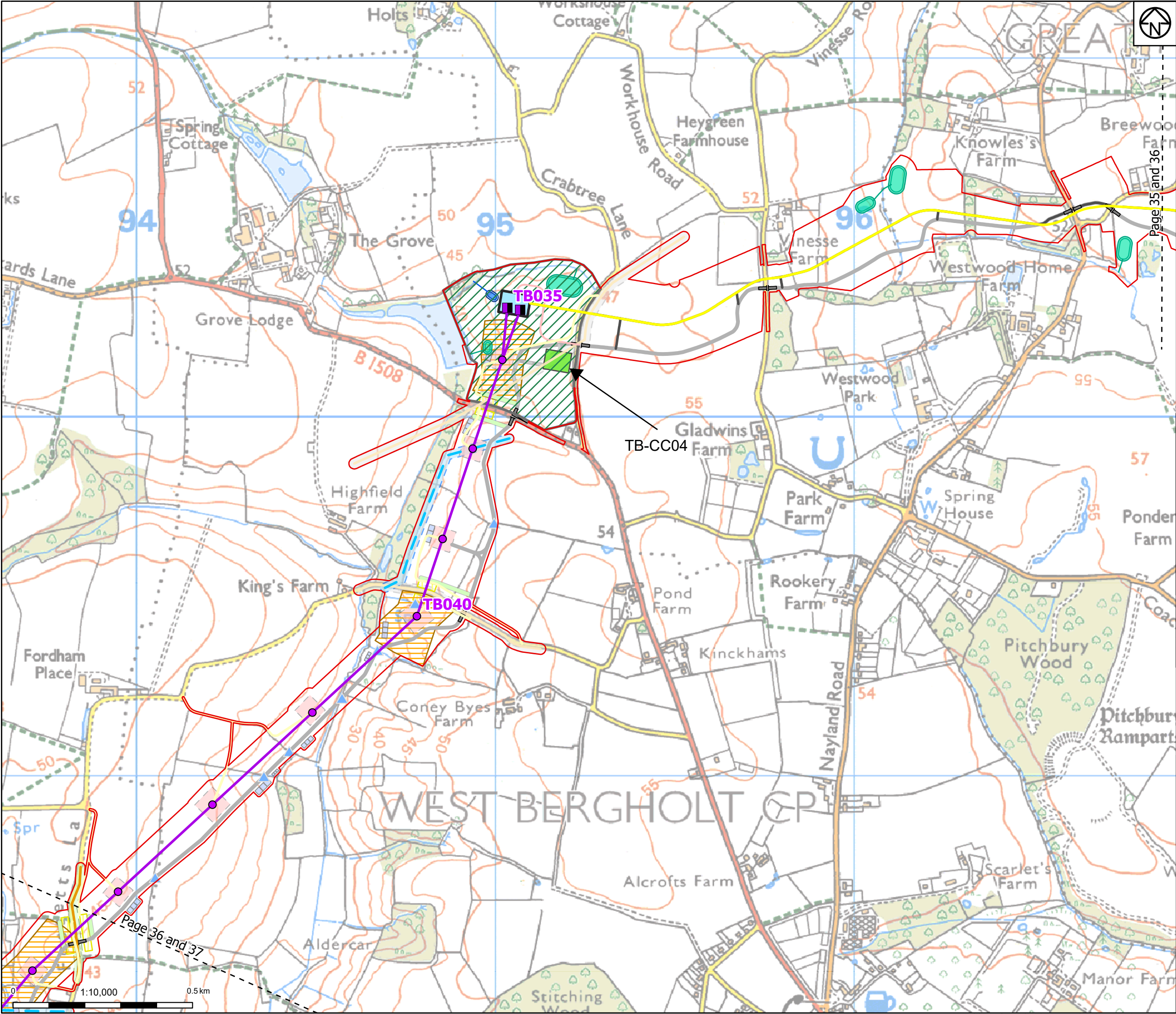
nationalgrid

PROJECT:  
Norwich to  
Tilbury

Title:  
  
Figure 4.1 - Project Description -  
Proposed Project Design  
Page 35 of 60

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BT overhead line mitigation

Pipeline cathodic protection

Proposed cable sealing end compound

Proposed environmental areas

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Proposed permanent attenuation drainage pond

Proposed temporary design details

Proposed CSE compound/ substation construction compound

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Proposed overhead line construction SuDS basins

Proposed site access points

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Proposed temporary construction haul road

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Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

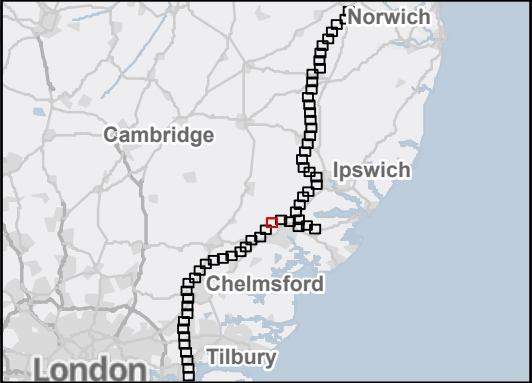
Proposed UKPN overhead line mitigation work area (wood pole lines)

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PROJECT:  
Norwich to  
Tilbury

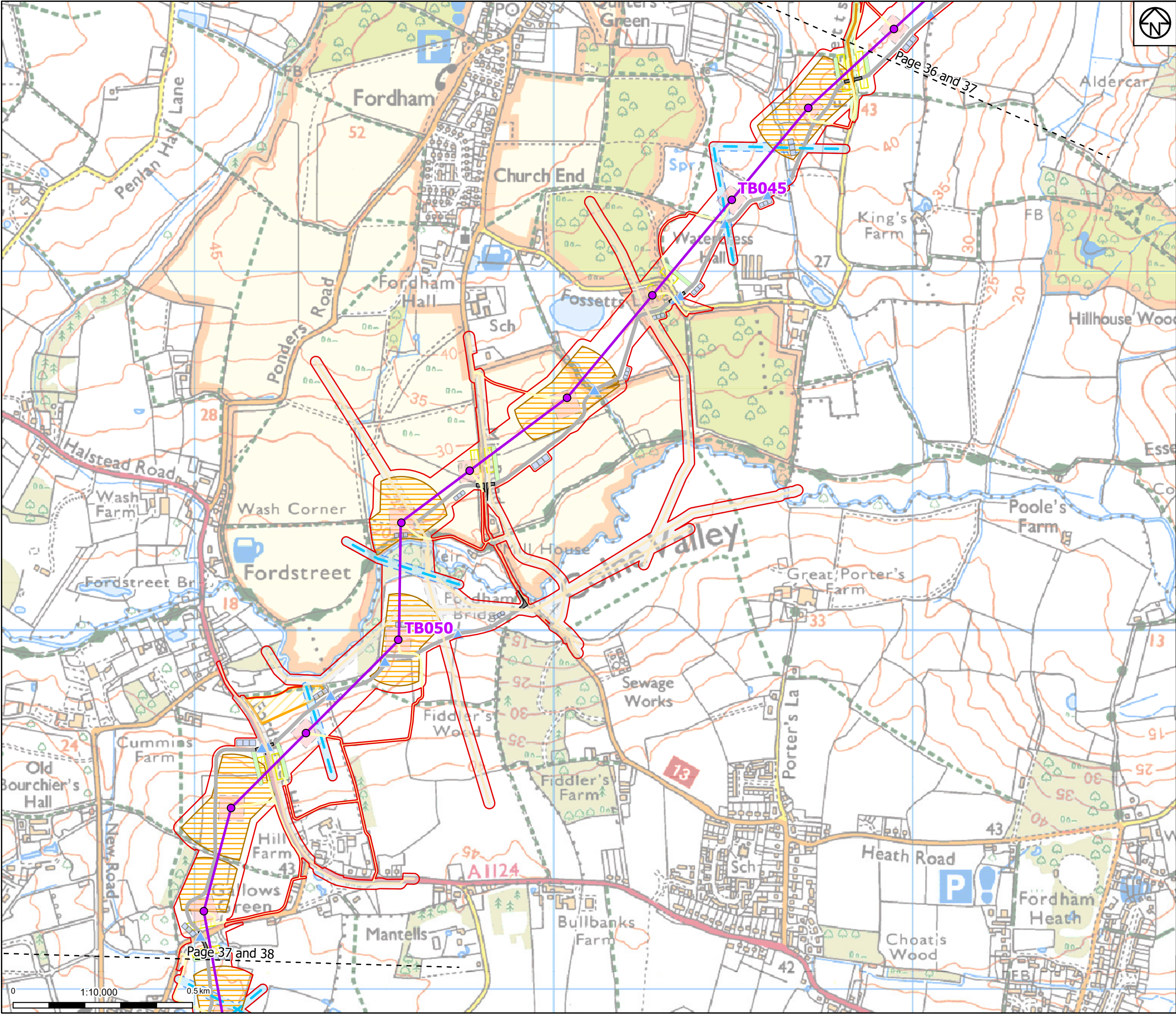
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Figure 4.1 - Project Description -  
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Drawing Number: 10051663-ARC-EGN-ZZ-DR-ZZ-00051	Revision: B
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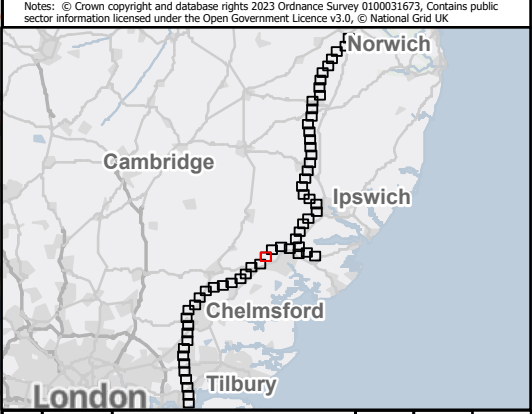
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- Proposed pylon position
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- Pipeline cathodic protection

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PROJECT:  
Norwich to  
Tilbury

Title:  
  
Figure 4.1 - Project Description -  
Proposed Project Design  
Page 37 of 60

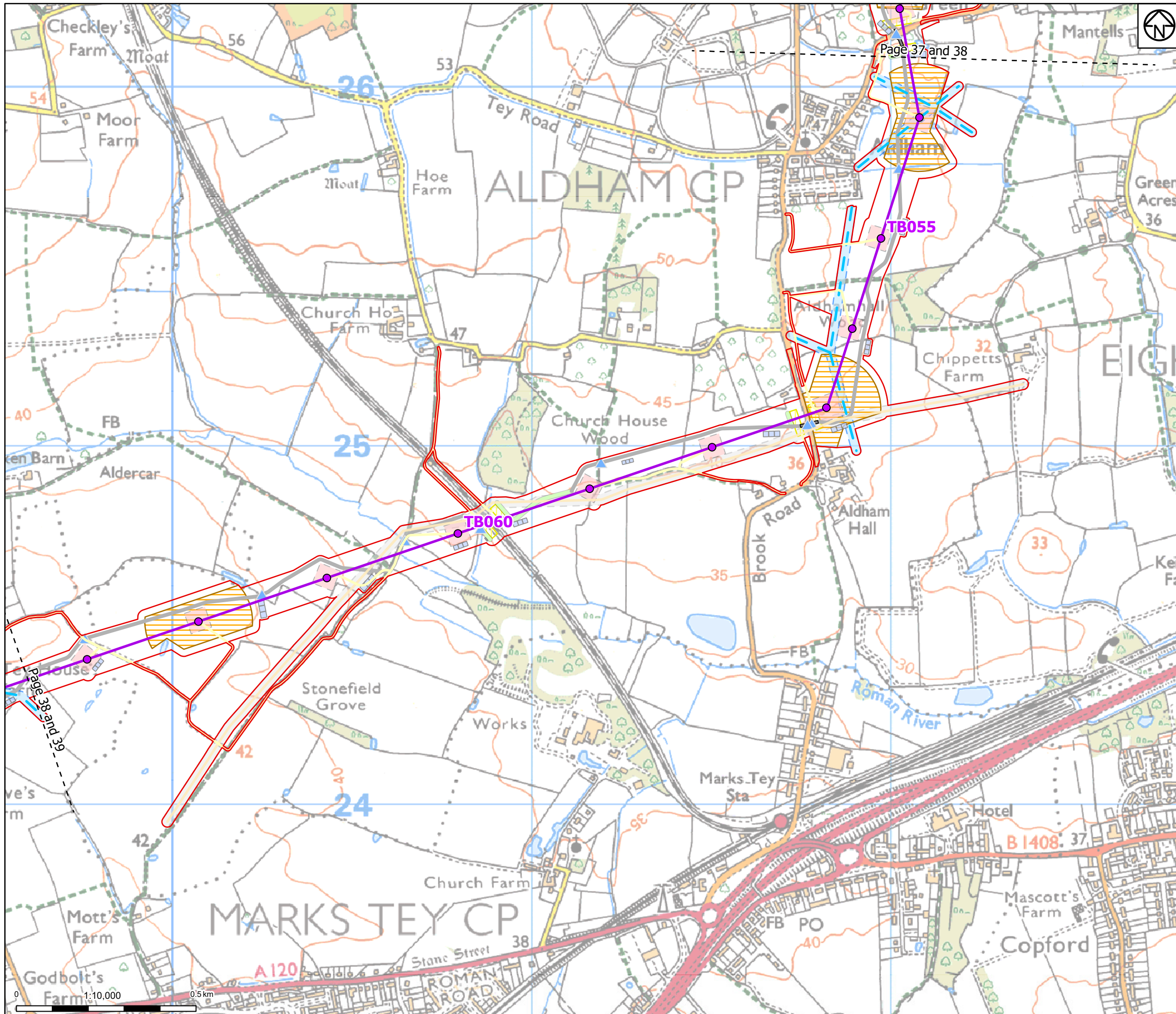
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Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

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Drawing Number:  
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Revision:  
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Draft order limits

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Pipeline cathodic protection

Proposed temporary design details

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

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Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

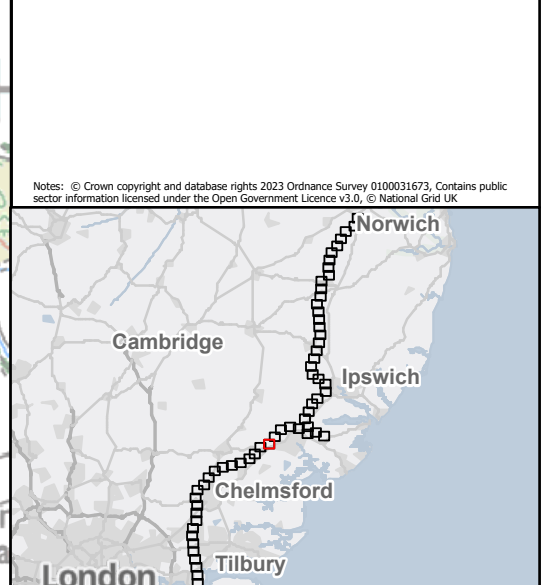
Proposed overhead line crossing protection work area

Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed pipeline cathodic protection work area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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nationalgrid

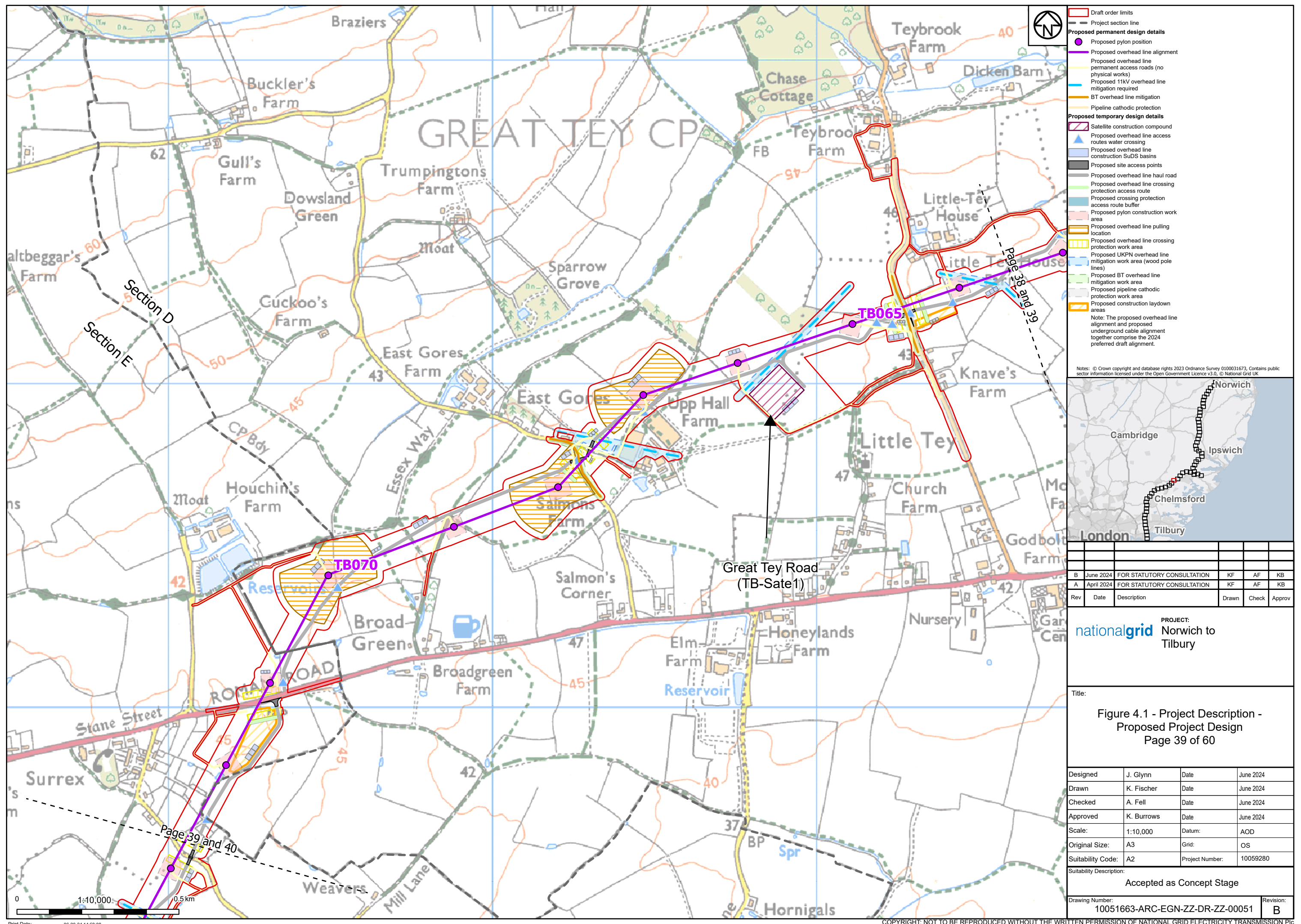
PROJECT:

Norwich to Tilbury

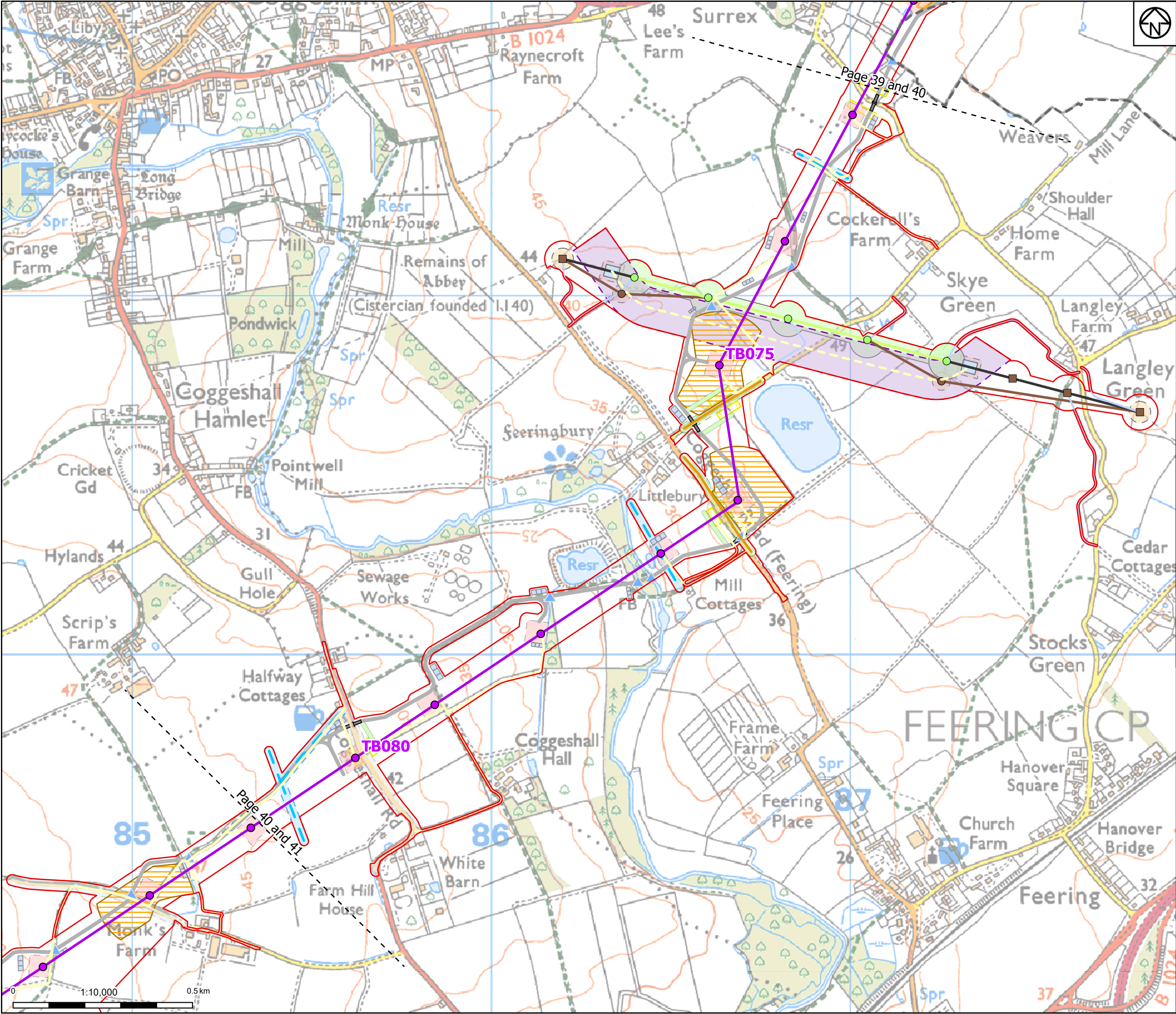
Figure 4.1 - Project Description - Proposed Project Design Page 38 of 60

Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280
Suitability Description:			
Accepted as Concept Stage			
Drawing Number:			Revision:
10051663-ARC-EGN-ZZ-DR-ZZ-00051			B









- Draft order limits

Project section line

Proposed permanent design details

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Proposed UKPN cable centreline

BT overhead line mitigation

Pipeline cathodic protection

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

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Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line dismantle towers

Proposed UKPN overhead line existing tower (to be modified)

Proposed UKPN overhead line temporary structures (only angles)

Proposed UKPN dismantle centreline

Proposed UKPN existing centreline (modified)

Proposed UKPN temporary diversion centreline

Proposed UKPN tower access

Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed UKPN cable construction swathe

Proposed UKPN cable construction swathe

Proposed UKPN cable sealing end platform

Proposed UKPN overhead line temporary works

Proposed BT overhead line mitigation work area

Proposed pipeline cathodic protection work area

Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.
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- | Rev | Date       | Description                | Drawn | Check | Approv |
|-----|------------|----------------------------|-------|-------|--------|
| B   | June 2024  | FOR STATUTORY CONSULTATION | KF    | AF    | KB     |
| A   | April 2024 | FOR STATUTORY CONSULTATION | KF    | AF    | KB     |
- PROJECT:

Norwich to Tilbury
- Title:  
**Figure 4.1 - Project Description - Proposed Project Design**  
Page 40 of 60
- |                   |            |                 |           |
|-------------------|------------|-----------------|-----------|
| Designed          | J. Glynn   | Date            | June 2024 |
| Drawn             | K. Fischer | Date            | June 2024 |
| Checked           | A. Fell    | Date            | June 2024 |
| Approved          | K. Burrows | Date            | June 2024 |
| Scale:            | 1:10,000   | Datum:          | AOD       |
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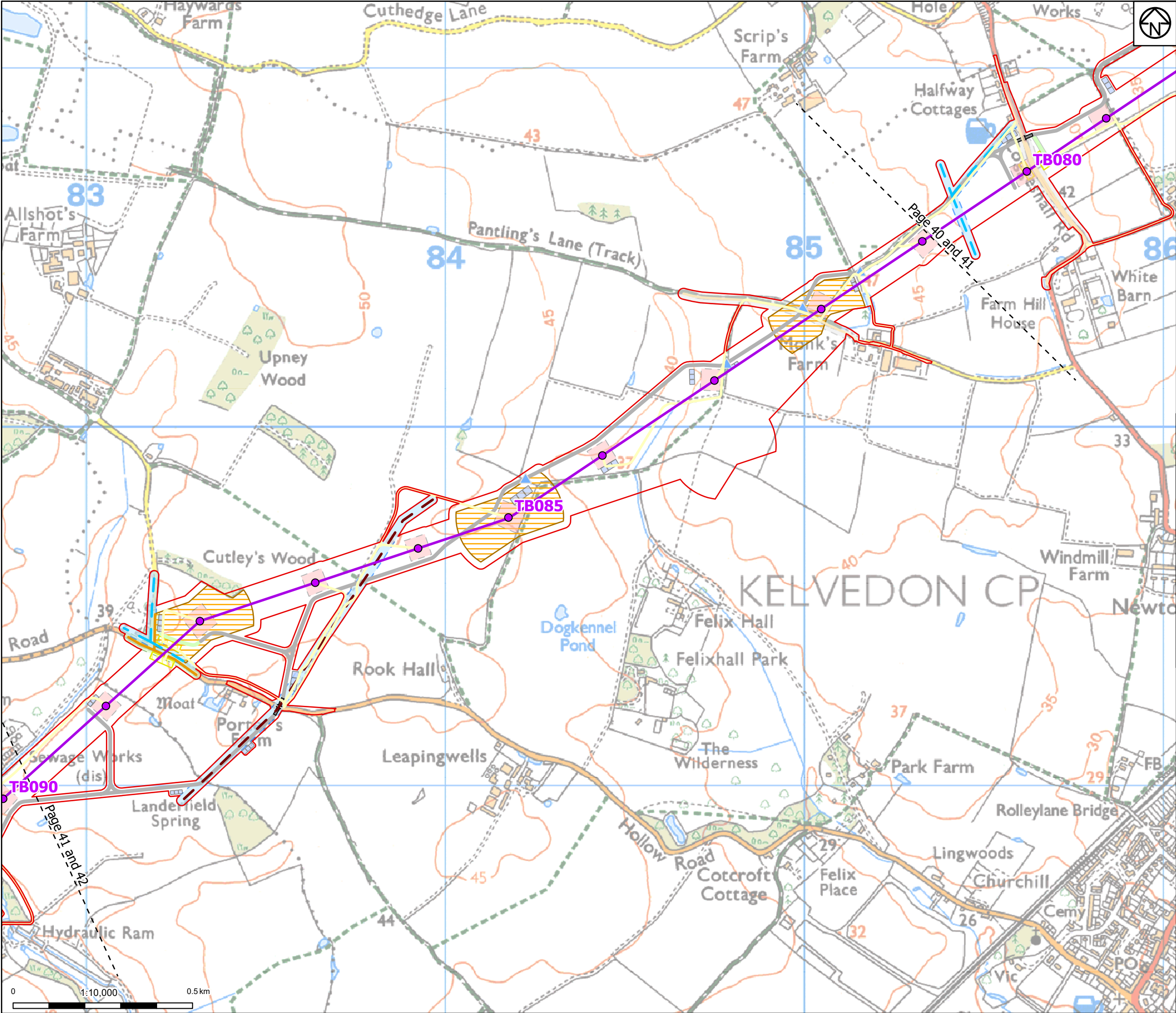
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Revision:

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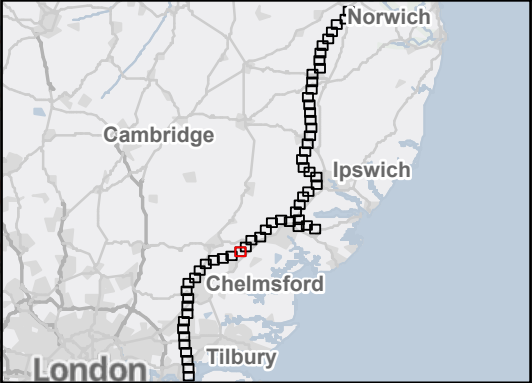
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- Proposed permanent design details**
- Proposed pylon position
  - Proposed overhead line alignment
  - Proposed overhead line permanent access roads (no physical works)
  - Proposed 11kV overhead line mitigation required
  - Proposed 33kV overhead line mitigation required
  - BT overhead line mitigation
  - Pipeline cathodic protection
- Proposed temporary design details**
- Proposed overhead line access routes water crossing
  - Proposed overhead line construction SuDS basins
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  - Proposed overhead line haul road
  - Proposed overhead line crossing protection access route
  - Proposed crossing protection access route buffer
  - Proposed pylon construction work area
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  - Proposed overhead line crossing protection work area
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PROJECT:  
Norwich to  
Tilbury

Title:  
Figure 4.1 - Project Description -  
Proposed Project Design  
Page 41 of 60

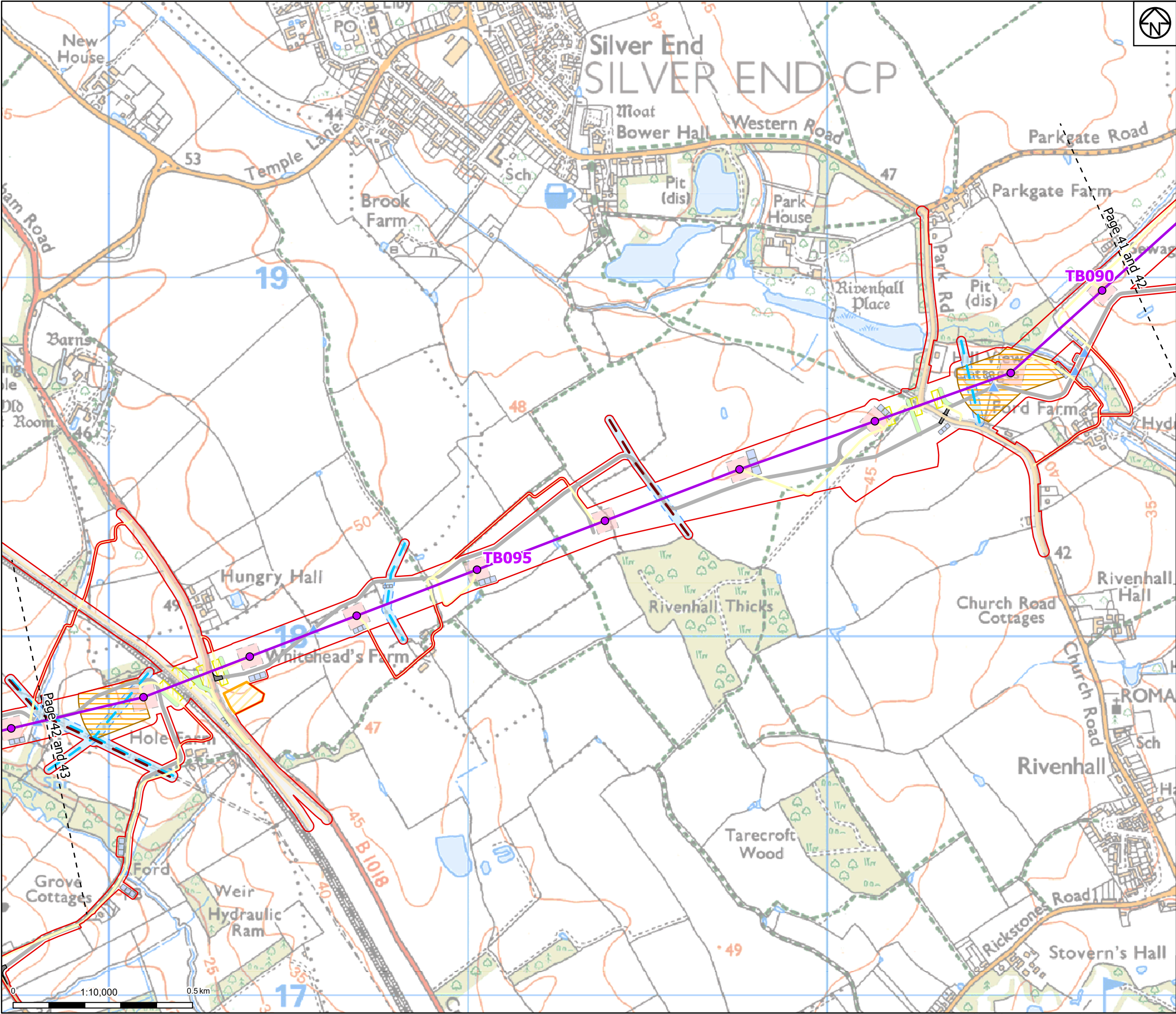
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Accepted as Concept Stage

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10051663-ARC-EGN-ZZ-DR-ZZ-00051

Revision:  
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**Proposed permanent design details**

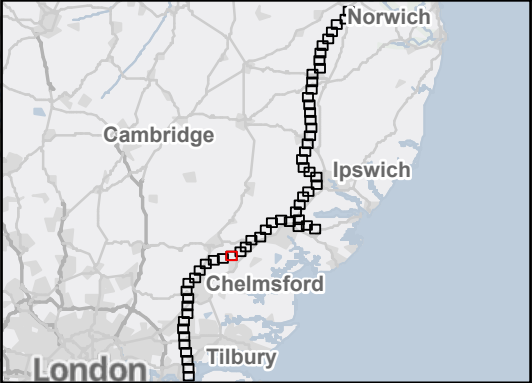
- Proposed pylon position
- Proposed overhead line alignment
- Proposed overhead line permanent access roads (no physical works)
- Proposed 11kV overhead line mitigation required
- Proposed 33kV overhead line mitigation required
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**Proposed temporary design details**

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PROJECT:  
**nationalgrid** Norwich to Tilbury

Title:  
**Figure 4.1 - Project Description - Proposed Project Design**  
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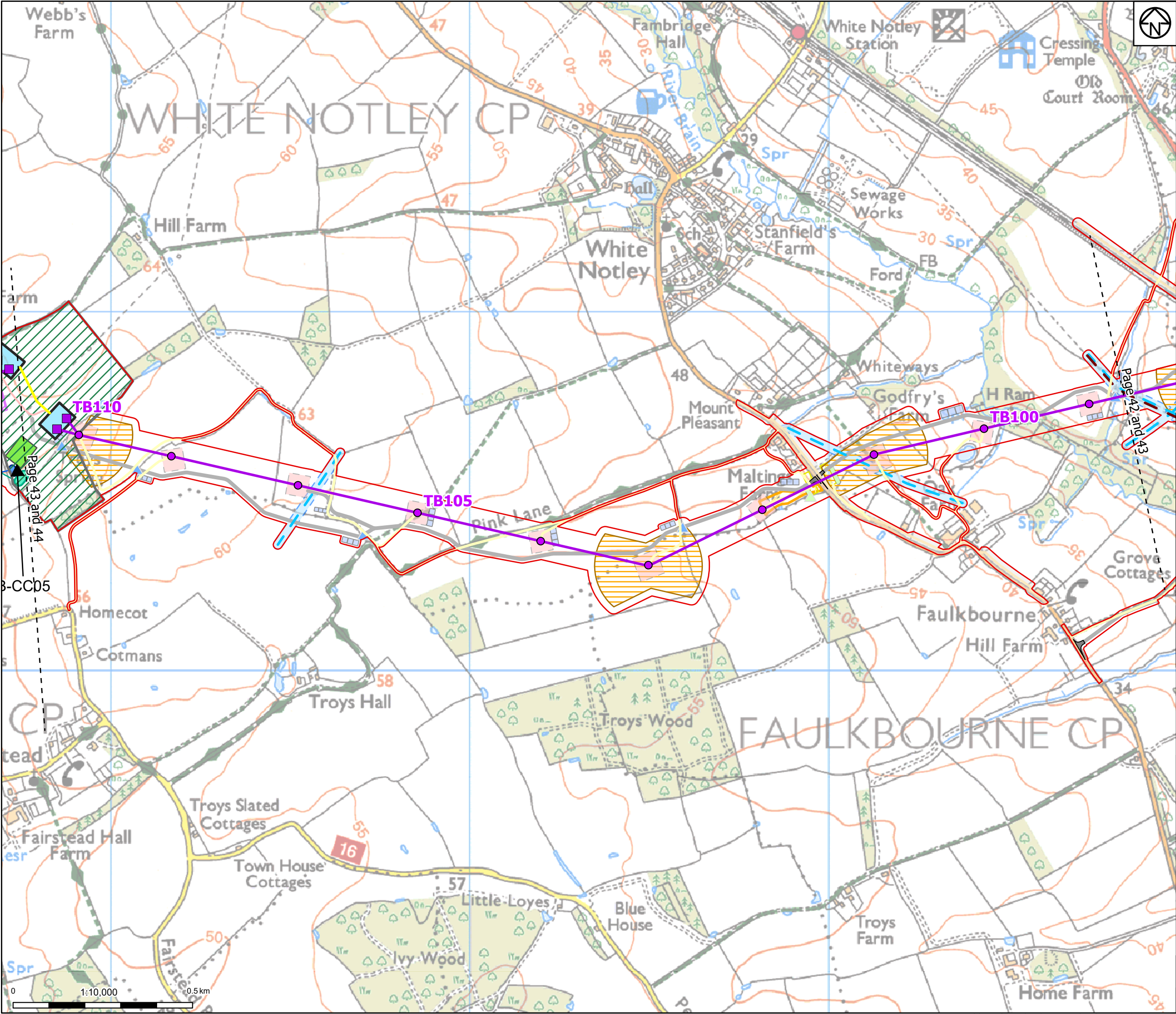
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Suitability Code:	A2	Project Number:	10059280

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Drawing Number:  
**10051663-ARC-EGN-ZZ-DR-ZZ-00051**

Revision:  
**B**





Draft order limits

Proposed permanent design details

Proposed low duty gantry

Proposed pylon position

Proposed overhead line alignment

Proposed underground cable alignment

Proposed overhead line permanent access roads (no physical works)

Proposed substation / CSEC permanent access roads

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

Pipeline cathodic protection

Proposed cable sealing end compound

Proposed environmental areas

Proposed permanent attenuation drainage channel

Proposed permanent attenuation drainage pond

Proposed temporary design details

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Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

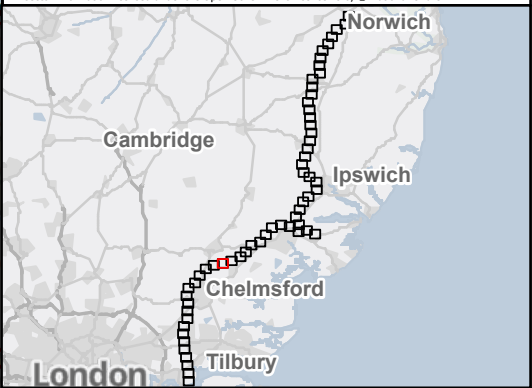
Proposed UKPN overhead line mitigation work area (wood pole lines)

