

# Volume II: Figures

## Part 9 of 27:

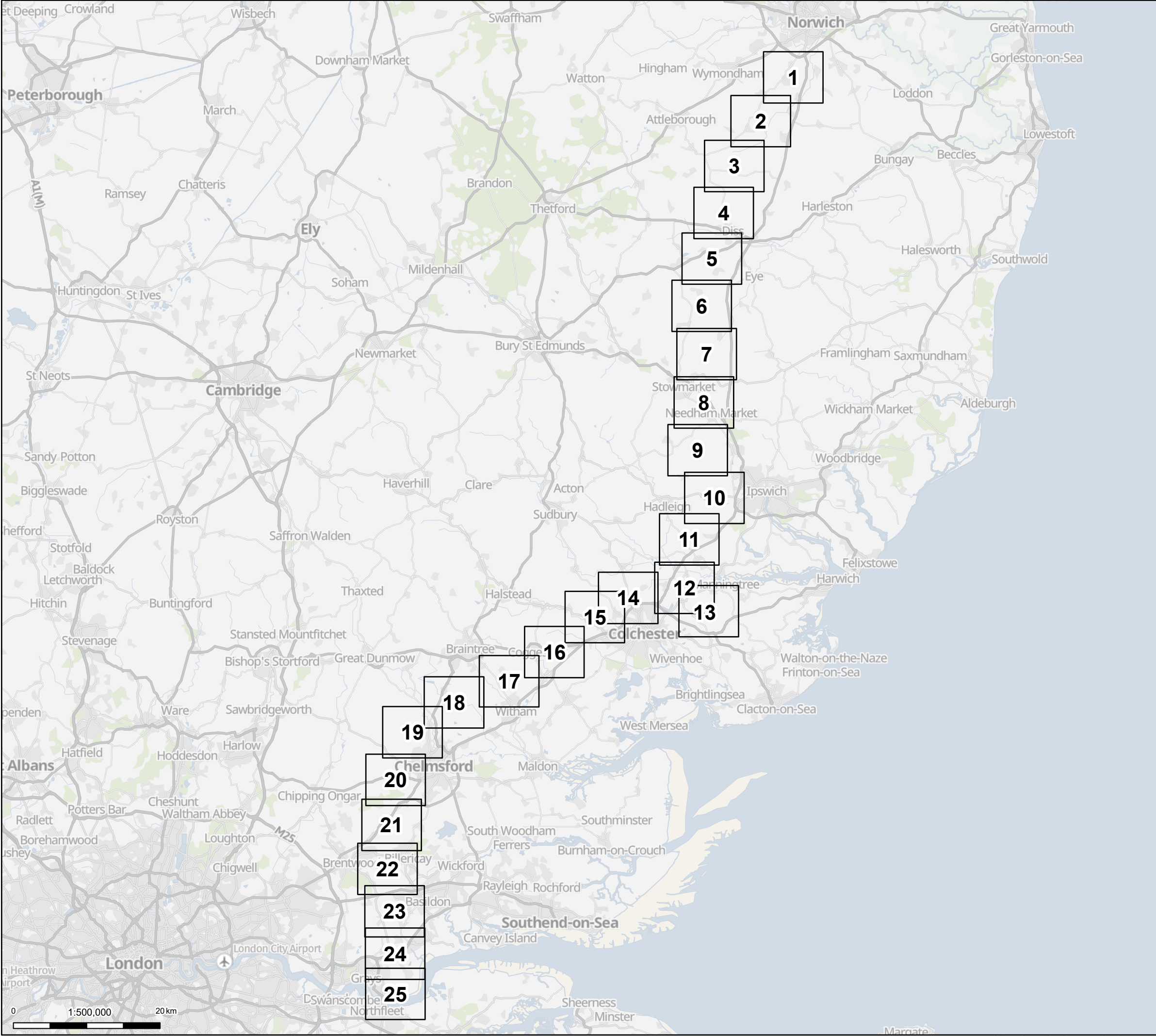
Figure 12.2 - Flood Risk Areas

Figure 12.3 - Water Framework Surface Waterbody Status

Figure 13.1 - LVIA Study Area and Landscape Designations

Figure 13.2 - Landform and Drainage

Figure 13.3 - Trees and Woodland



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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Rev	Date	Description	Drawn	Check	Approv

PROJECT:  
Norwich to  
Tilbury

Title:

Figure 12.2: Hydrology and Land Drainage  
Flood Risk Areas  
Overview

Designed	L. Driscoll	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
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

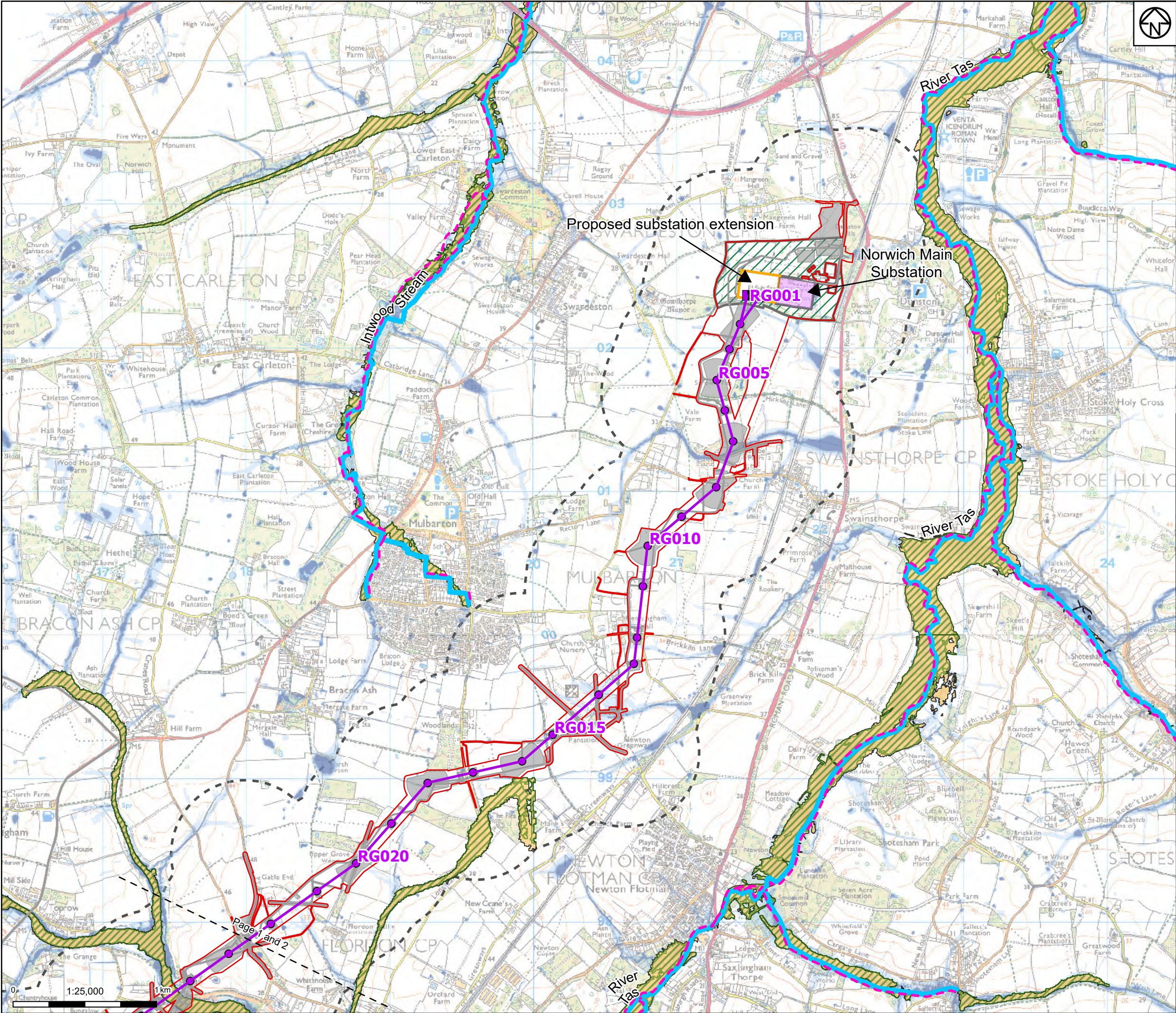
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Accepted as Concept Stage

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10059280-ARC-ELS-ZZ-DR-ZZ-00099

Revision:  
B





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

500m Study Area

Risk of flooding from Surface Water Extent 0.1% annual chance

Risk of flooding from Surface Water Extent 1% annual chance

Risk of flooding from Surface Water Extent 3.3% annual chance

Flood Zone 2

Flood Zone 3

Main Rivers

Flood Defences

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 12.2: Hydrology and Land Drainage  
Flood Risk Areas  
Page 1 of 25

Designed	L. Driscoll	Date	June 2024
Drawn	S. Bhandarkar	Date	June 2024
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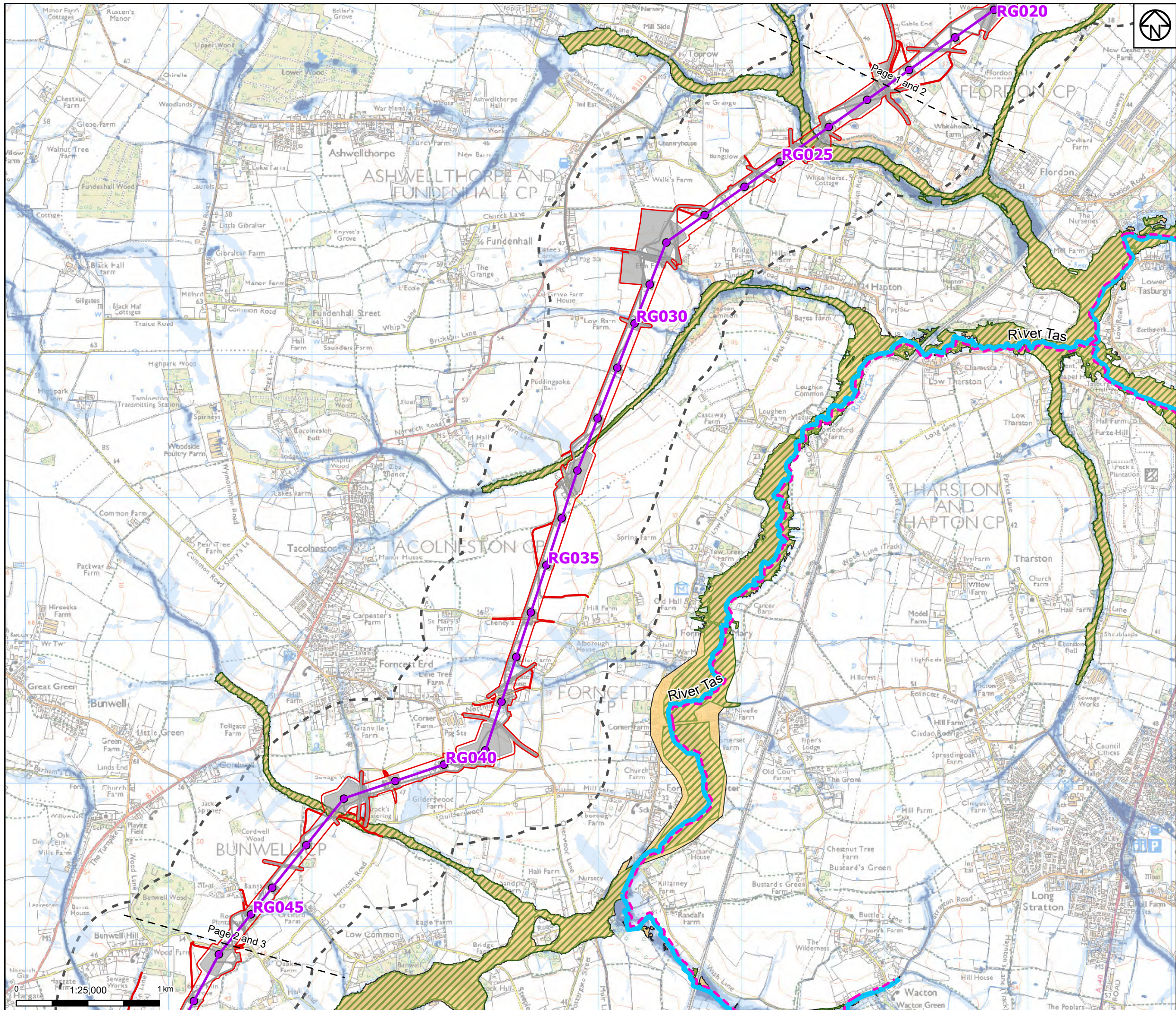
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**Legend**

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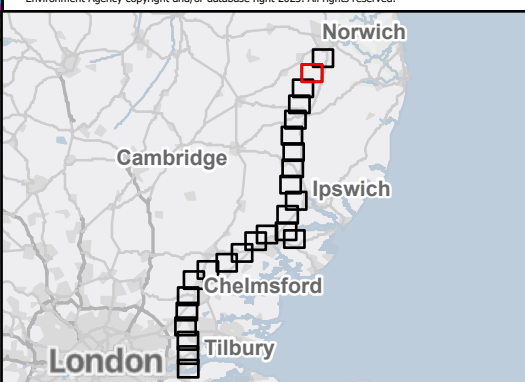
- Proposed overhead line alignment
- Proposed pylon position
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

- 500m Study Area
- Risk of flooding from Surface Water Extent 0.1% annual chance
- Risk of flooding from Surface Water Extent 1% annual chance
- Risk of flooding from Surface Water Extent 3.3% annual chance
- Flood Zone 2
- Flood Zone 3
- Main Rivers
- Flood Defences