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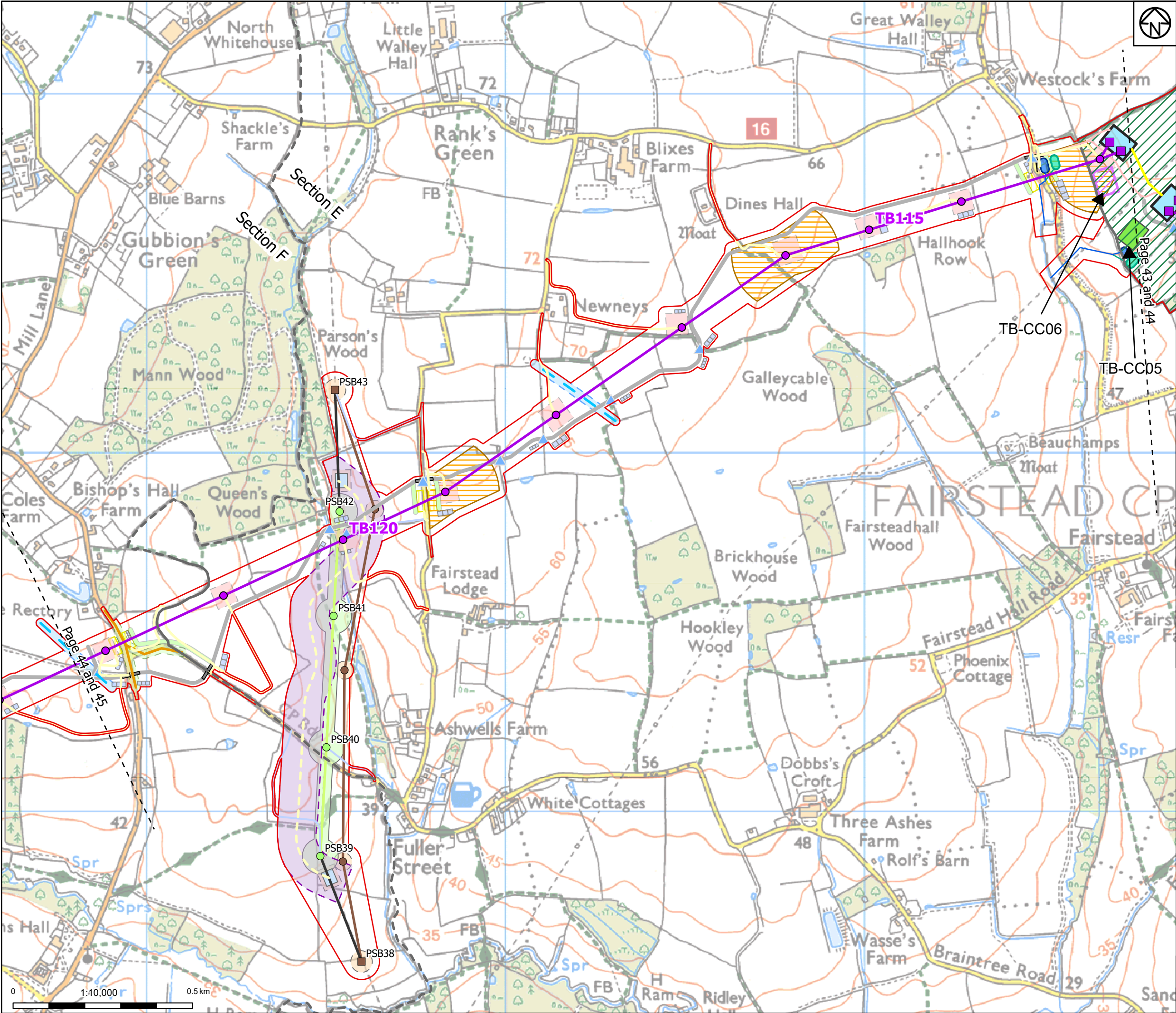
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PROJECT:  
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Title:  
  
Figure 4.1 - Project Description -  
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Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed UKPN cable construction swathe

Proposed UKPN cable construction swathe

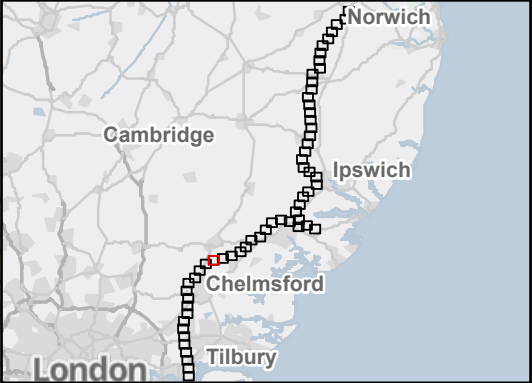
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Proposed UKPN overhead line temporary works

Proposed BT overhead line mitigation work area

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nationalgrid

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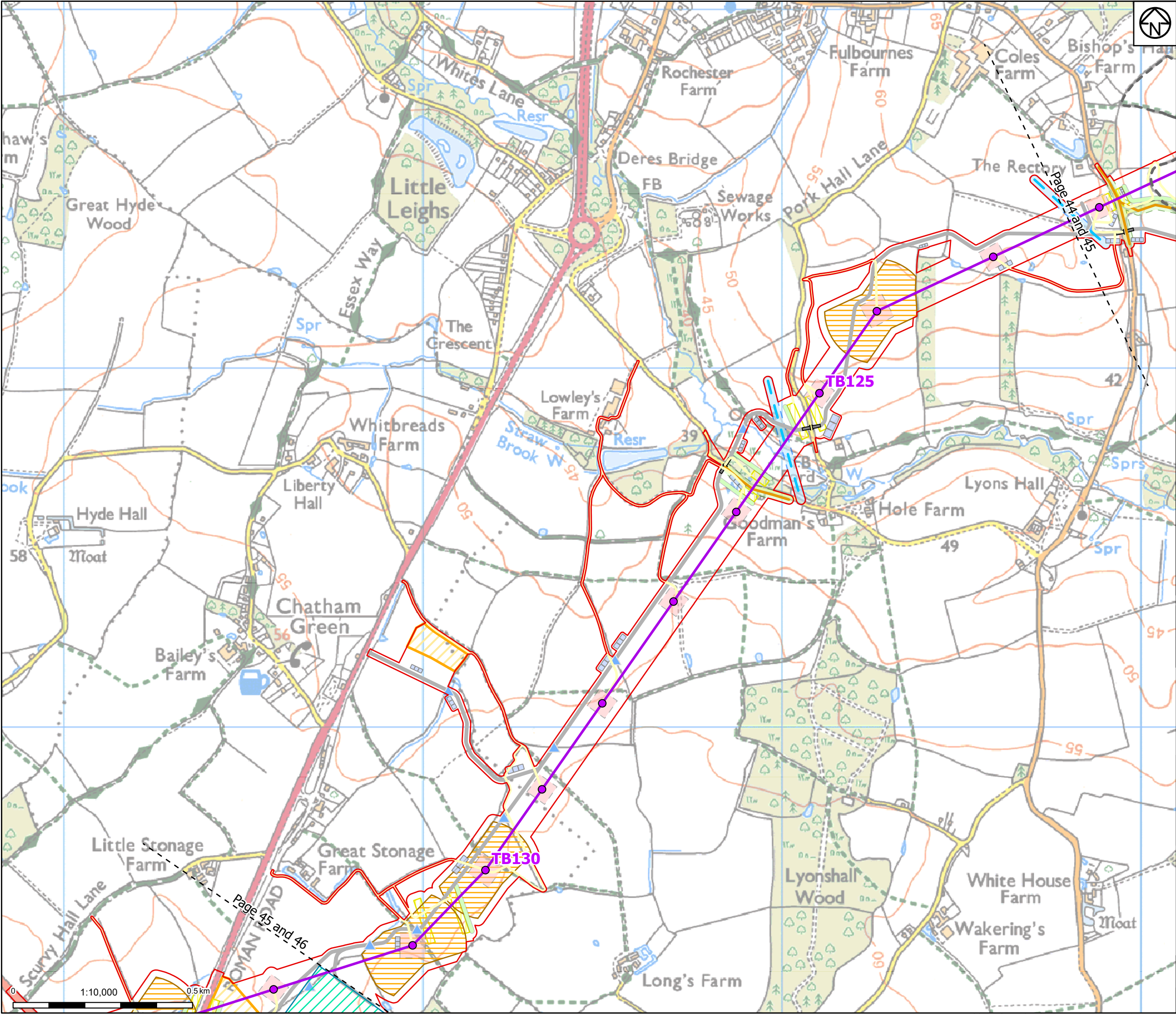
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Figure 4.1 - Project Description -  
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Draft order limits

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Proposed pylon position

Proposed overhead line alignment

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Proposed 11kV overhead line mitigation required

BT overhead line mitigation

Proposed temporary design details

Main construction compound

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

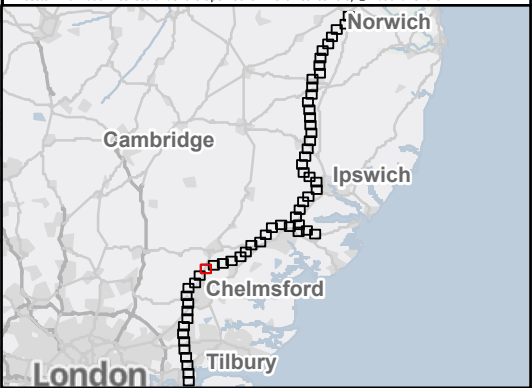
Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed BT overhead line mitigation work area

Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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A	April 2024	FOR STATUTORY CONSULTATION	KF	AF	KB

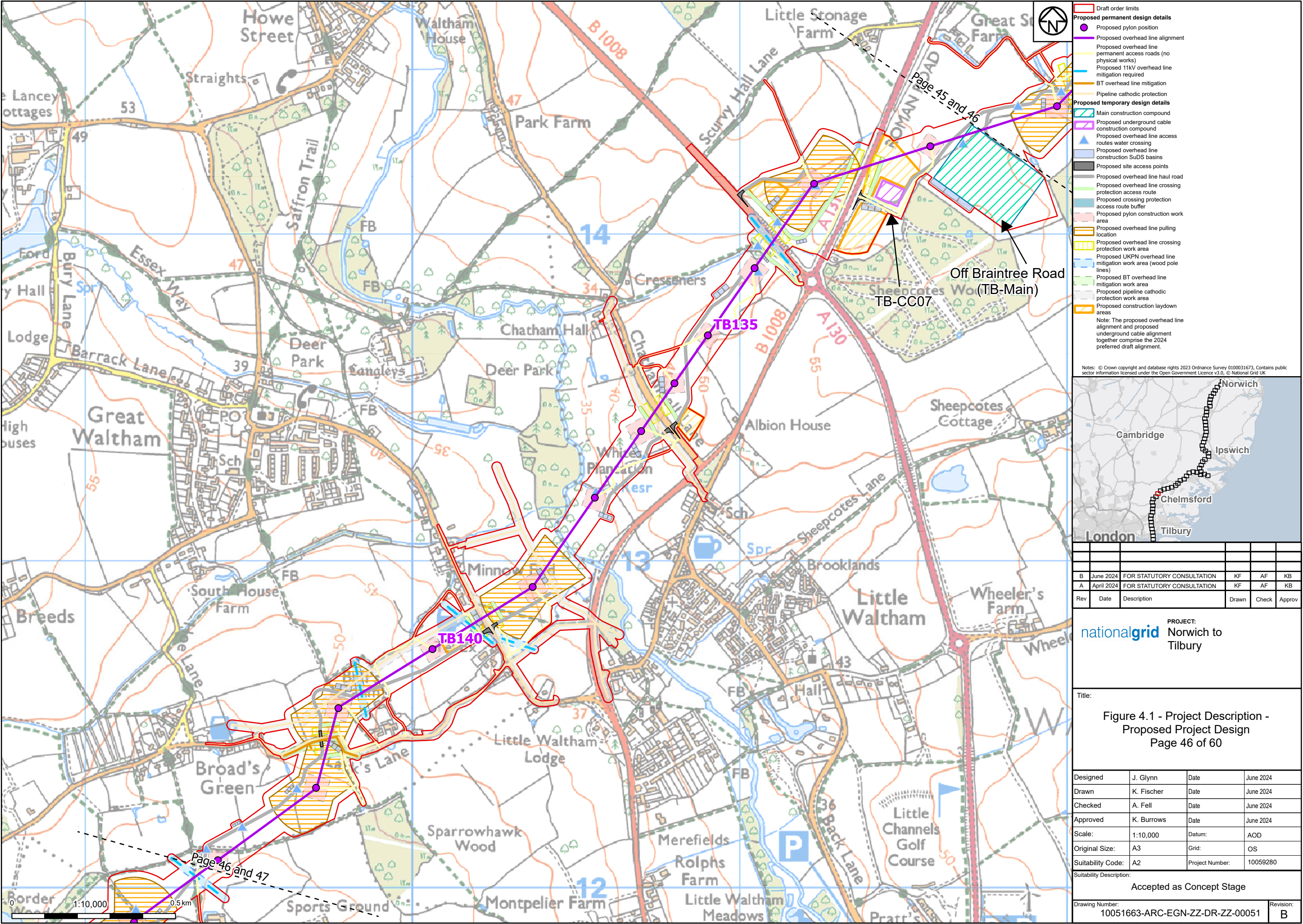
PROJECT:

Norwich to Tilbury

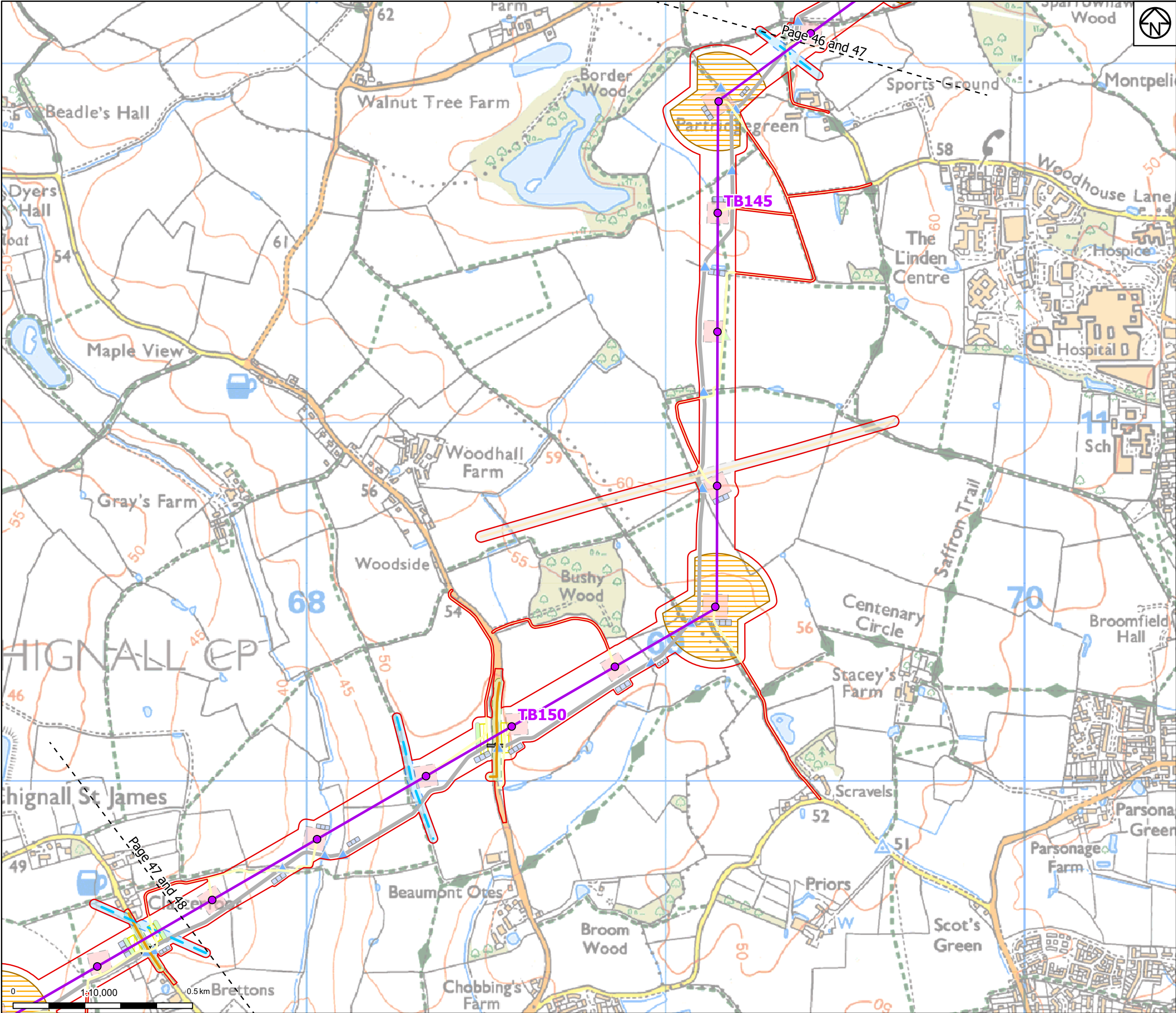
Title:  
  
Figure 4.1 - Project Description -  
Proposed Project Design  
Page 45 of 60

Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280
Suitability Description:			
Accepted as Concept Stage			
Drawing Number:	10051663-ARC-EGN-ZZ-DR-ZZ-00051		
Revision:	B		



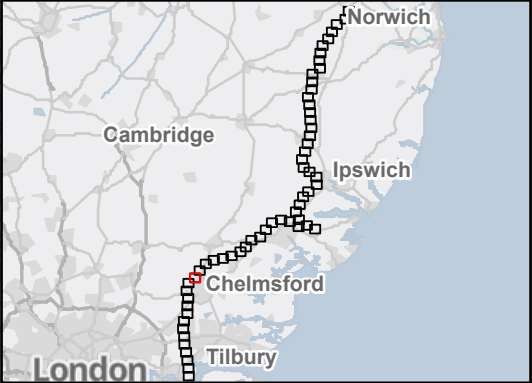






- Proposed permanent design details**
- Proposed pylon position
  - Proposed overhead line alignment
  - Proposed overhead line permanent access roads (no physical works)
  - Proposed 11kV overhead line mitigation required
  - BT overhead line mitigation
  - Pipeline cathodic protection
- Proposed temporary design details**
- Proposed overhead line access routes water crossing
  - Proposed overhead line watercourse crossings
  - Proposed overhead line construction SuDS basins
  - Proposed site access points
  - Proposed overhead line haul road
  - Proposed overhead line crossing protection access route
  - Proposed crossing protection access route buffer
  - Proposed pylon construction work area
  - Proposed overhead line pulling location
  - Proposed overhead line crossing protection work area
  - Proposed UKPN overhead line mitigation work area (wood pole lines)
  - Proposed BT overhead line mitigation work area
  - Proposed pipeline cathodic protection work area
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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**PROJECT:**  
nationalgrid Norwich to Tilbury

Title:  
Figure 4.1 - Project Description - Proposed Project Design  
Page 47 of 60

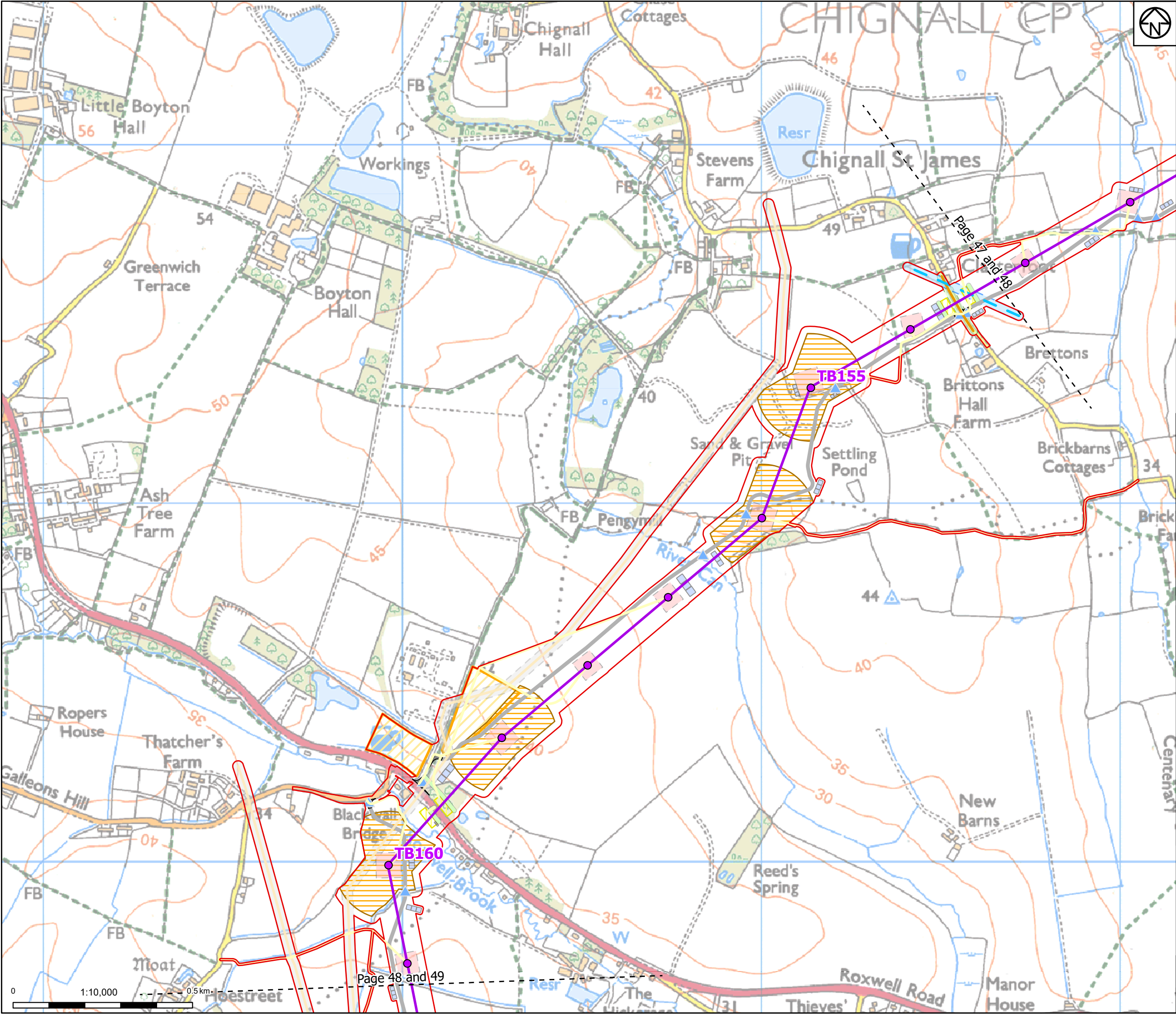
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Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:  
Accepted as Concept Stage

Drawing Number:  
10051663-ARC-EGN-ZZ-DR-ZZ-00051

Revision:  
B





Draft order limits

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

BT overhead line mitigation

Pipeline cathodic protection

Proposed temporary design details

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line mitigation work area (wood pole lines)

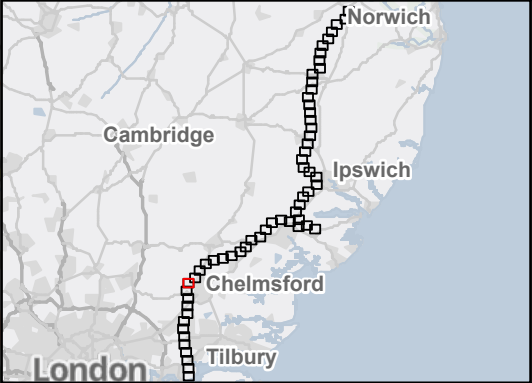
Proposed BT overhead line mitigation work area

Proposed pipeline cathodic protection work area

Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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nationalgrid

PROJECT:  
Norwich to  
Tilbury

Title:  
  
Figure 4.1 - Project Description -  
Proposed Project Design  
Page 48 of 60

Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:  
Accepted as Concept Stage

Drawing Number: 10051663-ARC-EGN-ZZ-DR-ZZ-00051	Revision: B
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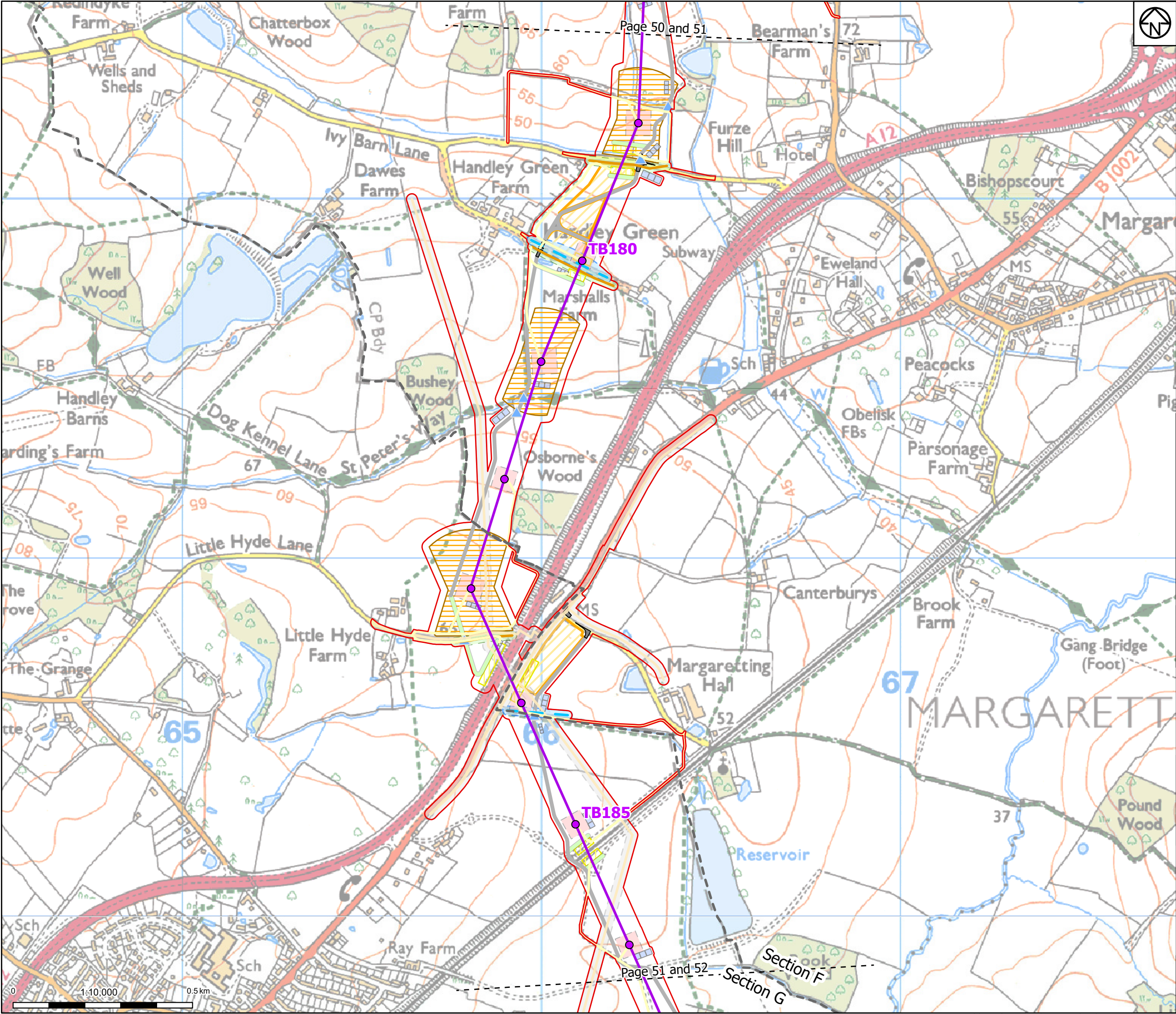












**Proposed permanent design details**

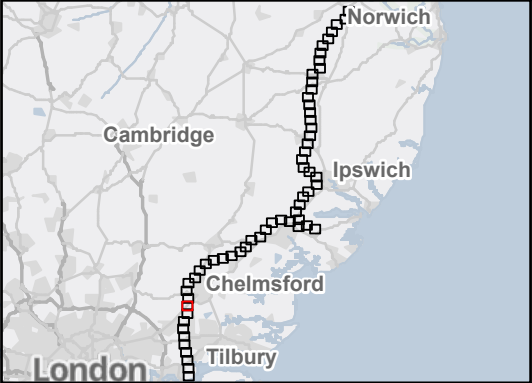
- Proposed pylon position
- Proposed overhead line alignment
- Proposed overhead line permanent access roads (no physical works)
- Proposed 11kV overhead line mitigation required
- BT overhead line mitigation
- Pipeline cathodic protection

**Proposed temporary design details**

- Proposed overhead line access routes water crossing
- Proposed overhead line construction SuDS basins
- Proposed site access points
- Proposed overhead line haul road
- Proposed overhead line crossing protection access route
- Proposed crossing protection access route buffer
- Proposed pylon construction work area
- Proposed overhead line pulling location
- Proposed overhead line crossing protection work area
- Proposed UKPN overhead line mitigation work area (wood pole lines)
- Proposed BT overhead line mitigation work area
- Proposed pipeline cathodic protection work area
- Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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**PROJECT:**  
nationalgrid Norwich to Tilbury

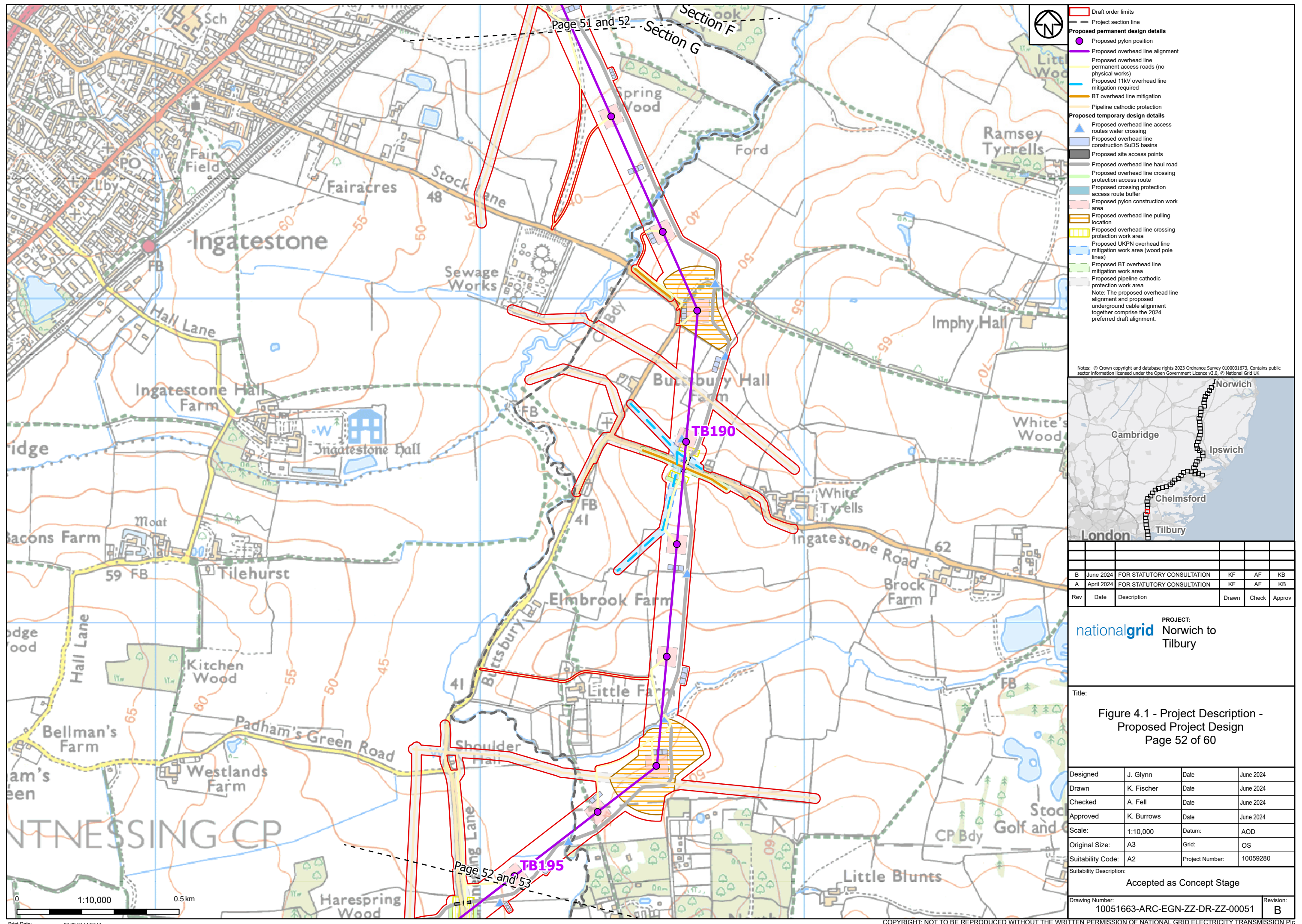
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**Figure 4.1 - Project Description - Proposed Project Design**  
Page 51 of 60

Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
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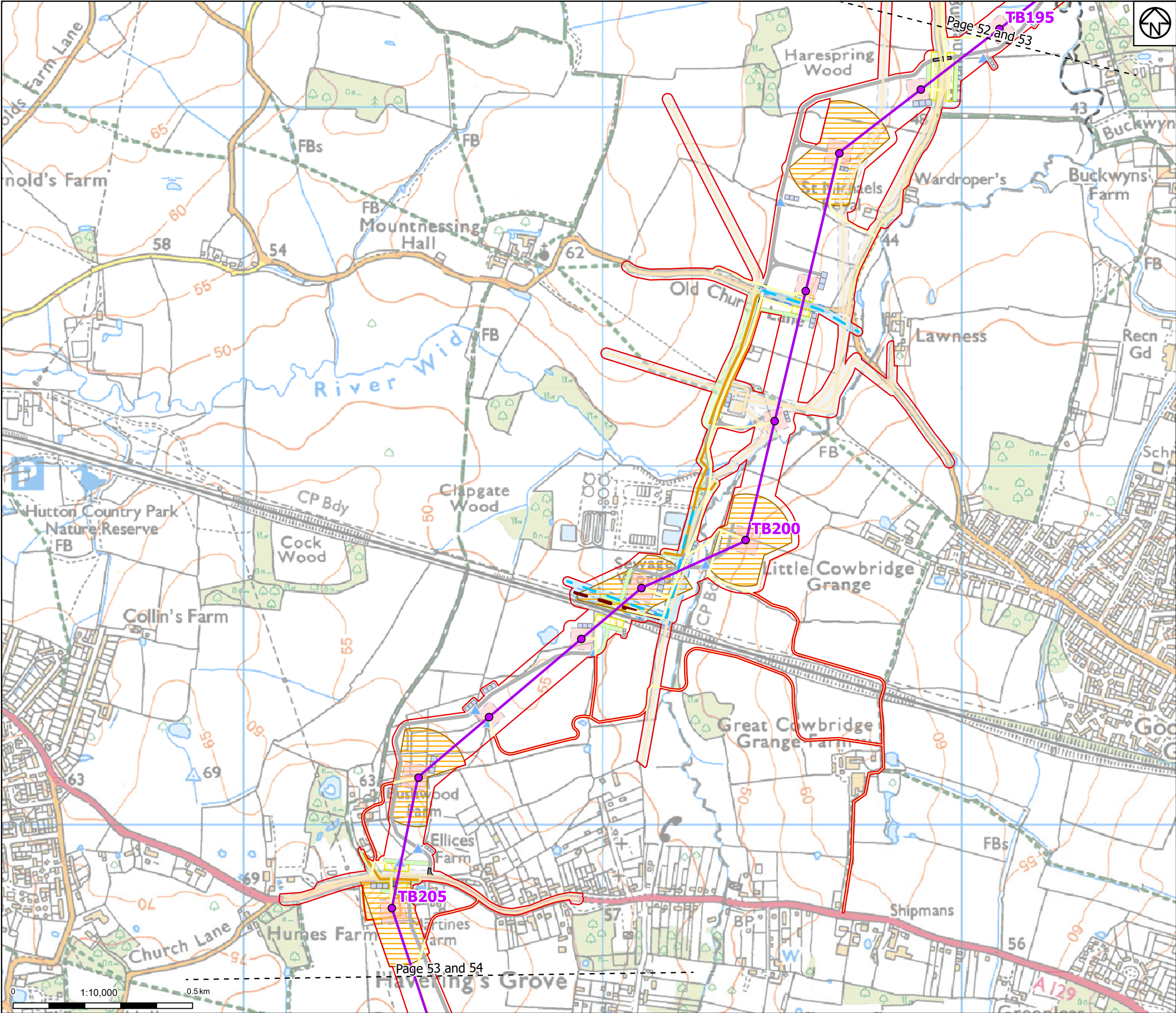
Suitability Description:  
Accepted as Concept Stage

Drawing Number:	10051663-ARC-EGN-ZZ-DR-ZZ-00051	Revision:	B
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Draft order limits

Project section line

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

Proposed 33kV overhead line mitigation required

BT overhead line mitigation

Pipeline cathodic protection

Proposed temporary design details

Proposed overhead line access routes water crossing

Proposed overhead line watercourse crossings

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed BT overhead line mitigation work area

Proposed pipeline cathodic protection work area

Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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Norwich

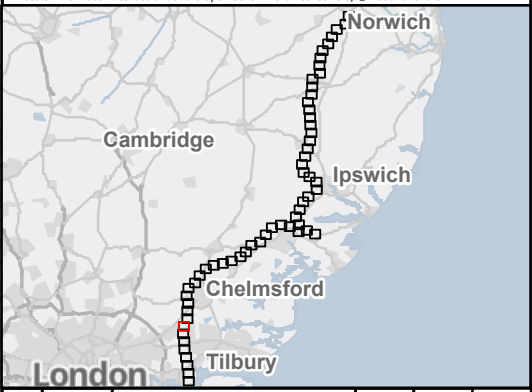
Cambridge

Ipswich

Chelmsford

Tilbury

London



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B	June 2024	FOR STATUTORY CONSULTATION	KF	AF	KB
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nationalgrid

PROJECT:

Norwich to Tilbury

Title:

Figure 4.1 - Project Description - Proposed Project Design  
Page 53 of 60

Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:

Accepted as Concept Stage

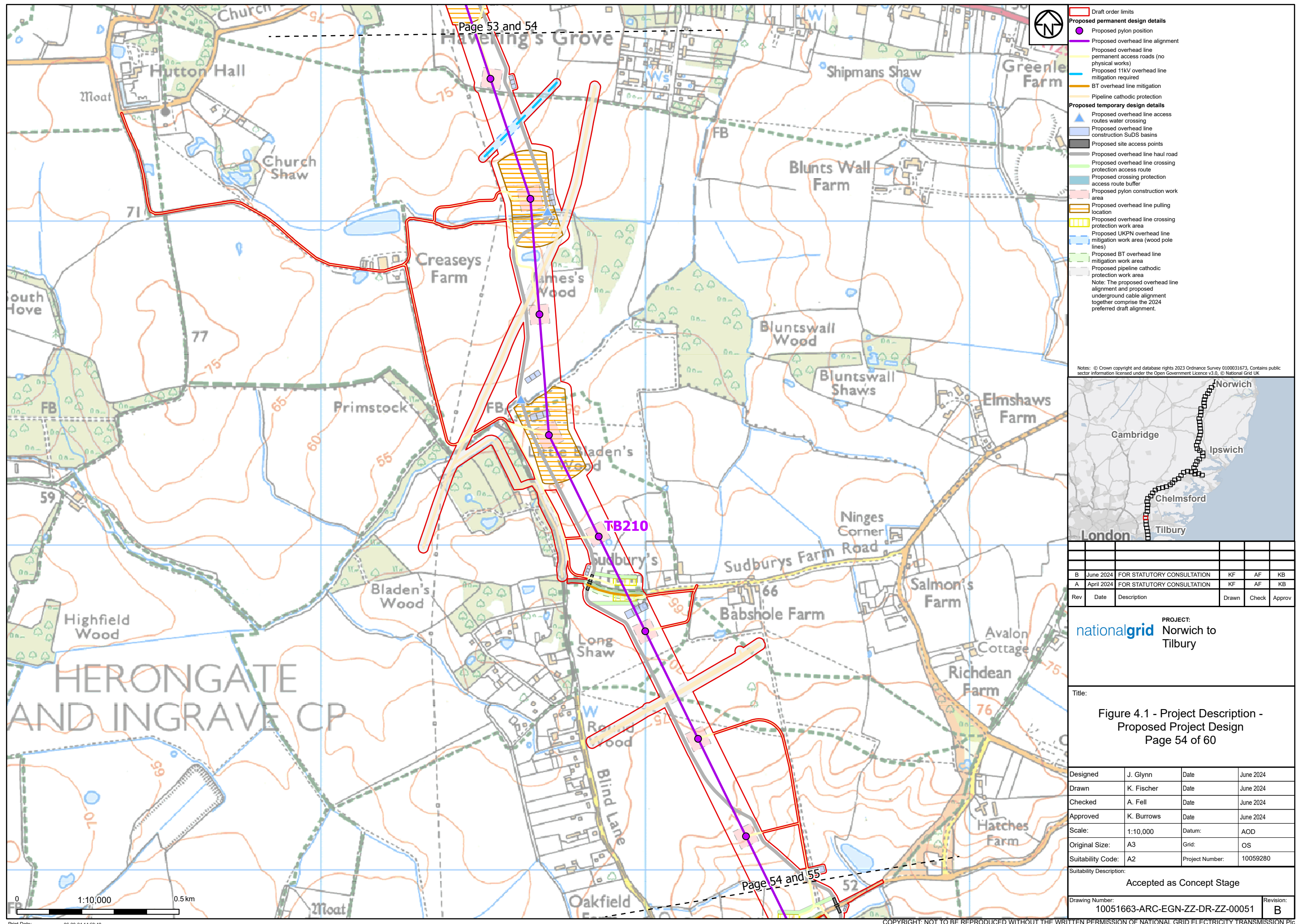
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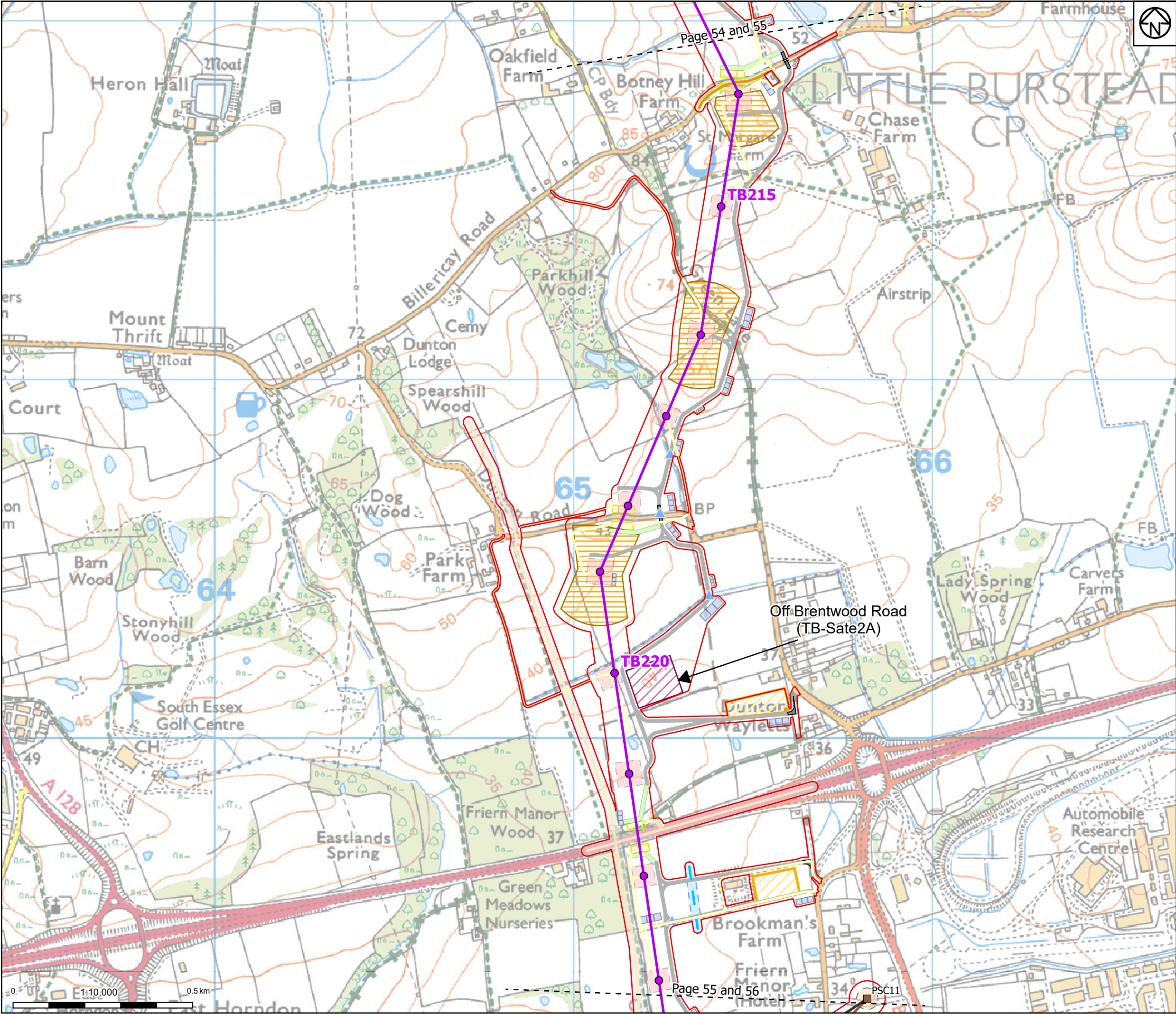
Revision:

B









Draft order limits

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

BT overhead line mitigation

Pipeline cathodic protection

Proposed temporary design details

Satellite construction compound

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line existing tower (to be modified)

Proposed UKPN existing centreline (modified)

Proposed UKPN temporary diversion centreline

Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed UKPN overhead line temporary works

Proposed BT overhead line mitigation work area

Proposed pipeline cathodic protection work area

Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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A	April 2024	FOR STATUTORY CONSULTATION	KF	AF	KB

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PROJECT:

Norwich to Tilbury

Title:  
  
Figure 4.1 - Project Description -  
Proposed Project Design  
Page 55 of 60

Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
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Accepted as Concept Stage

Drawing Number:

10051663-ARC-EGN-ZZ-DR-ZZ-00051

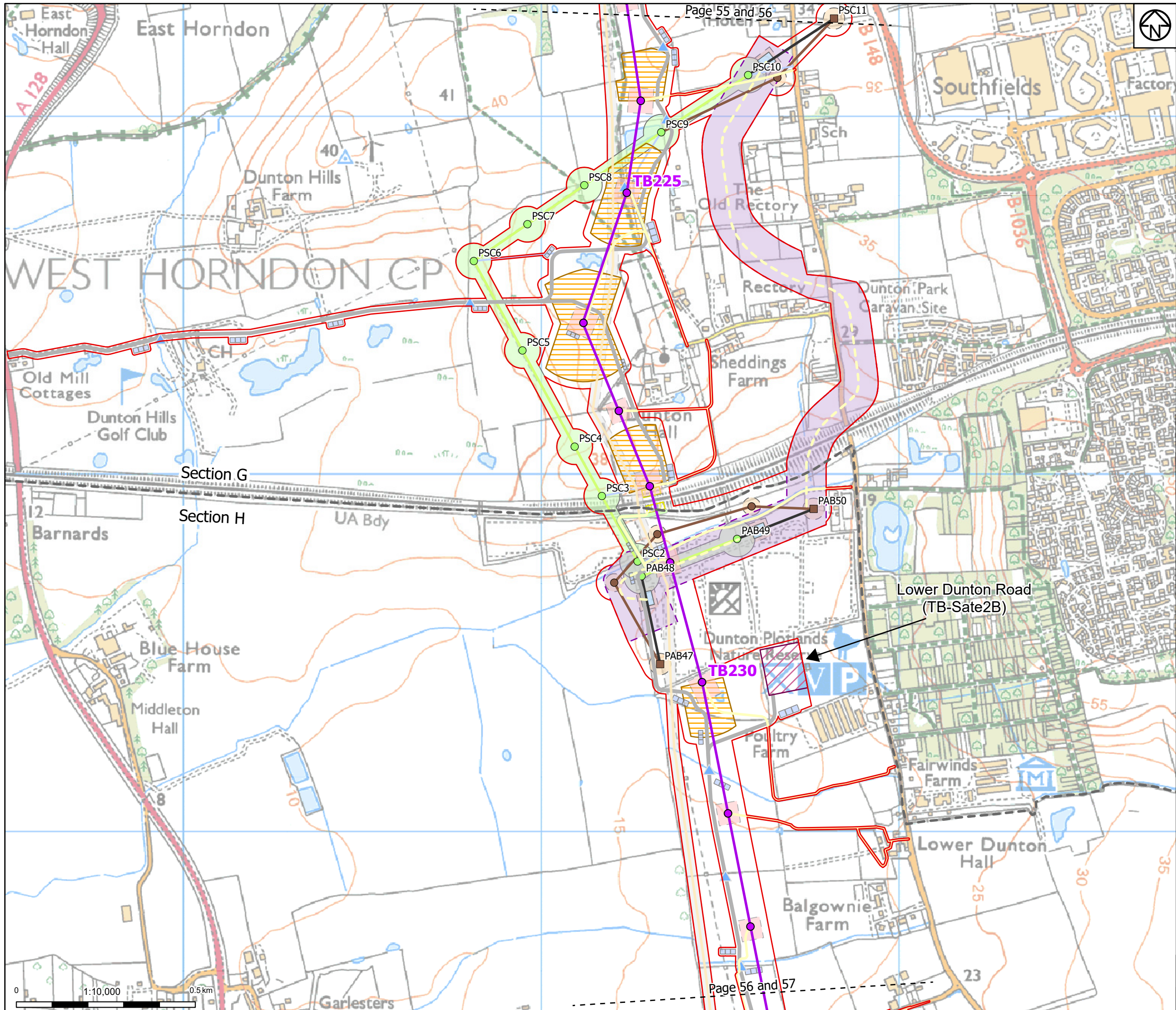
Revision:

B

Print Date: 06-20-24 14:58:51

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- Draft order limits

Project section line

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed UKPN cable centreline

Pipeline cathodic protection

Proposed temporary design details

Satellite construction compound

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line dismantle towers

Proposed UKPN overhead line existing tower (to be modified)

Proposed UKPN overhead line temporary structures (only angles)

Proposed UKPN dismantle centreline

Proposed UKPN existing centreline (modified)

Proposed UKPN temporary diversion centreline

Proposed UKPN tower access

Proposed UKPN cable construction swathe

Proposed UKPN cable construction swathe

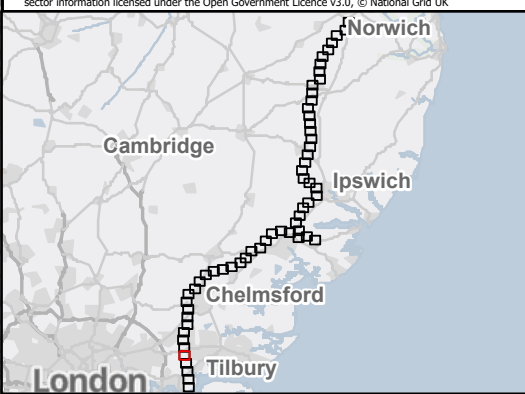
Proposed UKPN cable sealing end platform

Proposed UKPN overhead line temporary works

Proposed pipeline cathodic protection work area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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Rev	Date	Description	Drawn	Check	Approv
B	June 2024	FOR STATUTORY CONSULTATION	KF	AF	KB
A	April 2024	FOR STATUTORY CONSULTATION	KF	AF	KB

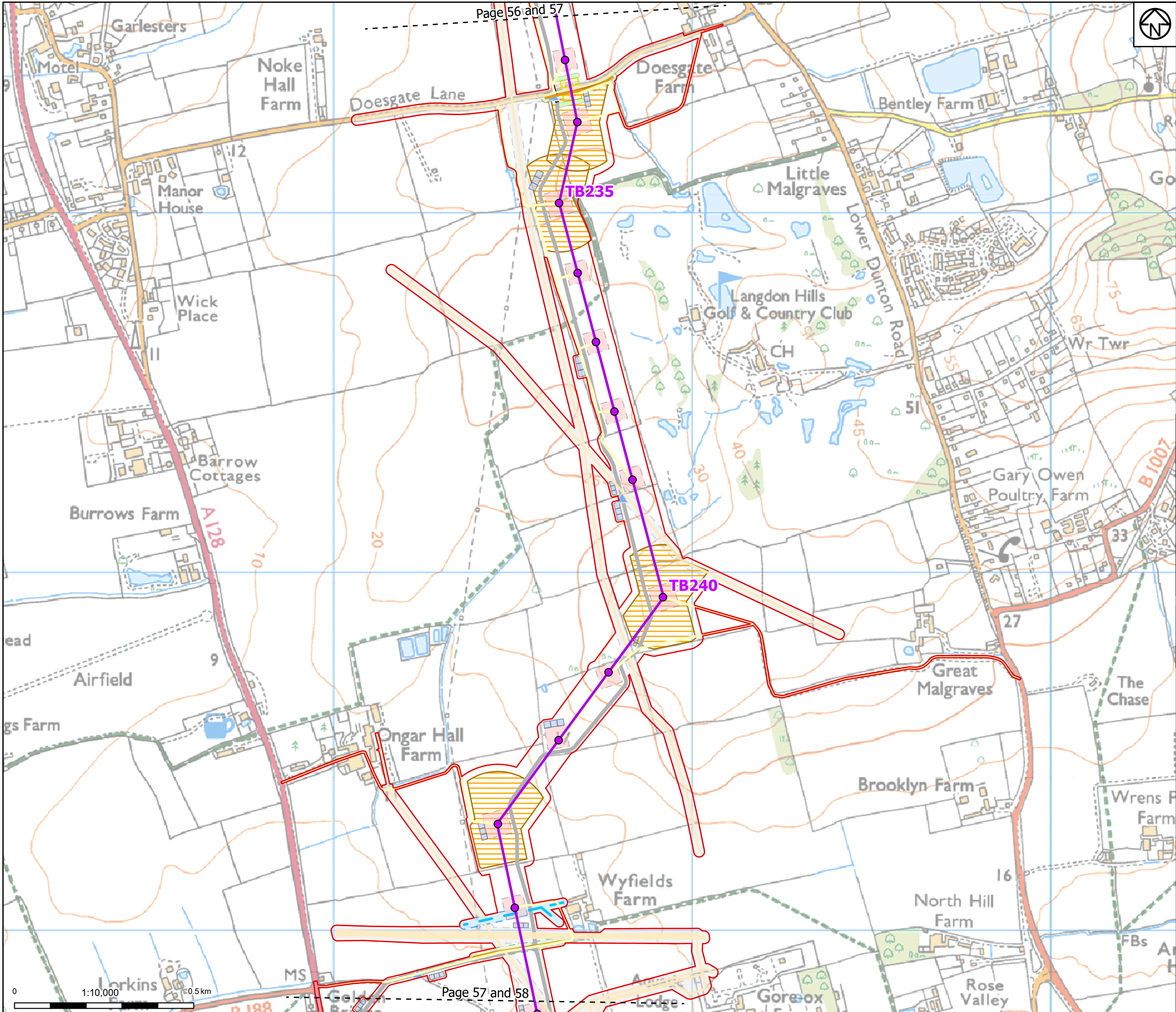
nationalgrid

PROJECT:  
Norwich to  
Tilbury

Title:  
  
Figure 4.1 - Project Description -  
Proposed Project Design  
Page 56 of 60

Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280
Suitability Description: Accepted as Concept Stage			
Drawing Number: 10051663-ARC-EGN-ZZ-DR-ZZ-00051			Revision: B





Draft order limits

Proposed permanent design details

Proposed pylon position

Proposed overhead line alignment

Proposed overhead line permanent access roads (no physical works)

Proposed 11kV overhead line mitigation required

BT overhead line mitigation

Pipeline cathodic protection

Proposed temporary design details

Proposed overhead line access routes water crossing

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

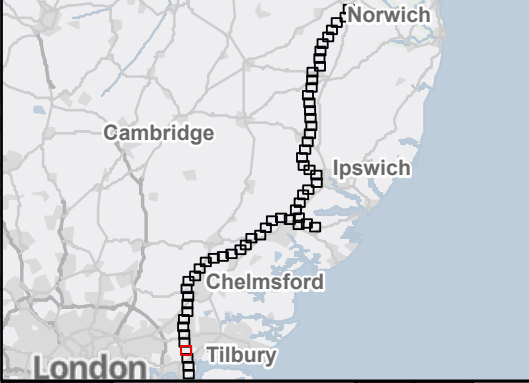
Proposed UKPN overhead line mitigation work area (wood pole lines)

Proposed BT overhead line mitigation work area

Proposed pipeline cathodic protection work area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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Rev	Date	Description	Drawn	Check	Approv

PROJECT:  
Norwich to  
Tilbury

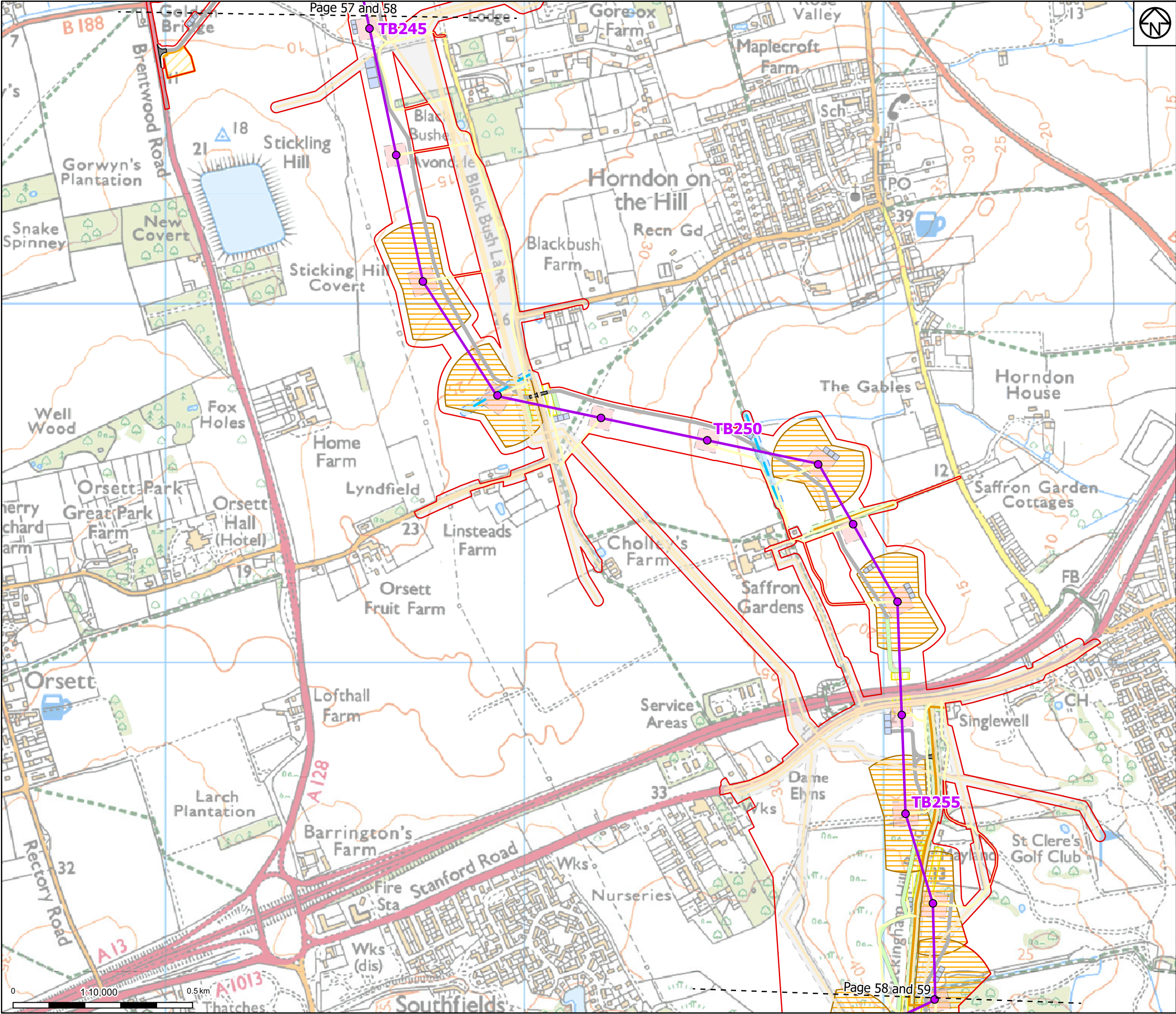
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Figure 4.1 - Project Description -  
Proposed Project Design  
Page 57 of 60

Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:  
Accepted as Concept Stage

Drawing Number:	10051663-ARC-EGN-ZZ-DR-ZZ-00051	Revision:	B
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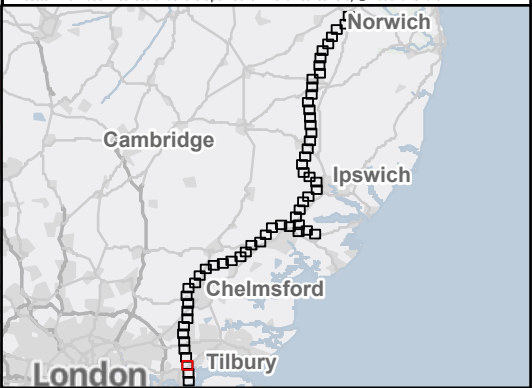
Page 57 and 58

Legend:

- Proposed permanent design details**
  - Proposed pylon position
  - Proposed overhead line alignment
  - Proposed overhead line permanent access roads (no physical works)
  - Proposed 11kV overhead line mitigation required
  - BT overhead line mitigation
  - Pipeline cathodic protection
- Proposed temporary design details**
  - Proposed overhead line access routes water crossing
  - Proposed overhead line construction SuDS basins
  - Proposed site access points
  - Proposed overhead line haul road
  - Proposed overhead line crossing protection access route
  - Proposed crossing protection access route buffer
  - Proposed pylon construction work area
  - Proposed overhead line pulling location
  - Proposed overhead line crossing protection work area
  - Proposed UKPN overhead line mitigation work area (wood pole lines)
  - Proposed BT overhead line mitigation work area
  - Proposed pipeline cathodic protection work area
  - Proposed construction laydown areas

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT: **Norwich to Tilbury**

nationalgrid

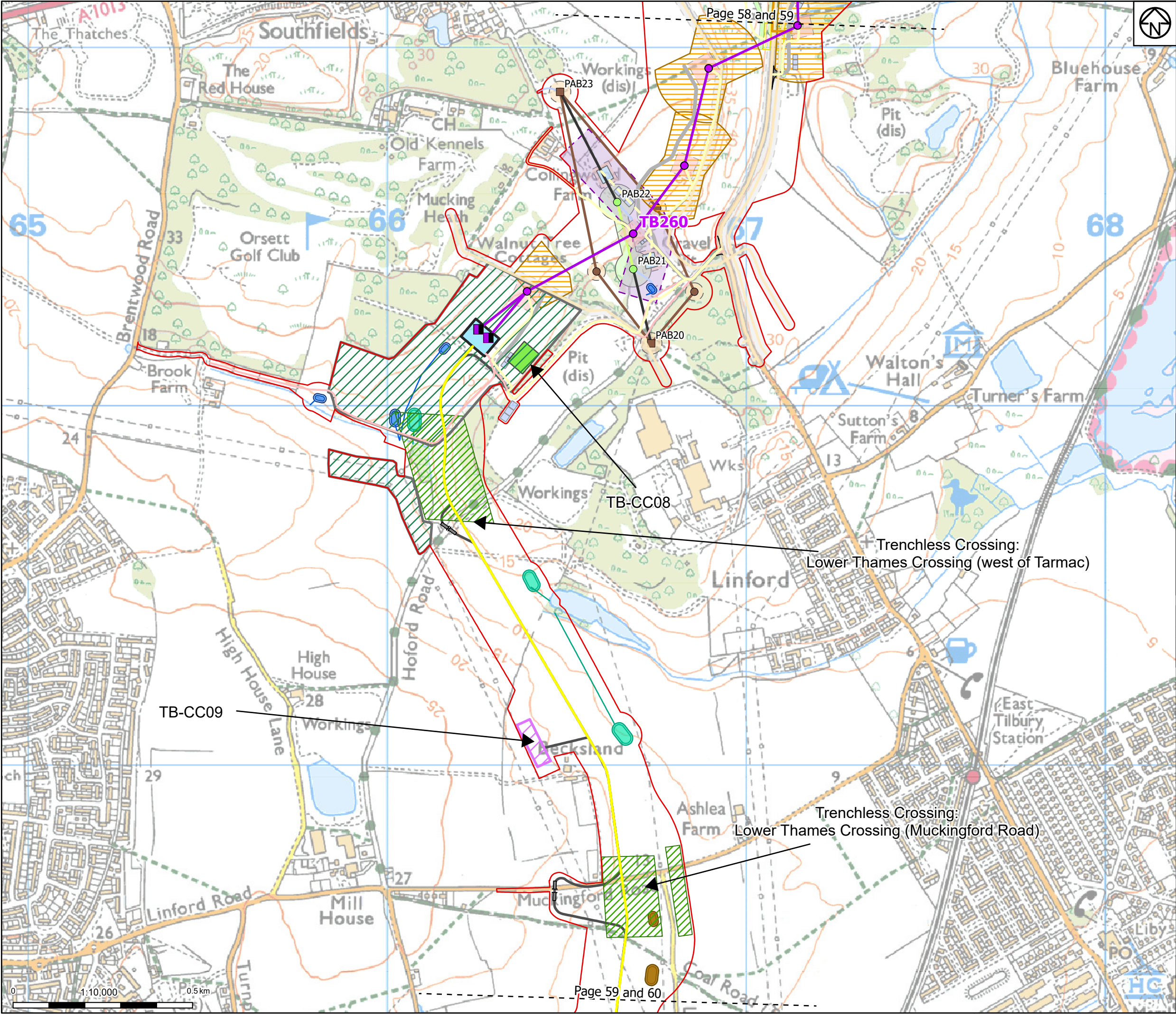
Title: **Figure 4.1 - Project Description - Proposed Project Design**  
Page 58 of 60

Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:10,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description: **Accepted as Concept Stage**

Drawing Number:	10051663-ARC-EGN-ZZ-DR-ZZ-00051	Revision:	B
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- Draft order limits

Proposed permanent design details

Proposed full line tension gantry

Proposed pylon position

Proposed overhead line alignment

Proposed underground cable alignment

Proposed overhead line permanent access roads (no physical works)

Proposed substation / CSEC permanent access roads

Proposed UKPN cable centreline

BT overhead line mitigation

Pipeline cathodic protection

Proposed cable sealing end compound

Proposed trenchless crossings

Proposed environmental areas

Proposed permanent attenuation drainage channel

Proposed permanent attenuation drainage pond

Proposed underground cable construction compound

Proposed CSE compound/substation construction compound

Proposed overhead line access routes water crossing

Proposed temporary attenuation drainage

Proposed temporary infiltration drainage

Proposed temporary attenuation drainage

Proposed overhead line construction SuDS basins

Proposed site access points

Proposed cabling haul road

Proposed temporary construction haul road

Proposed overhead line haul road

Proposed overhead line crossing protection access route

Proposed crossing protection access route buffer

Proposed pylon construction work area

Proposed overhead line pulling location

Proposed overhead line crossing protection work area

Proposed UKPN overhead line dismantle towers

Proposed UKPN overhead line existing tower (to be modified)

Proposed UKPN overhead line temporary structures (only angles)

Proposed UKPN dismantle centreline

Proposed UKPN existing centreline (modified)

Proposed UKPN temporary diversion centreline

Proposed UKPN tower access

Proposed UKPN cable construction swathe

Proposed UKPN cable construction swathe

Proposed UKPN cable sealing end platform

Proposed UKPN overhead line temporary works

Proposed BT overhead line mitigation work area

Proposed pipeline cathodic protection work area
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.



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PROJECT:

Norwich to Tilbury

Figure 4.1 - Project Description - Proposed Project Design  
Page 59 of 60

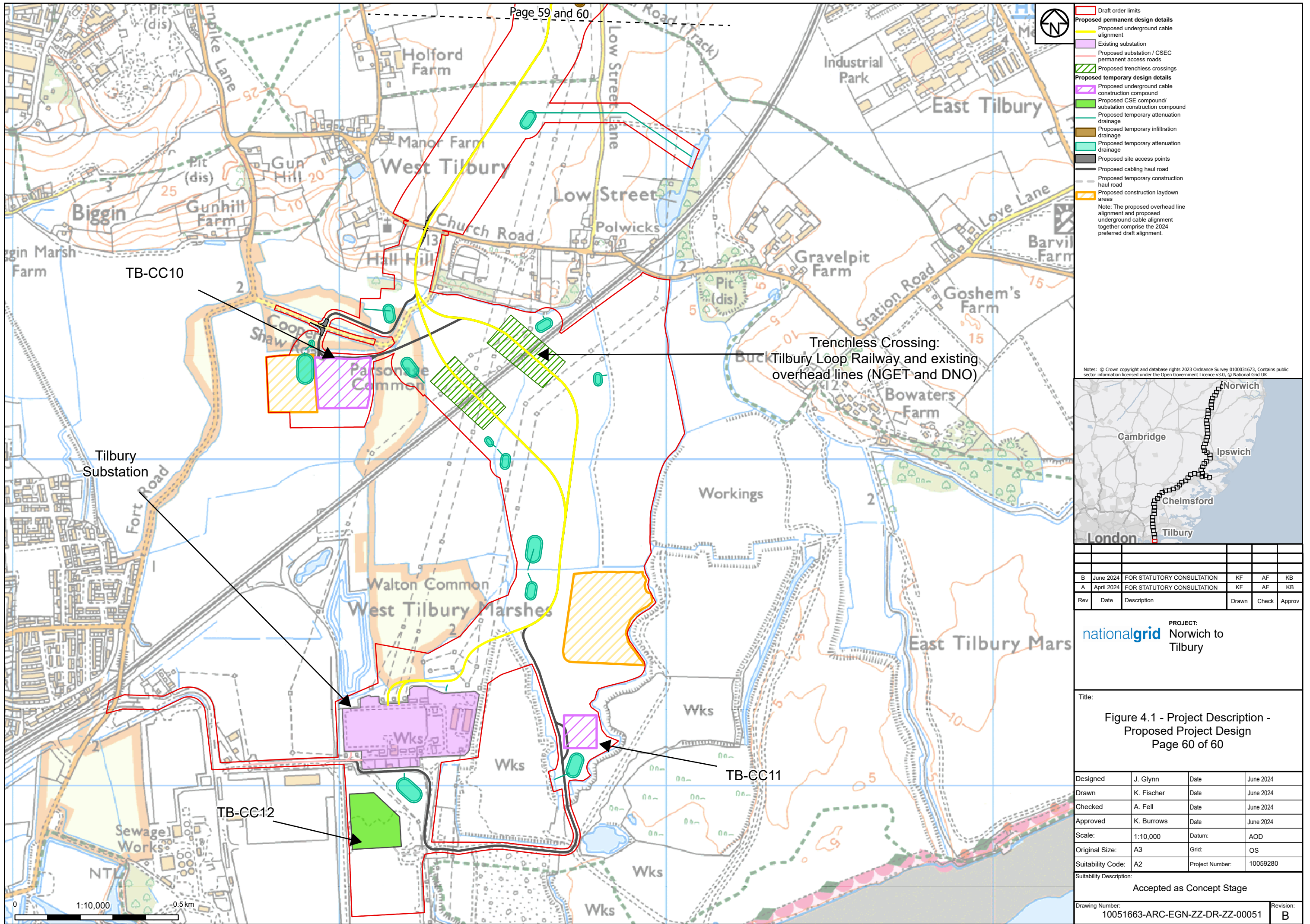
Designed	J. Glynn	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

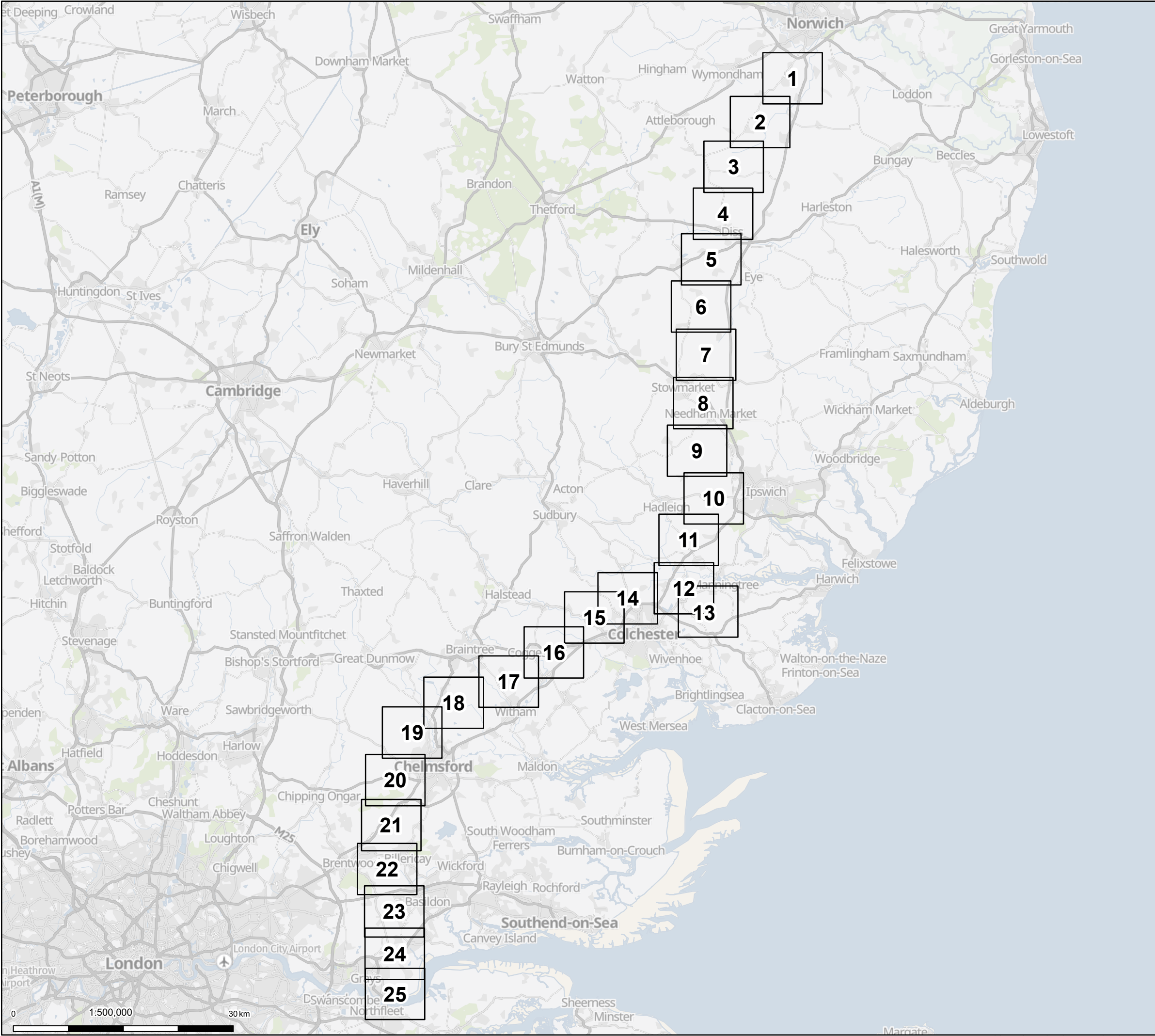
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Pages

Note: This figure has been revised. This does not affect the preliminary assessment in the PEIR. For more details we refer you to the Errata and Corrections Log (June 2024) on the Project website

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PROJECT:  
Norwich to  
Tilbury

Title:  
  
Figure 6.1 - Agriculture and Soils -  
Agriculture and Soils Study Area  
Overview

Designed	J. Glynn	Date	June 2024
Drawn	S. Bhandarkar	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:500,000	Datum:	AOD
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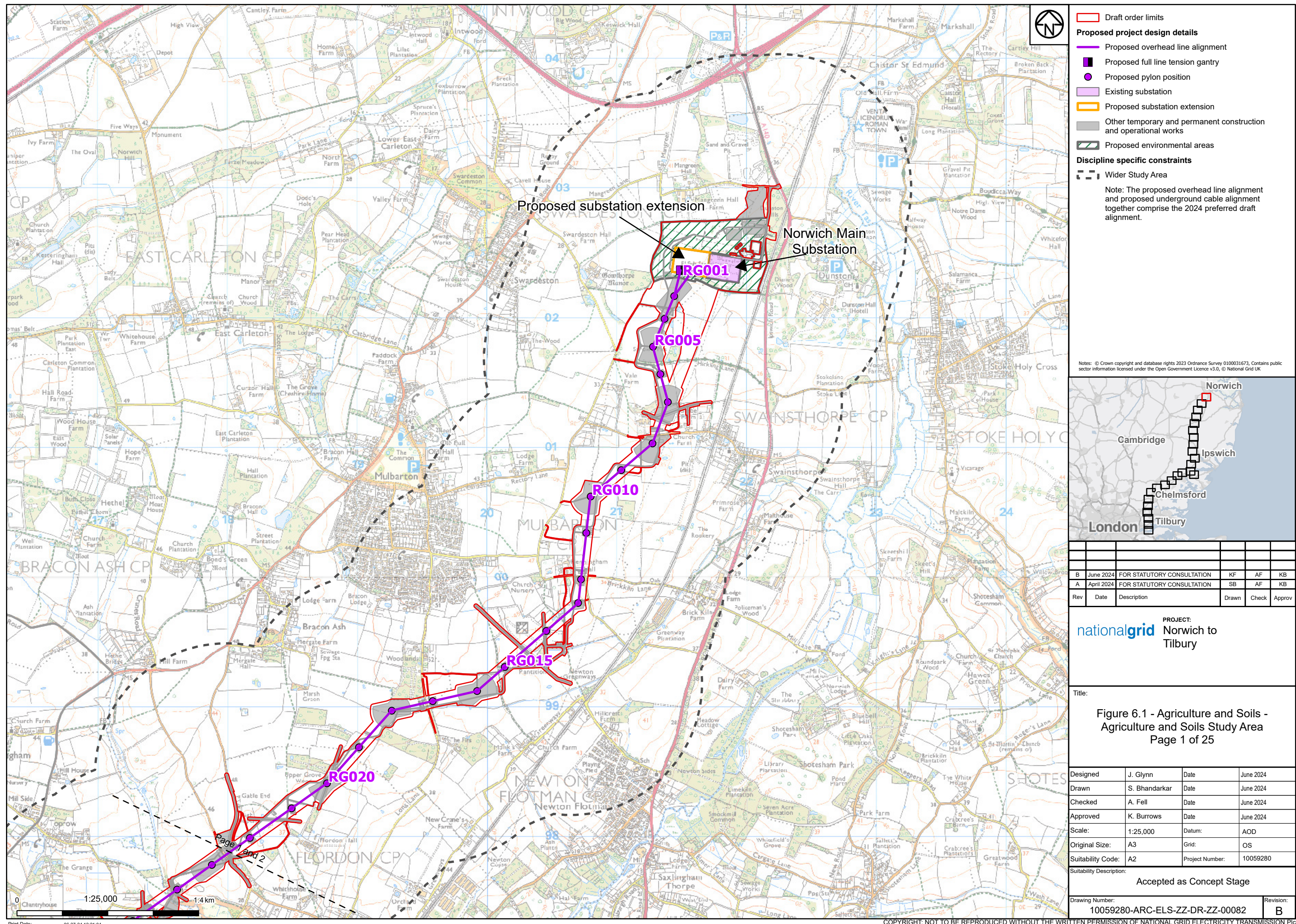
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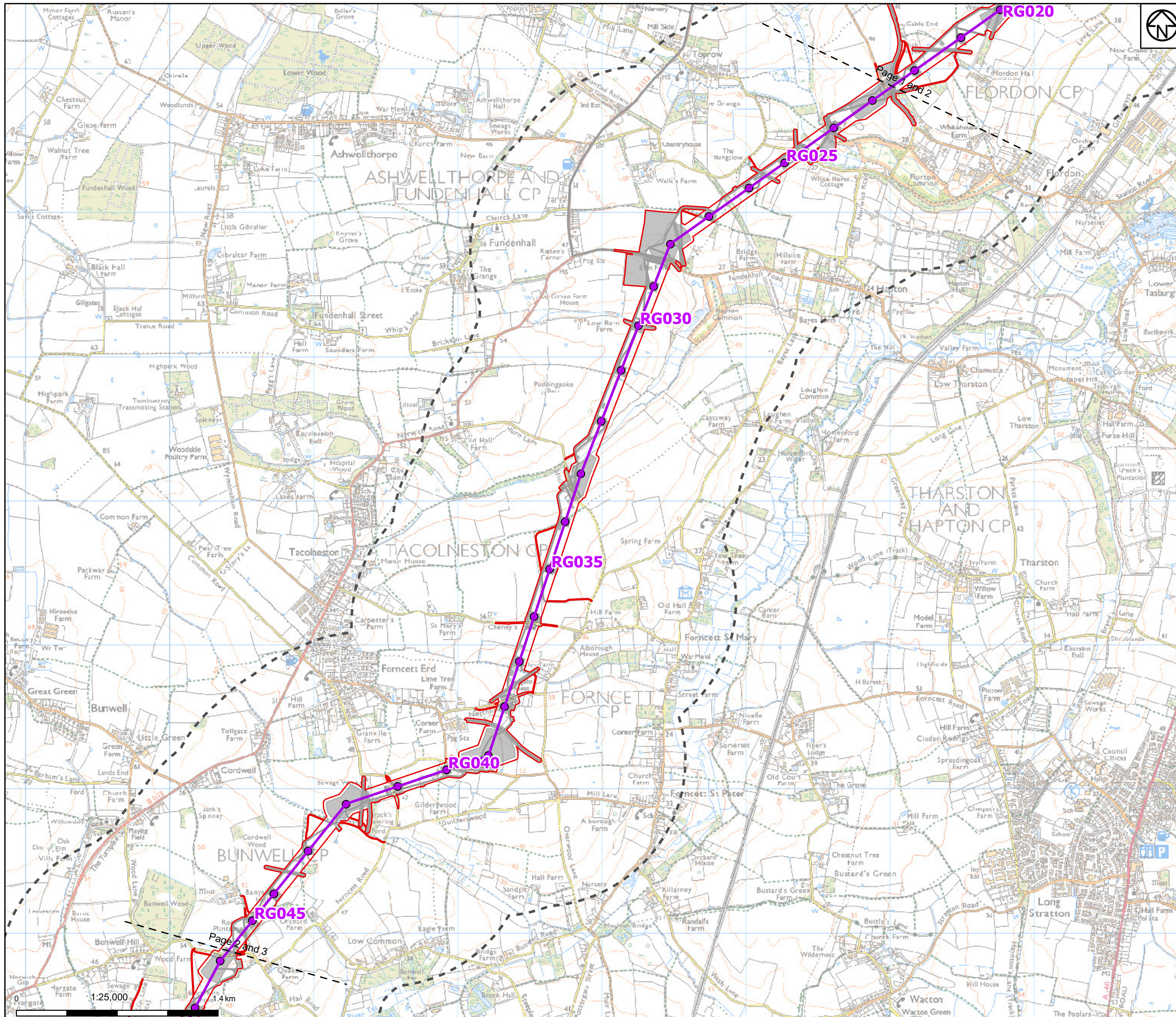
Drawing Number:  
10059280-ARC-ELS-ZZ-DR-ZZ-00082

Revision:  
B









Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Wider Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.