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

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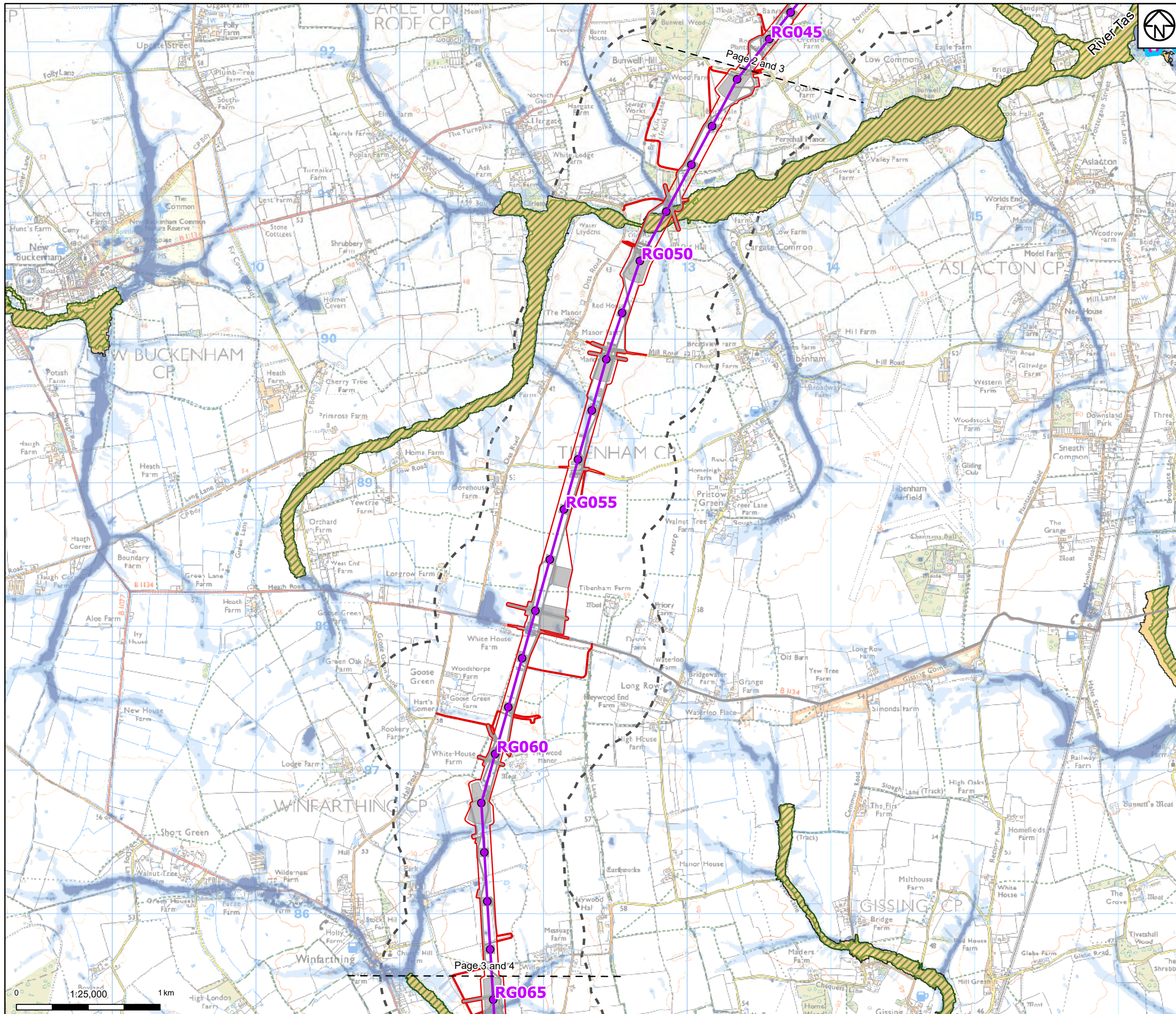
Title: Figure 12.2: Hydrology and Land Drainage Flood Risk Areas Page 2 of 25

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Suitability Description: Accepted as Concept Stage

Drawing Number: 10059280-ARC-ELS-ZZ-DR-ZZ-00099 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

500m Study Area

Risk of flooding from Surface Water Extent 0.1% annual chance

Risk of flooding from Surface Water Extent 1% annual chance

Risk of flooding from Surface Water Extent 3.3% annual chance

Flood Zone 2

Flood Zone 3

Main Rivers

Flood Defences

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Norwich

Cambridge

Ipswich

Chelmsford

Tilbury

London

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Norwich to Tilbury

Title:

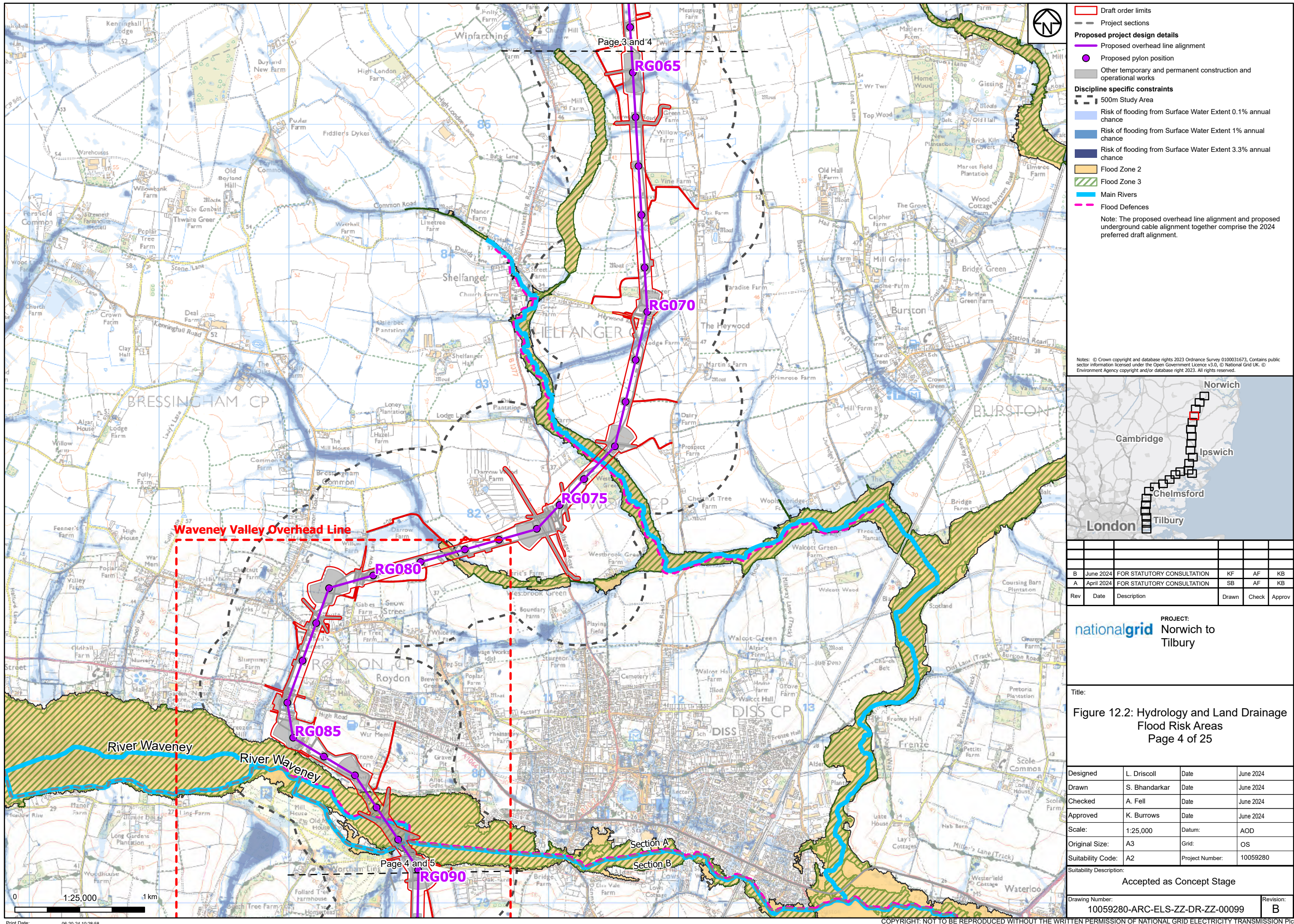
Figure 12.2: Hydrology and Land Drainage Flood Risk Areas  
Page 3 of 25

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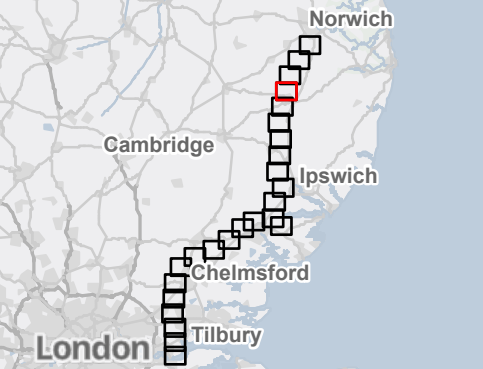
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- Legend**
- Draft order limits
  - Project sections
  - Proposed project design details**
    - Proposed overhead line alignment
    - Proposed pylon position
    - Other temporary and permanent construction and operational works
  - Discipline specific constraints**
    - 500m Study Area
    - Risk of flooding from Surface Water Extent 0.1% annual chance
    - Risk of flooding from Surface Water Extent 1% annual chance
    - Risk of flooding from Surface Water Extent 3.3% annual chance
    - Flood Zone 2
    - Flood Zone 3
    - Main Rivers
    - Flood Defences
- 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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Tilbury

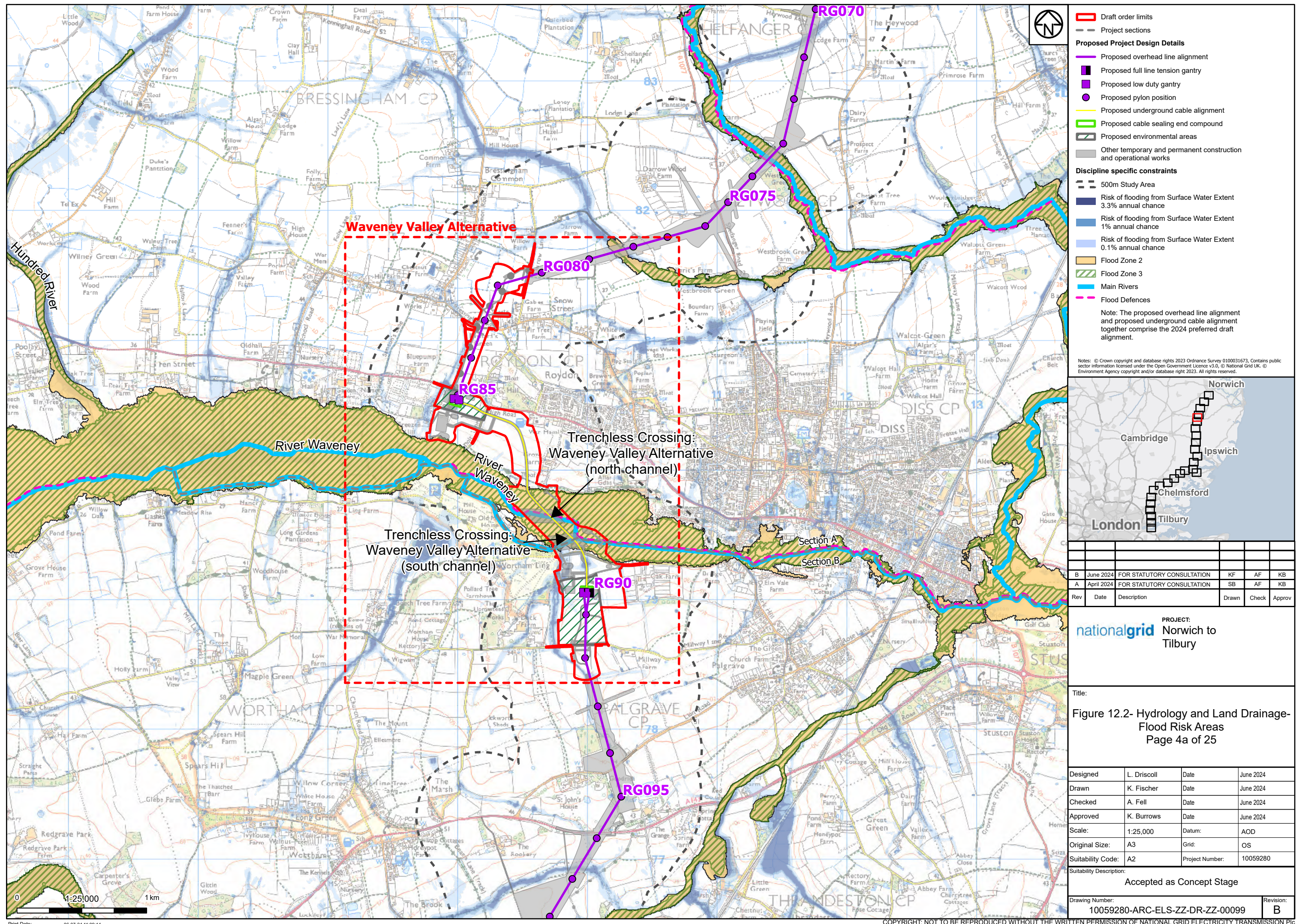
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Figure 12.2: Hydrology and Land Drainage  
Flood Risk Areas  
Page 4 of 25

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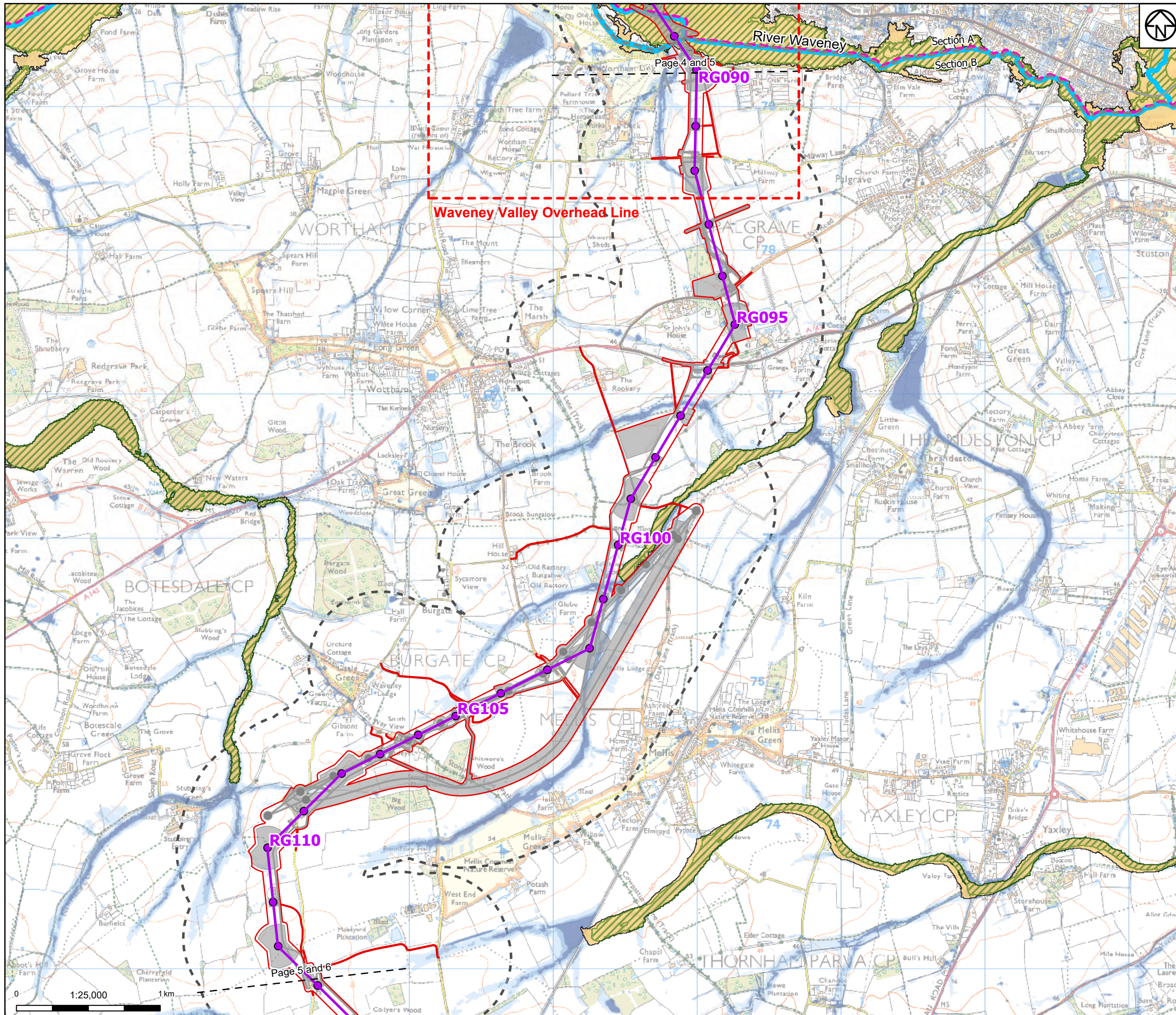
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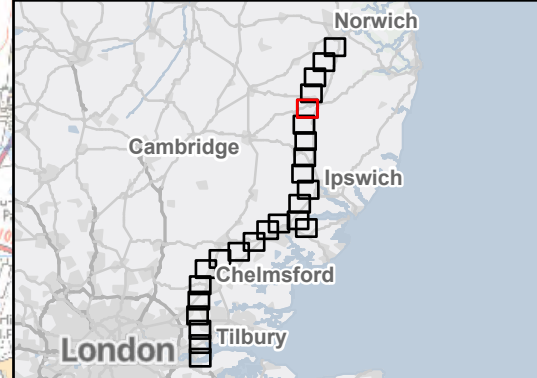


**Legend**

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  - Proposed overhead line alignment
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  - Risk of flooding from Surface Water Extent 0.1% annual chance
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  - Main Rivers
  - Flood Defences

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nationalgrid Norwich to Tilbury

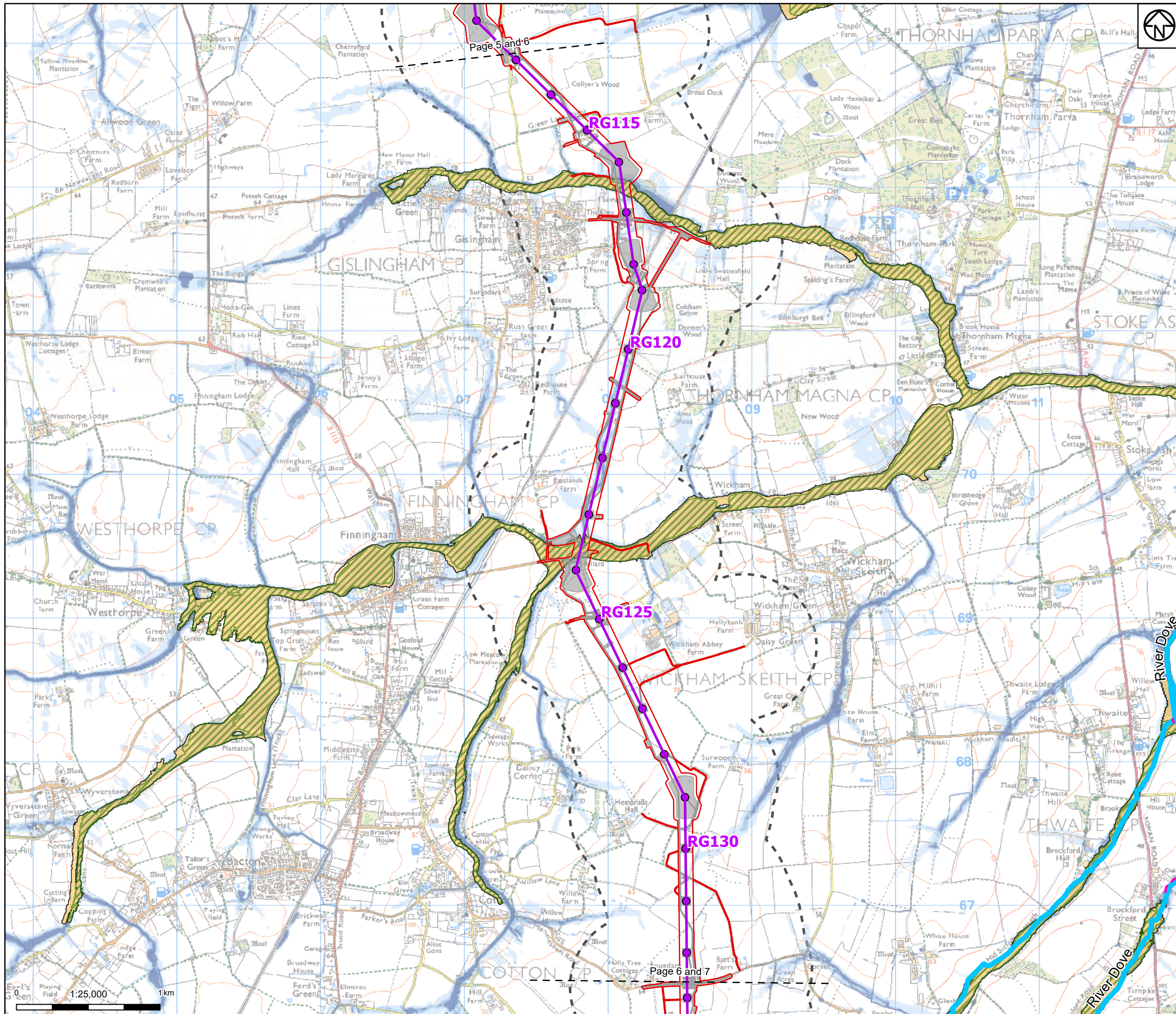
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Figure 12.2: Hydrology and Land Drainage Flood Risk Areas  
Page 5 of 25

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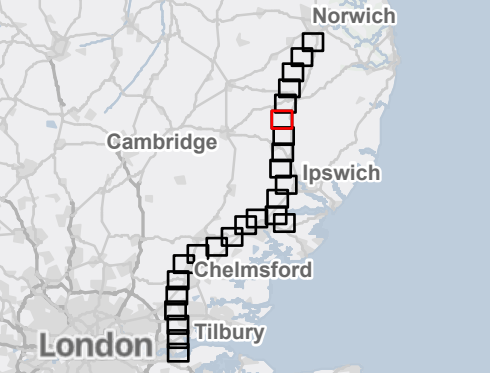




- Draft order limits**
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- Proposed project design details**
- Proposed overhead line alignment
  - Proposed pylon position
  - Other temporary and permanent construction and operational works
- Discipline specific constraints**
- 500m Study Area
  - Risk of flooding from Surface Water Extent 0.1% annual chance
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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 12.2: Hydrology and Land Drainage  
Flood Risk Areas  
Page 6 of 25

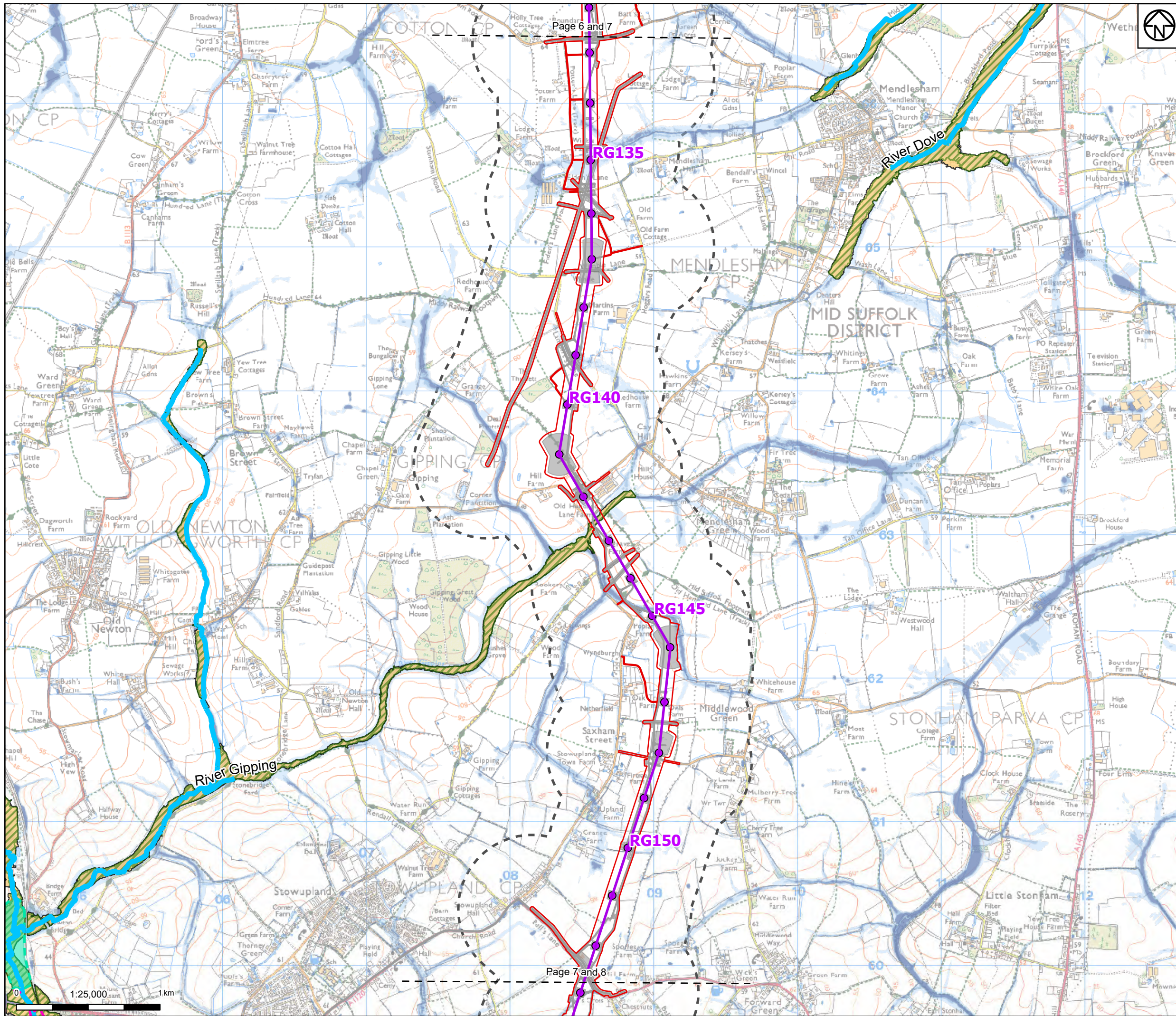
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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

500m Study Area

Risk of flooding from Surface Water Extent 0.1% annual chance

Risk of flooding from Surface Water Extent 1% annual chance

Risk of flooding from Surface Water Extent 3.3% annual chance

Flood Zone 2

Flood Zone 3

Main Rivers

Flood Defences

Flood storage area

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

Norwich

Cambridge

Ipswich

Chelmsford

Tilbury

London

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nationalgrid

PROJECT:  
Norwich to  
Tilbury

Title:

Figure 12.2: Hydrology and Land Drainage  
Flood Risk Areas  
Page 7 of 25

Designed	L. Driscoll	Date	June 2024
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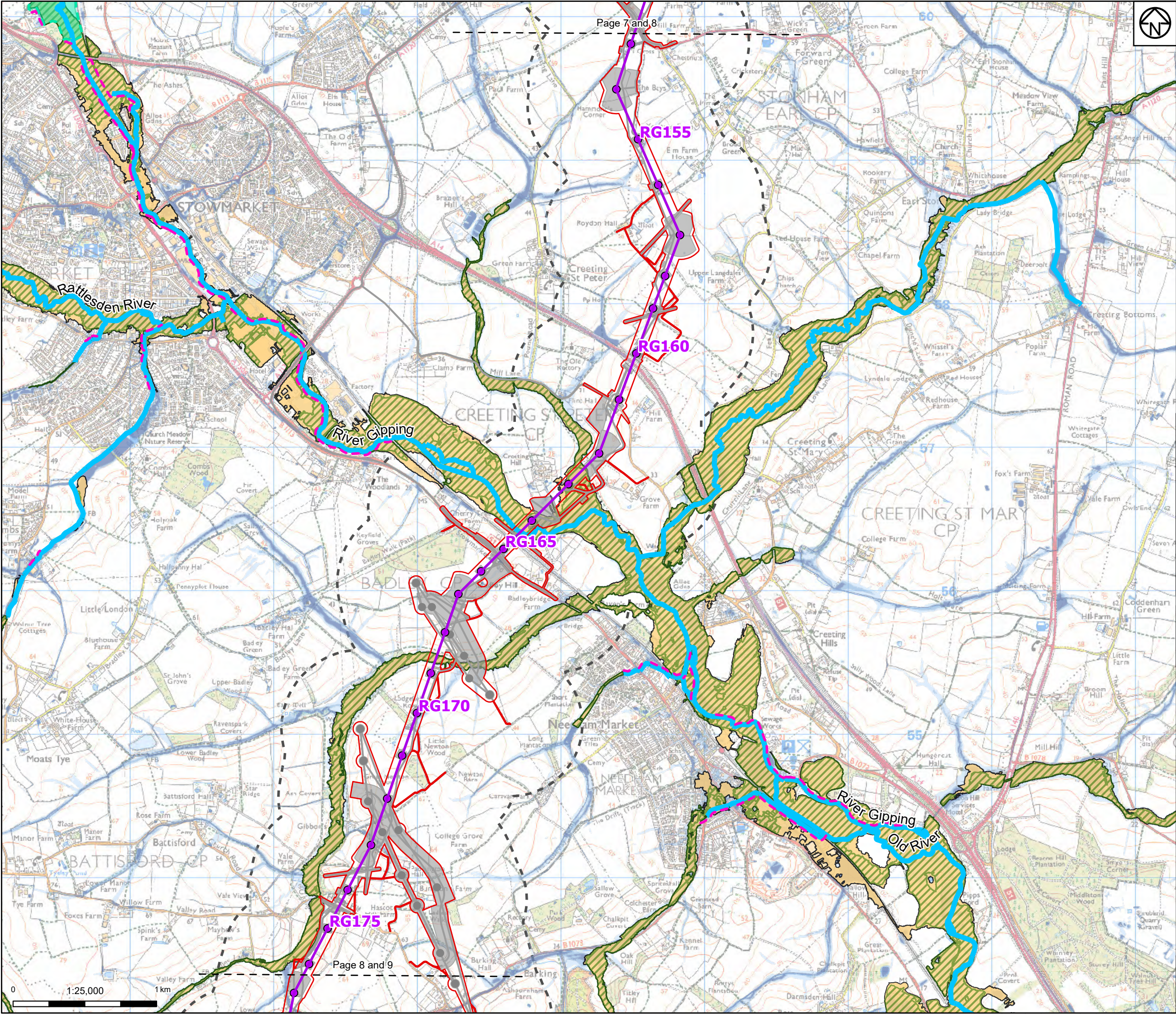
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- Legend**
- Draft order limits
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    - Proposed pylon position
    - Other temporary and permanent construction and operational works
  - Discipline specific constraints**
    - 500m Study Area
    - Risk of flooding from Surface Water Extent 0.1% annual chance
    - Risk of flooding from Surface Water Extent 1% annual chance
    - Risk of flooding from Surface Water Extent 3.3% annual chance
    - Flood Zone 2
    - Flood Zone 3
    - Main Rivers
    - Flood Defences
    - Flood storage 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 12.2: Hydrology and Land Drainage Flood Risk Areas  
Page 8 of 25