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B	June 2024	FOR STATUTORY CONSULTATION	KF	AF	KB
A	April 2024	FOR STATUTORY CONSULTATION	SB	AF	KB

PROJECT:  
Norwich to  
Tilbury

Title:  
  
Figure 6.1 - Agriculture and Soils -  
Agriculture and Soils Study Area  
Page 2 of 25

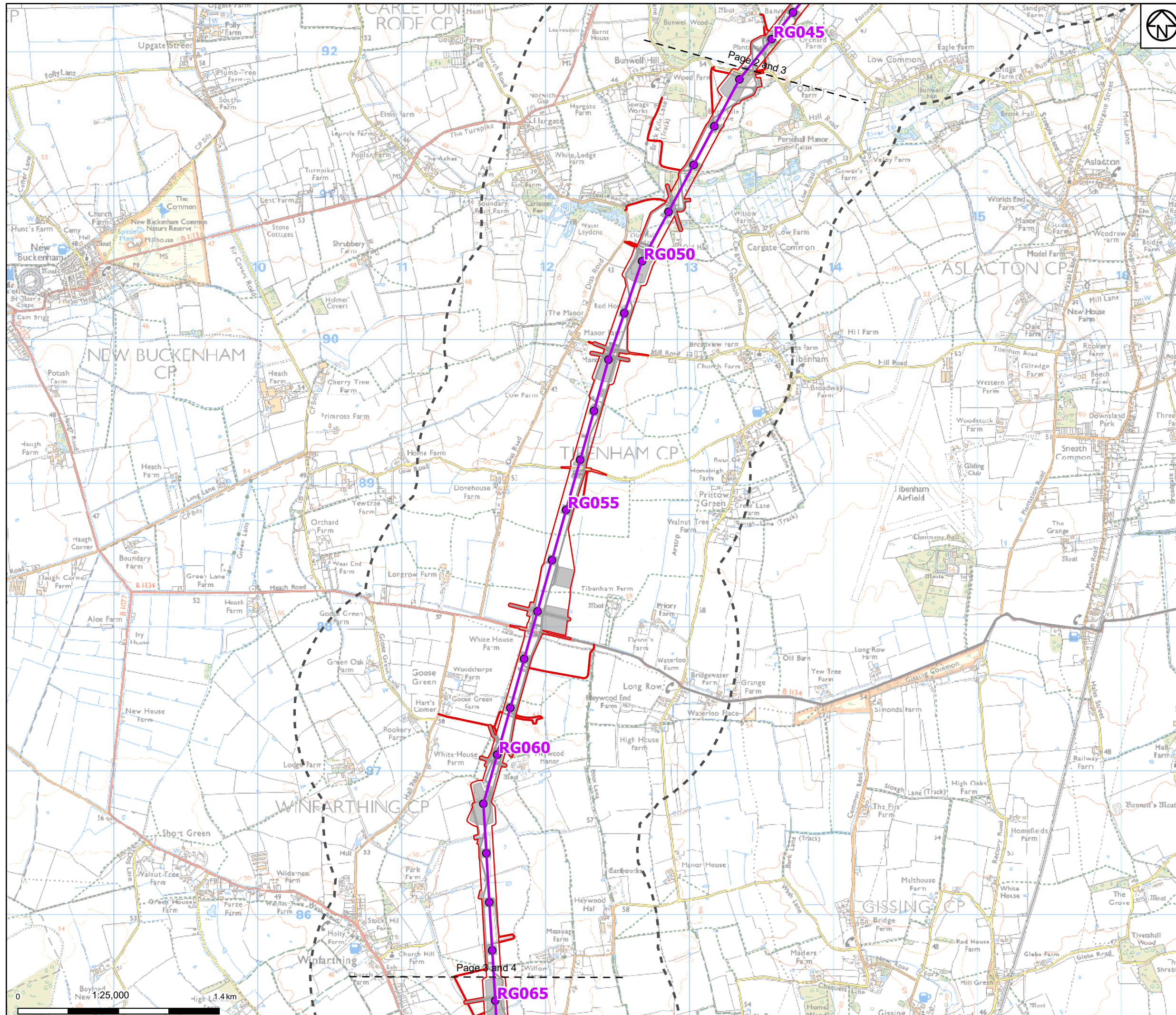
Designed	J. Glynn	Date	June 2024
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Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number:  
10059280-ARC-ELS-ZZ-DR-ZZ-00082

Revision:  
B





Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Wider Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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B	June 2024	FOR STATUTORY CONSULTATION	KF	AF	KB
A	April 2024	FOR STATUTORY CONSULTATION	SB	AF	KB

PROJECT:  
Norwich to  
Tilbury

Title:  
  
Figure 6.1 - Agriculture and Soils -  
Agriculture and Soils Study Area  
Page 3 of 25

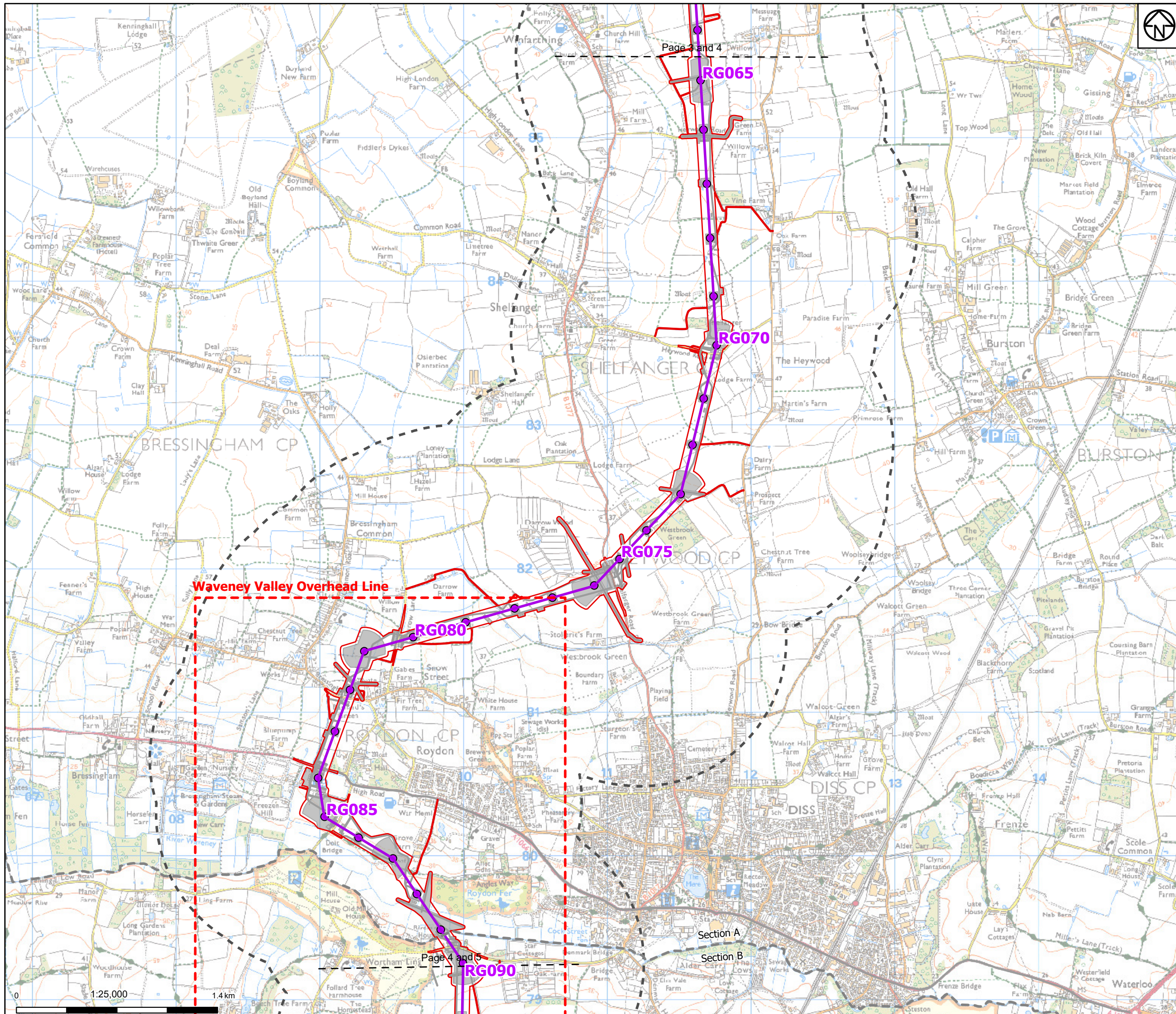
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Revision:  
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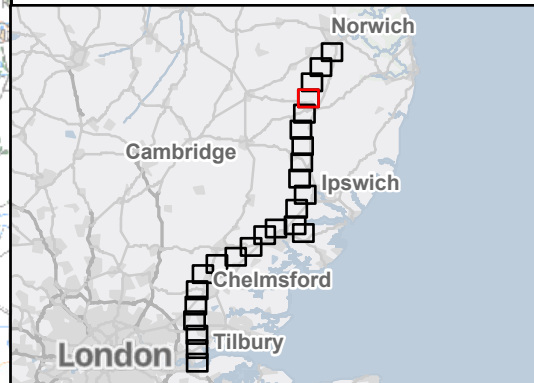




- Draft order limits
- Project sections
- Proposed project design details**
  - Proposed overhead line alignment
  - Proposed pylon position
  - Other temporary and permanent construction and operational works
- Discipline specific constraints**
  - Wider Study Area

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 PROJECT:  
Norwich to  
Tilbury

Title:  
**Figure 6.1 - Agriculture and Soils -  
Agriculture and Soils Study Area  
Page 4 of 25**

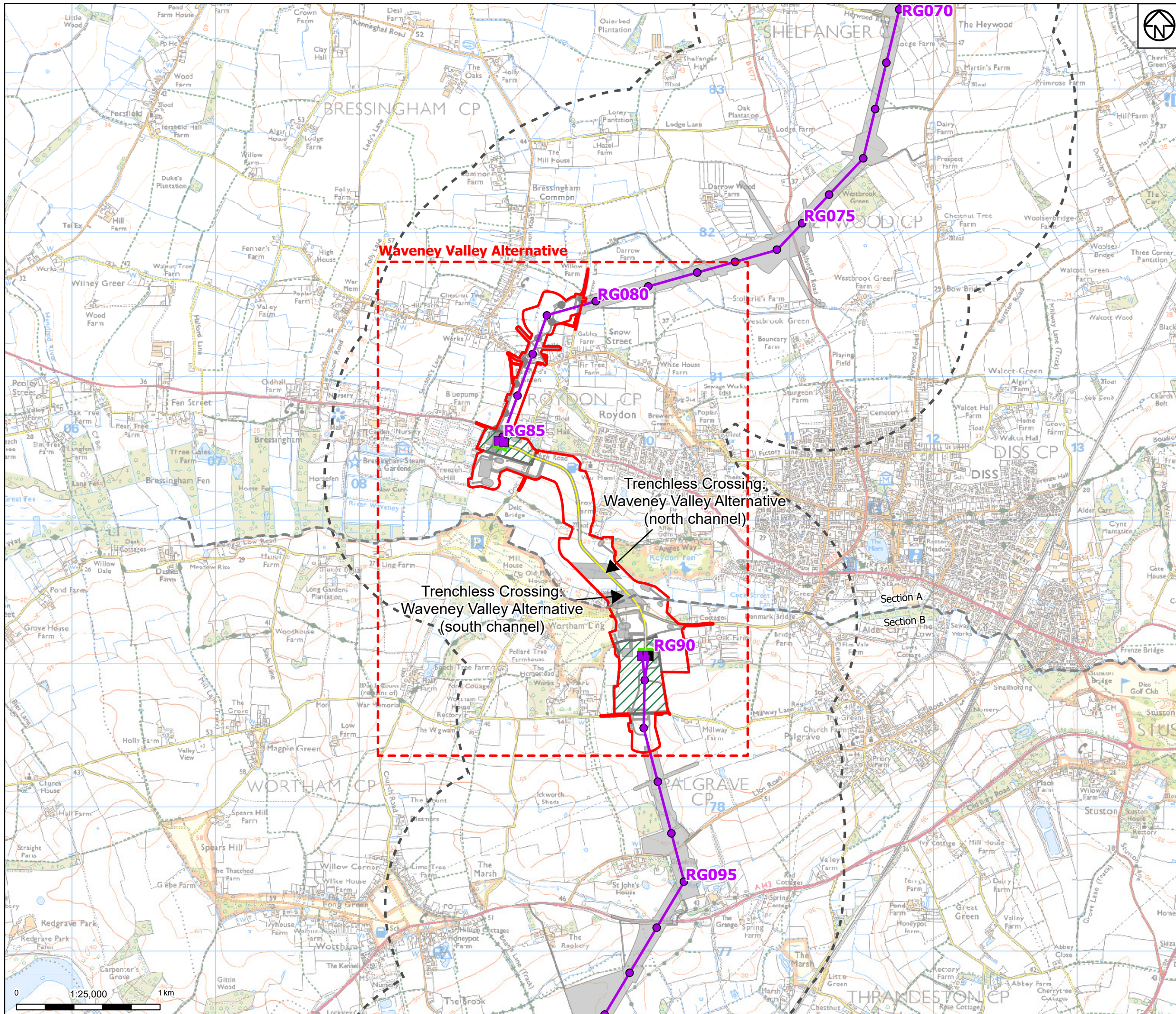
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Revision:  
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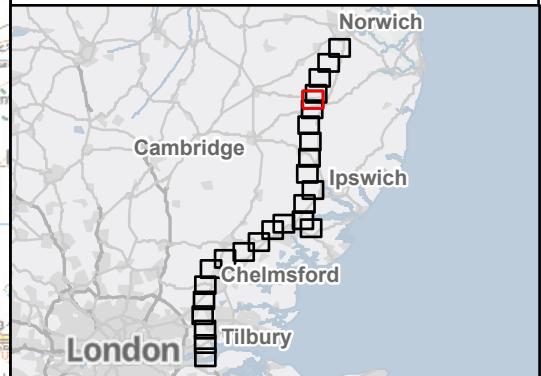




- Draft order limits
- Project sections
- Proposed Project Design Details**
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  - Proposed full line tension gantry
  - Proposed low duty gantry
  - Proposed pylon position
  - Proposed underground cable alignment
  - Proposed cable sealing end compound
  - Proposed environmental areas
  - Other temporary and permanent construction and operational works
- Discipline specific constraints**
  - Wider Study Area

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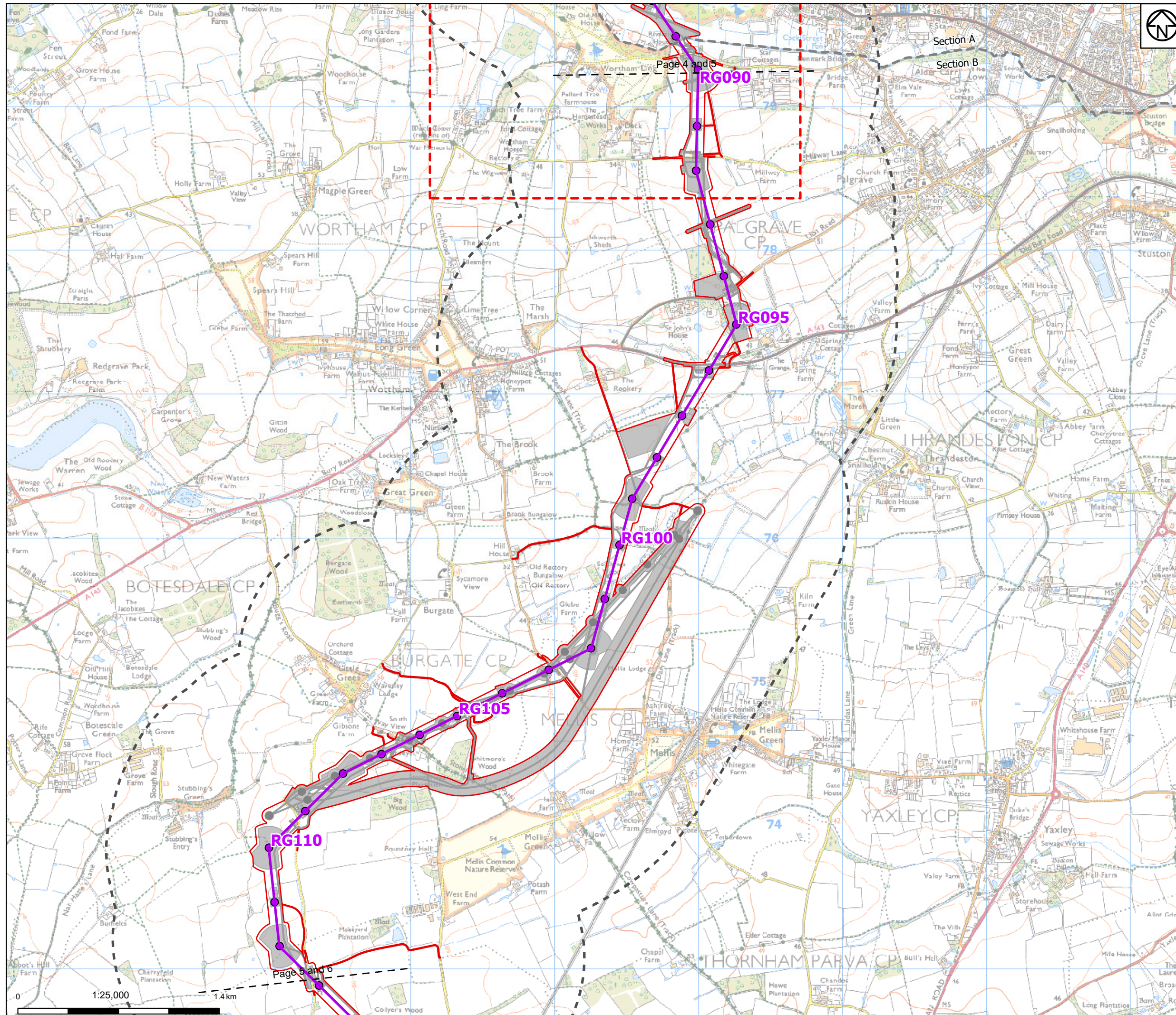
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Norwich to  
Tilbury

Title:  
**Figure 6.1 - Agriculture and Soils -  
Agriculture and Soils Study Area  
Page 4a of 25**

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Drawing Number: 10059280-ARC-ELS-ZZ-DR-ZZ-00082	Revision: <b>B</b>
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Draft order limits

Project sections

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Wider Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.



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PROJECT:

Norwich to Tilbury

Figure 6.1 - Agriculture and Soils - Agriculture and Soils Study Area  
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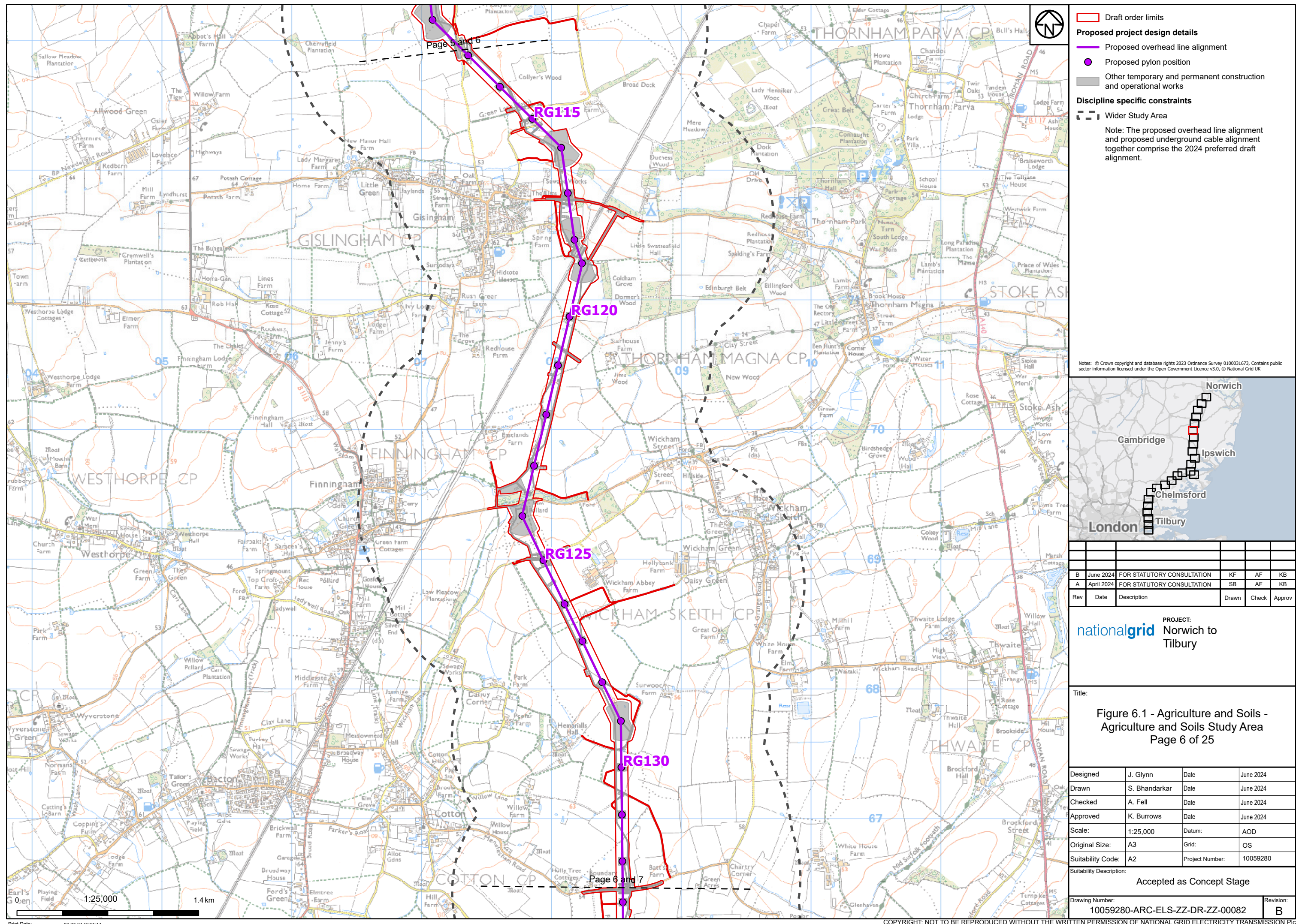
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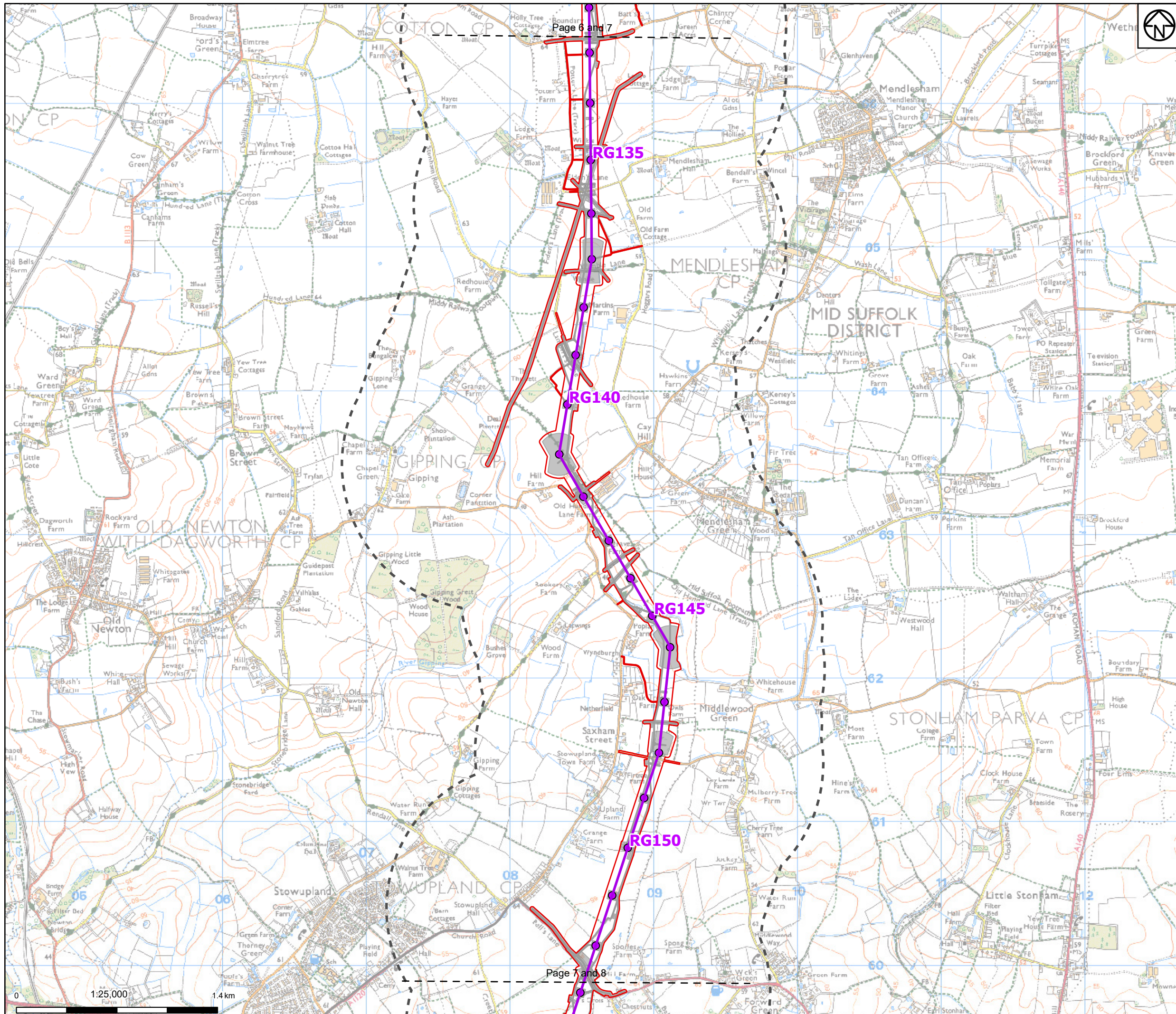
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Revision:  
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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Wider Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

Norwich to Tilbury

Title:

Figure 6.1 - Agriculture and Soils - Agriculture and Soils Study Area  
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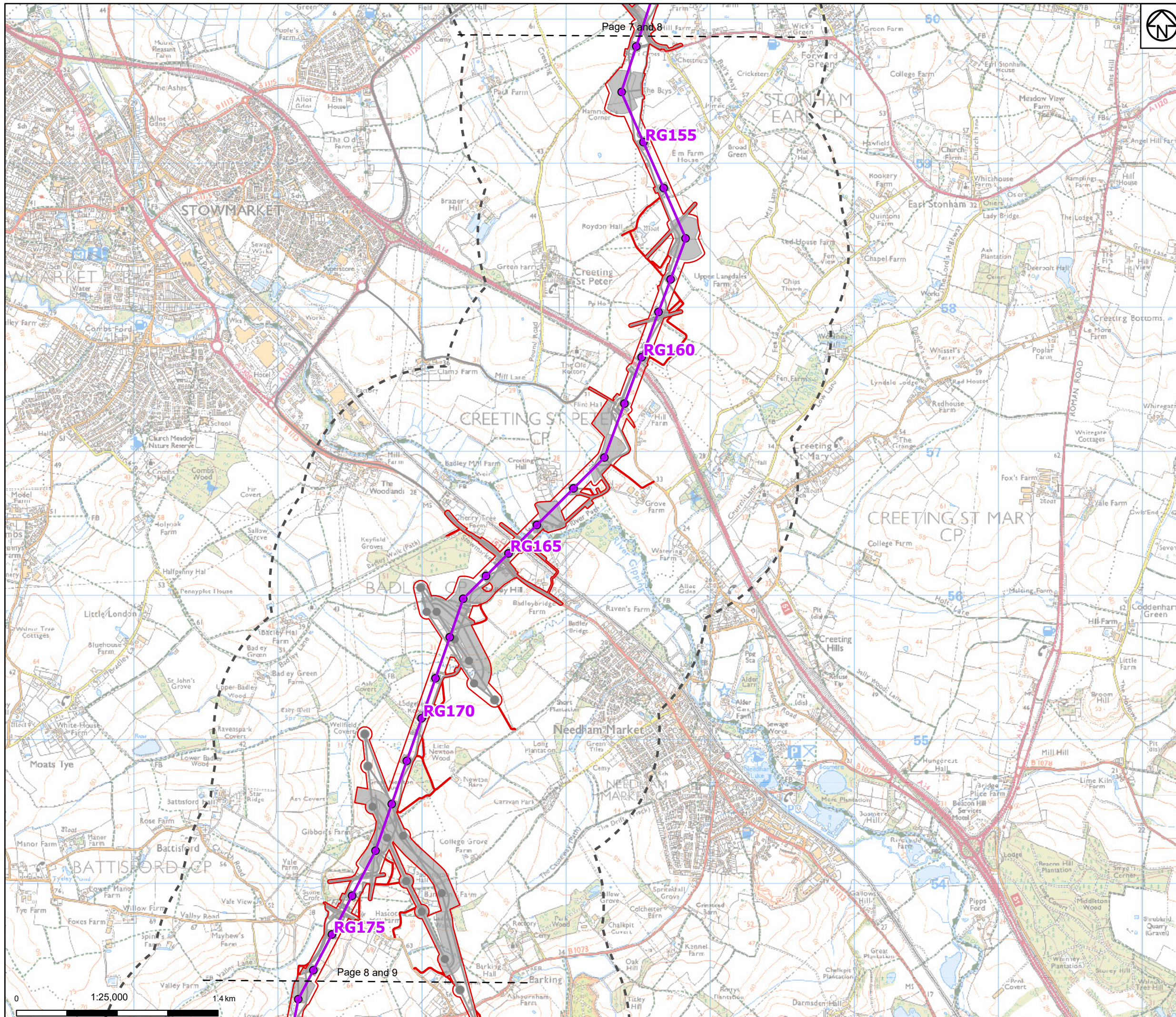
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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Wider Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

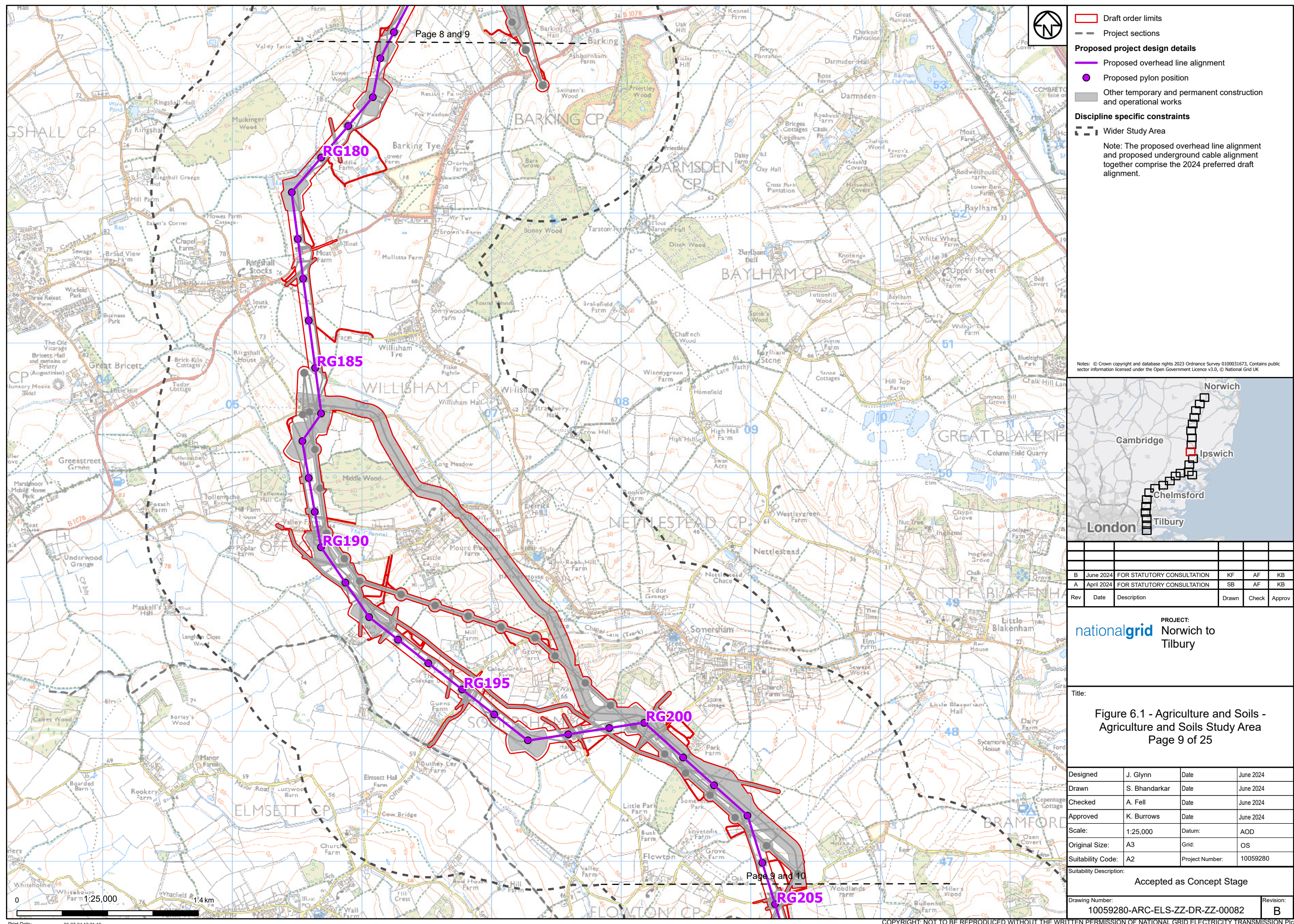
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Page 8 of 25

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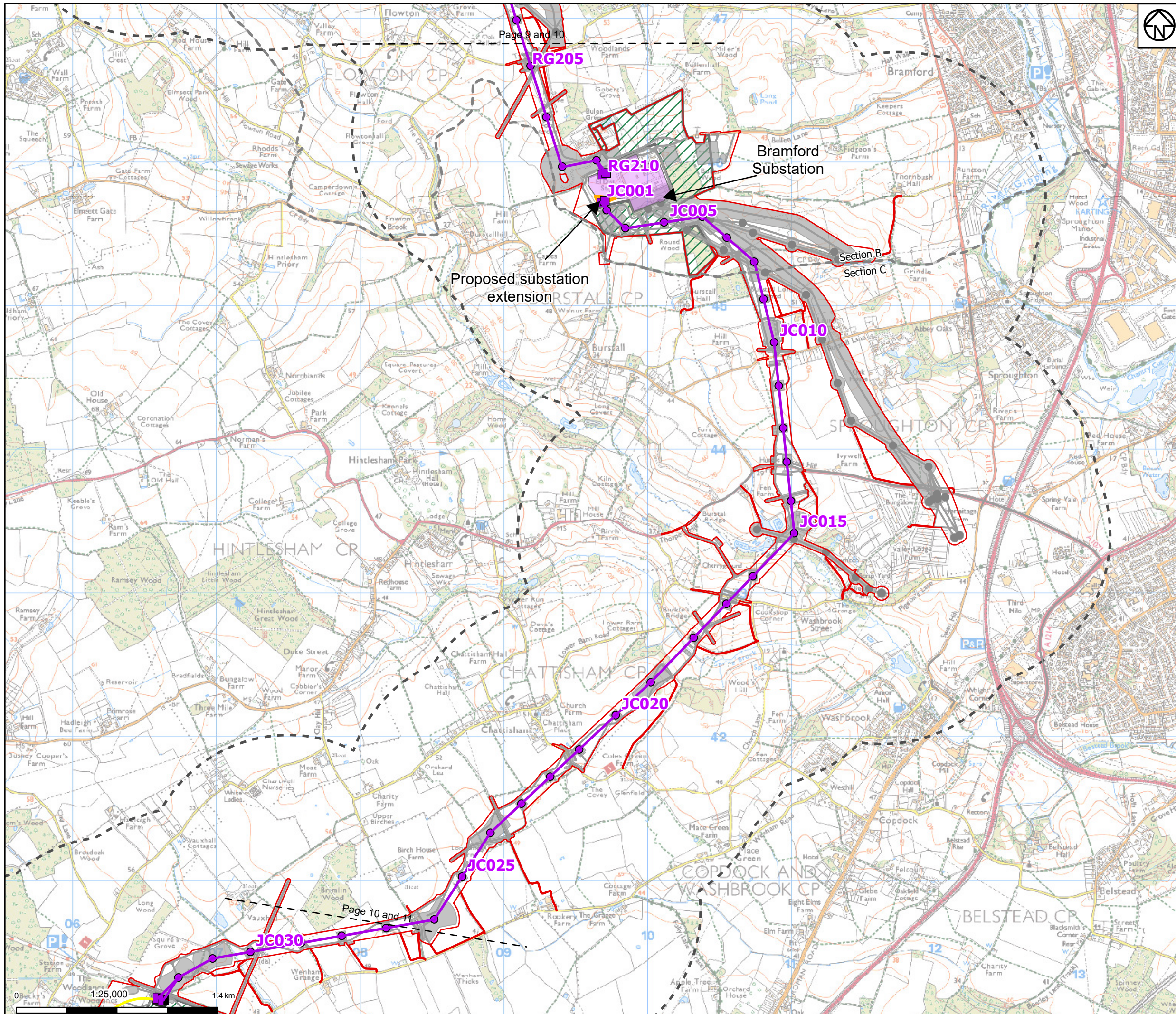
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Draft order limits

Project sections

Proposed project design details

Proposed overhead line alignment

Proposed full line tension gantry

Proposed low duty gantry

Proposed pylon position

Proposed underground cable alignment

Existing substation

Proposed substation extension

Proposed cable sealing end compound

Other temporary and permanent construction and operational works

Proposed environmental areas

Discipline specific constraints

Wider Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

Norwich to Tilbury

Title:  
Figure 6.1 - Agriculture and Soils - Agriculture and Soils Study Area  
Page 10 of 25

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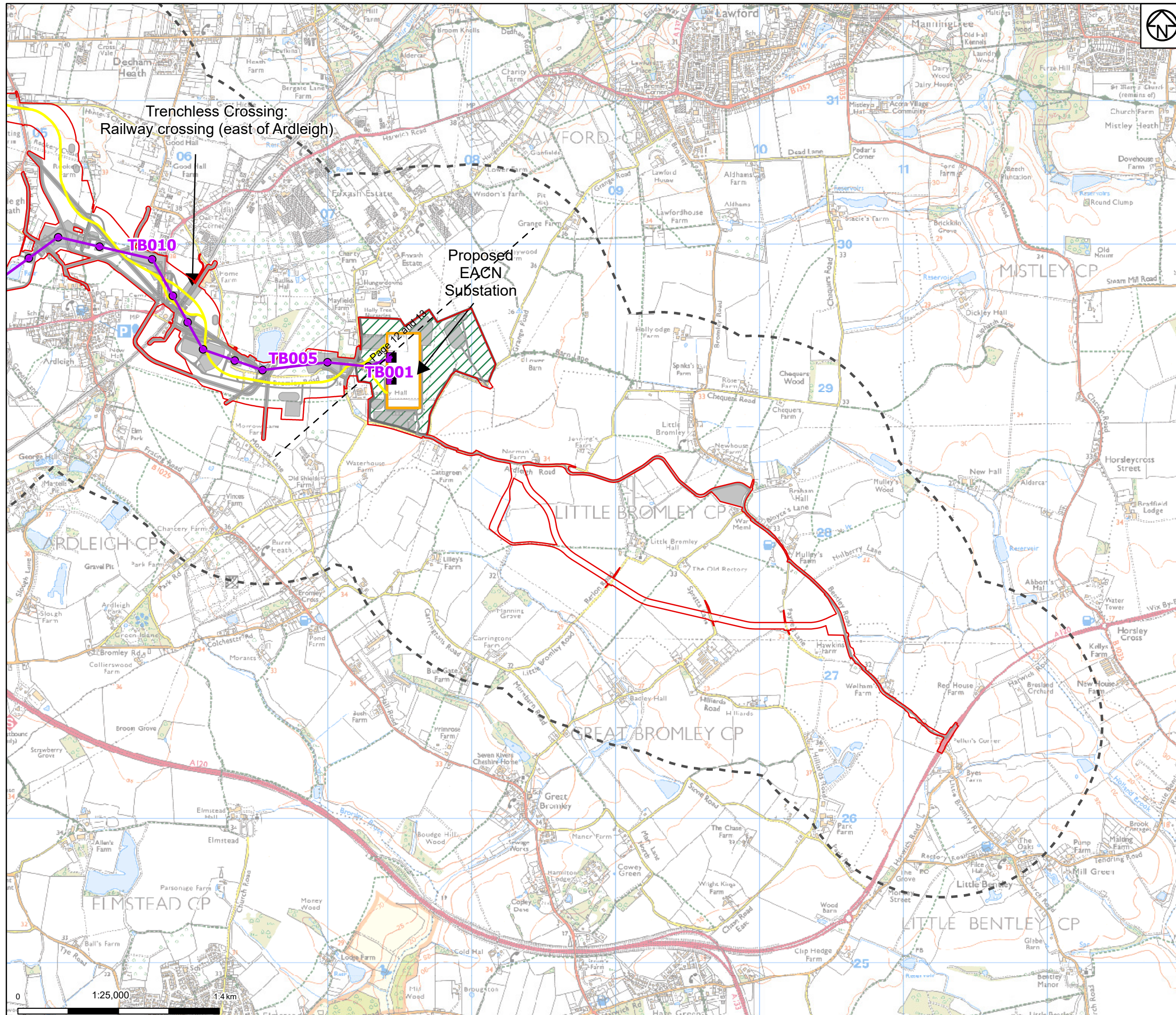