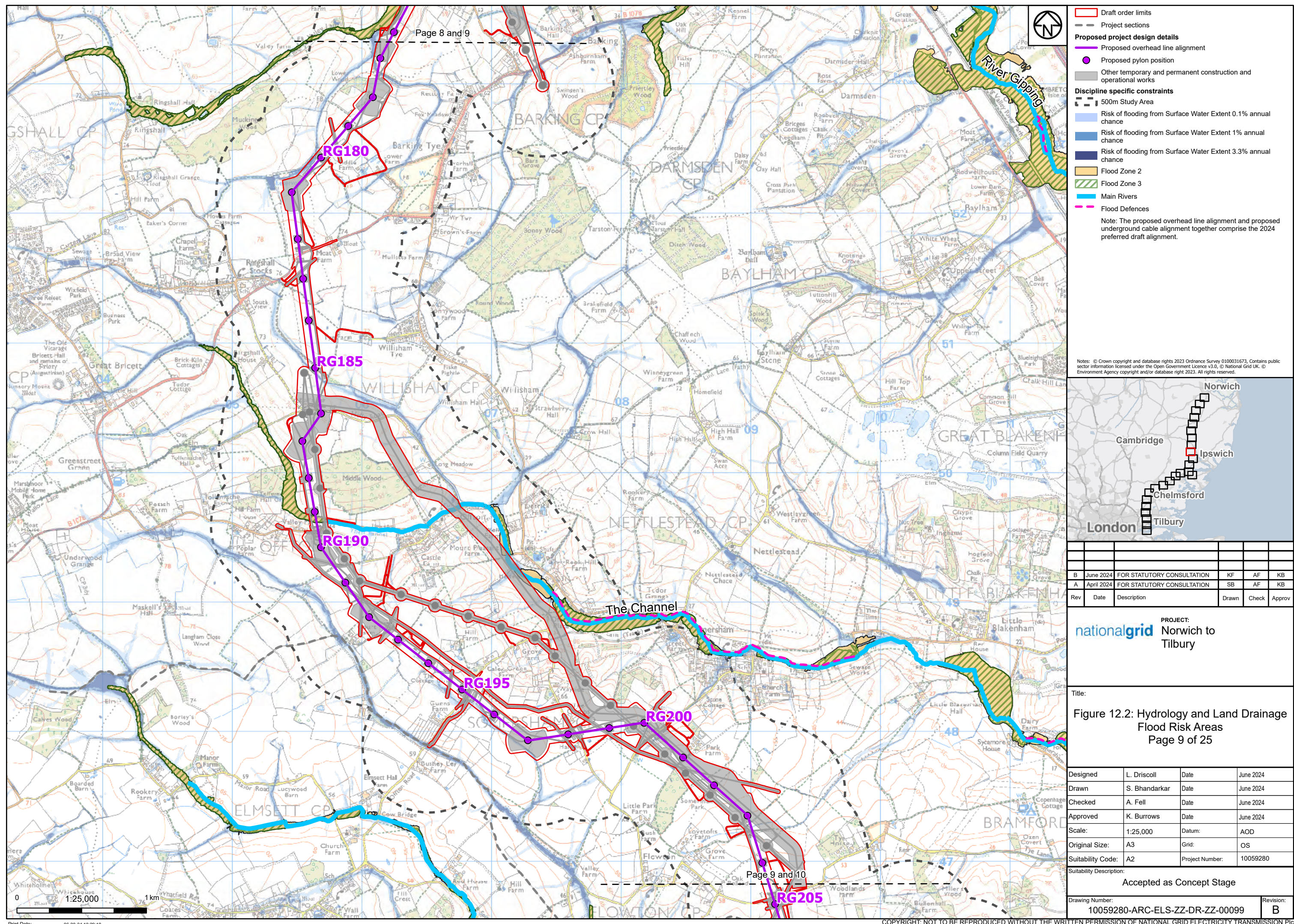
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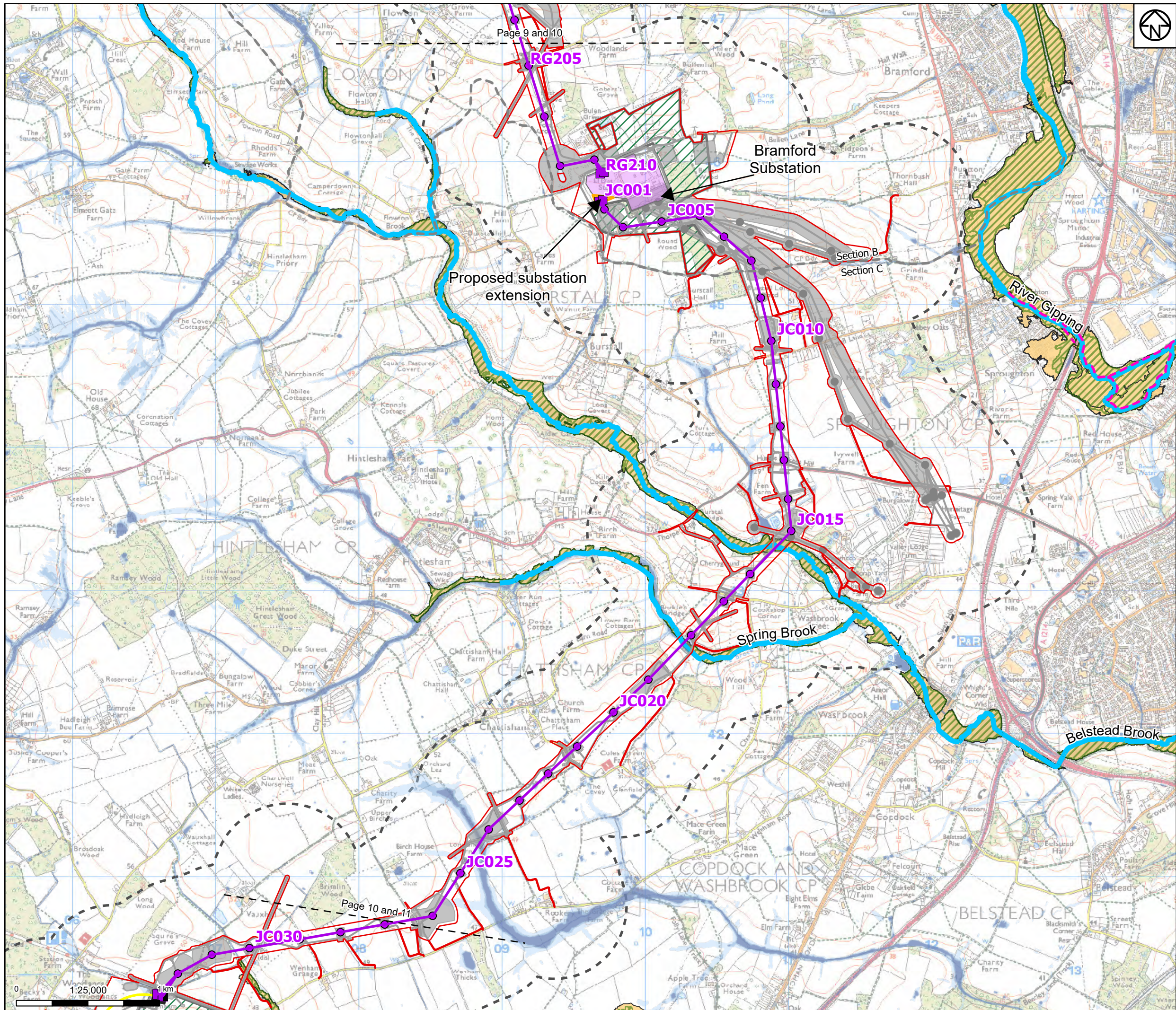
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Revision:  
B









Draft order limits

Project sections

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

Proposed environmental areas

Other temporary and permanent construction and operational works

Discipline specific constraints

500m Study Area

Risk of flooding from Surface Water Extent 0.1% annual chance

Risk of flooding from Surface Water Extent 1% annual chance

Risk of flooding from Surface Water Extent 3.3% annual chance

Flood Zone 2

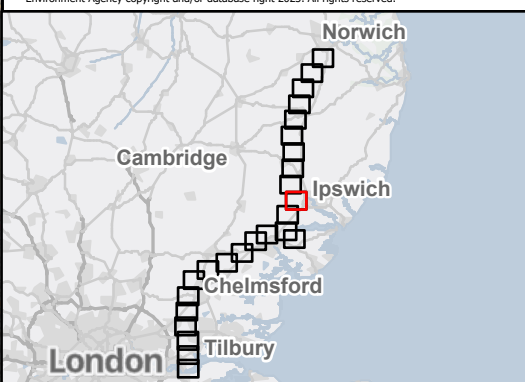
Flood Zone 3

Main Rivers

Flood Defences

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Norwich to Tilbury

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Figure 12.2: Hydrology and Land Drainage  
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Page 10 of 25

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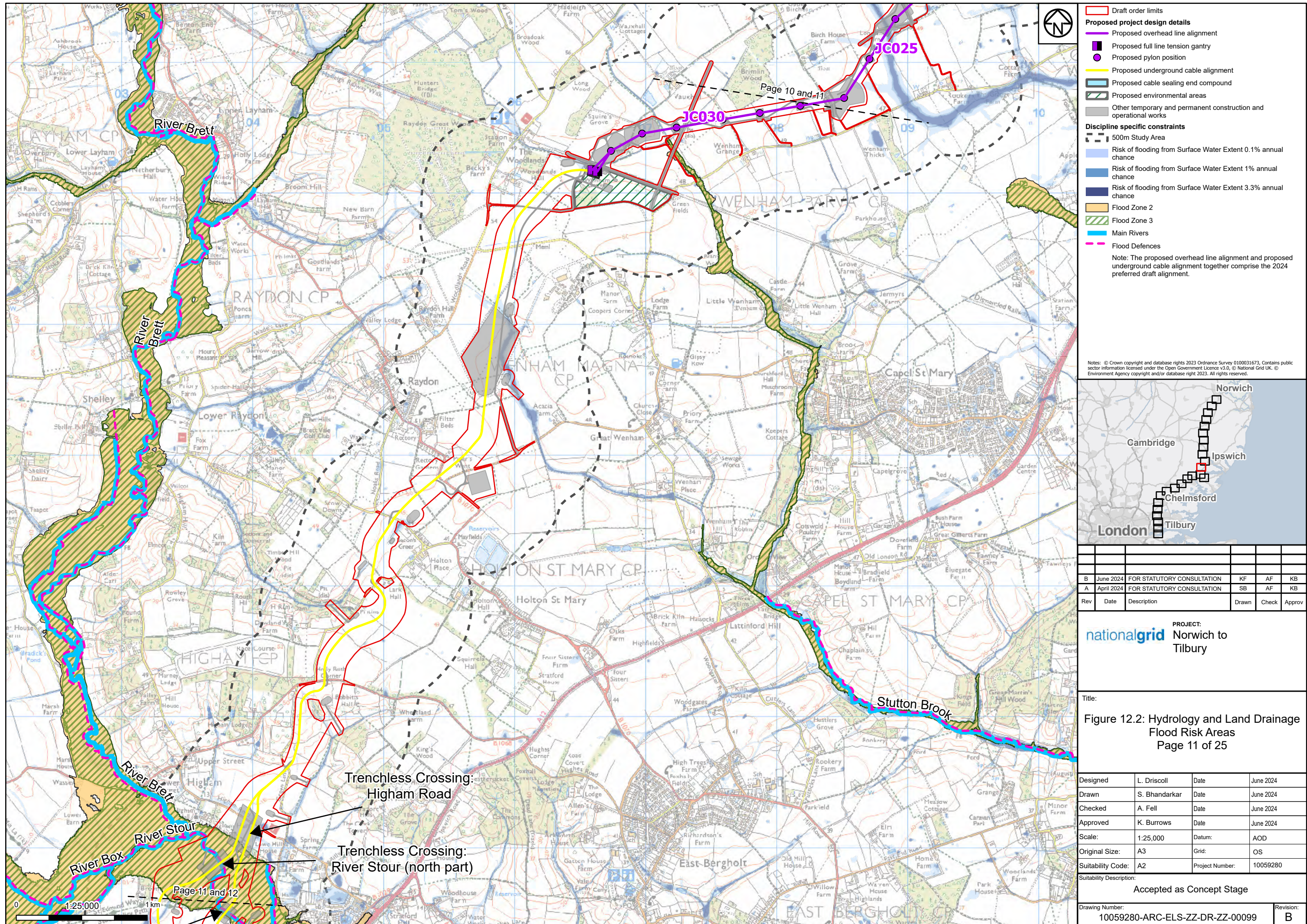
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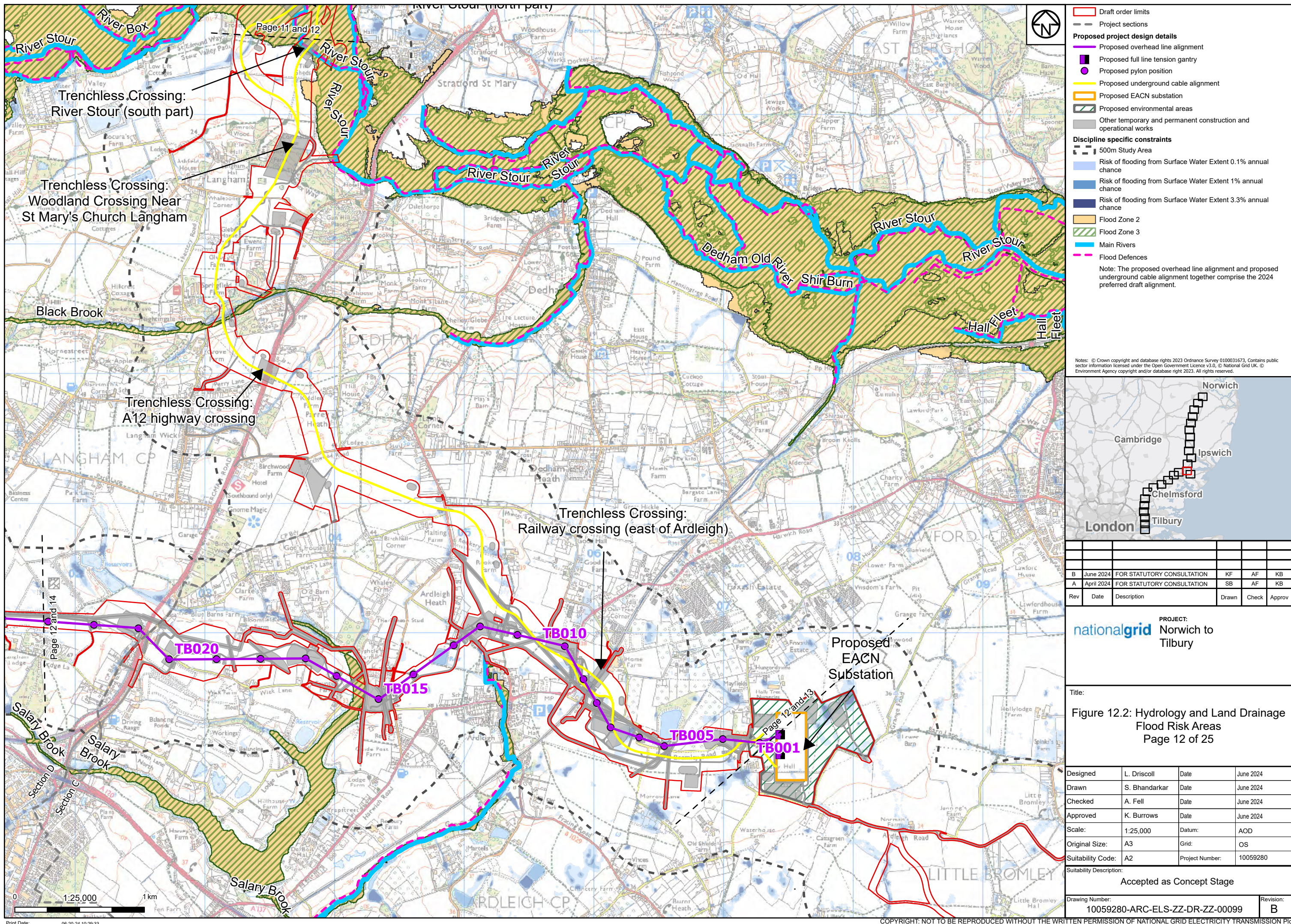
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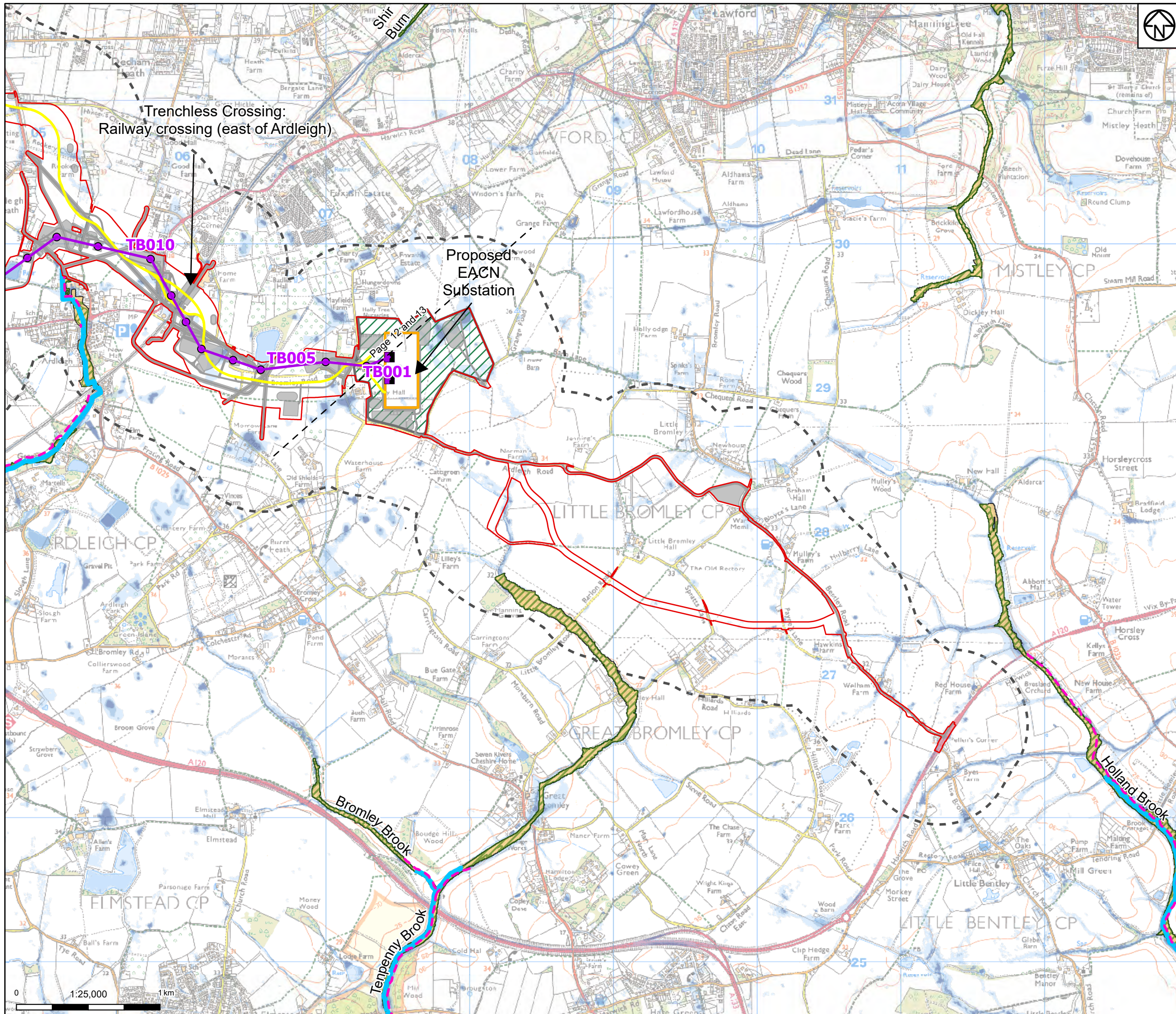












**Proposed project design details**

- 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**

- 500m Study Area
- Risk of flooding from Surface Water Extent 0.1% annual chance
- Risk of flooding from Surface Water Extent 1% annual chance
- Risk of flooding from Surface Water Extent 3.3% annual chance
- Flood Zone 2
- Flood Zone 3
- Main Rivers
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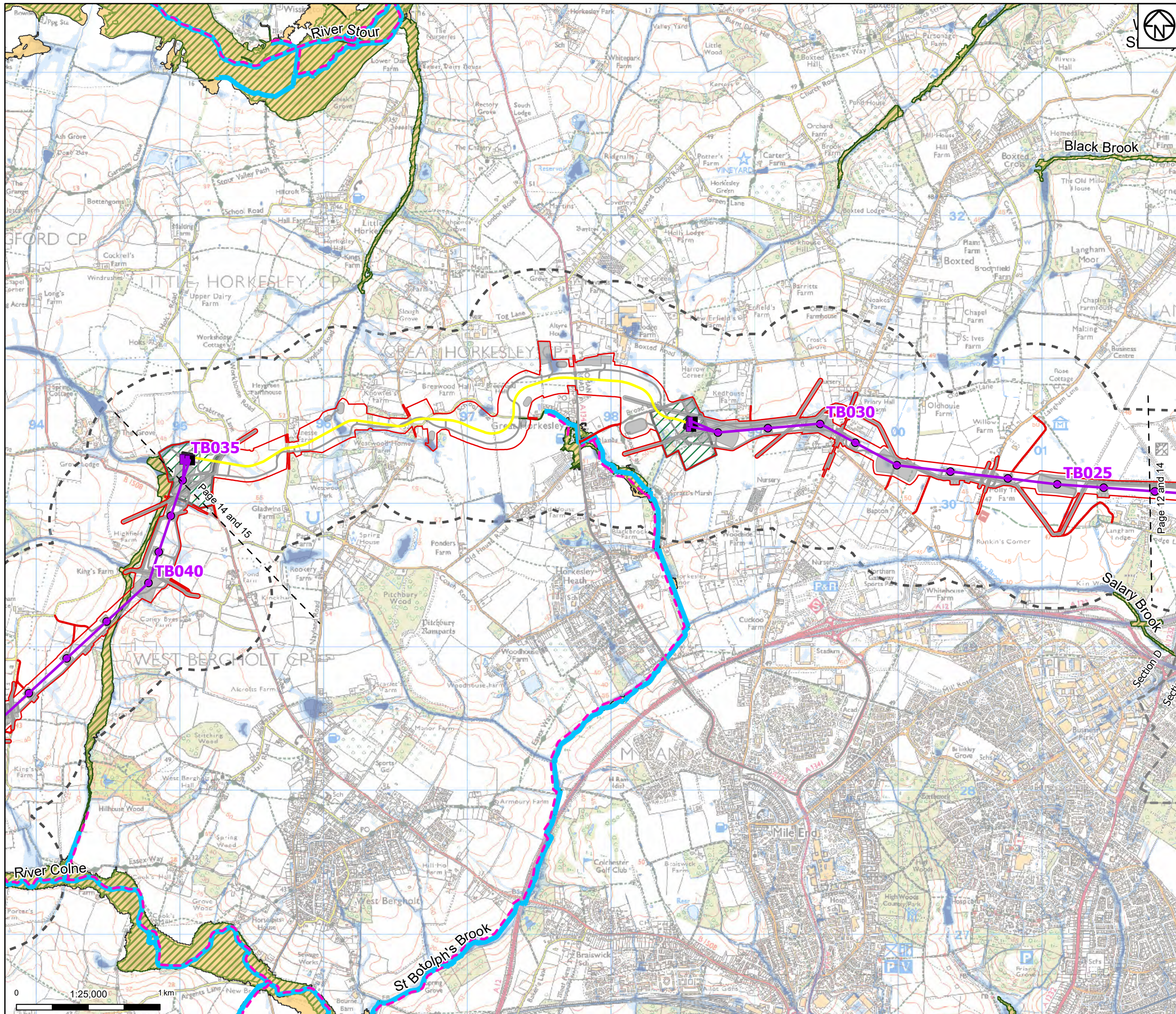
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nationalgrid Norwich to Tilbury

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Figure 12.2: Hydrology and Land Drainage Flood Risk Areas  
Page 13 of 25

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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 cable sealing end compound

Proposed environmental areas

Other temporary and permanent construction and operational works

Discipline specific constraints

500m Study Area

Risk of flooding from Surface Water Extent 0.1% annual chance

Risk of flooding from Surface Water Extent 1% annual chance

Risk of flooding from Surface Water Extent 3.3% annual chance

Flood Zone 2

Flood Zone 3

Main Rivers

Flood Defences

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nationalgrid

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Norwich to Tilbury

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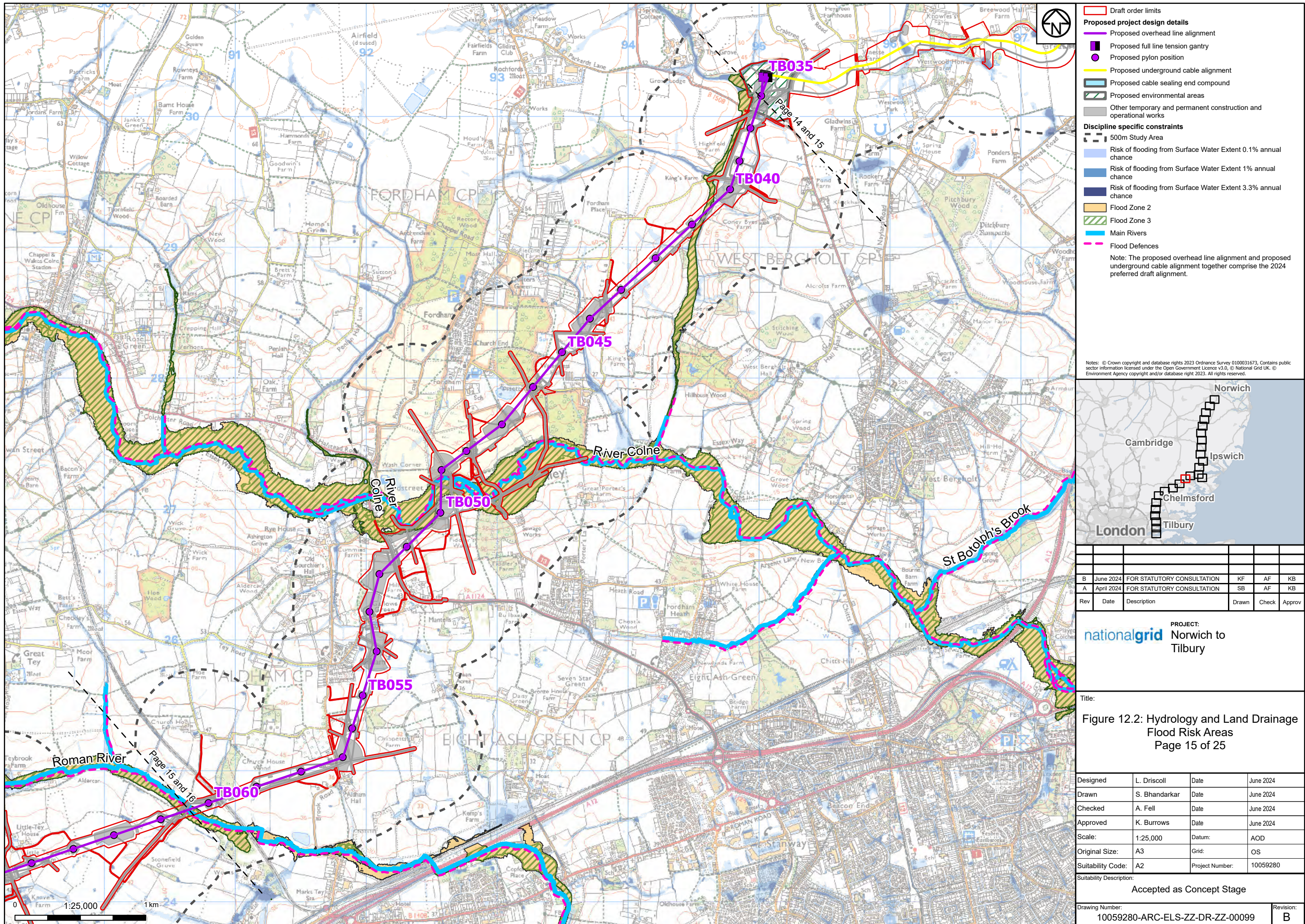
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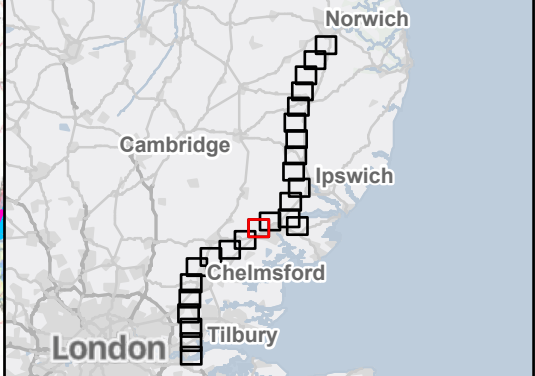
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A	April 2024	FOR STATUTORY CONSULTATION	SB	AF	KB