Draft order limits

**Proposed project design details**

Proposed overhead line alignment

Proposed full line tension gantry

Proposed pylon position

Proposed underground cable alignment

Proposed EACN substation

Other temporary and permanent construction and operational works

Proposed environmental areas

**Discipline specific constraints**

Wider Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

Norwich to Tilbury

Title:  
Figure 6.1 - Agriculture and Soils - Agriculture and Soils Study Area  
Page 13 of 25

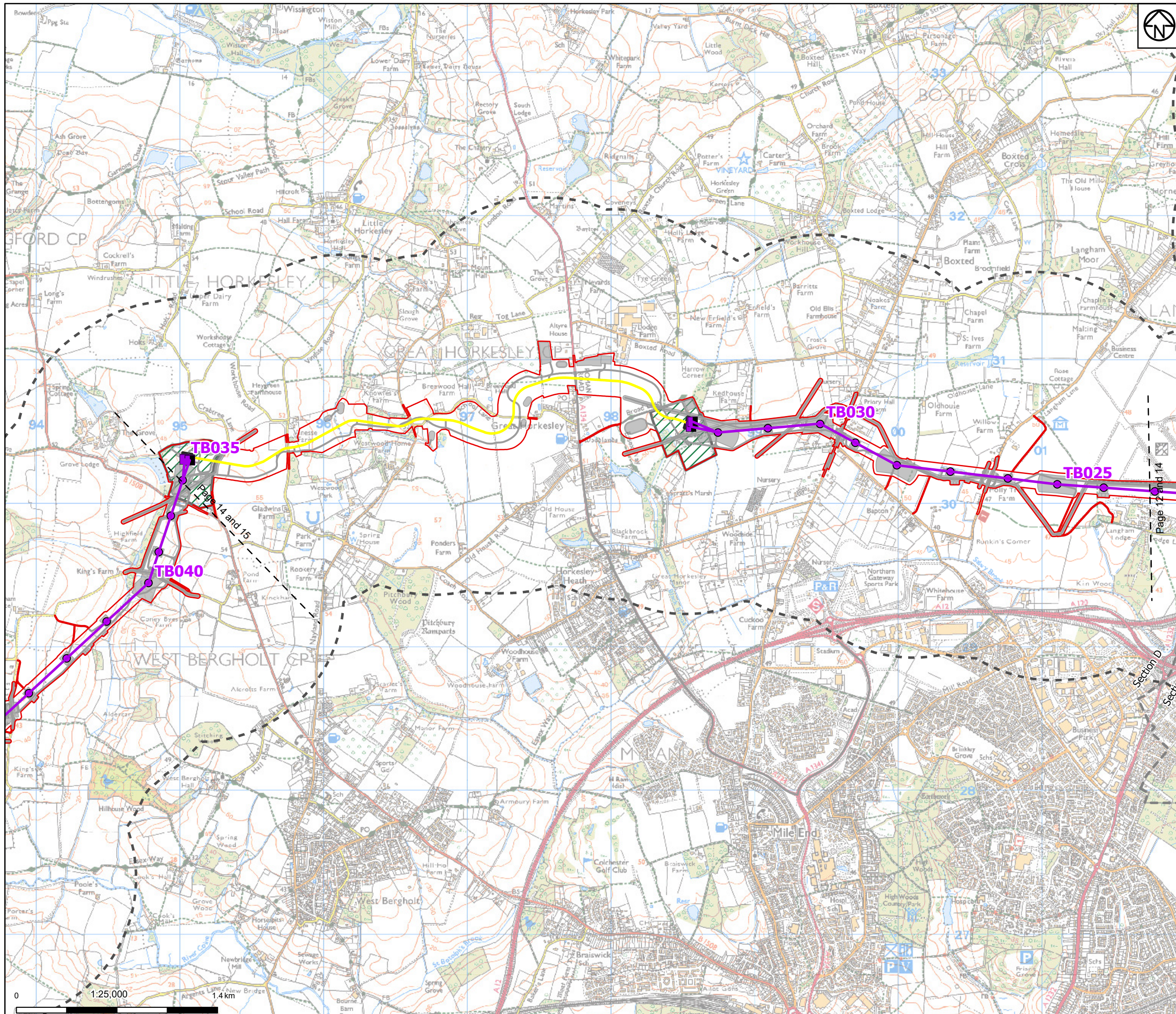
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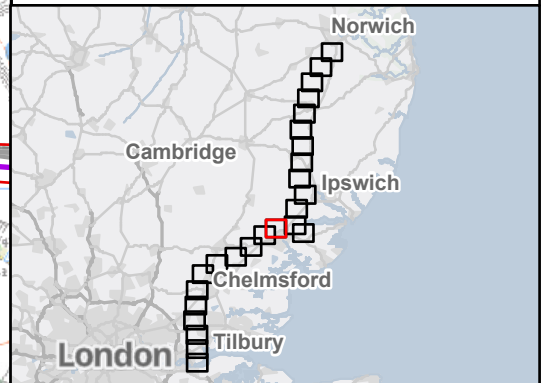
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- Draft order limits
  - Project sections
  - Proposed project design details**
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    - Proposed pylon position
    - Proposed underground cable alignment
    - Proposed cable sealing end compound
    - Other temporary and permanent construction and operational works
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  - Discipline specific constraints**
    - Wider Study Area
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

Title:  
**Figure 6.1 - Agriculture and Soils -  
Agriculture and Soils Study Area**  
Page 14 of 25

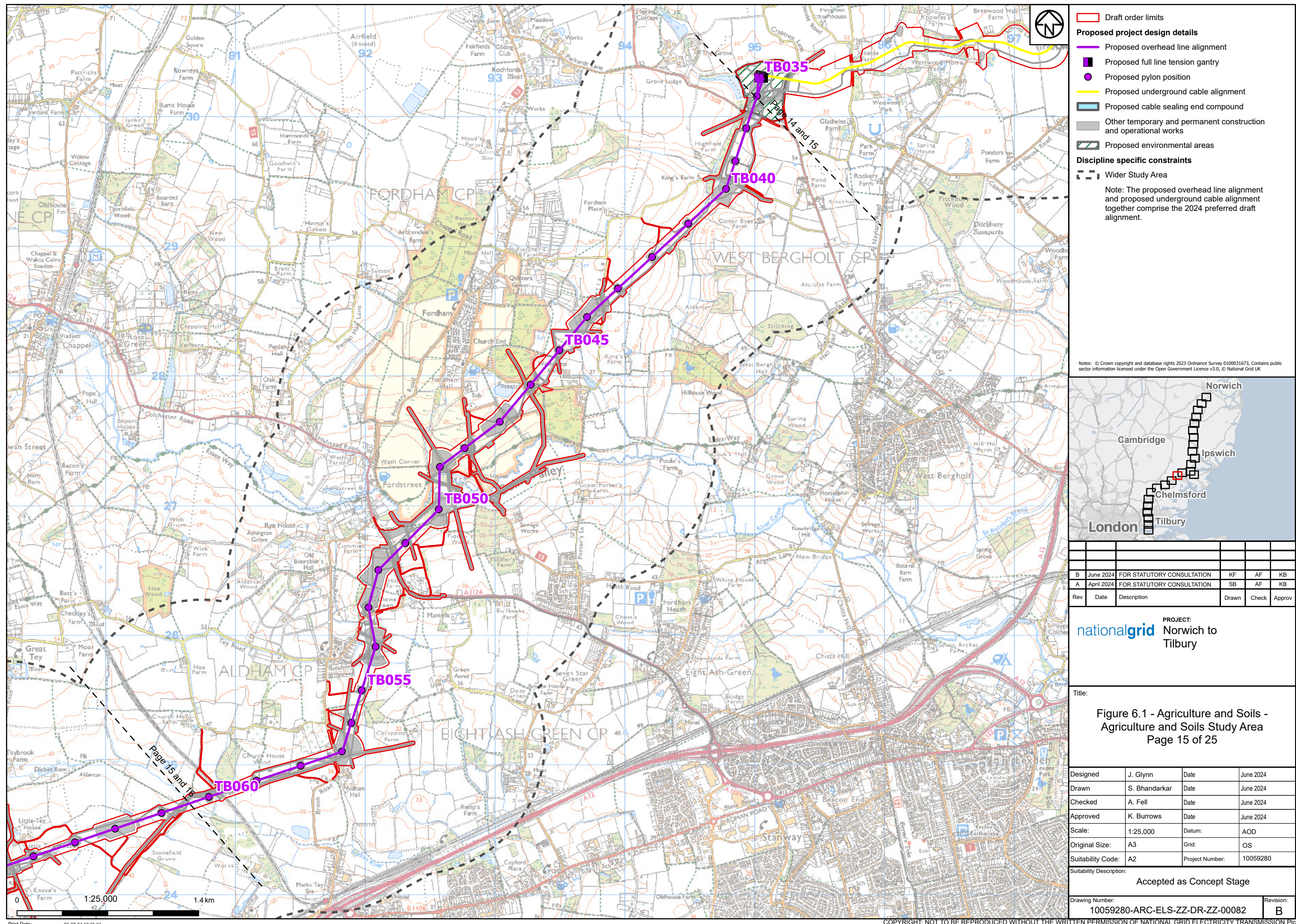
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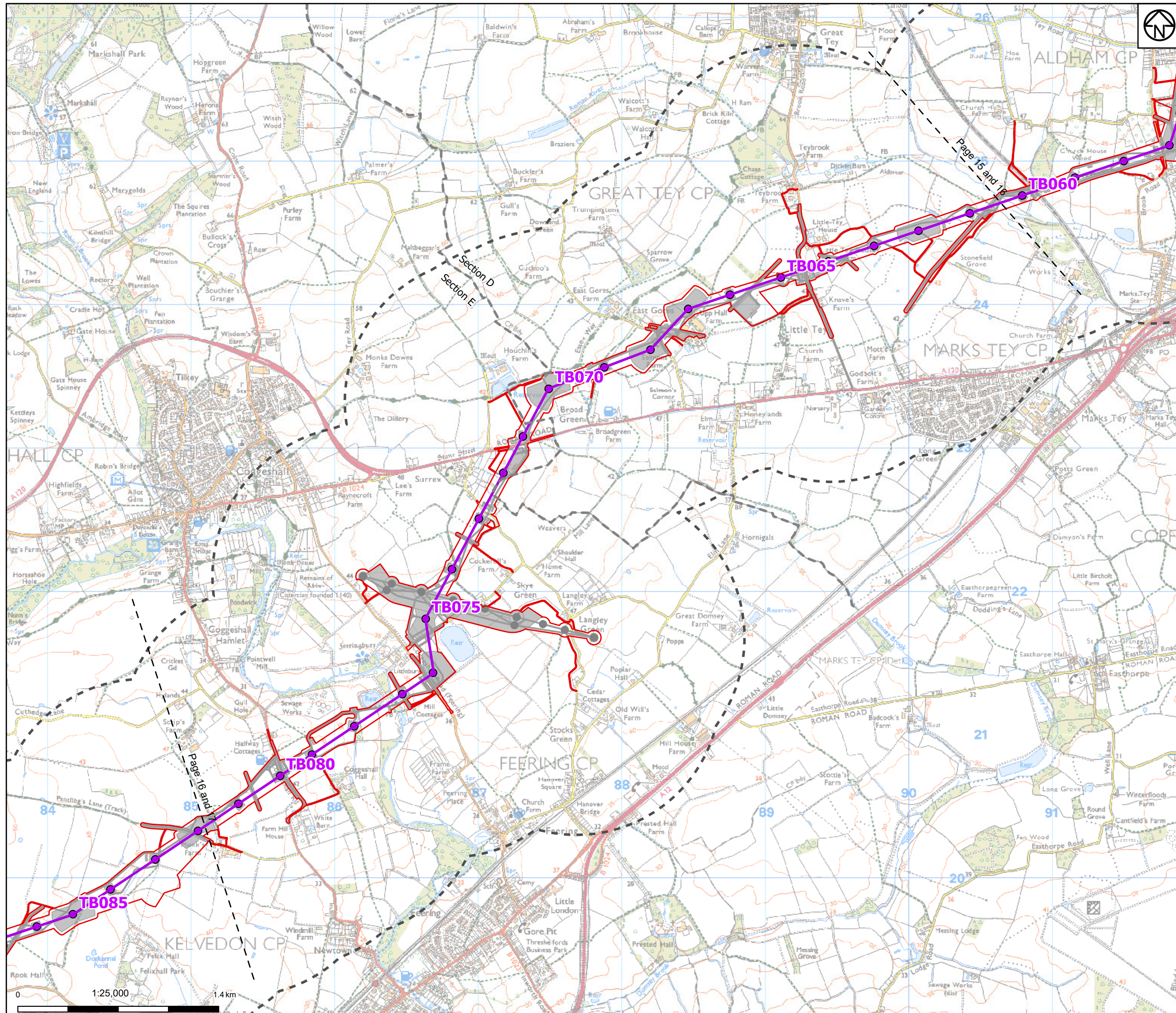
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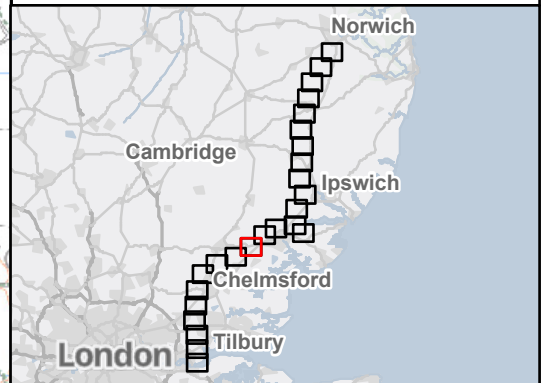




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- Project sections
- Proposed project design details**
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  - Proposed pylon position
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- Discipline specific constraints**
  - Wider Study Area

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Norwich to  
Tilbury

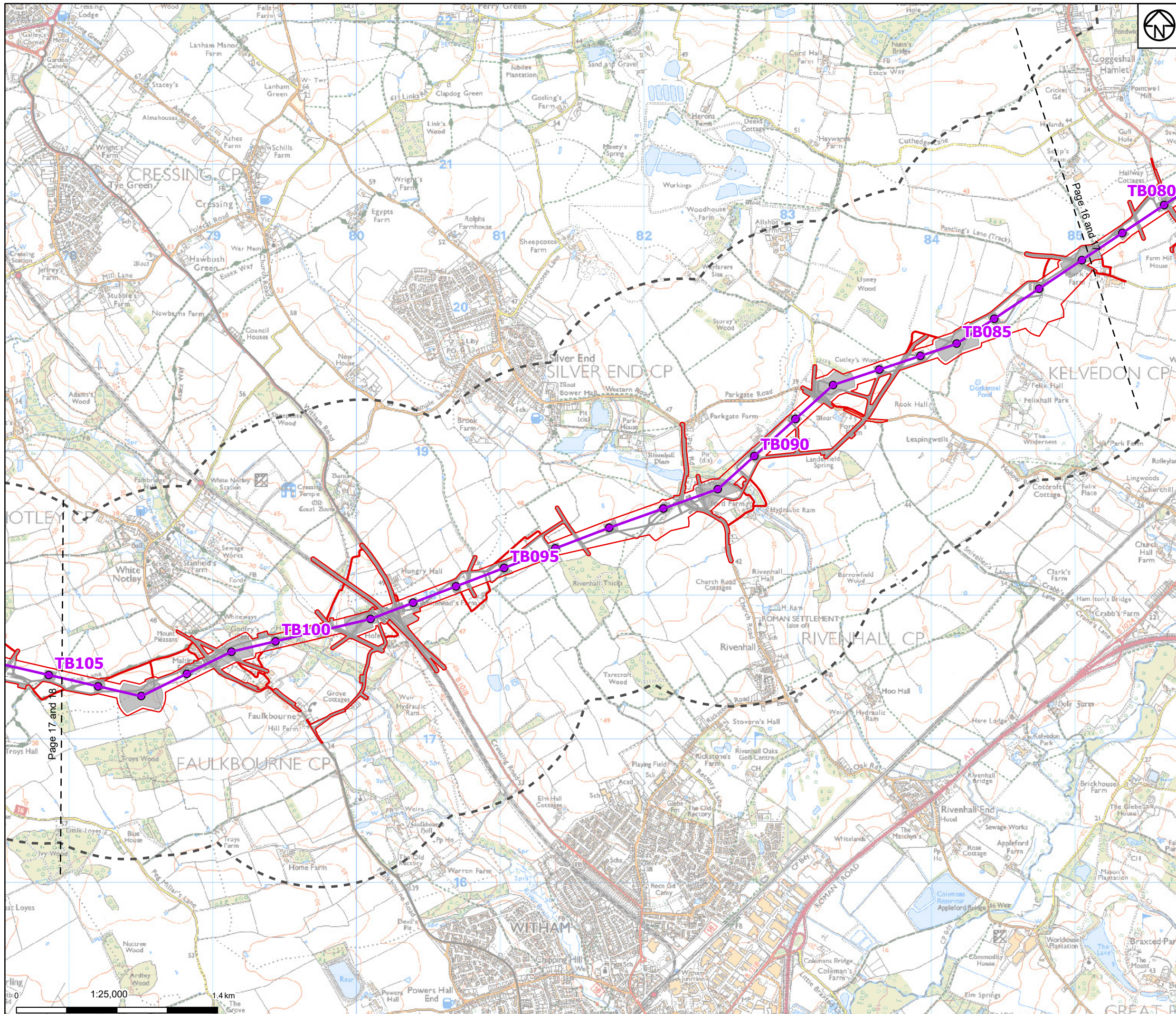
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Draft order limits

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Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Wider Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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Norwich

Cambridge

Ipswich

Chelmsford

Tilbury

London

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PROJECT: Norwich to Tilbury

Title:

Figure 6.1 - Agriculture and Soils - Agriculture and Soils Study Area  
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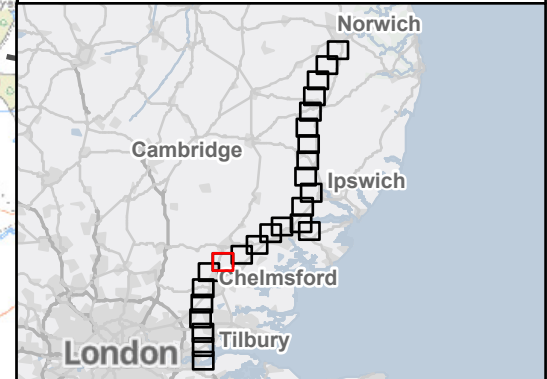
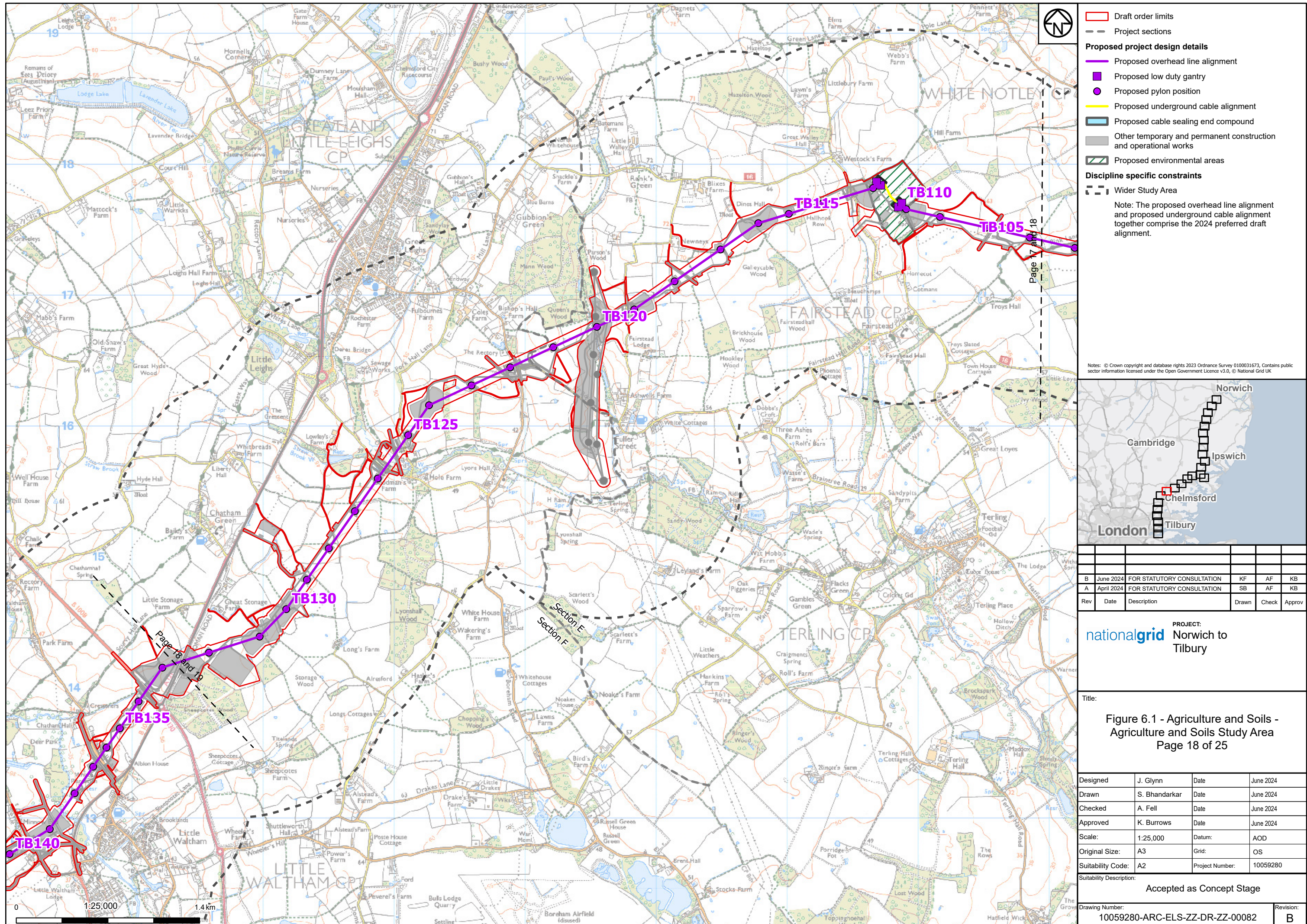
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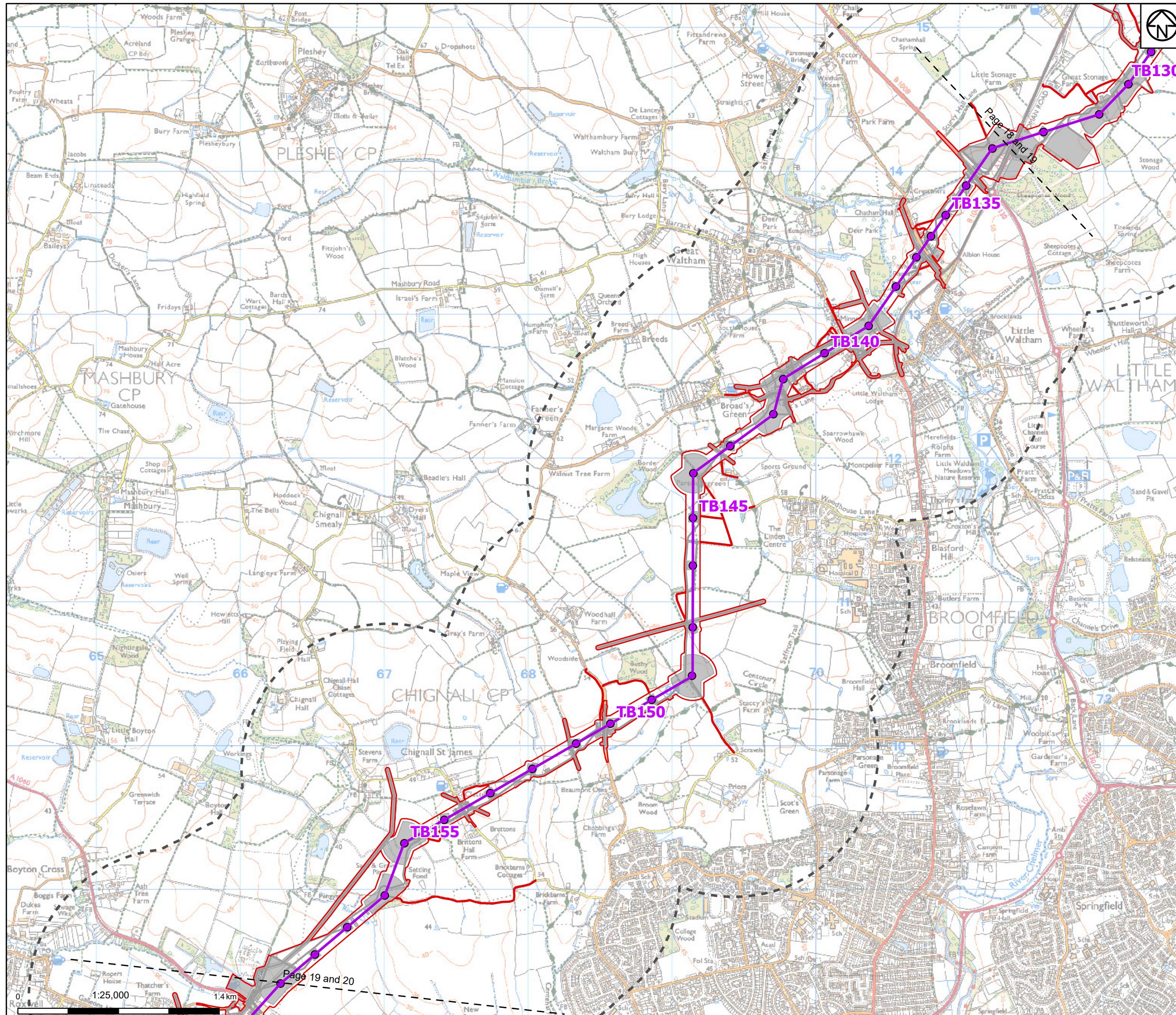
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nationalgrid					

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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Wider Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.



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PROJECT:  
Norwich to  
Tilbury

Title:  
  
Figure 6.1 - Agriculture and Soils -  
Agriculture and Soils Study Area  
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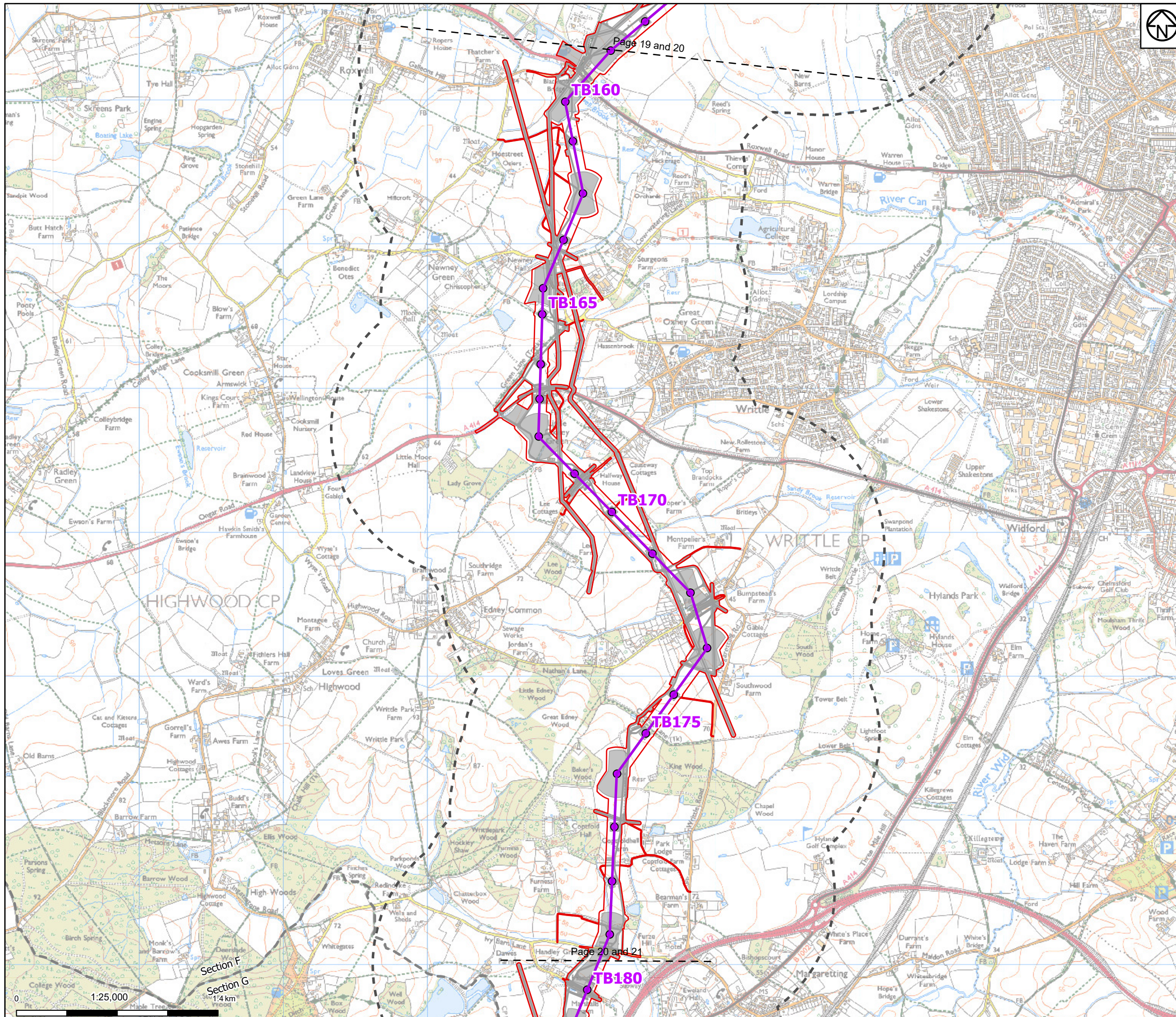
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Draft order limits

Project sections

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Wider Study Area

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PROJECT:  
Norwich to  
Tilbury

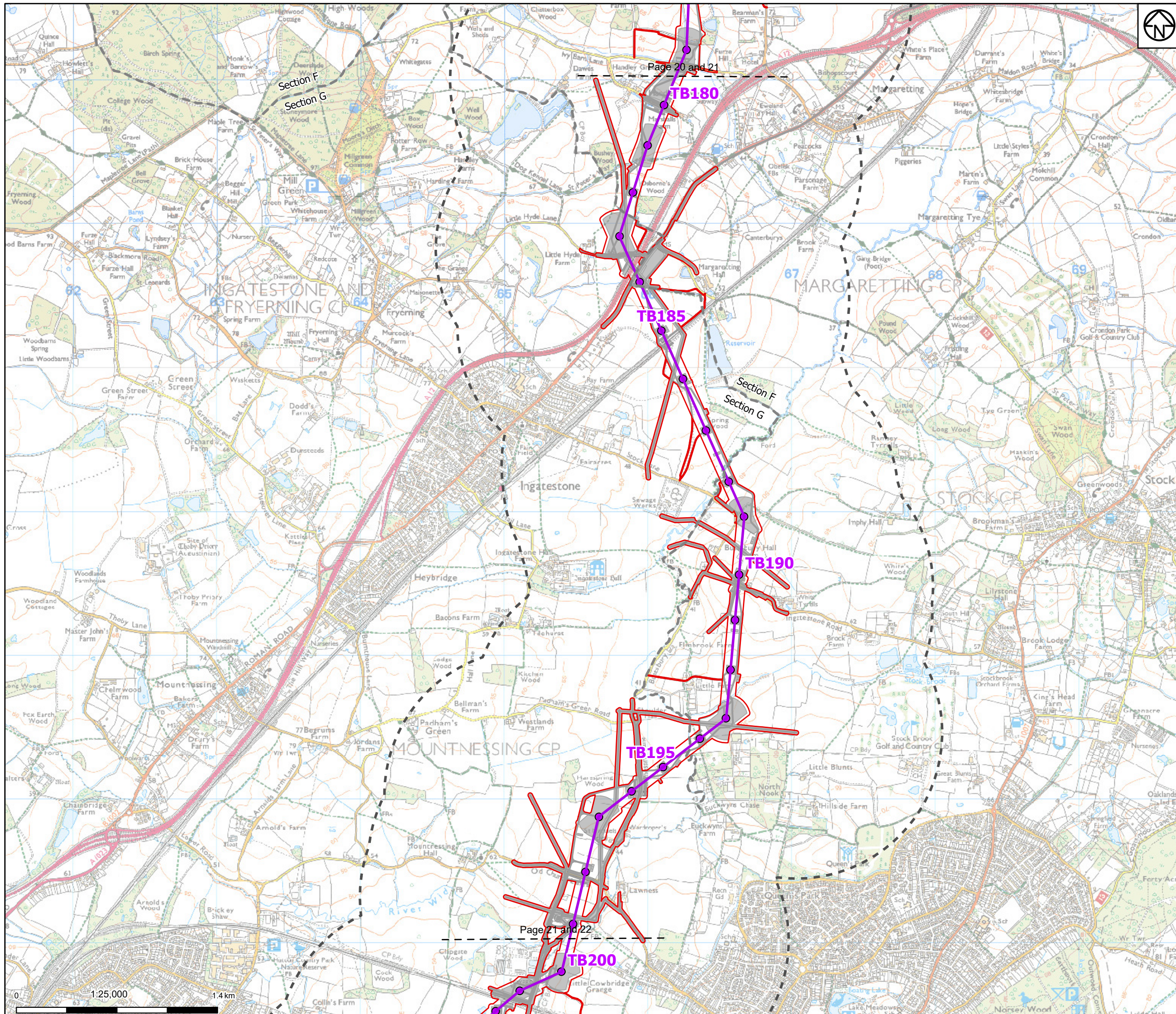
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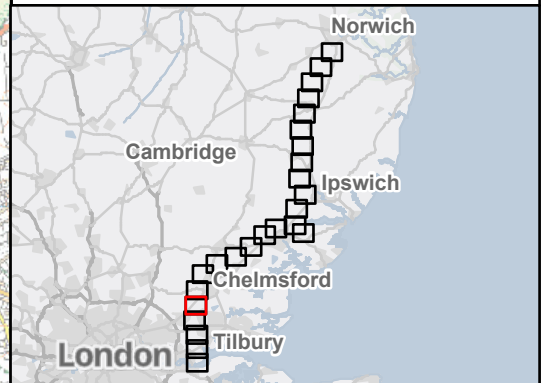




- Draft order limits
- Project sections
- Proposed project design details**
  - Proposed overhead line alignment
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- Discipline specific constraints**
  - Wider Study Area

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PROJECT:  
Norwich to  
Tilbury

Title:  
**Figure 6.1 - Agriculture and Soils -  
Agriculture and Soils Study Area**  
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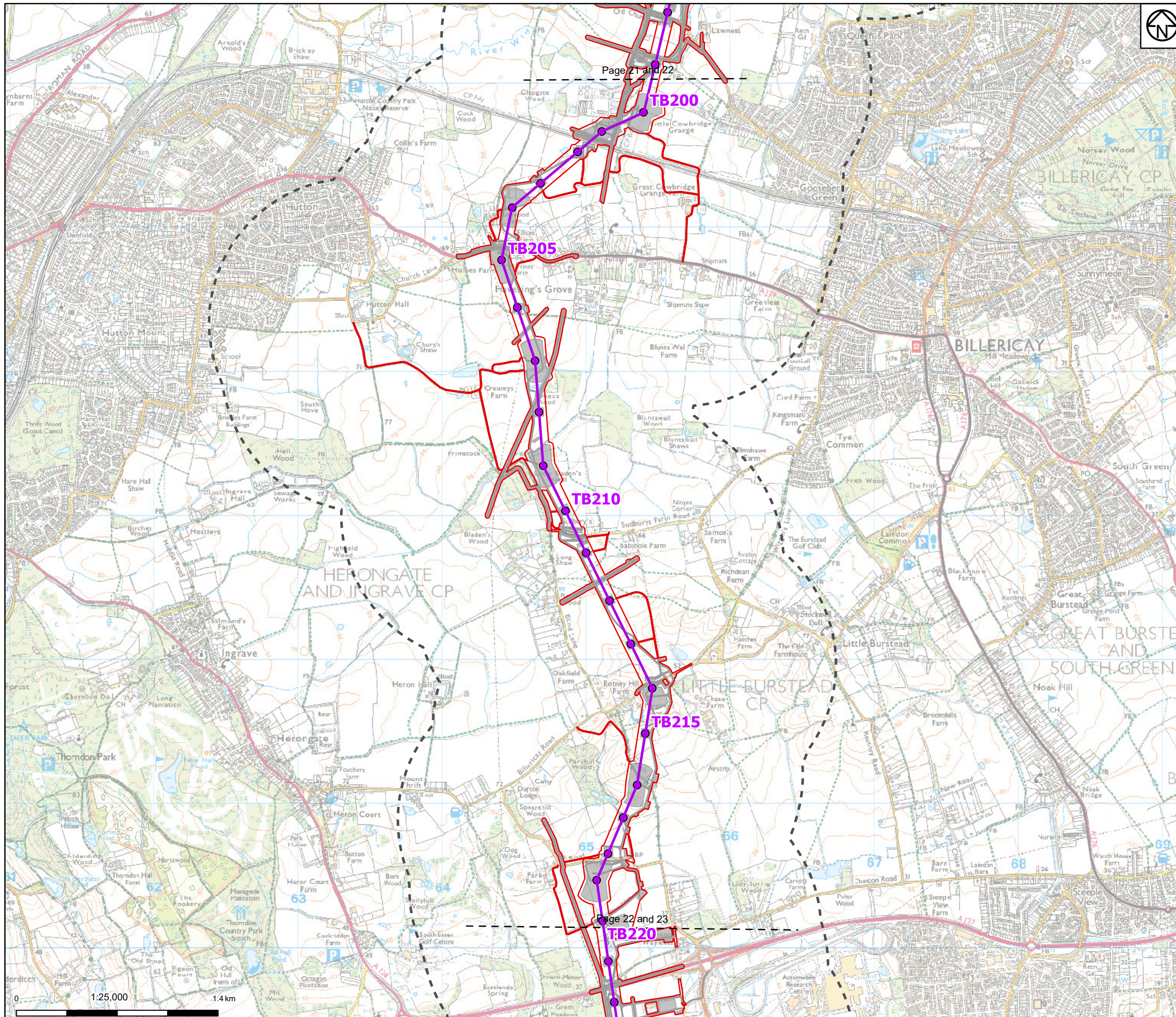
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Draft order limits

**Proposed project design details**

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

**Discipline specific constraints**

Wider Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.