**PROJECT:**  
Norwich to Tilbury

**nationalgrid**

Title:  
Figure 12.2: Hydrology and Land Drainage  
Flood Risk Areas  
Page 15 of 25

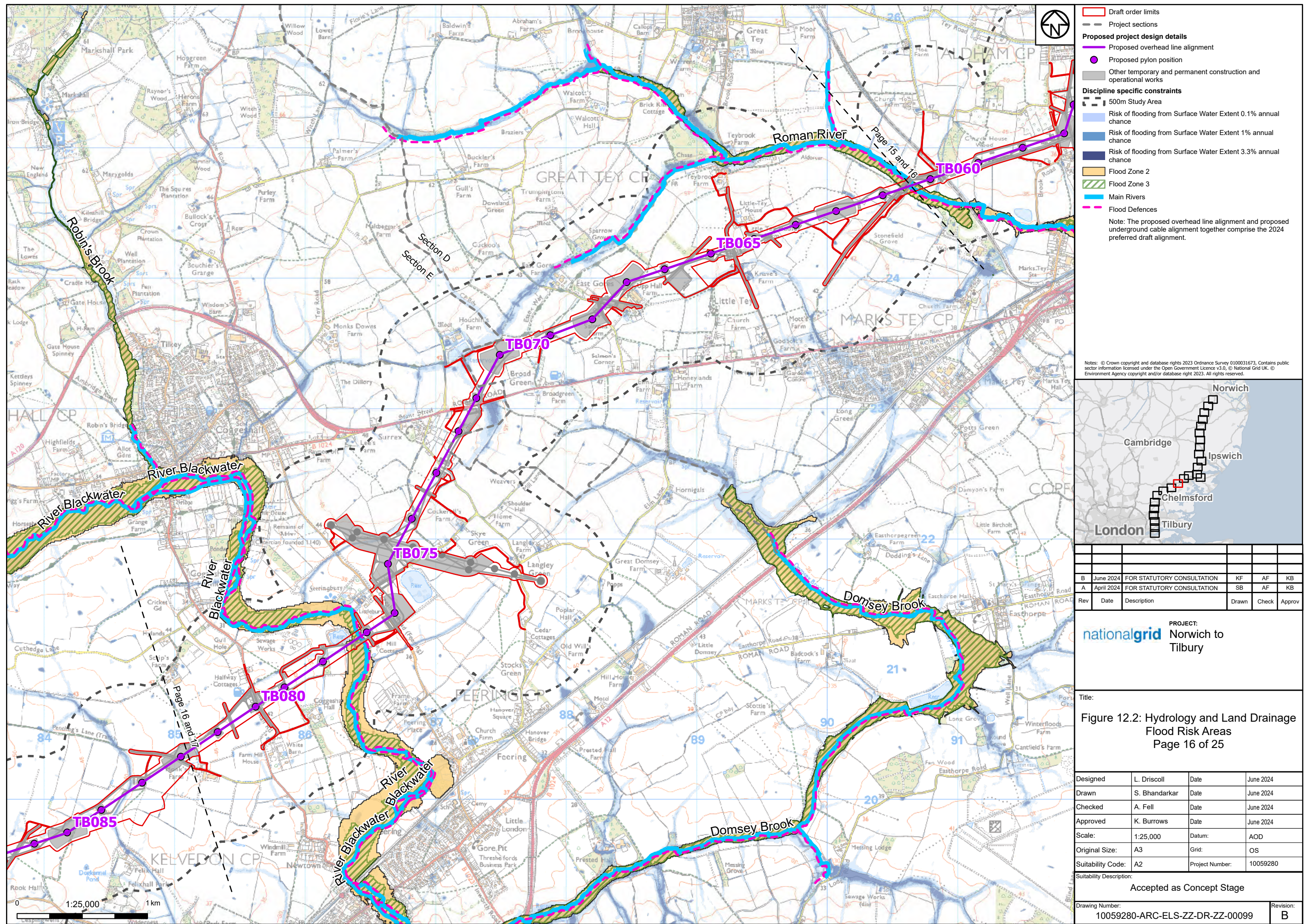
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Drawn	S. Bhandarkar	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:  
Accepted as Concept Stage

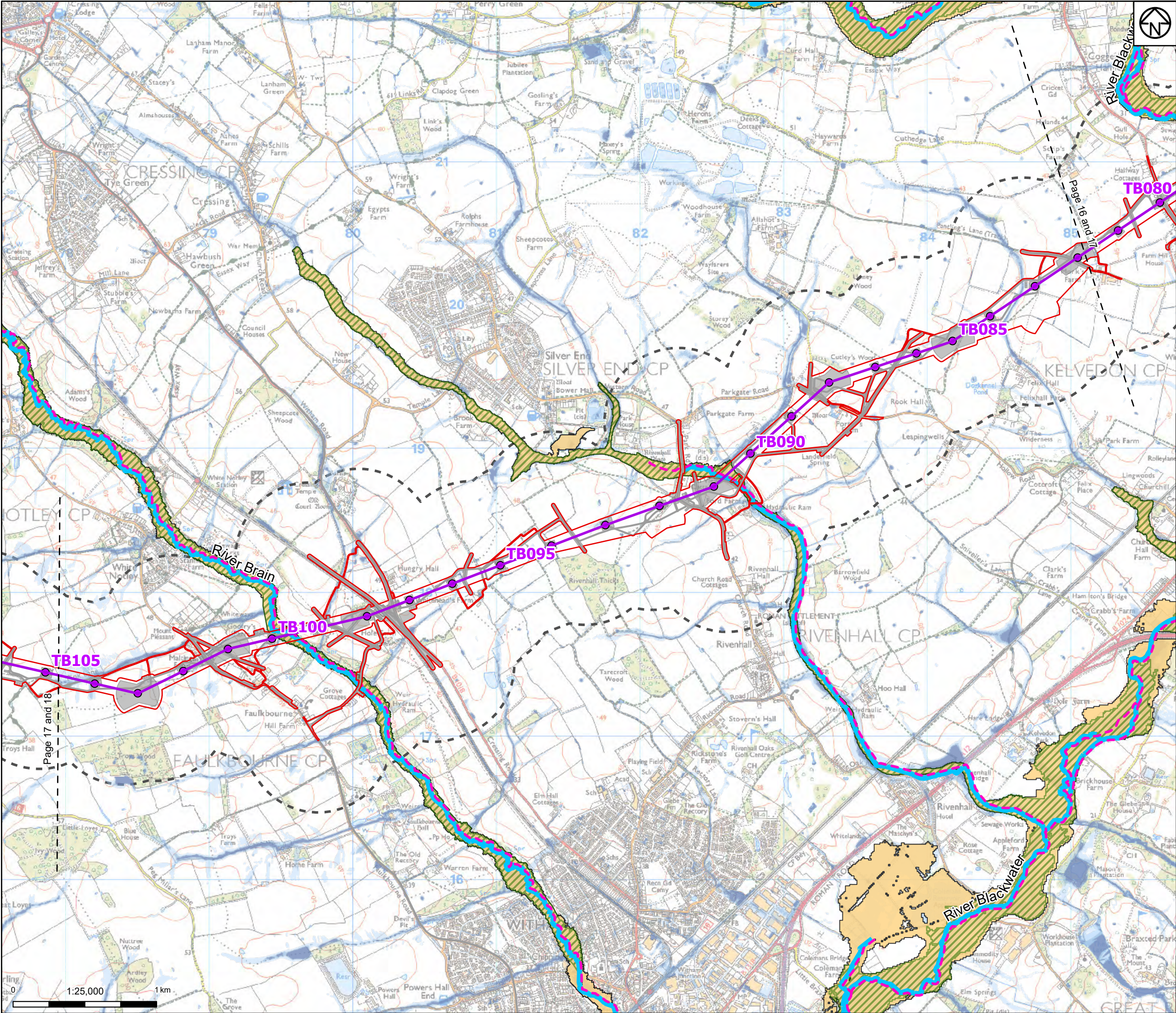
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Revision:  
B









Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

500m Study Area

Risk of flooding from Surface Water Extent 0.1% annual chance

Risk of flooding from Surface Water Extent 1% annual chance

Risk of flooding from Surface Water Extent 3.3% annual chance

Flood Zone 2

Flood Zone 3

Main Rivers

Flood Defences

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 12.2: Hydrology and Land Drainage  
Flood Risk Areas  
Page 17 of 25

Designed	L. Driscoll	Date	June 2024
Drawn	S. Bhandarkar	Date	June 2024
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Approved	K. Burrows	Date	June 2024
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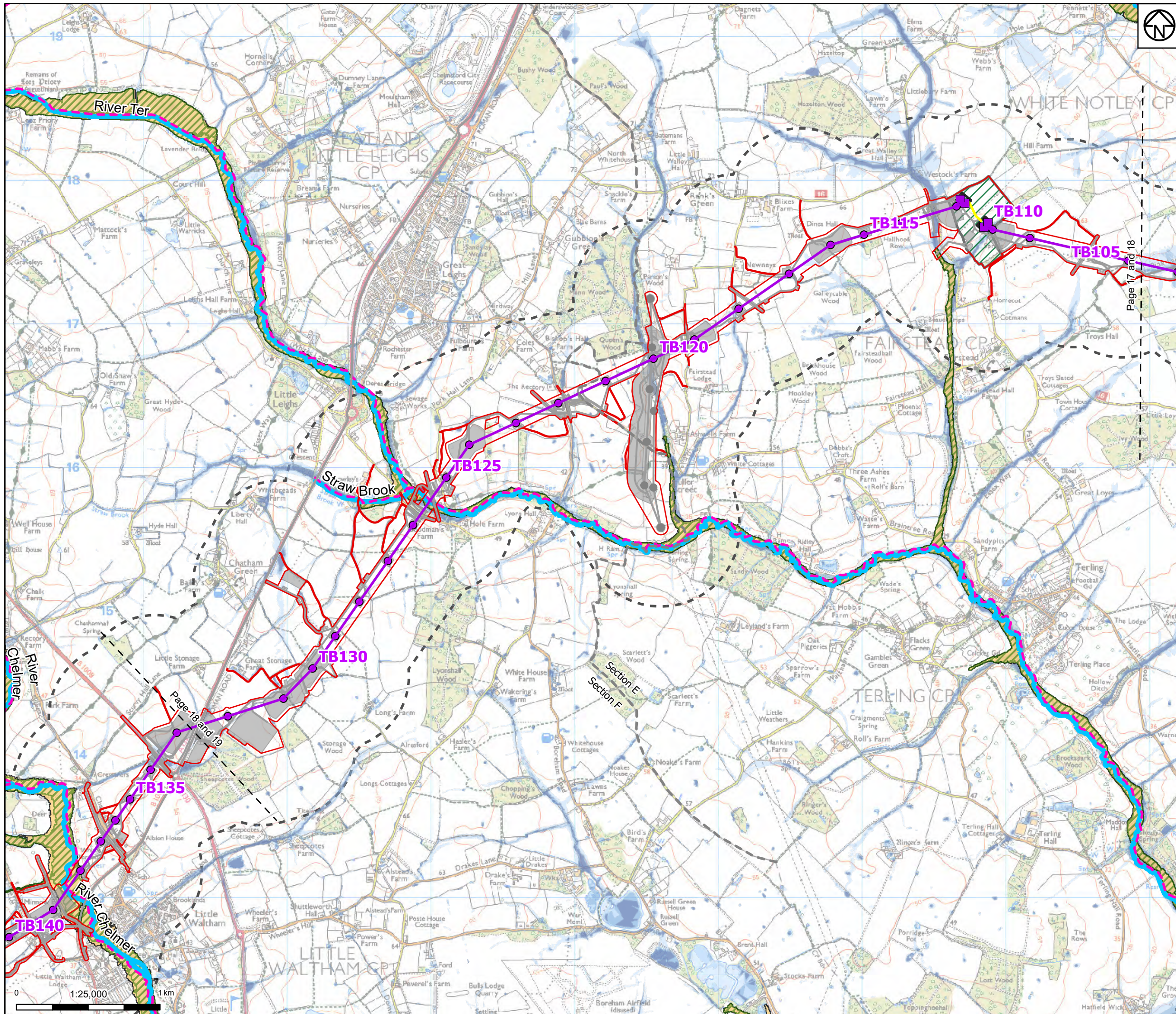
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Draft order limits