Rev	Date	Description	Drawn	Check	Approv
B	June 2024	FOR STATUTORY CONSULTATION	KF	AF	KB
A	April 2024	FOR STATUTORY CONSULTATION	SB	AF	KB

PROJECT:

Norwich to Tilbury

Title:  
Figure 6.1 - Agriculture and Soils - Agriculture and Soils Study Area  
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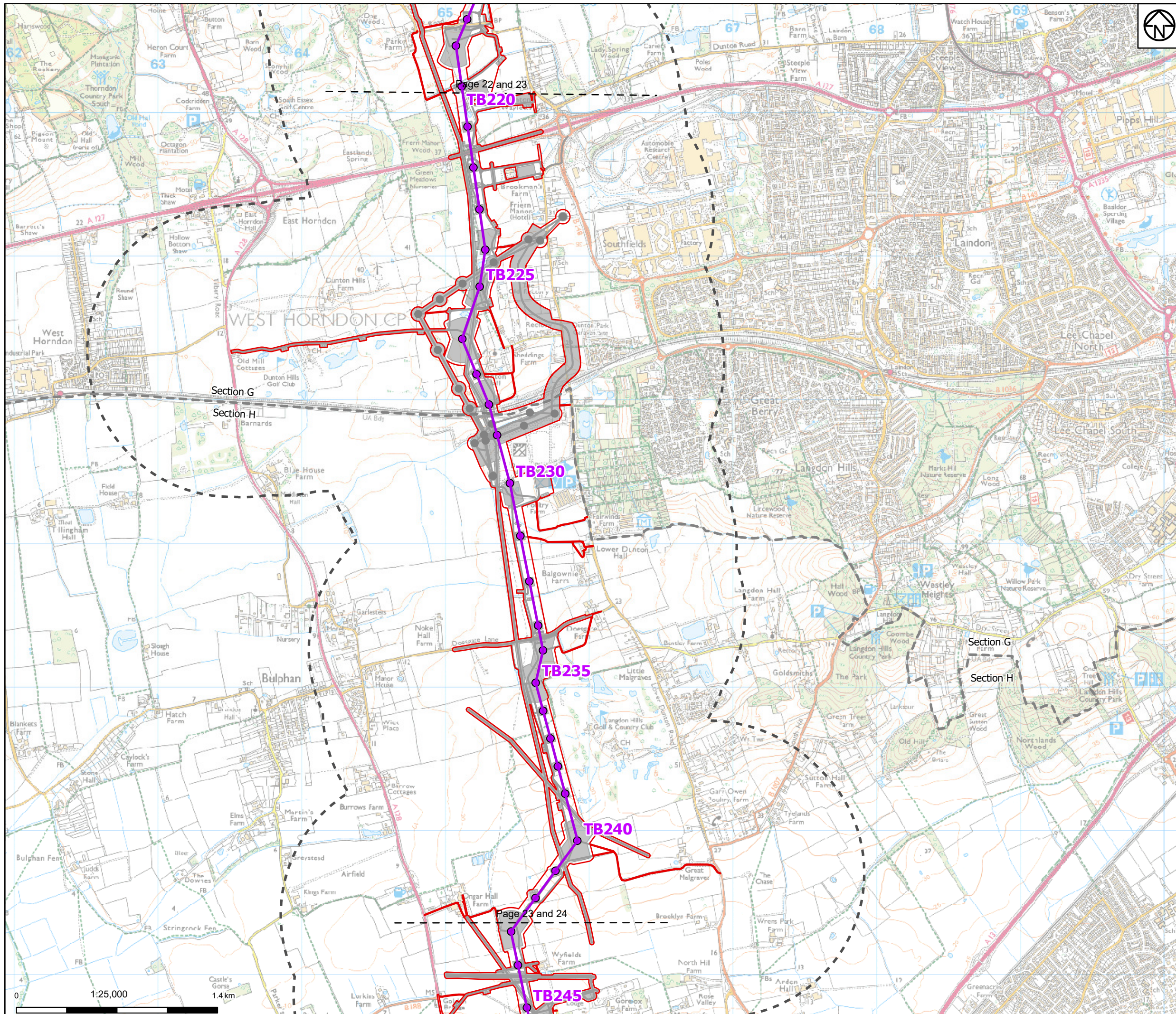
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Drawn	S. Bhandarkar	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
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Suitability Code:	A2	Project Number:	10059280

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Drawing Number:  
10059280-ARC-ELS-ZZ-DR-ZZ-00082

Revision:  
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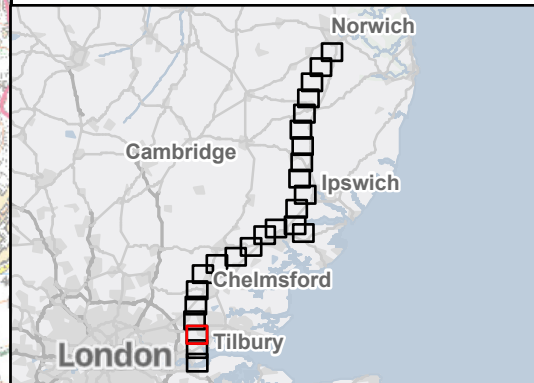


- Draft order limits
- Project sections
- Proposed project design details**
- Proposed overhead line alignment
- Proposed pylon position
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- Wider Study Area
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

Title:  
**Figure 6.1 - Agriculture and Soils -  
Agriculture and Soils Study Area**  
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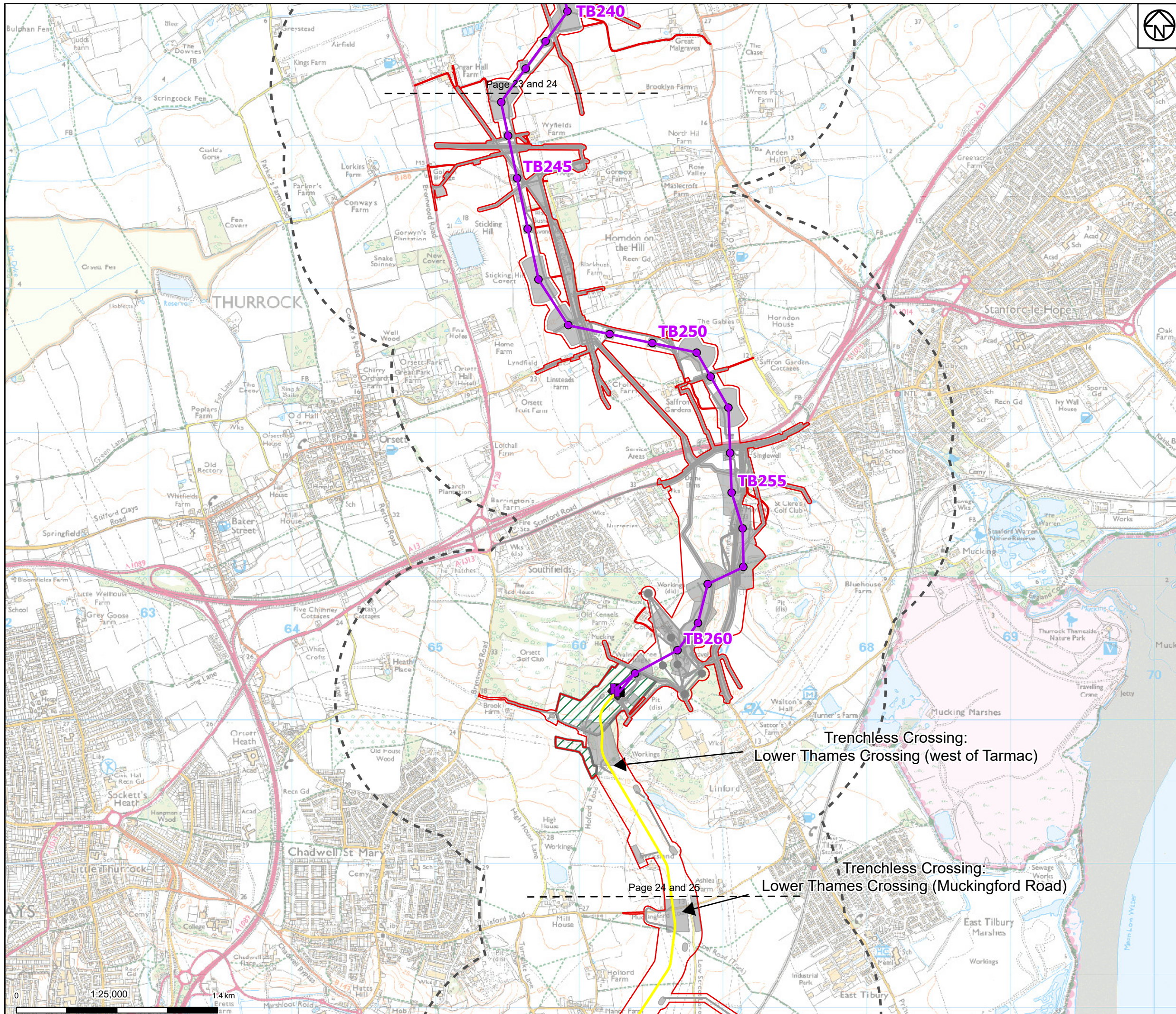
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Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number:  
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Revision:  
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- Draft order limits
  - Proposed project design details
    - Proposed overhead line alignment
    - Proposed full line tension gantry
    - Proposed pylon position
    - Proposed underground cable alignment
    - Proposed cable sealing end compound
    - Other temporary and permanent construction and operational works
    - Proposed environmental areas
  - Discipline specific constraints
    - Wider Study Area
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

Title:  
Figure 6.1 - Agriculture and Soils -  
Agriculture and Soils Study Area  
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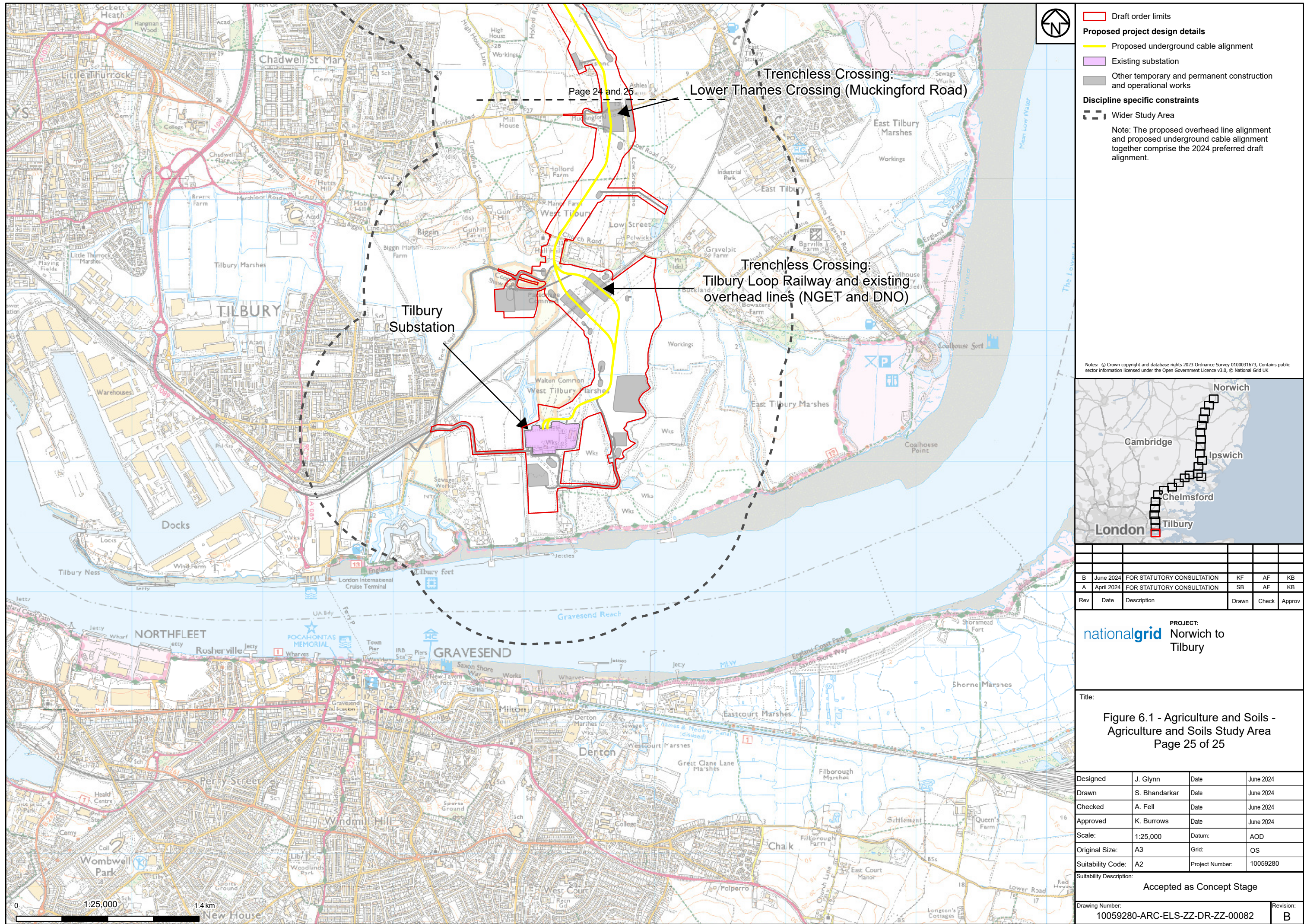
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:  
Accepted as Concept Stage

Drawing Number:  
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Revision:  
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- Draft order limits
- Proposed project design details
  - Proposed underground cable alignment
  - Existing substation
  - Other temporary and permanent construction and operational works
- Discipline specific constraints
  - Wider Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

Norwich to Tilbury

Title:

Figure 6.1 - Agriculture and Soils - Agriculture and Soils Study Area

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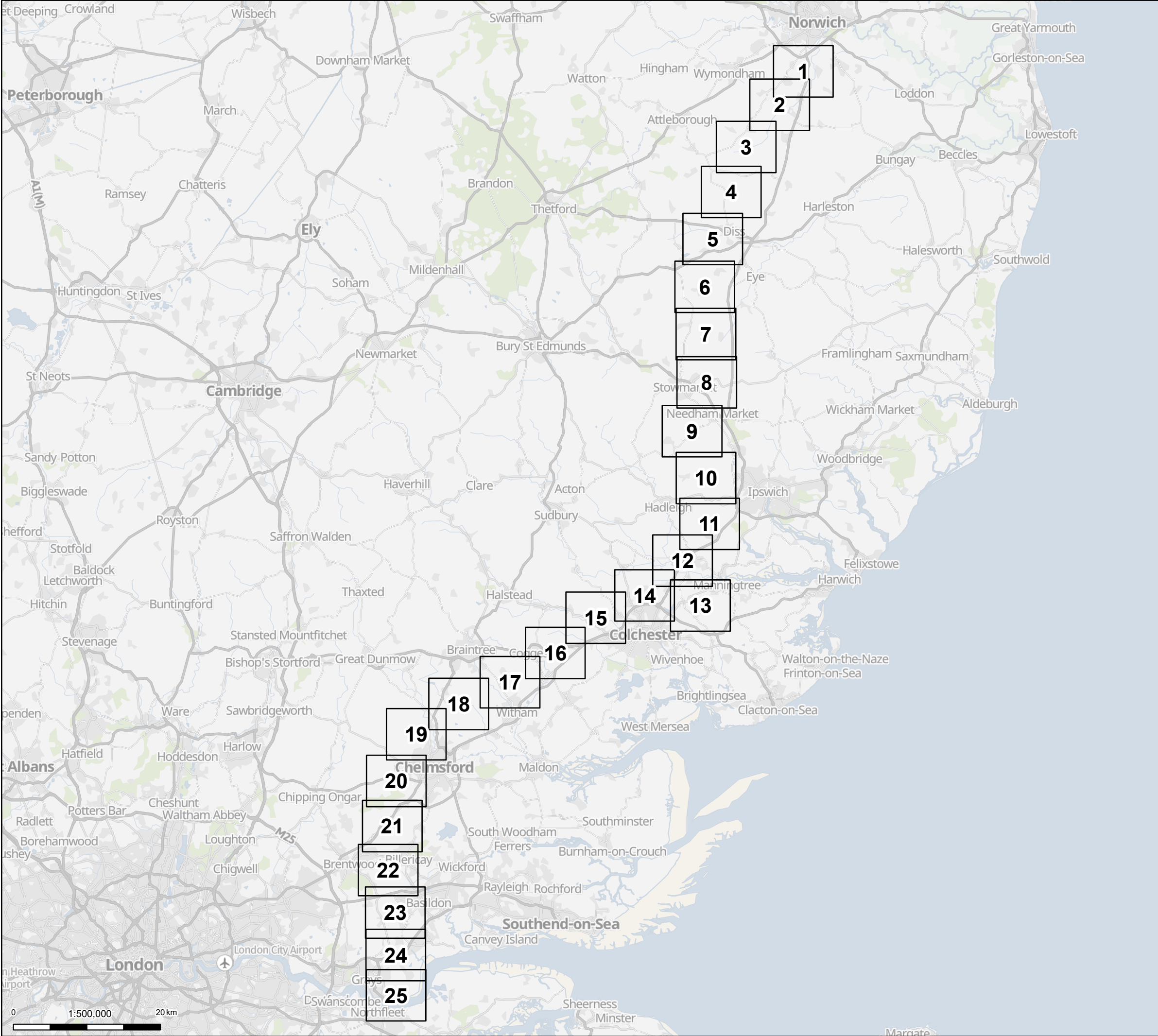
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Suitability Code:	A2	Project Number:	10059280


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PROJECT:

Norwich to Tilbury

Title:

Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping Overview

Designed	J. Glynn	Date	April 2024
Drawn	S. Bhandarkar	Date	April 2024
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Approved	K. Burrows	Date	April 2024
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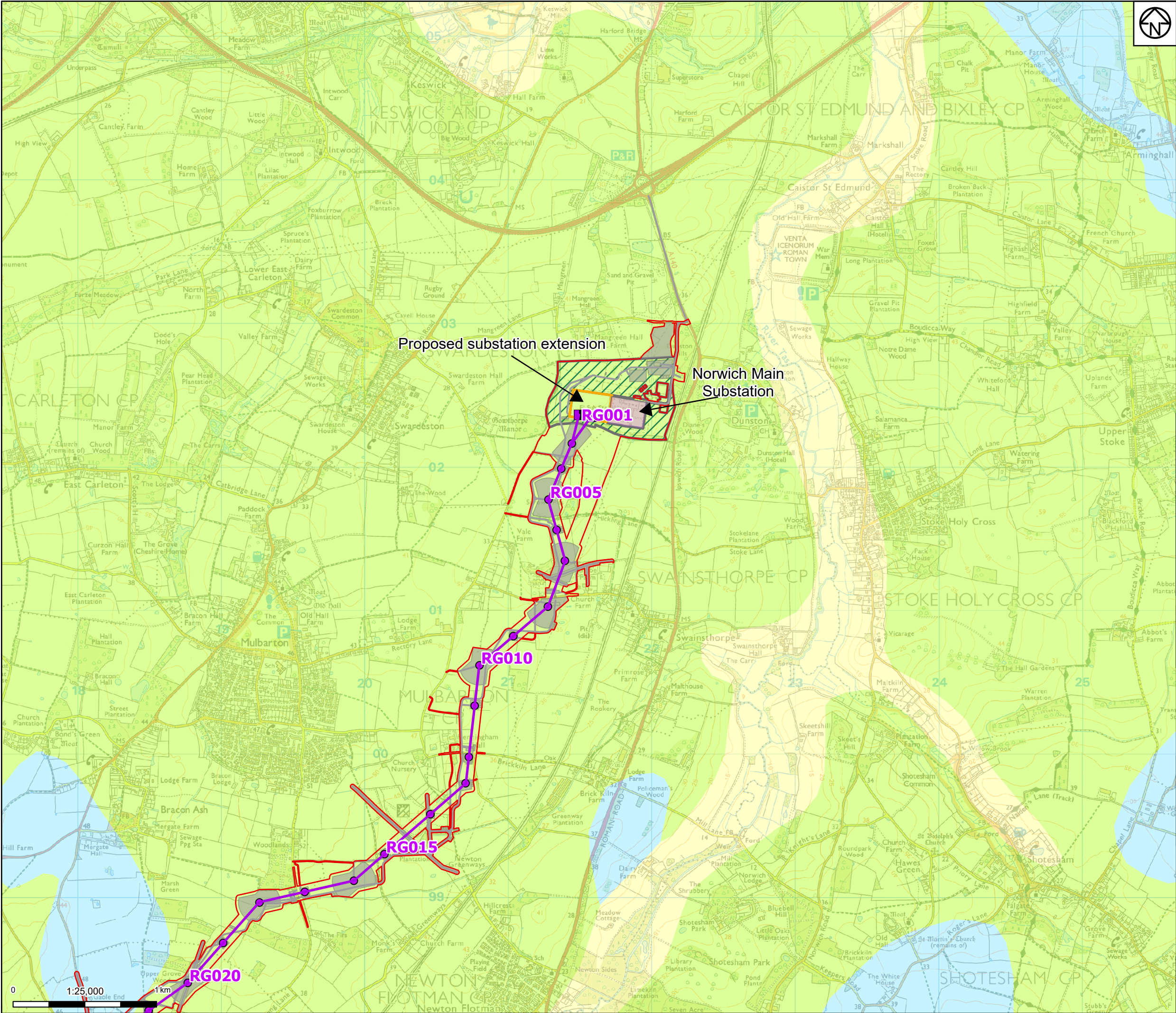
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Revision:

A





Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed full line tension gantry

Proposed pylon position

Existing Substation

Proposed Substation Extension

Proposed Environmental Areas

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

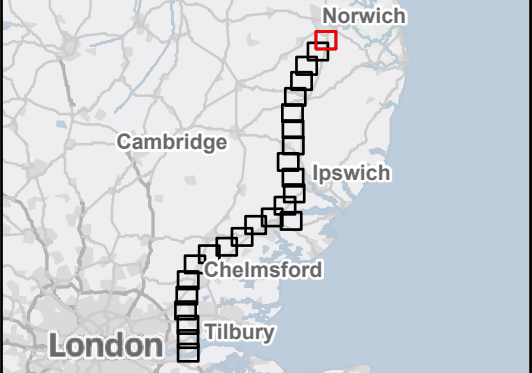
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Grade 3

Grade 4

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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Norwich to  
Tilbury

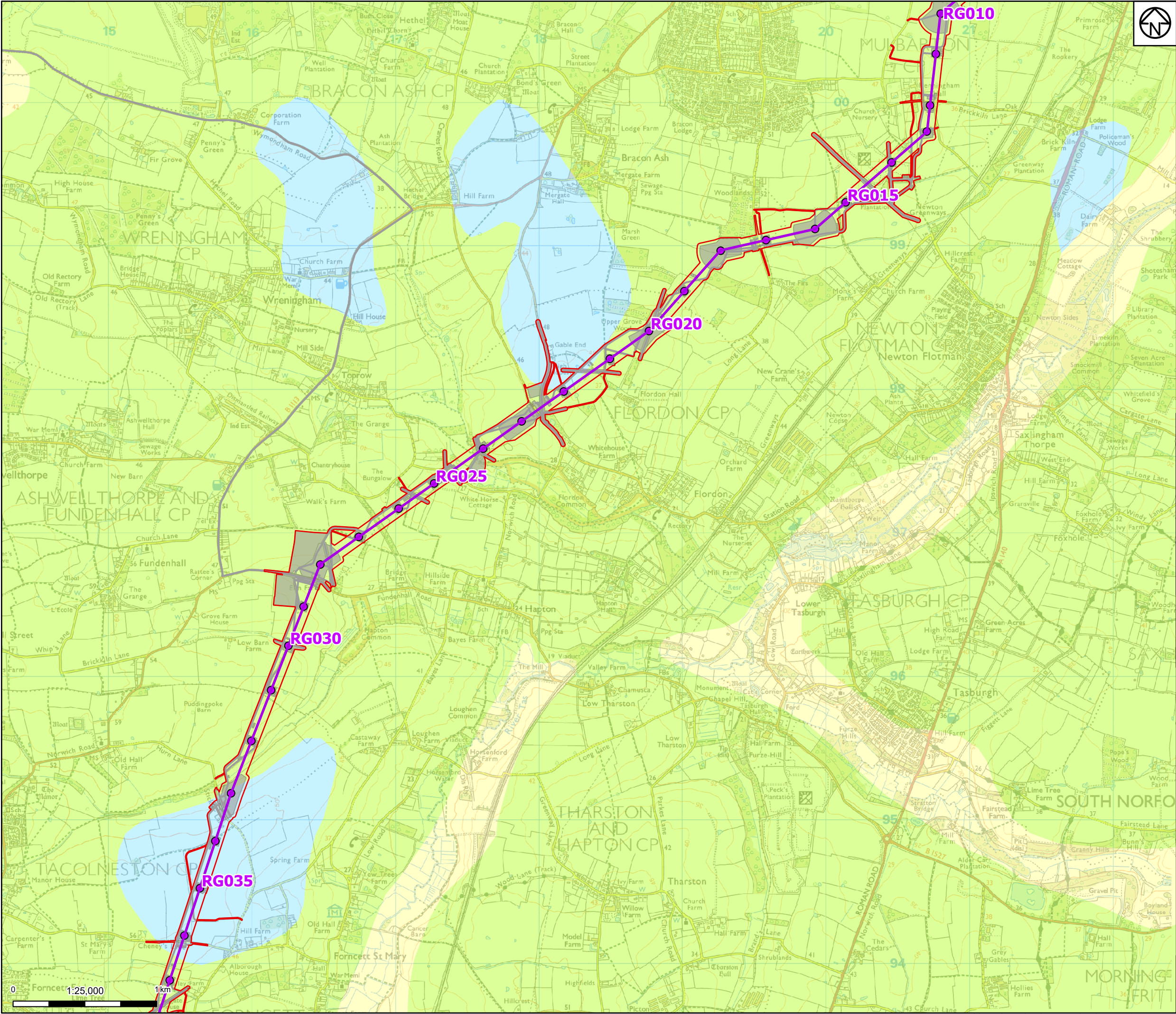
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Provisional Agricultural Land  
Classification (ALC) Mapping  
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Suitability Code:	A2	Project Number:	10059280
Suitability Description:			

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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 2

Grade 3

Grade 4

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

Title:  
Figure 6.2 - Agriculture and Soils -  
Provisional Agricultural Land  
Classification (ALC) Mapping  
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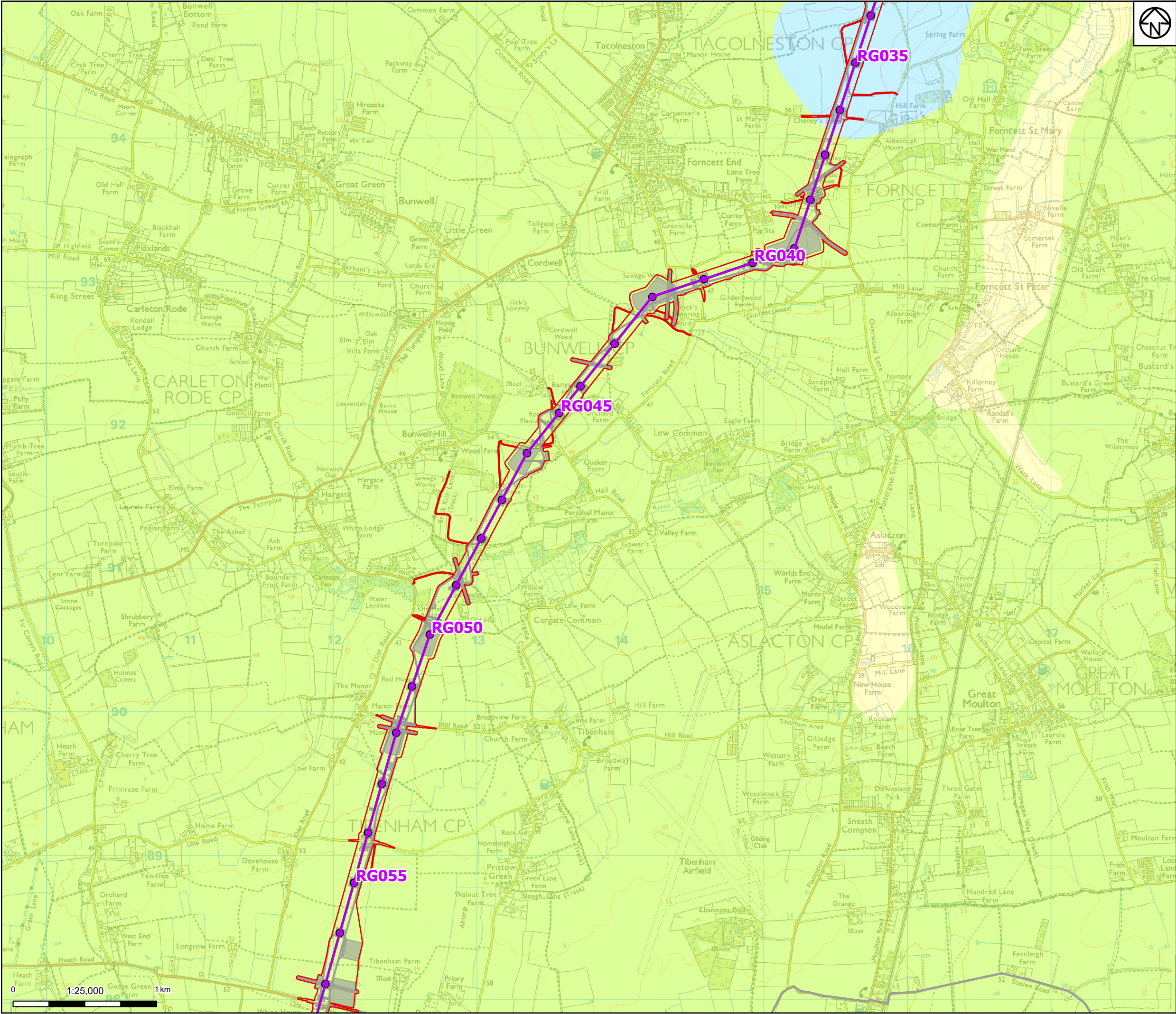
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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 2

Grade 3

Grade 4

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

Title:  
Figure 6.2 - Agriculture and Soils -  
Provisional Agricultural Land  
Classification (ALC) Mapping  
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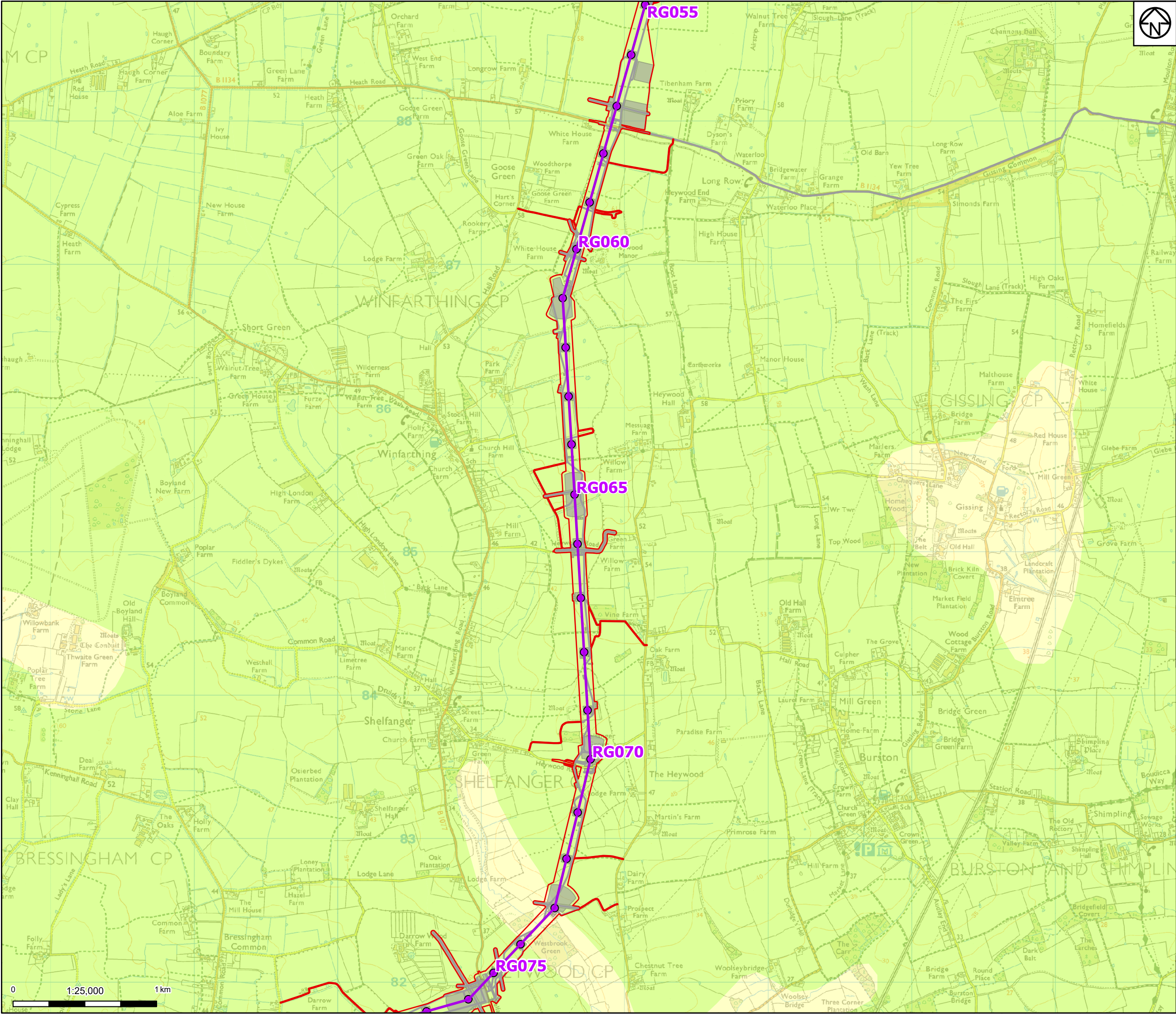
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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 3

Grade 4

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

Norwich to Tilbury

Title:

Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping  
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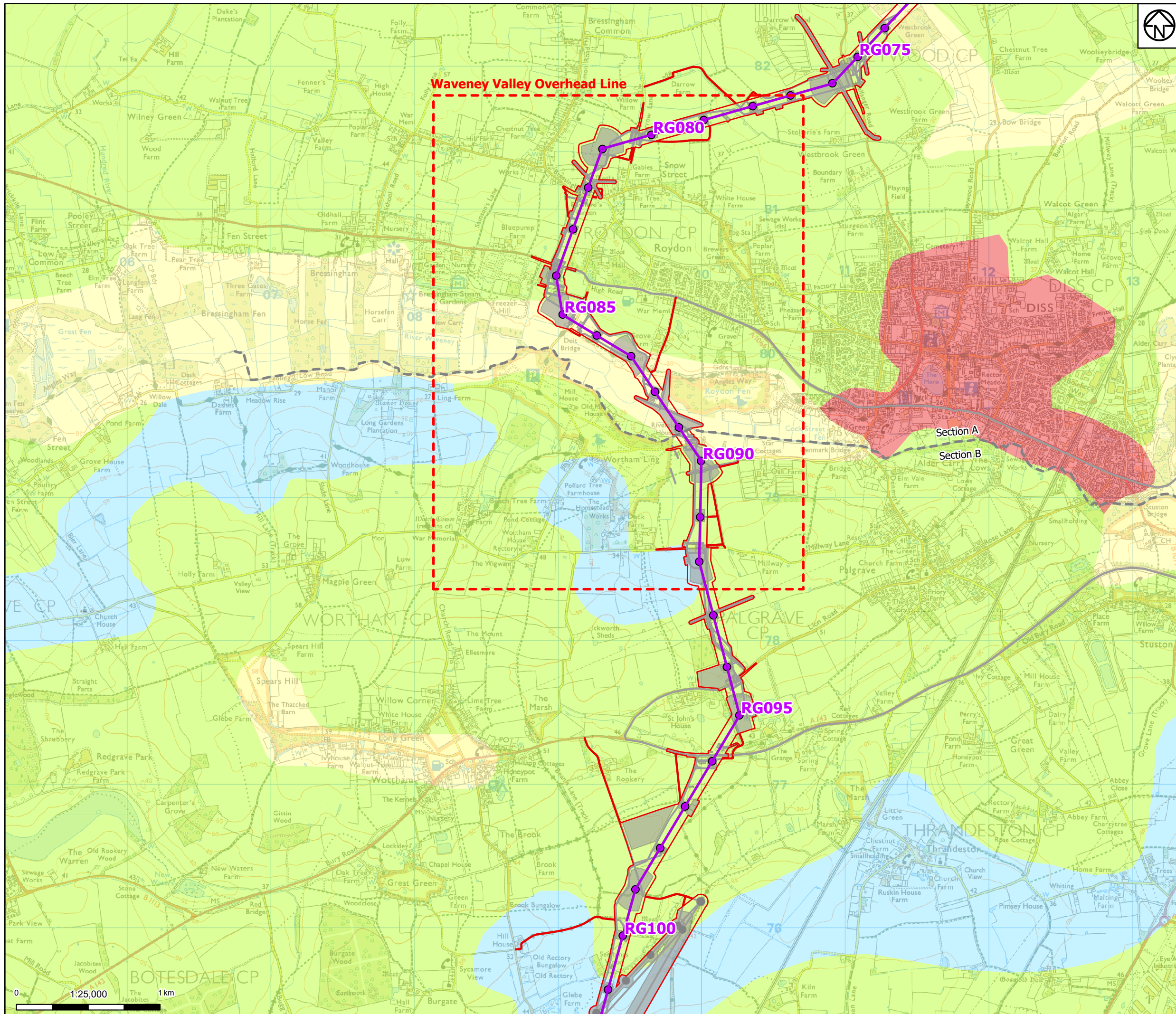
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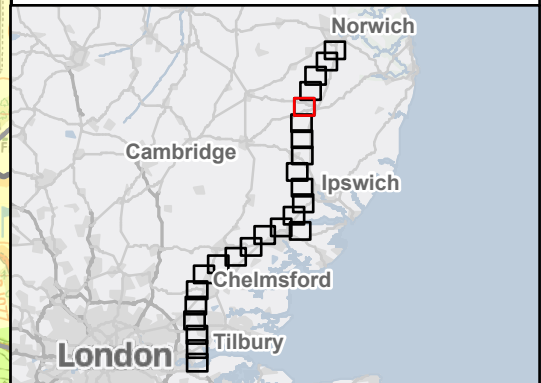


- Draft order limits
- Project sections
- Proposed project design details**
  - Proposed overhead line alignment
  - Proposed pylon position
  - Other temporary and permanent construction and operational works

- Discipline specific constraints**
  - Provisional Agricultural Land Classification
    - Grade 2
    - Grade 3
    - Grade 4
    - Urban

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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Norwich to  
Tilbury

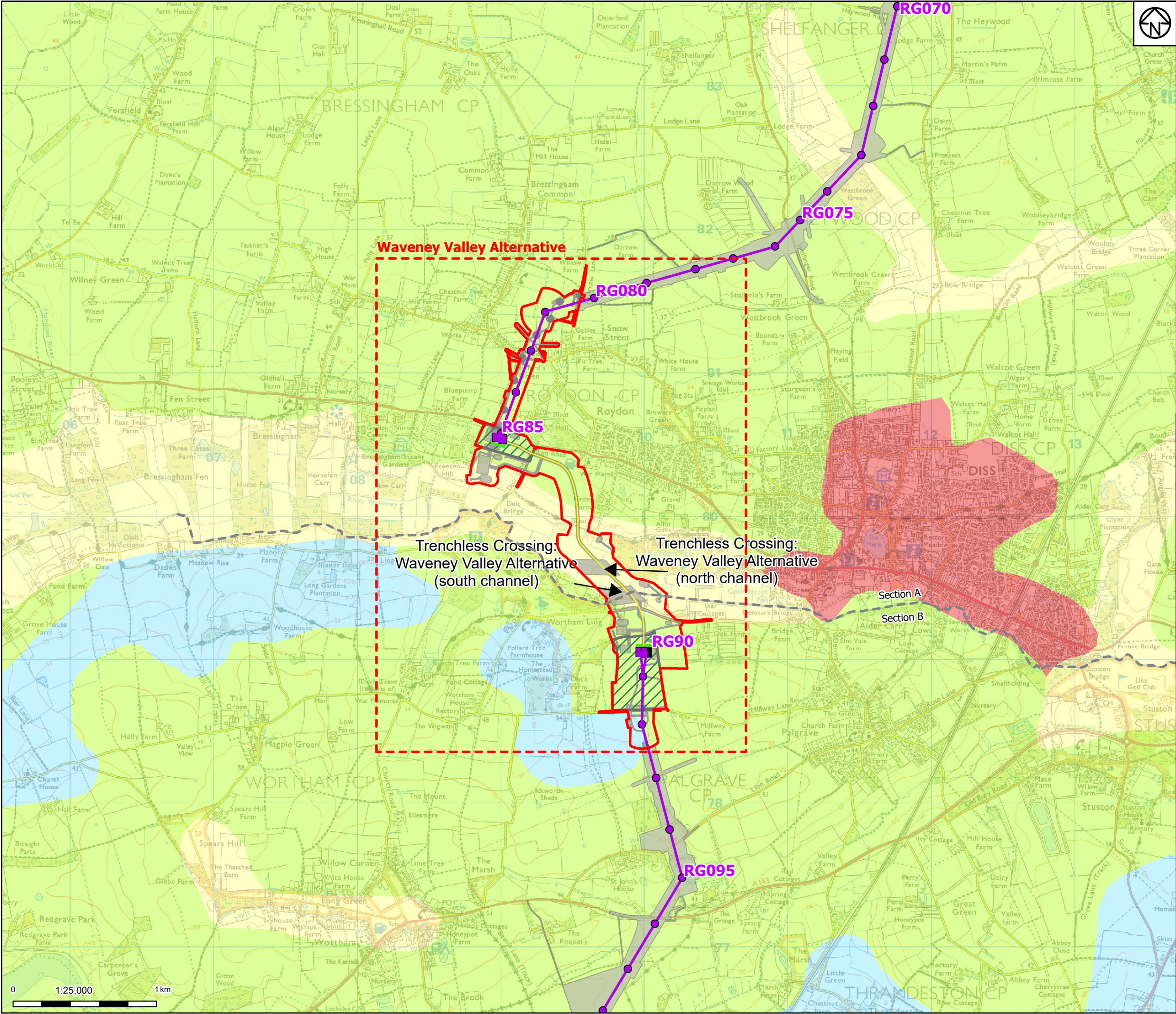
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Classification (ALC) Mapping  
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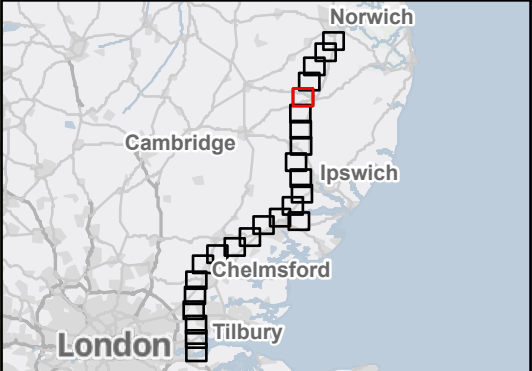