Project sections

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

500m Study Area

Risk of flooding from Surface Water Extent 0.1% annual chance

Risk of flooding from Surface Water Extent 1% annual chance

Risk of flooding from Surface Water Extent 3.3% annual chance

Flood Zone 2

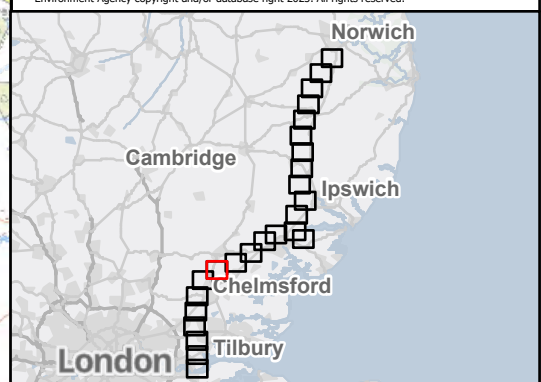
Flood Zone 3

Main Rivers

Flood Defences

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

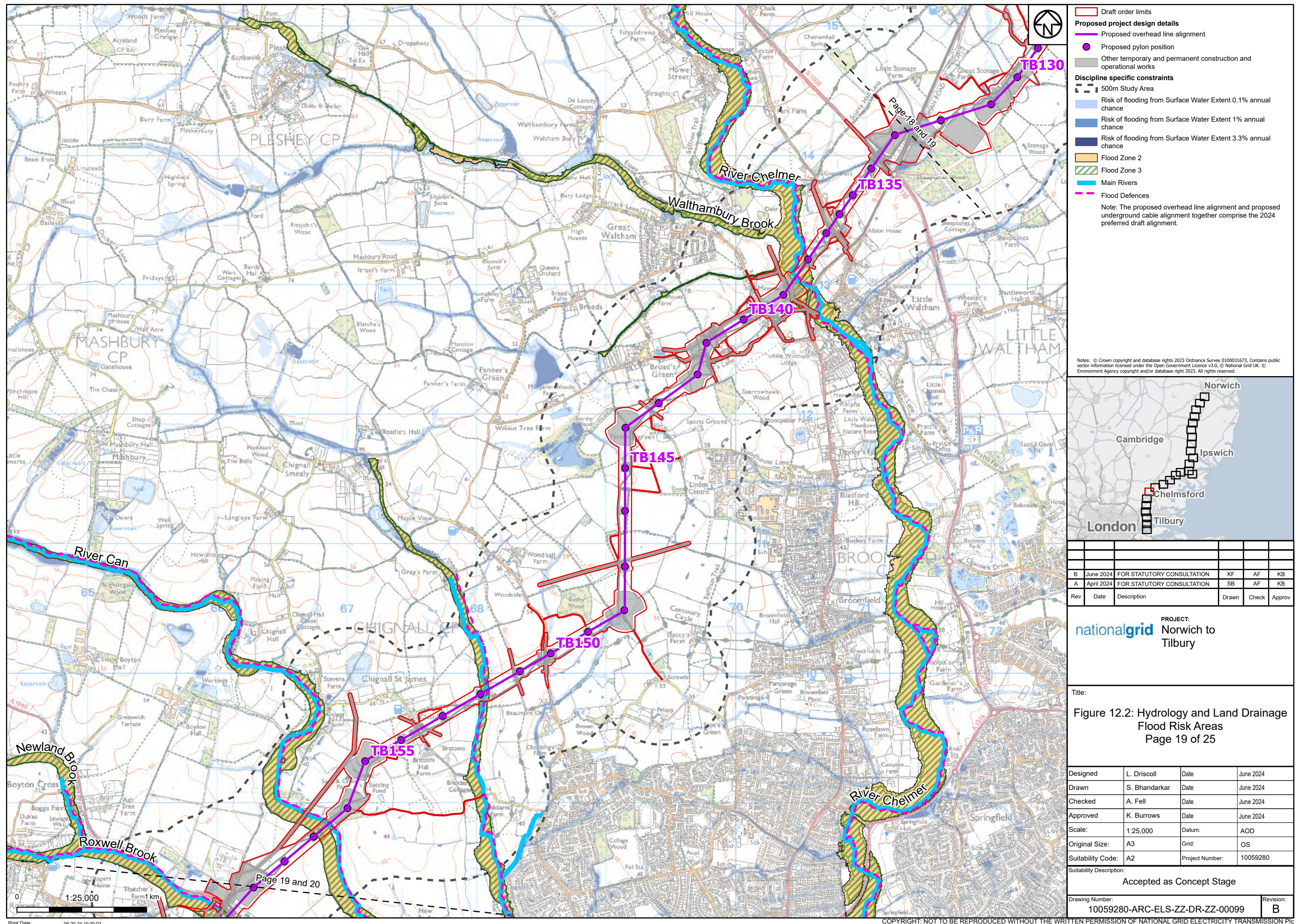
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Flood Risk Areas  
Page 18 of 25

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Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
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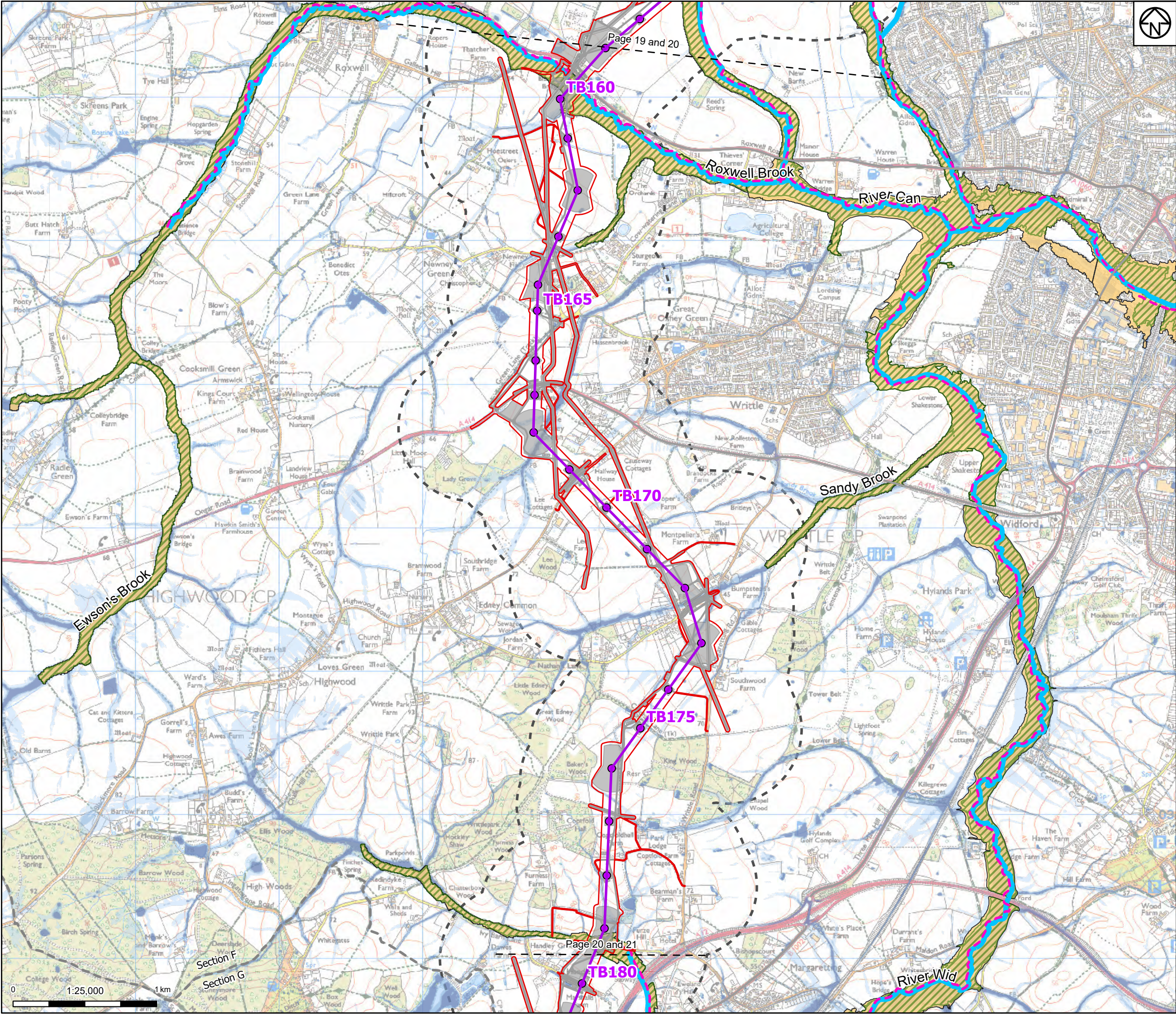
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Drawing Number:	10059280-ARC-ELS-ZZ-DR-ZZ-00099	Revision:	B
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  - Project sections
  - Proposed project design details**
    - Proposed overhead line alignment
    - Proposed pylon position
    - Other temporary and permanent construction and operational works
  - Discipline specific constraints**
    - 500m Study Area
    - Risk of flooding from Surface Water Extent 0.1% annual chance
    - Risk of flooding from Surface Water Extent 1% annual chance
    - Risk of flooding from Surface Water Extent 3.3% annual chance
    - Flood Zone 2
    - Flood Zone 3
    - Main Rivers
    - Flood Defences
- 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 12.2: Hydrology and Land Drainage  
Flood Risk Areas  
Page 20 of 25

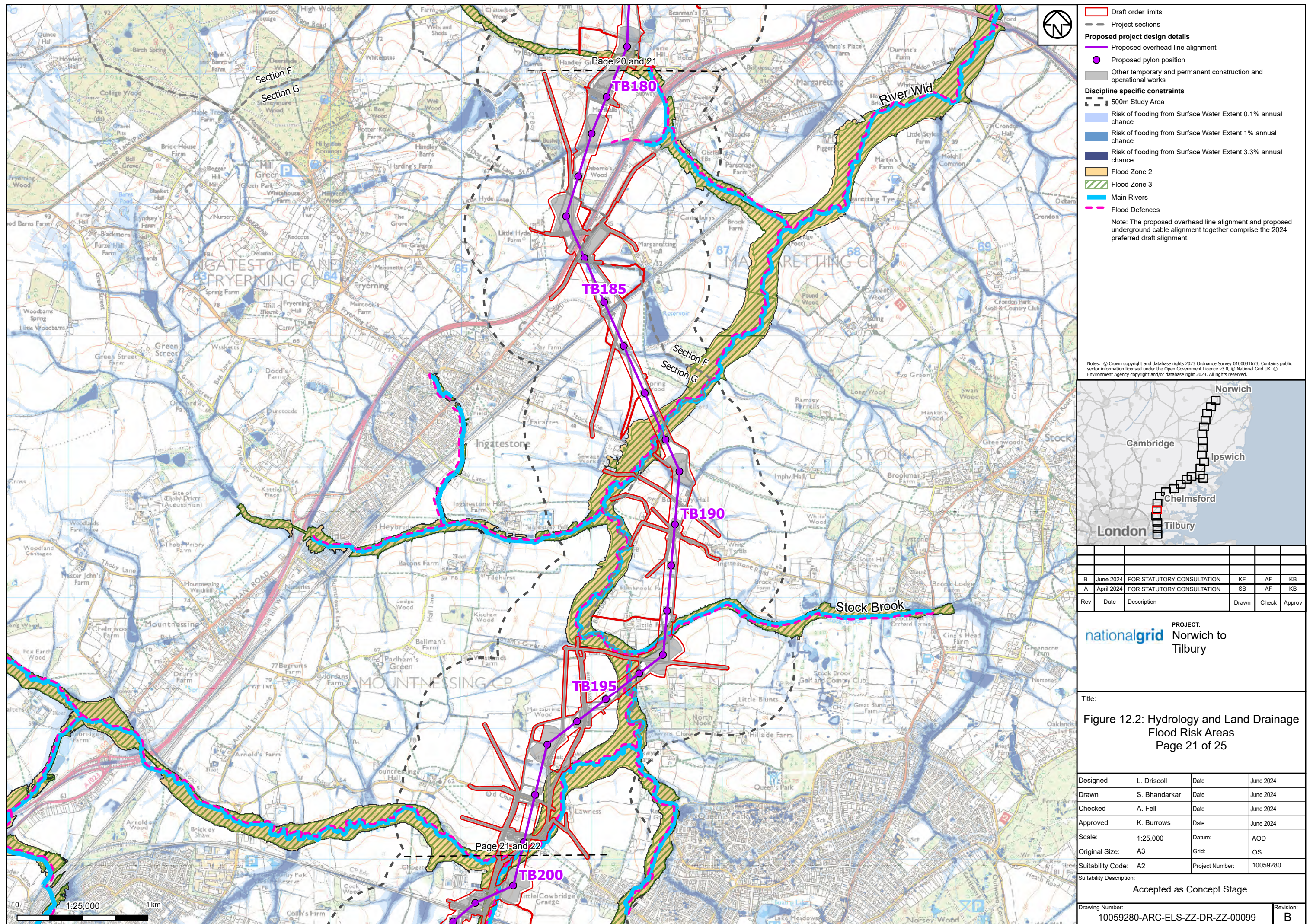
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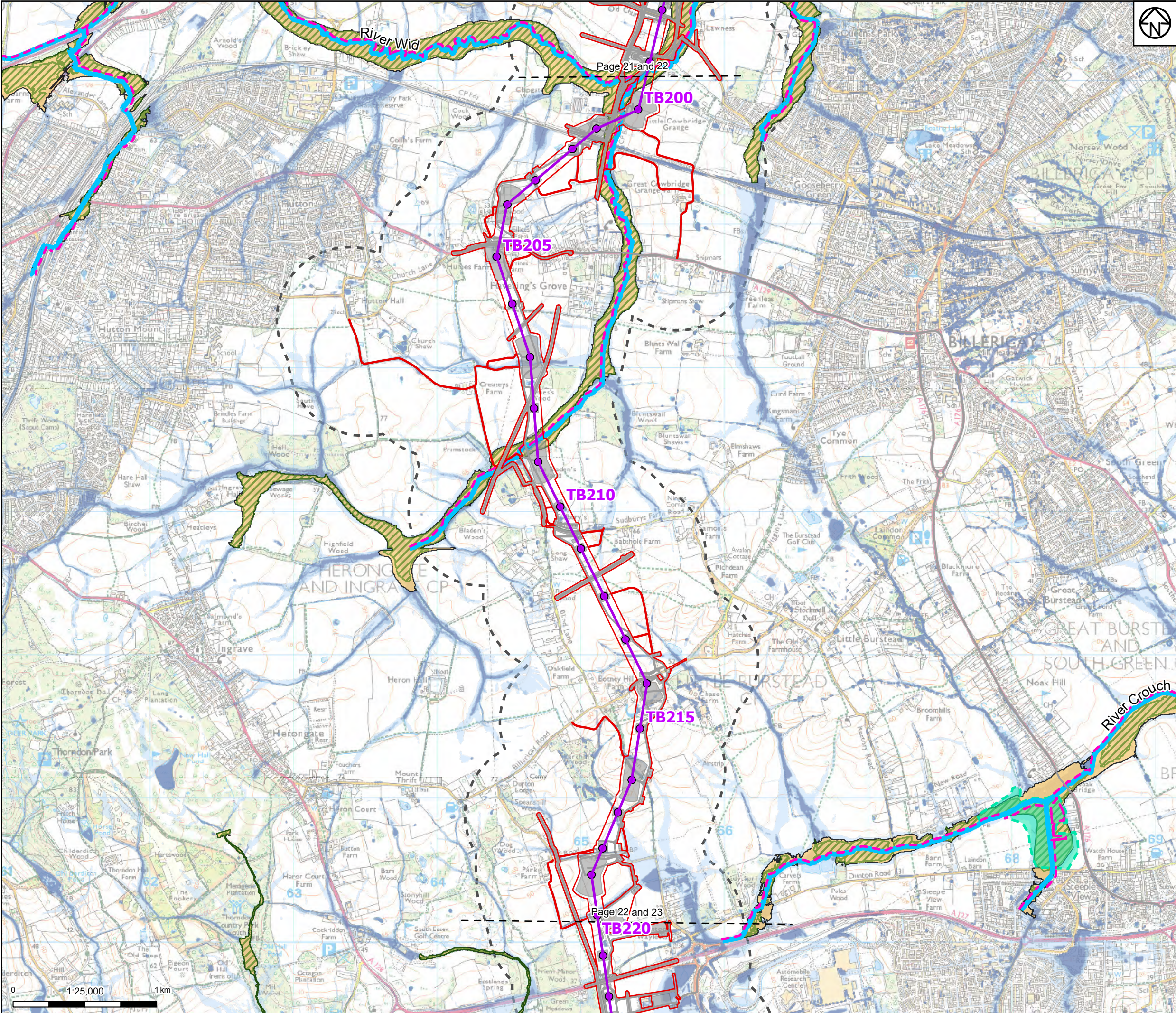
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Revision:  
B