**Legend**

- Draft order limits
- Project sections
- Proposed project design details**
  - Proposed overhead line alignment
  - Proposed full line tension gantry
  - Proposed low duty gantry
  - Proposed pylon position
  - Proposed underground cable alignment
  - Proposed cable sealing end compound
  - Proposed environmental areas
  - Other temporary and permanent construction and operational works
- Discipline specific constraints**
  - Provisional Agricultural Land Classification
    - Grade 2
    - Grade 3
    - Grade 4
    - Urban

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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**PROJECT:**  
Norwich to Tilbury

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Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping  
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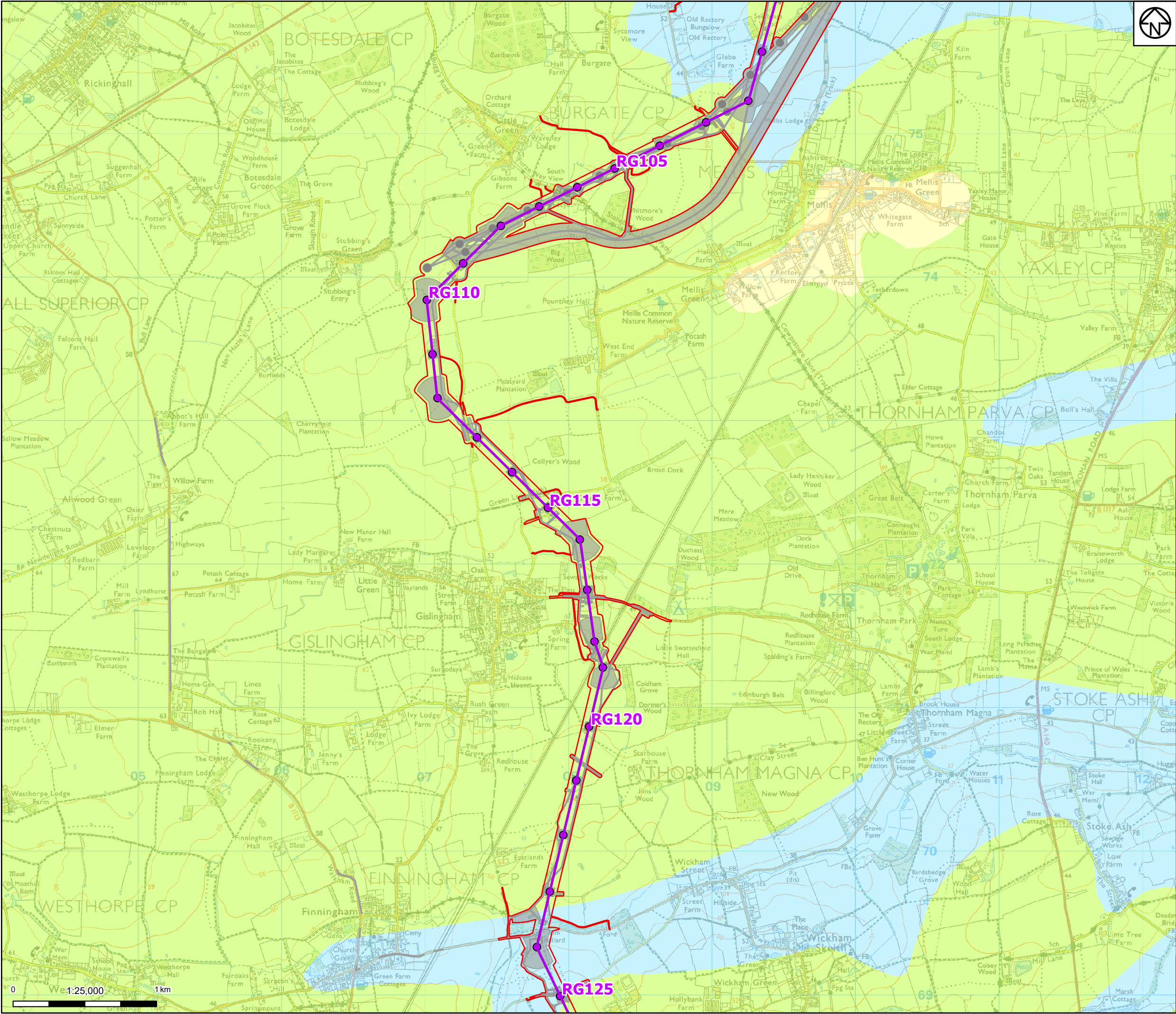
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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 2

Grade 3

Grade 4

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

Title:

Figure 6.2 - Agriculture and Soils -  
Provisional Agricultural Land  
Classification (ALC) Mapping  
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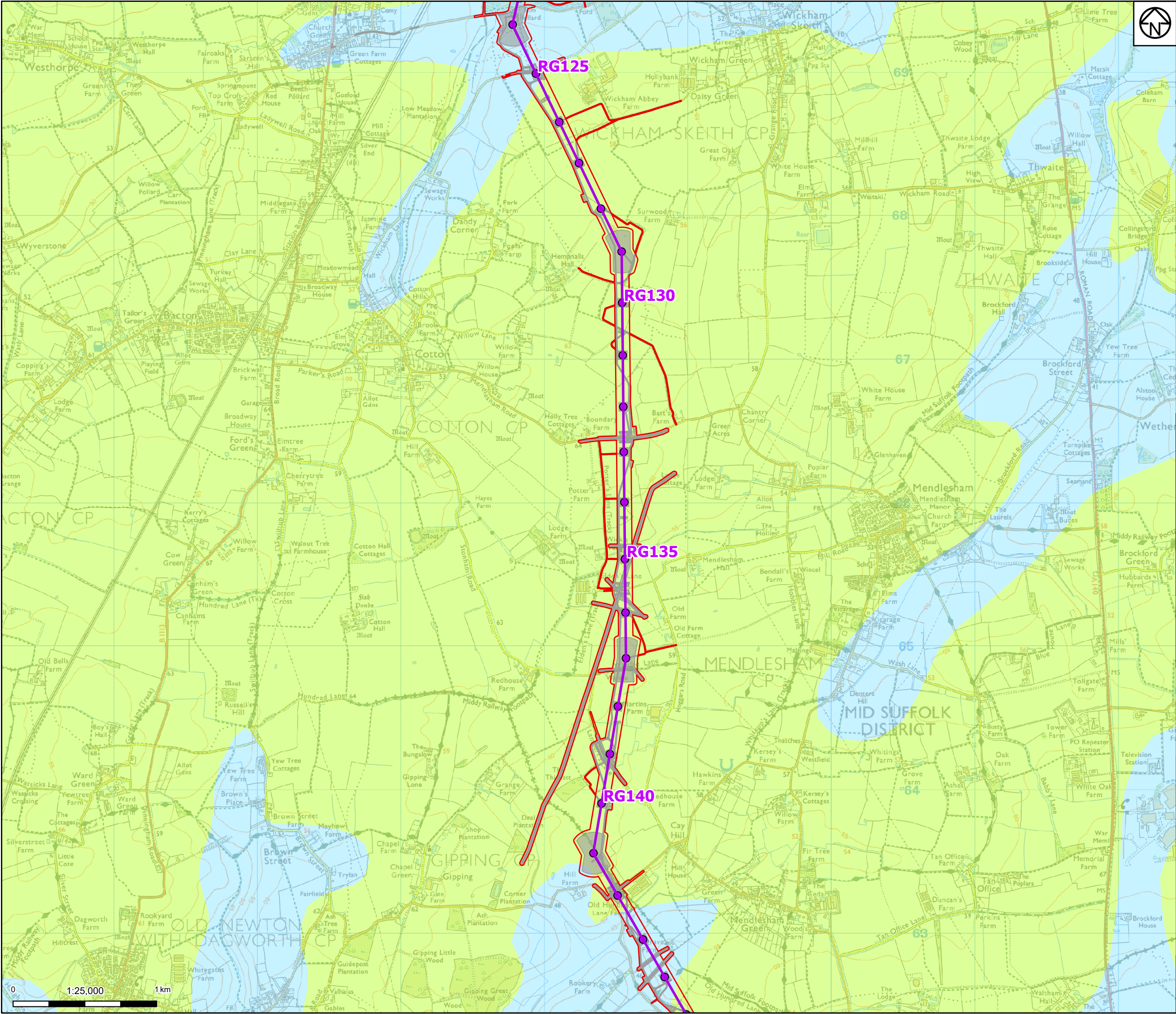
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**Proposed project design details**

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

**Discipline specific constraints**

Provisional Agricultural Land Classification

Grade 2

Grade 3

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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Norwich to Tilbury

Title:

Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping

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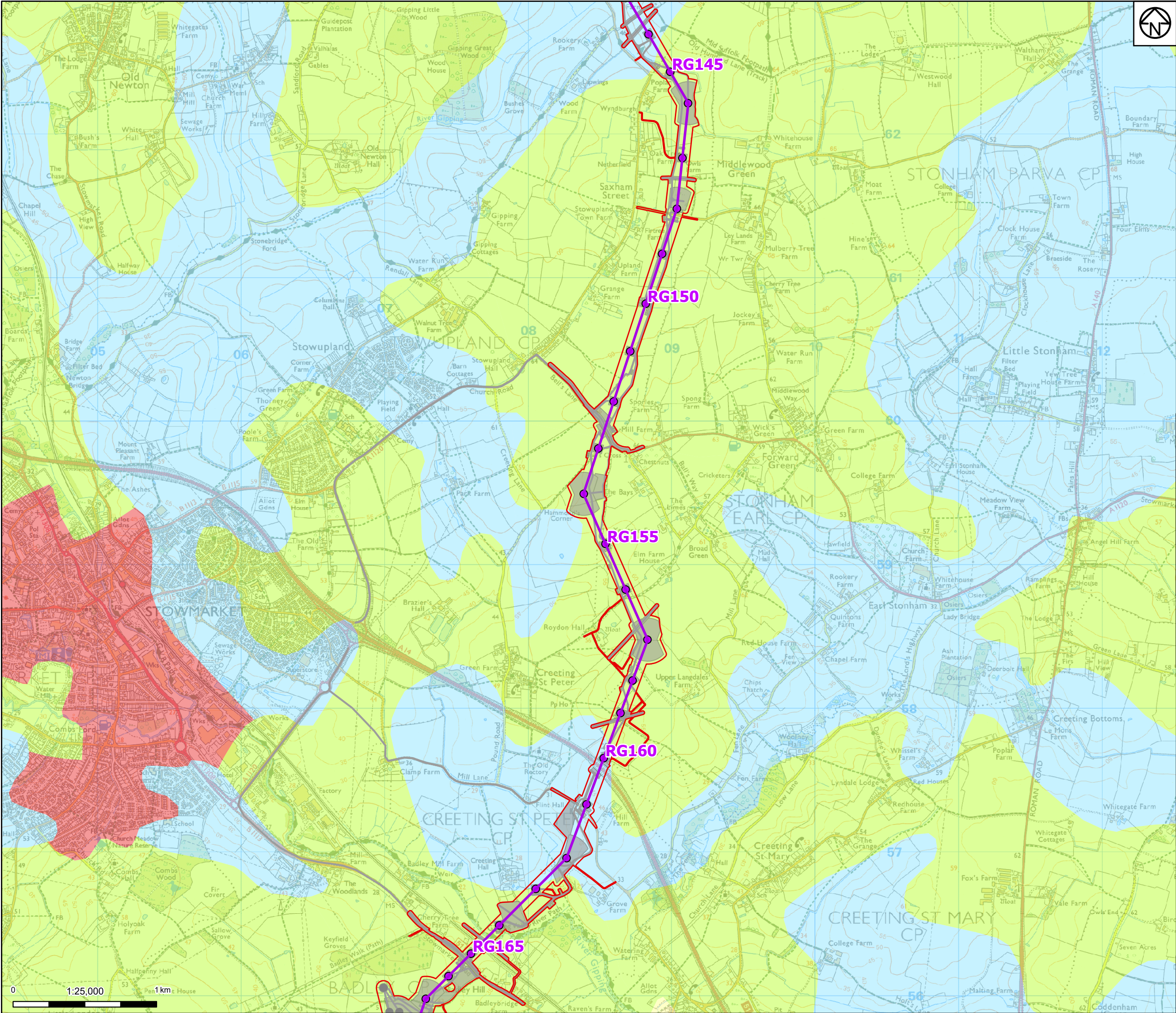
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Draft order limits

**Proposed project design details**

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

**Discipline specific constraints**

Provisional Agricultural Land Classification

Grade 2

Grade 3

Grade 4

Urban

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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Tilbury

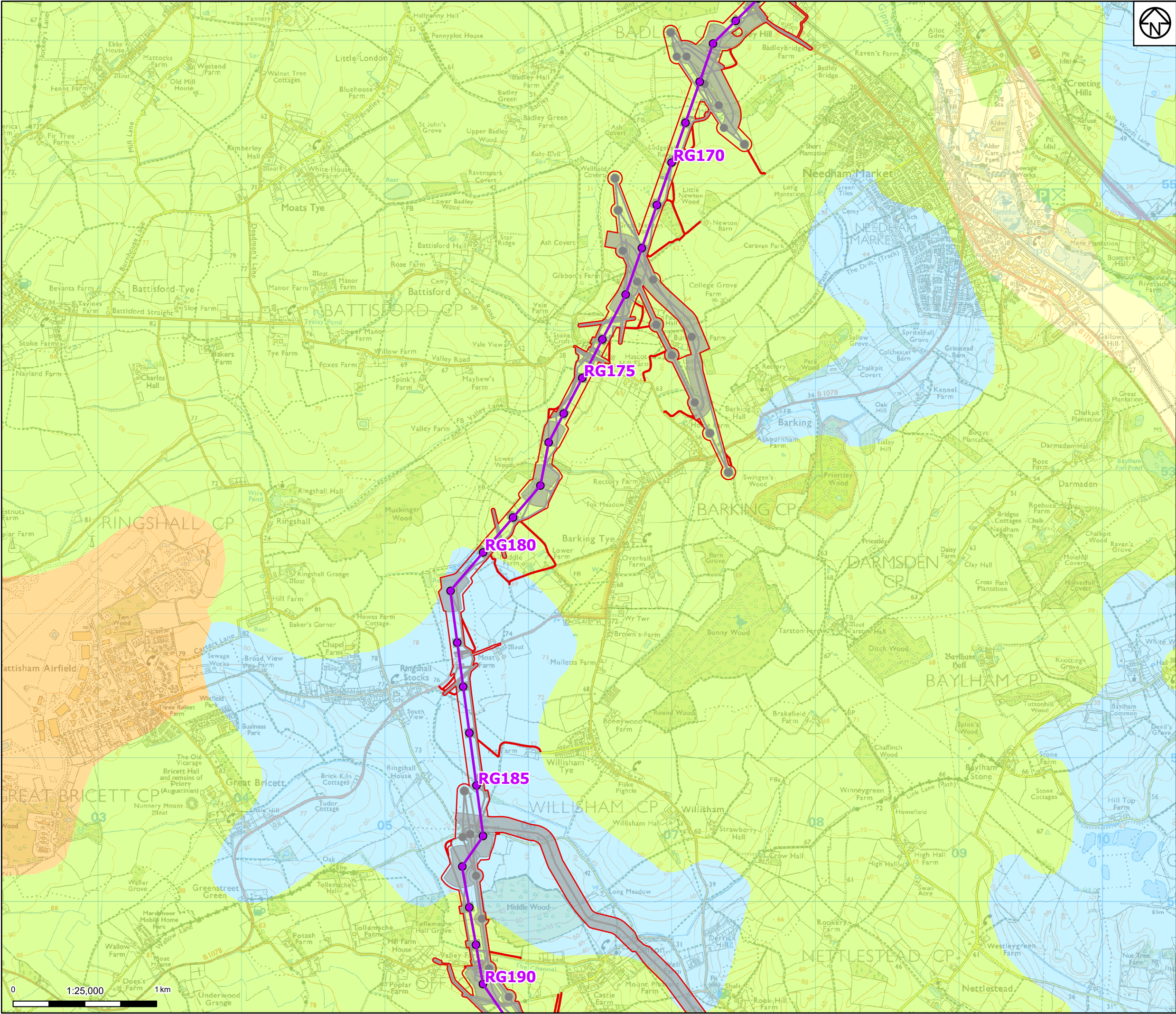
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Classification (ALC) Mapping  
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Suitability Description:  
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Draft order limits

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Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 2

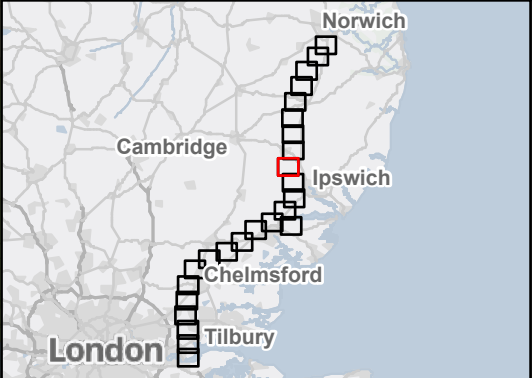
Grade 3

Grade 4

Non Agricultural

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

Title:  
Figure 6.2 - Agriculture and Soils -  
Provisional Agricultural Land  
Classification (ALC) Mapping  
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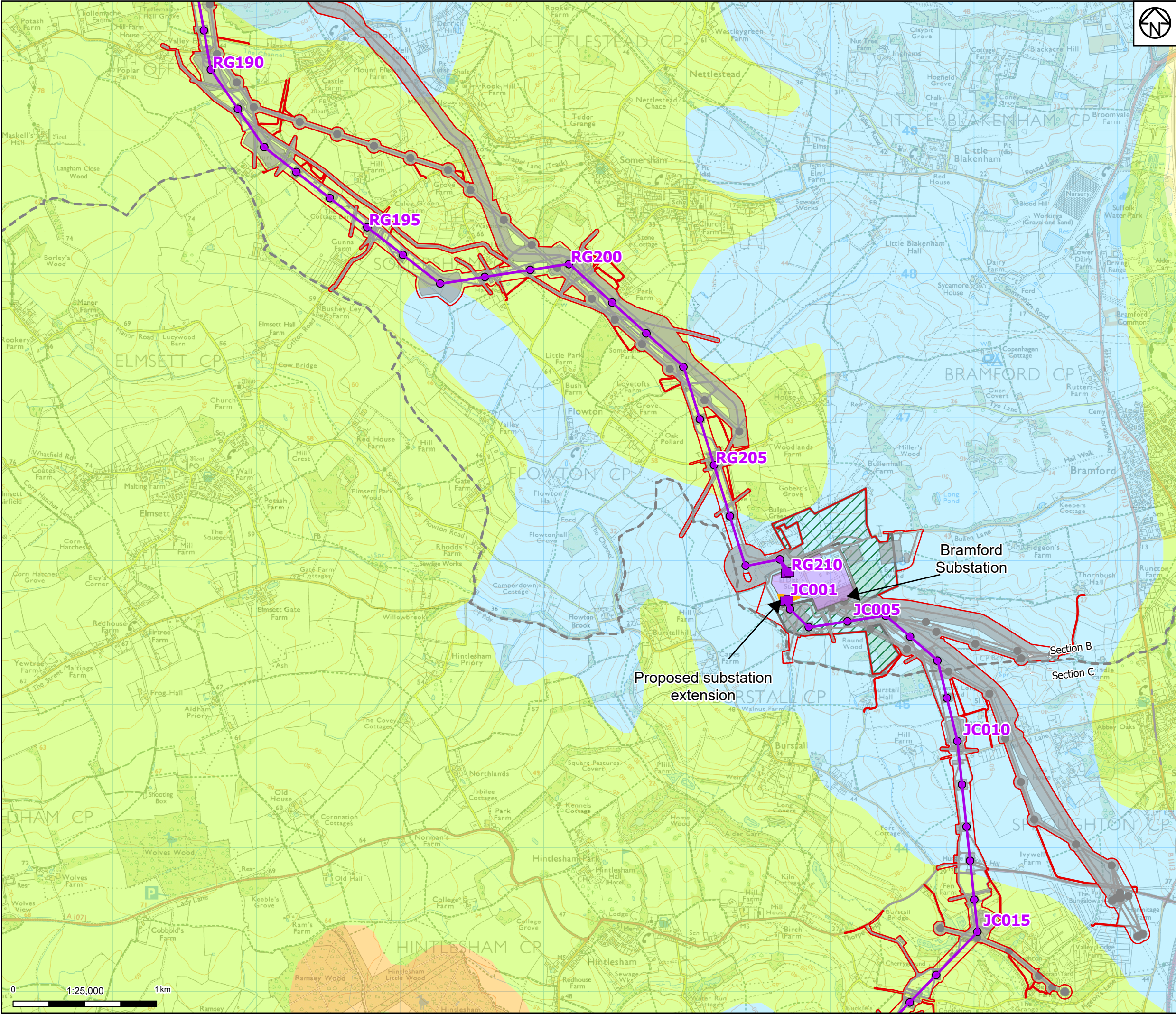
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Suitability Description:			

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Drawing Number:  
10059280-ARC-ELS-ZZ-DR-ZZ-00083

Revision:  
A





Draft order limits

Project sections

Proposed overhead line alignment

Proposed low duty gantry

Proposed pylon position

Existing Substation

Proposed Substation Extension

Proposed Environmental Areas

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 2

Grade 3

Grade 4

Non Agricultural

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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Norwich to Tilbury

Title: Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping  
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Suitability Description:

Accepted as Concept Stage

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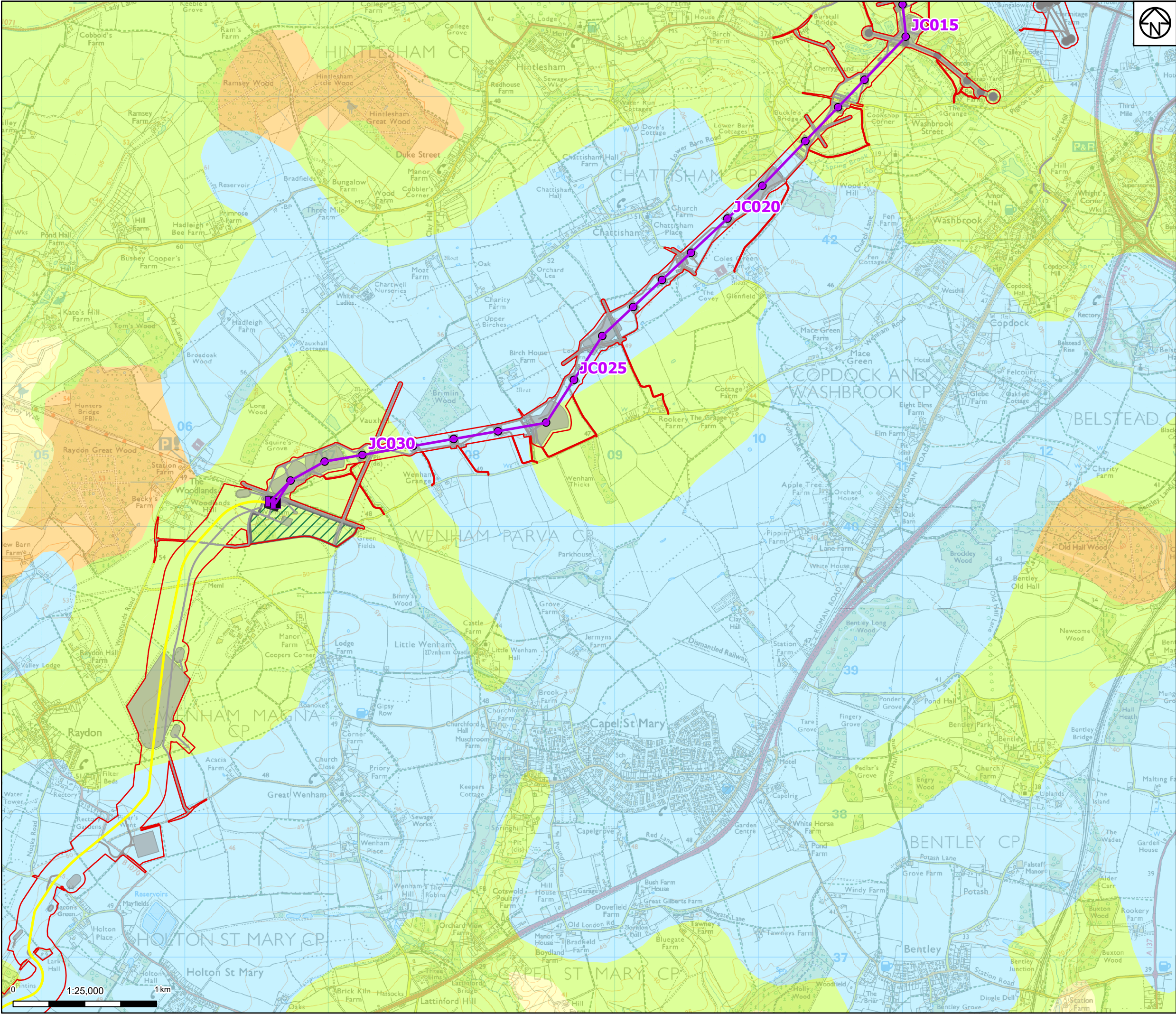
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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed full line tension gantry

Proposed pylon position

Proposed underground cable alignment

Proposed cable sealing end compound

Proposed Environmental Areas

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 2

Grade 3

Grade 4

Non Agricultural

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

Norwich to Tilbury

Title:  
Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping  
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Designed	J. Glynn	Date	April 2024
Drawn	S. Bhandarkar	Date	April 2024
Checked	A. Fell	Date	April 2024
Approved	K. Burrows	Date	April 2024
Scale:	1:25,000	Datum:	AOD
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Suitability Code:	A2	Project Number:	10059280

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Accepted as Concept Stage

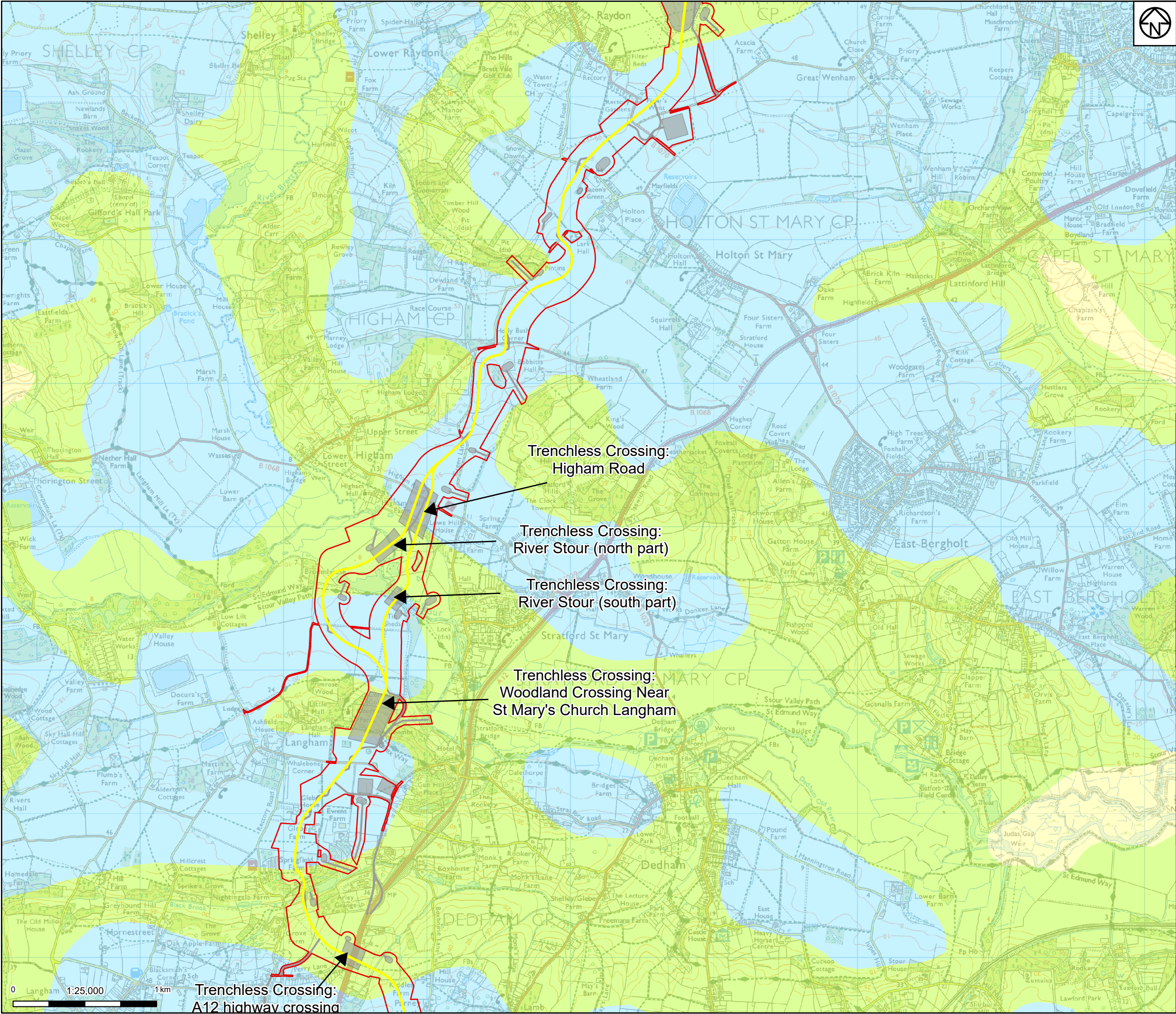
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Draft order limits

Proposed project design details

Proposed underground cable alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

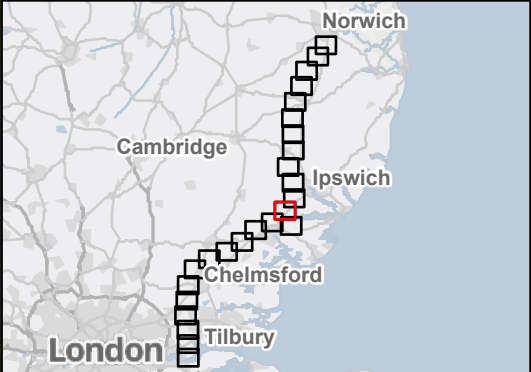
Grade 2

Grade 3


Grade 4

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

Norwich to Tilbury

Title:

Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping

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Designed	J. Glynn	Date	April 2024
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Approved	K. Burrows	Date	April 2024
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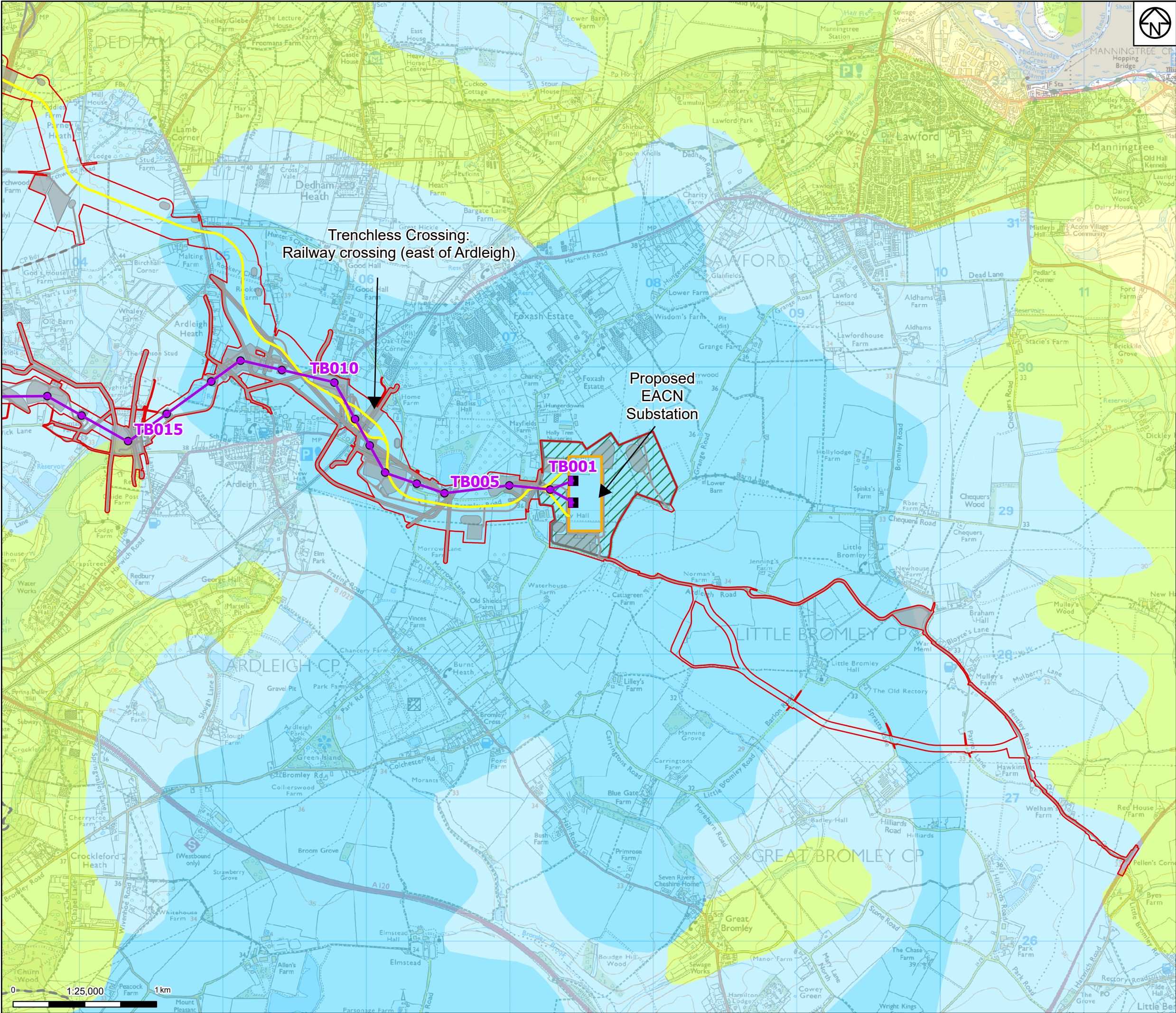
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Revision:

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- Legend**
- Draft order limits
  - Project sections
  - Proposed project design details**
    - Proposed overhead line alignment
    - Proposed full line tension gantry
    - Proposed pylon position
    - Proposed underground cable alignment
    - Proposed EACN Substation
    - Proposed Environmental Areas
    - Other temporary and permanent construction and operational works

- Discipline specific constraints**
- Provisional Agricultural Land Classification**
- Grade 1
  - Grade 2
  - Grade 3
  - Grade 4
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

Norwich to Tilbury

Title:

Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping

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Designed	J. Glynn	Date	April 2024
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Approved	K. Burrows	Date	April 2024
Scale:	1:25,000	Datum:	AOD
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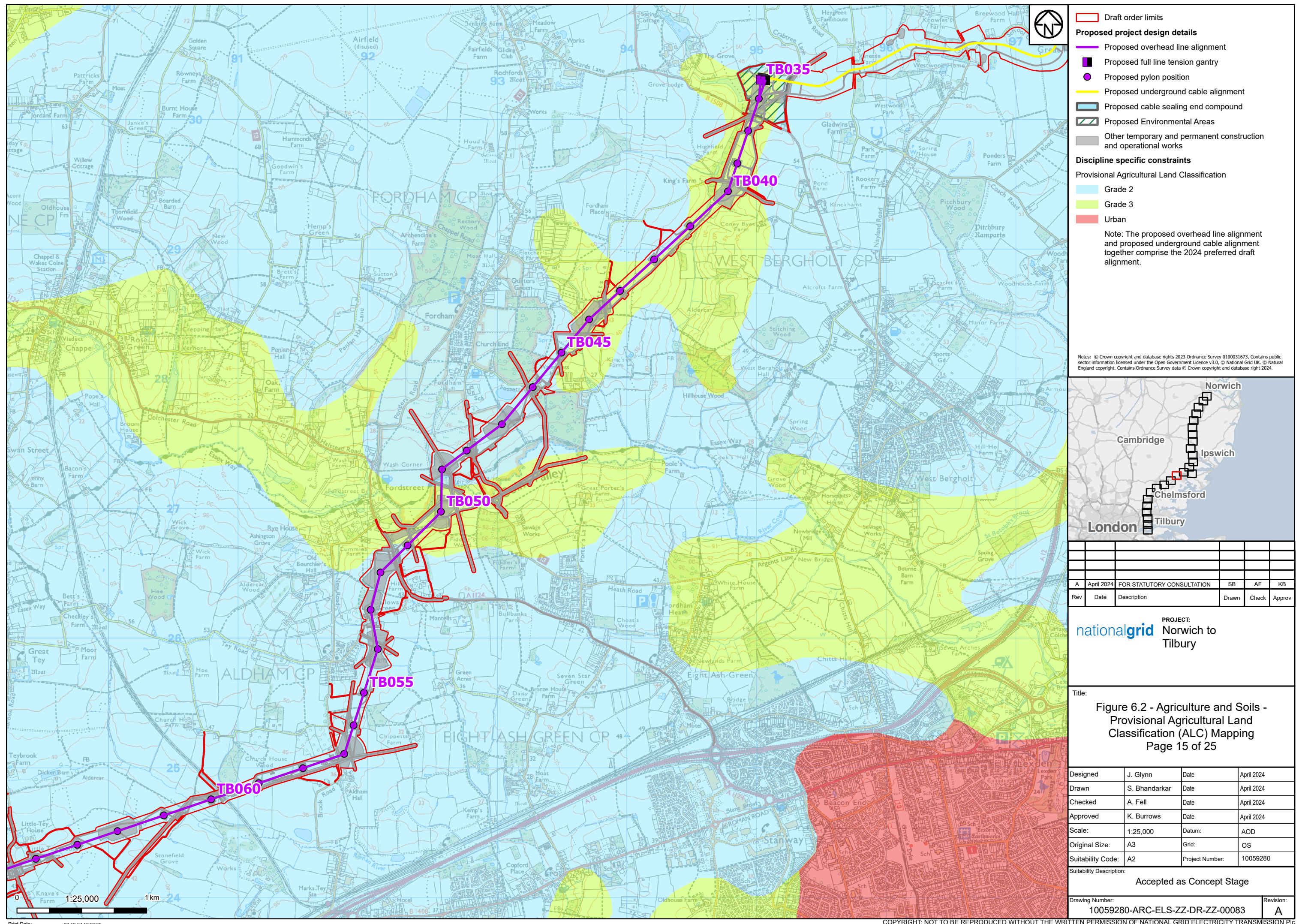
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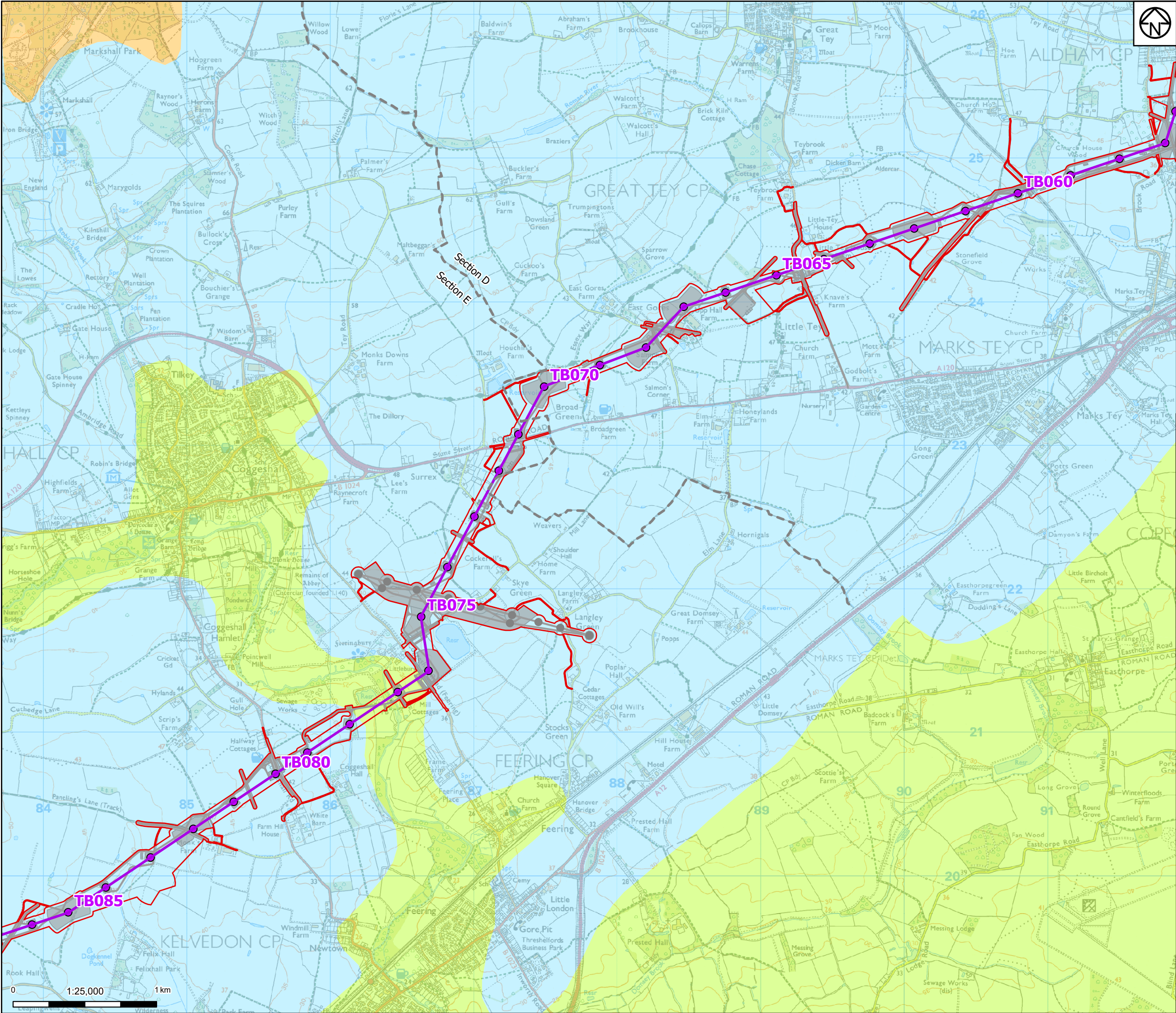












Draft order limits

Project sections

**Proposed project design details**

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

**Discipline specific constraints**

Provisional Agricultural Land Classification

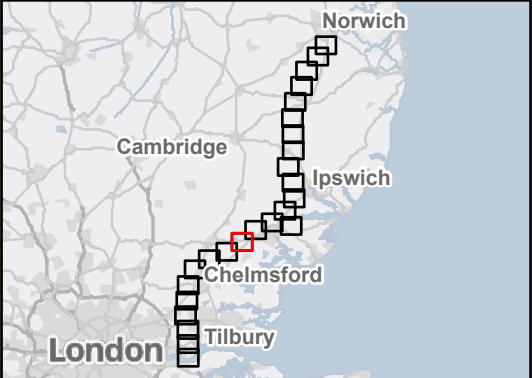
Grade 2

Grade 3

Non Agricultural

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

Norwich to Tilbury

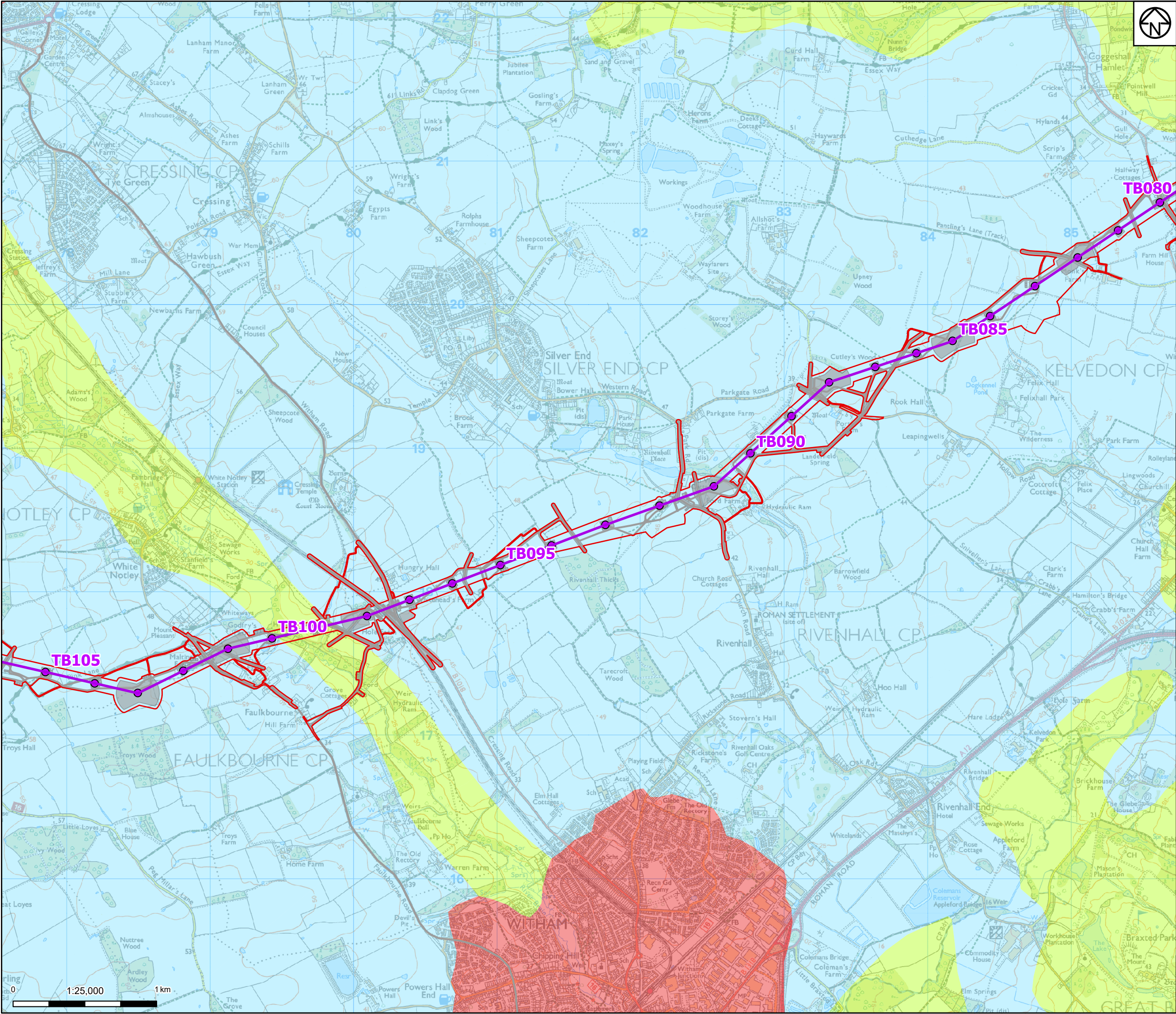
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Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping  
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Suitability Code:	A2	Project Number:	10059280
Suitability Description:			

Accepted as Concept Stage

Drawing Number:	Revision:
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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 2

Grade 3

Urban

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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Norwich

Cambridge

Ipswich

Chelmsford

Tilbury

London

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PROJECT:

Norwich to Tilbury

Title:

Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping  
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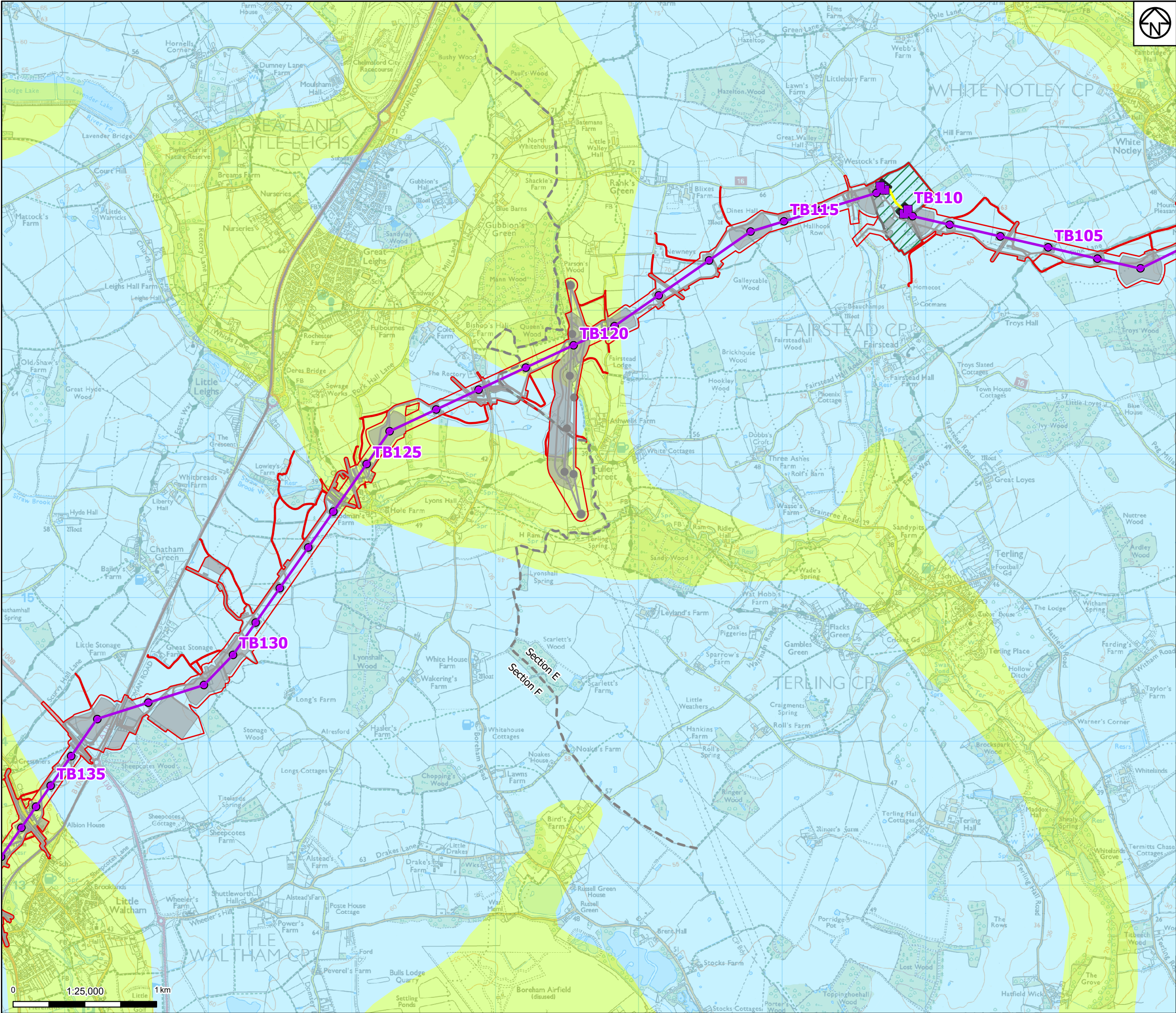
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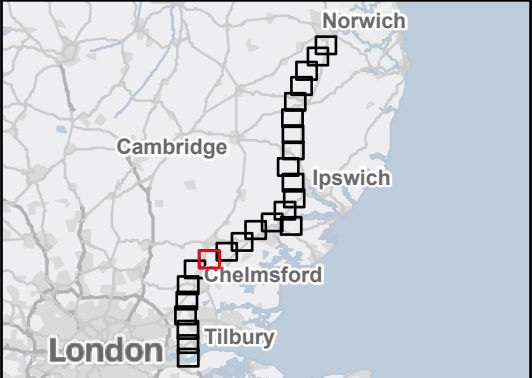
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- Draft order limits
  - Project sections
  - Proposed project design details**
    - Proposed overhead line alignment
    - Proposed low duty gantry
    - Proposed pylon position
    - Proposed underground cable alignment
    - Proposed cable sealing end compound
    - Proposed Environmental Areas
    - Other temporary and permanent construction and operational works
  - Discipline specific constraints**
    - Provisional Agricultural Land Classification
      - Grade 2
      - Grade 3
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

Norwich to Tilbury

Title:

Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping

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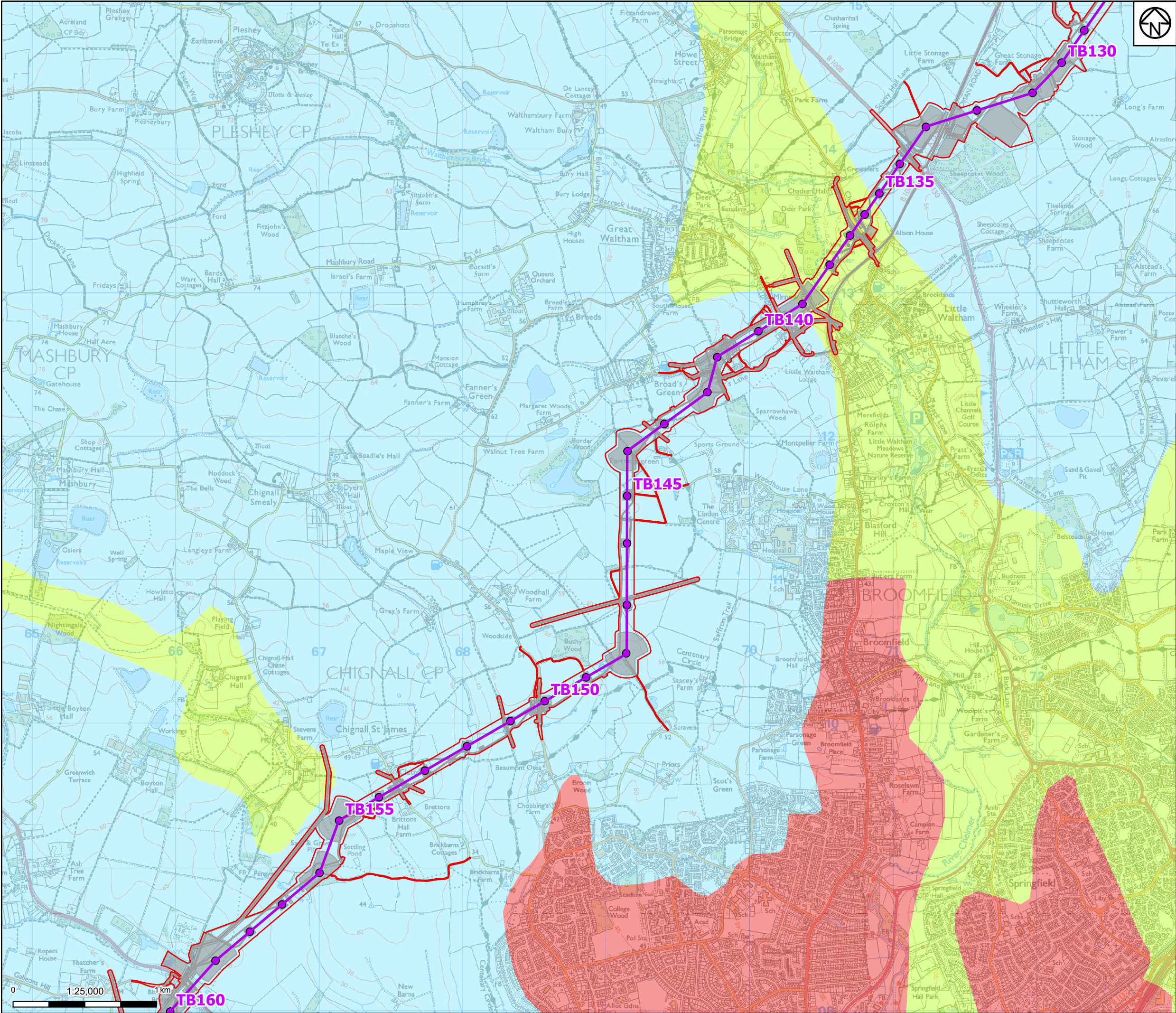
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Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number:  
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Revision:  
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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 2

Grade 3

Urban

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

Title:  
Figure 6.2 - Agriculture and Soils -  
Provisional Agricultural Land  
Classification (ALC) Mapping  
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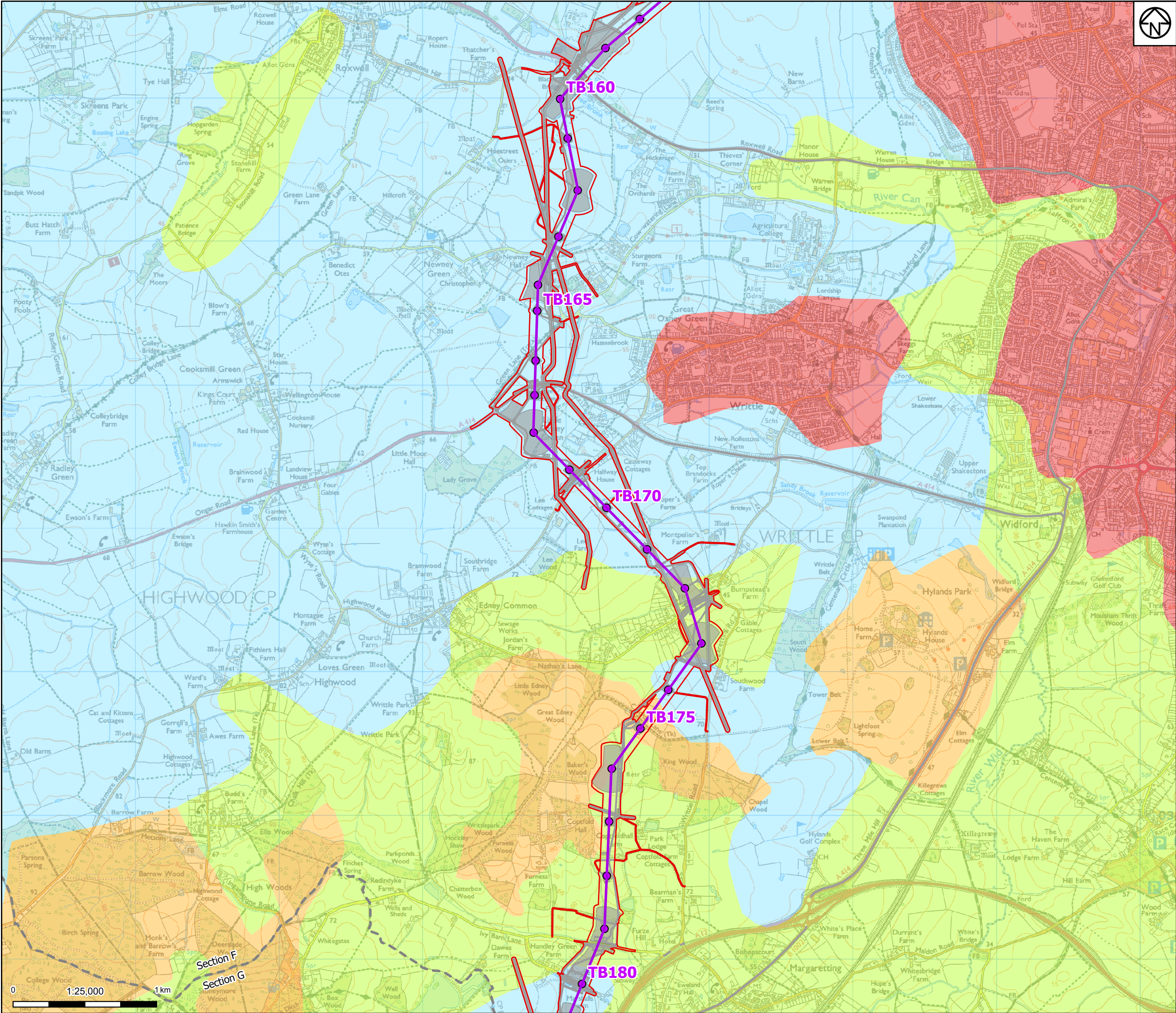
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Revision:  
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Draft order limits

Project sections

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 2

Grade 3

Non Agricultural

Urban

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

Title:  
Figure 6.2 - Agriculture and Soils -  
Provisional Agricultural Land  
Classification (ALC) Mapping  
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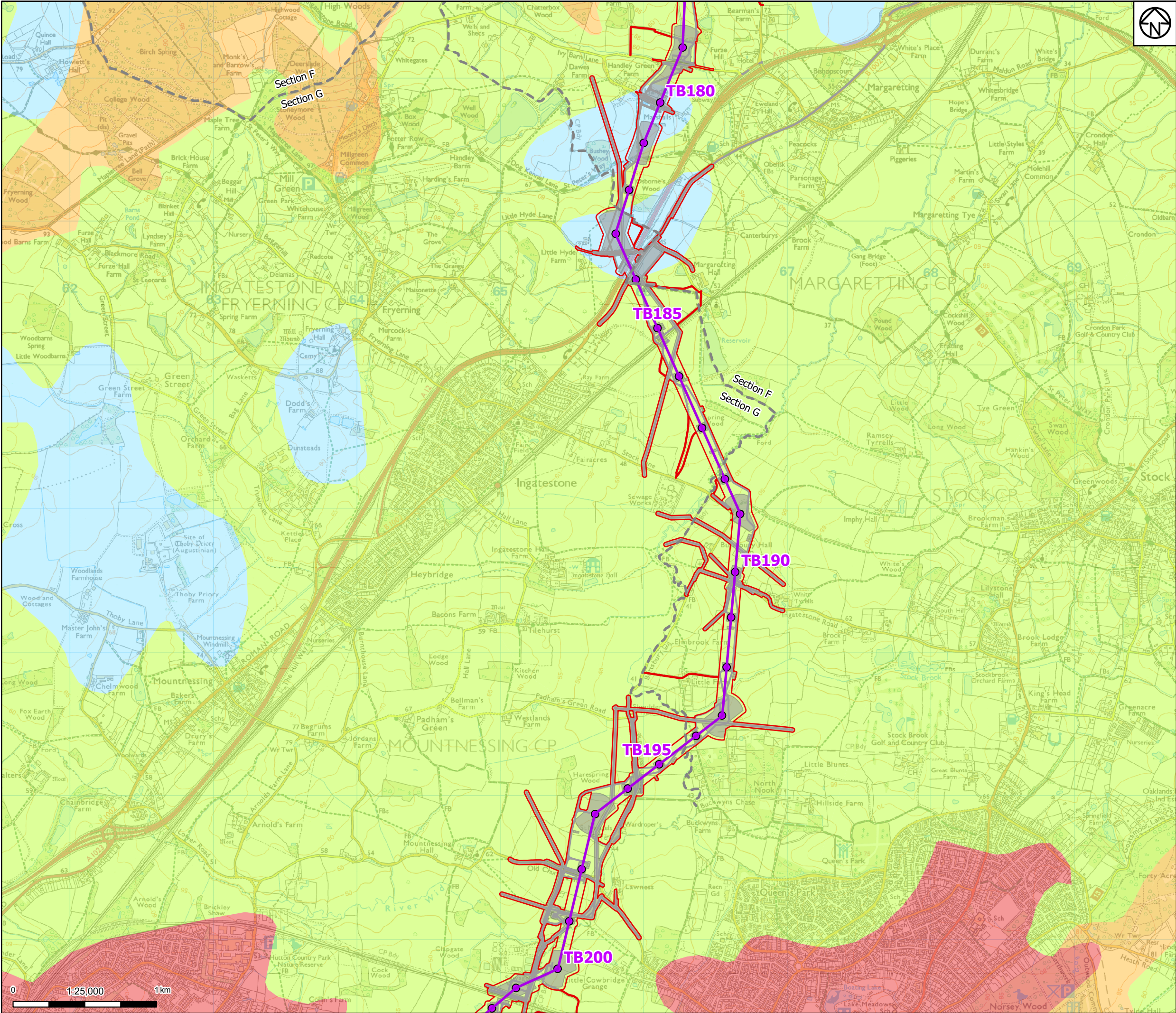
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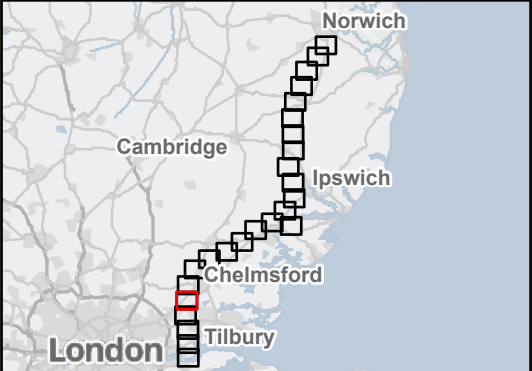


**Legend**

- Draft order limits
- Project sections
- Proposed project design details**
- Proposed overhead line alignment
- Proposed pylon position
- Other temporary and permanent construction and operational works
- Discipline specific constraints**
- Provisional Agricultural Land Classification
- Grade 2
- Grade 3
- Non Agricultural
- Urban

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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nationalgrid Norwich to Tilbury

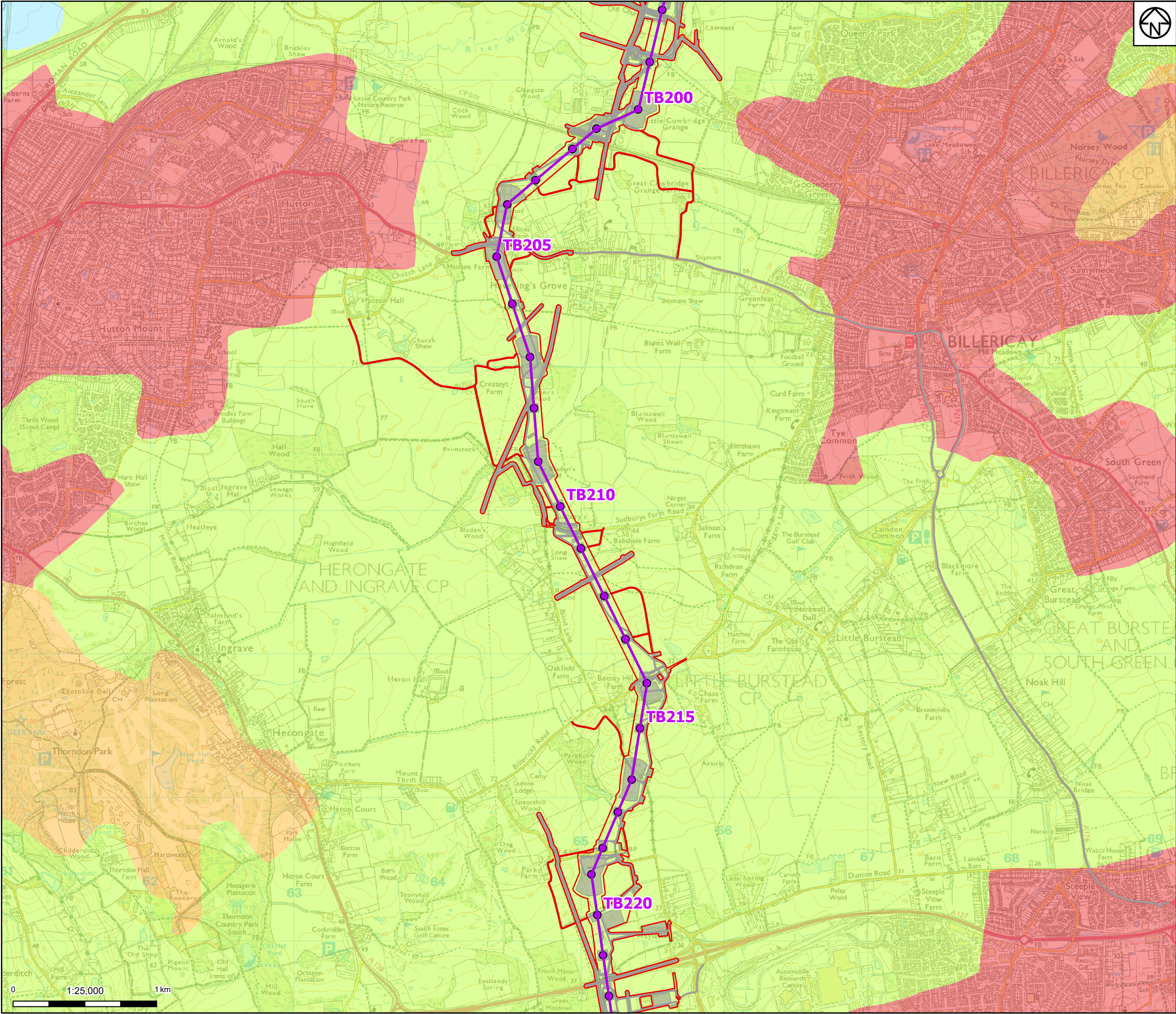
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Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping  
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Checked	A. Fell	Date	April 2024
Approved	K. Burrows	Date	April 2024
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:  
Accepted as Concept Stage

Drawing Number: 10059280-ARC-ELS-ZZ-DR-ZZ-00083	Revision: A
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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 2

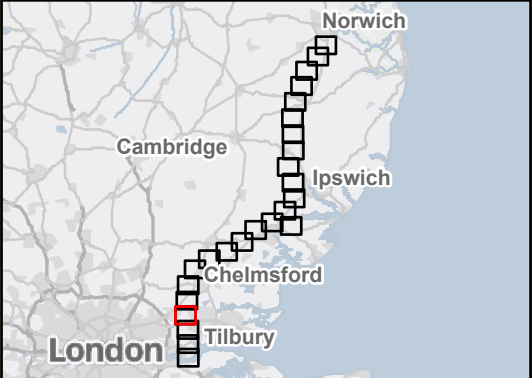
Grade 3

Non Agricultural

Urban

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

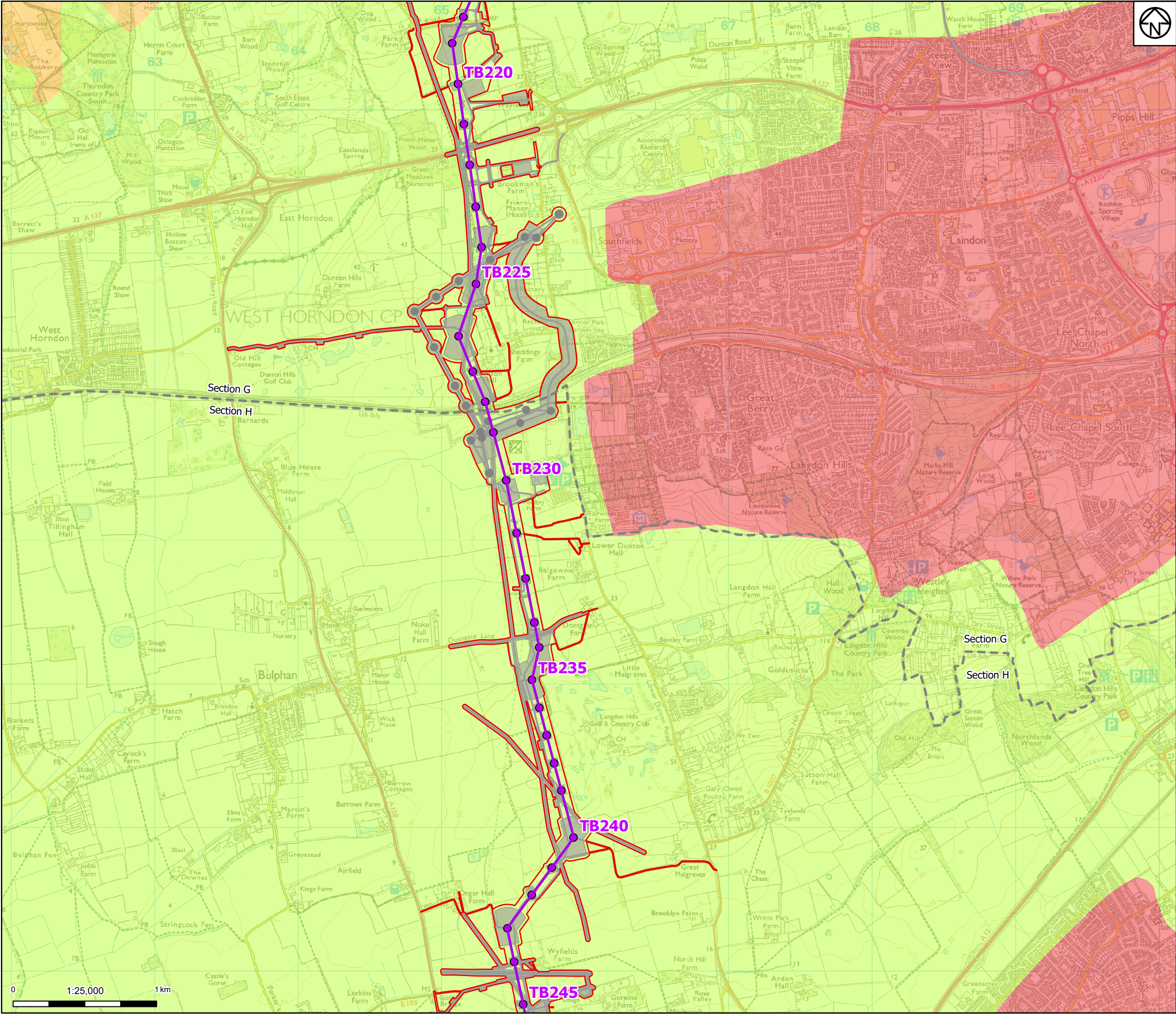
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Figure 6.2 - Agriculture and Soils -  
Provisional Agricultural Land  
Classification (ALC) Mapping  
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Approved	K. Burrows	Date	April 2024
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Suitability Code:	A2	Project Number:	10059280
Suitability Description:			

Accepted as Concept Stage

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Draft order limits

Project sections

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Proposed project design details

Grade 3

Non Agricultural

Urban

Discipline specific constraints

Provisional Agricultural Land Classification

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:

Norwich to Tilbury

Title:

Figure 6.2 - Agriculture and Soils - Provisional Agricultural Land Classification (ALC) Mapping

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Designed	J. Glynn	Date	April 2024
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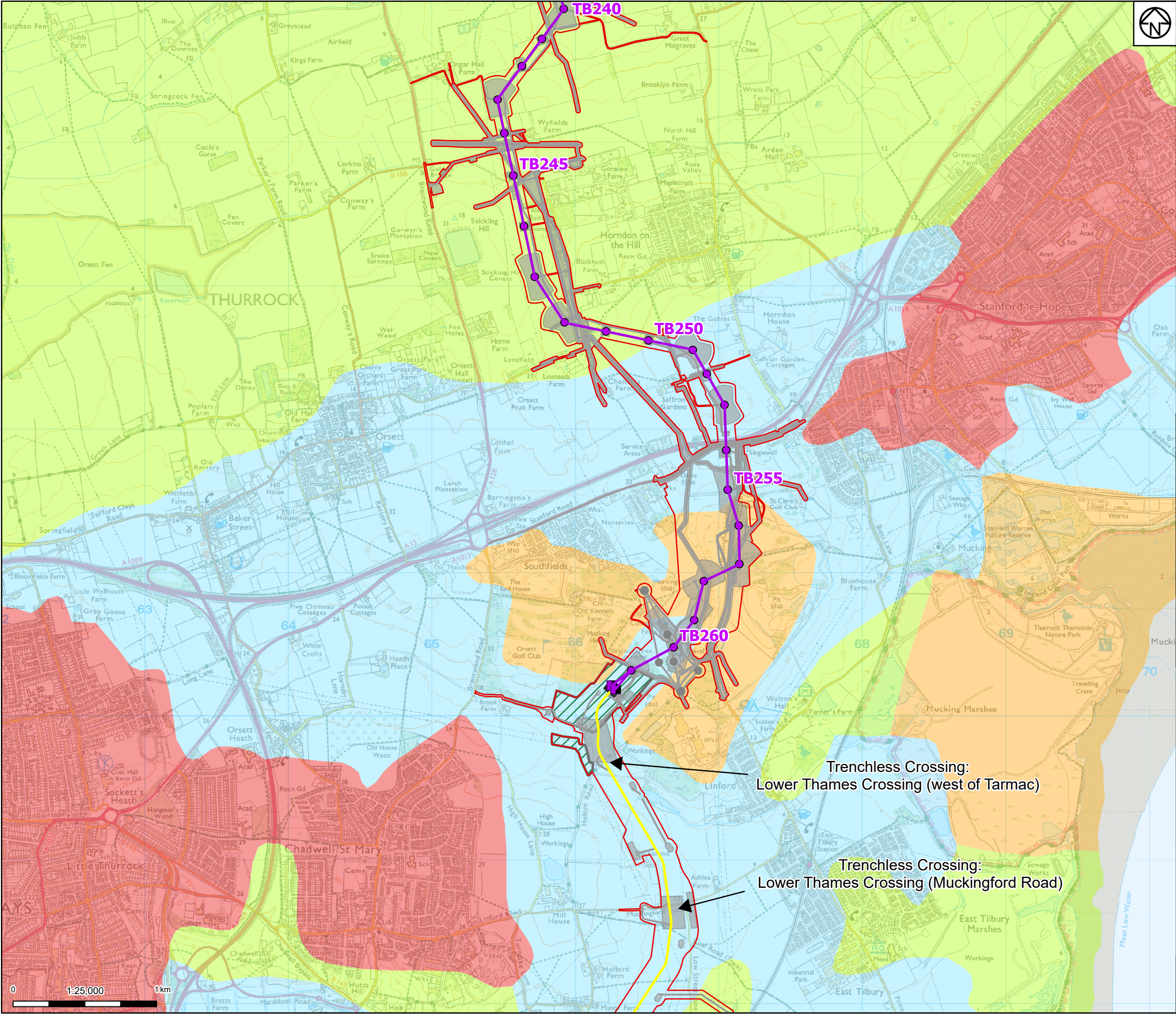
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Revision:

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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed full line tension gantry

Proposed pylon position

Proposed underground cable alignment

Proposed cable sealing end compound

Proposed Environmental Areas

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 2

Grade 3

Non Agricultural

Urban

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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PROJECT:  
Norwich to  
Tilbury

Title:  
Figure 6.2 - Agriculture and Soils -  
Provisional Agricultural Land  
Classification (ALC) Mapping  
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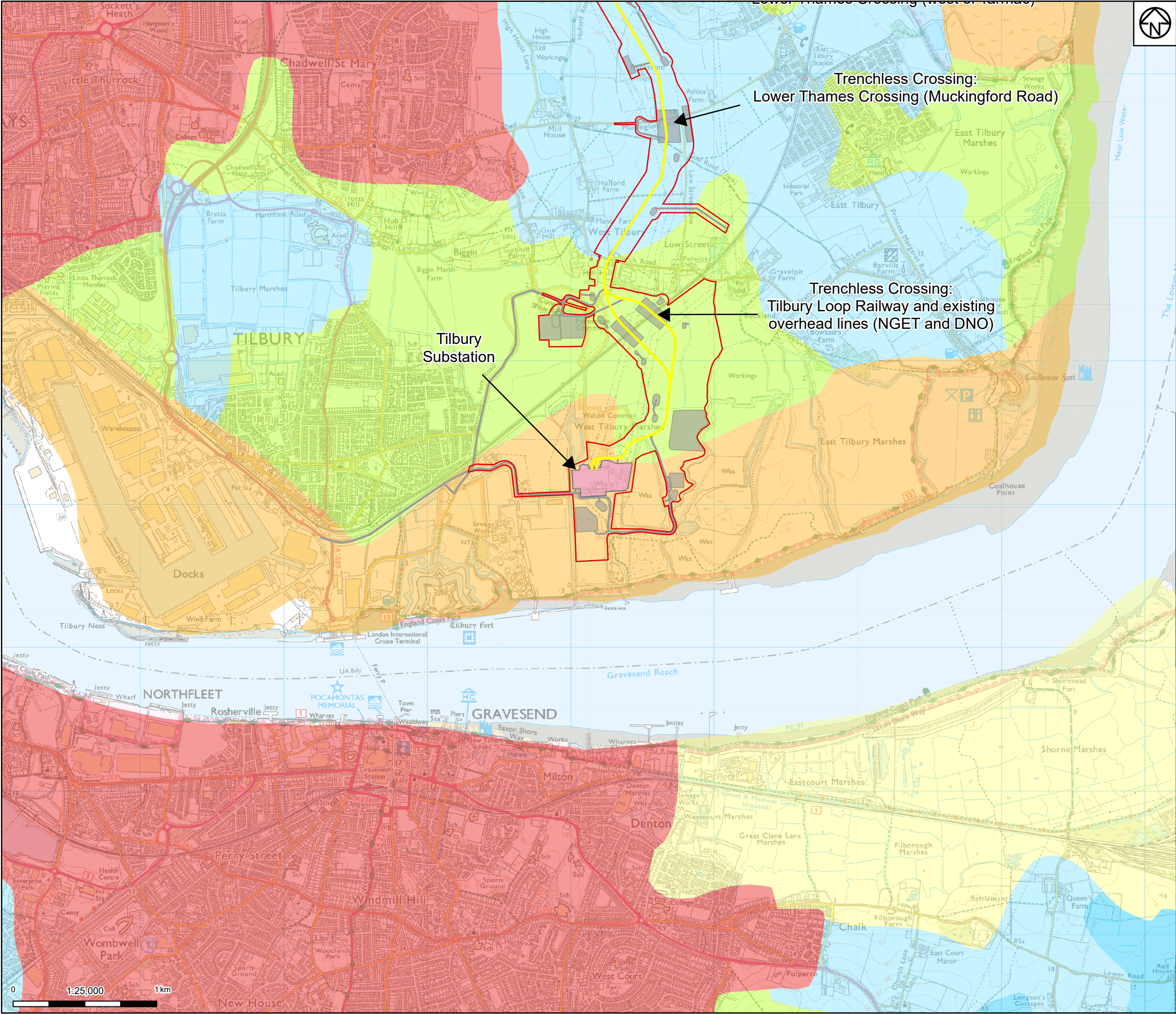
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Suitability Description:  
Accepted as Concept Stage

Drawing Number:  
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Revision:  
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Draft order limits

Proposed project design details

Proposed underground cable alignment

Existing Substation

Other temporary and permanent construction and operational works

Discipline specific constraints

Provisional Agricultural Land Classification

Grade 1

Grade 2

Grade 3

Grade 4

Non Agricultural

Urban

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Norwich to  
Tilbury

Title:

Figure 6.2 - Agriculture and Soils -  
Provisional Agricultural Land  
Classification (ALC) Mapping  
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