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

500m Study Area

Risk of flooding from Surface Water Extent 0.1% annual chance

Risk of flooding from Surface Water Extent 1% annual chance

Risk of flooding from Surface Water Extent 3.3% annual chance

Flood Zone 2

Flood Zone 3

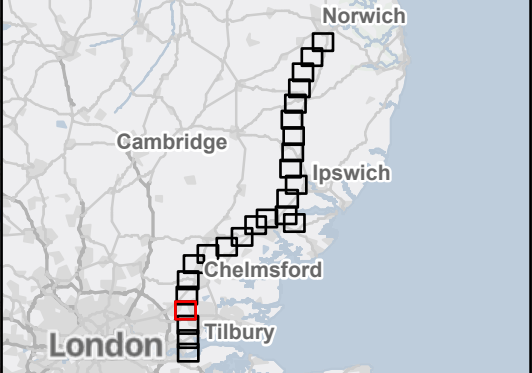
Main Rivers

Flood Defences

Flood storage 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 12.2: Hydrology and Land Drainage  
Flood Risk Areas  
Page 22 of 25

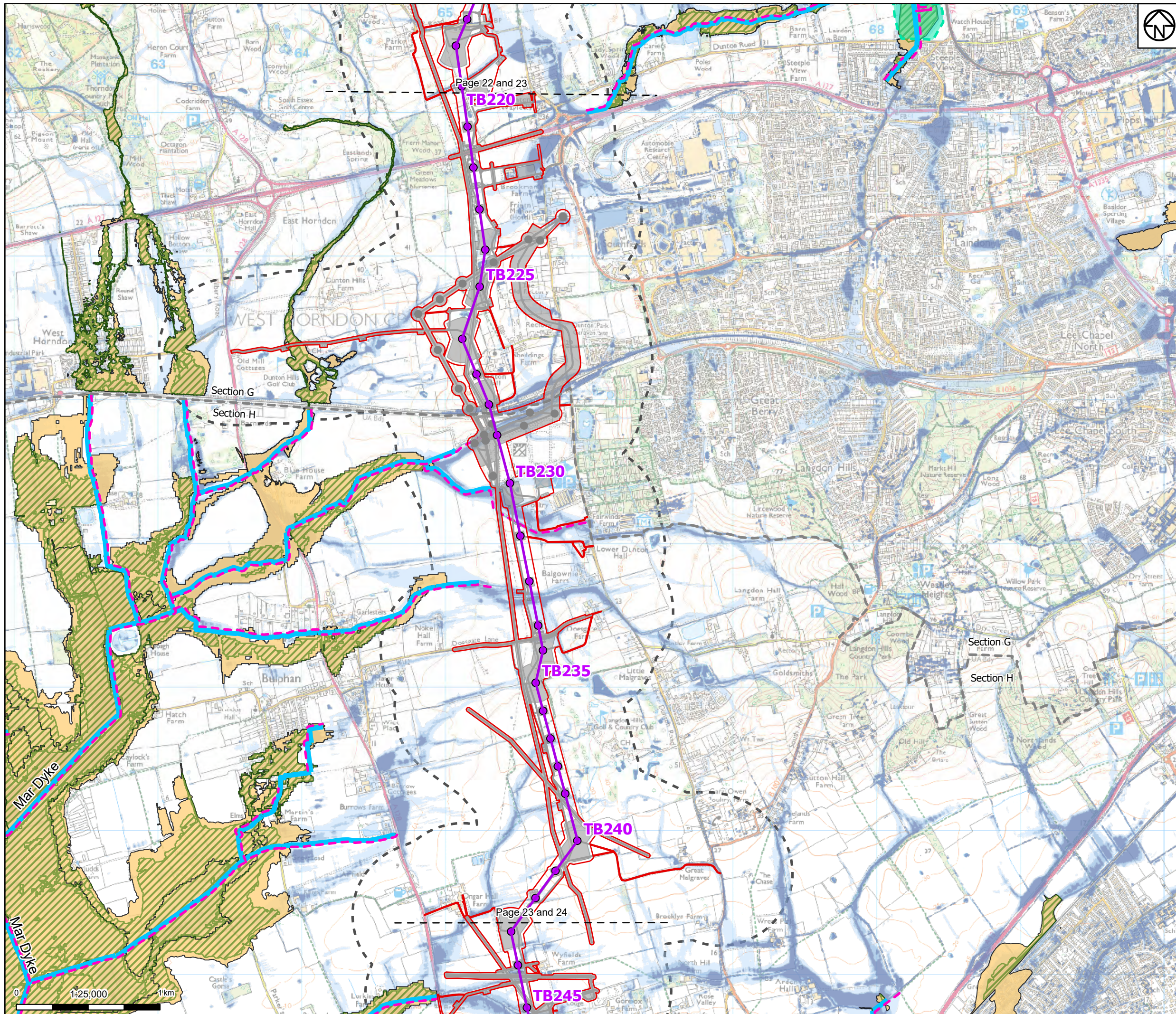
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Suitability Description:  
Accepted as Concept Stage

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10059280-ARC-ELS-ZZ-DR-ZZ-00099

Revision:  
B





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
  - 500m Study Area
  - Risk of flooding from Surface Water Extent 0.1% annual chance
  - Risk of flooding from Surface Water Extent 1% annual chance
  - Risk of flooding from Surface Water Extent 3.3% annual chance
  - Flood Zone 2
  - Flood Zone 3
  - Main Rivers
  - Flood Defences
  - Flood storage 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

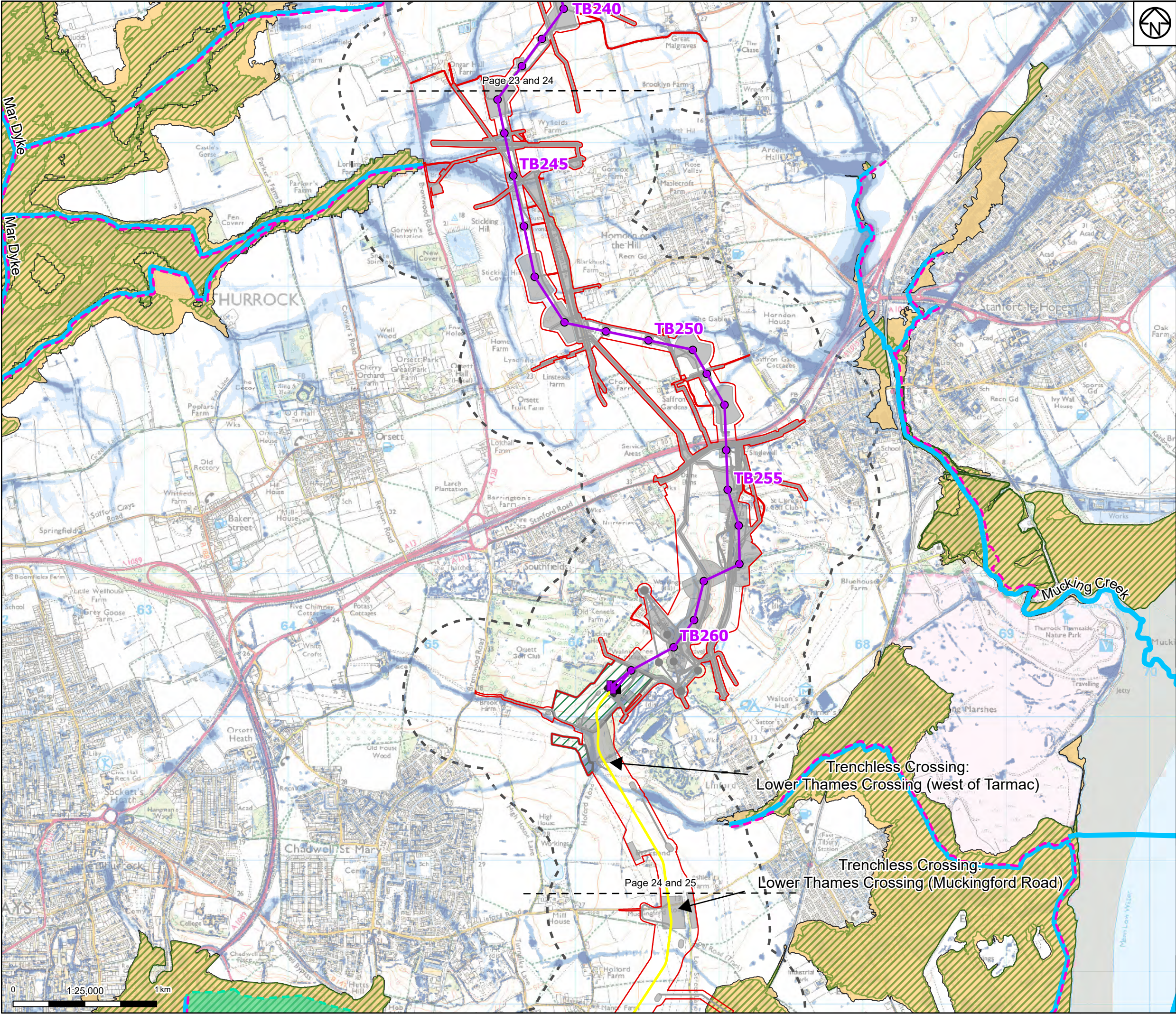
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Flood Risk Areas  
Page 23 of 25

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Suitability Description:  
Accepted as Concept Stage

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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

500m Study Area

Risk of flooding from Surface Water Extent 0.1% annual chance

Risk of flooding from Surface Water Extent 1% annual chance

Risk of flooding from Surface Water Extent 3.3% annual chance

Flood Zone 2

Flood Zone 3

Main Rivers

Flood Defences

Flood storage area

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

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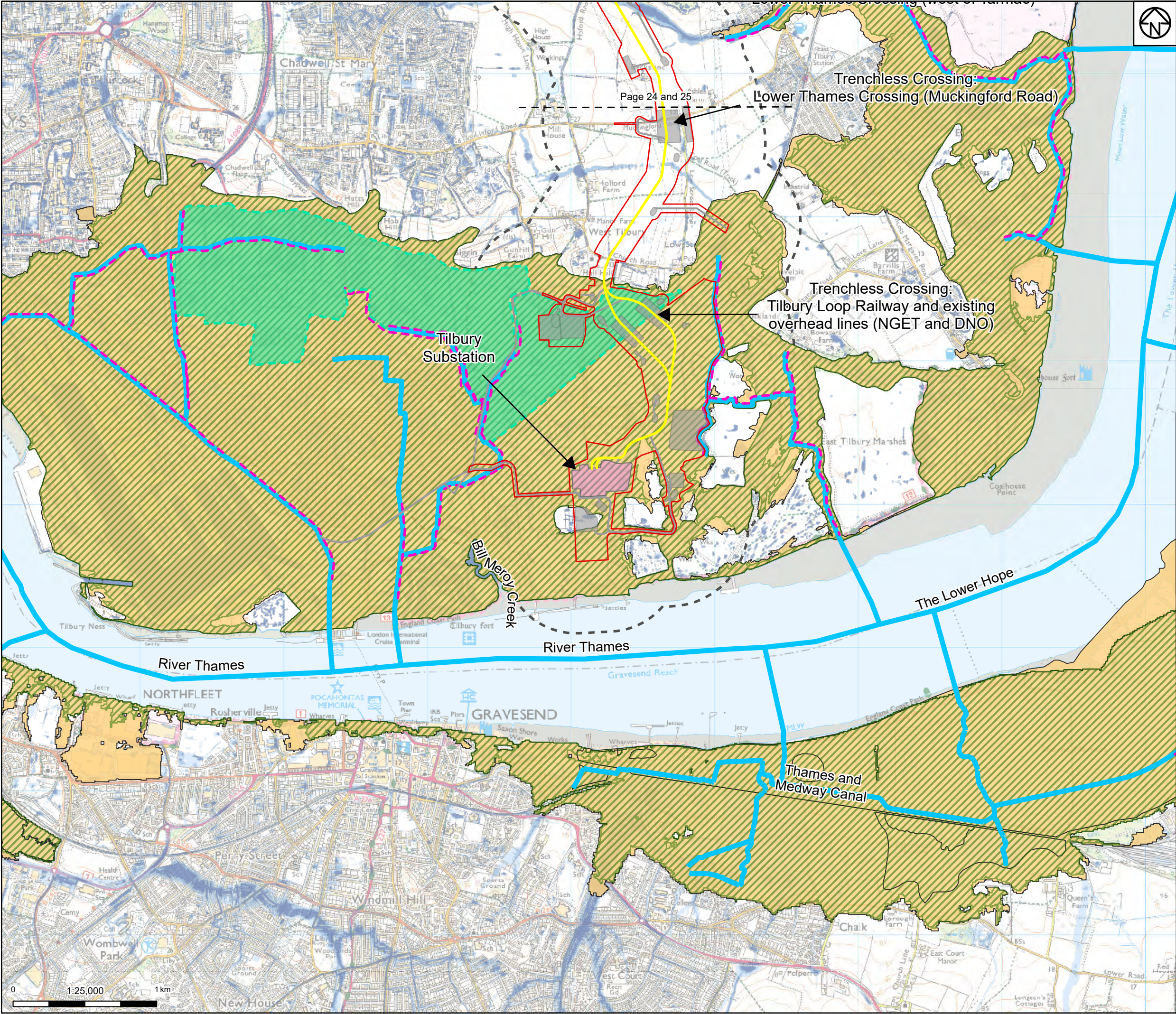
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Title:  
Figure 12.2: Hydrology and Land Drainage  
Flood Risk Areas  
Page 24 of 25

Designed	L. Driscoll	Date	June 2024
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Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
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Drawing Number: 10059280-ARC-ELS-ZZ-DR-ZZ-00099	Revision: B
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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

500m Study Area

Risk of flooding from Surface Water Extent 0.1% annual chance

Risk of flooding from Surface Water Extent 1% annual chance

Risk of flooding from Surface Water Extent 3.3% annual chance

Flood Zone 2

Flood Zone 3

Main Rivers

Flood Defences

Flood storage 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 12.2: Hydrology and Land Drainage  
Flood Risk Areas  
Page 25 of 25

Designed	L. Driscoll	Date	June 2024
Drawn	S. Bhandarkar	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
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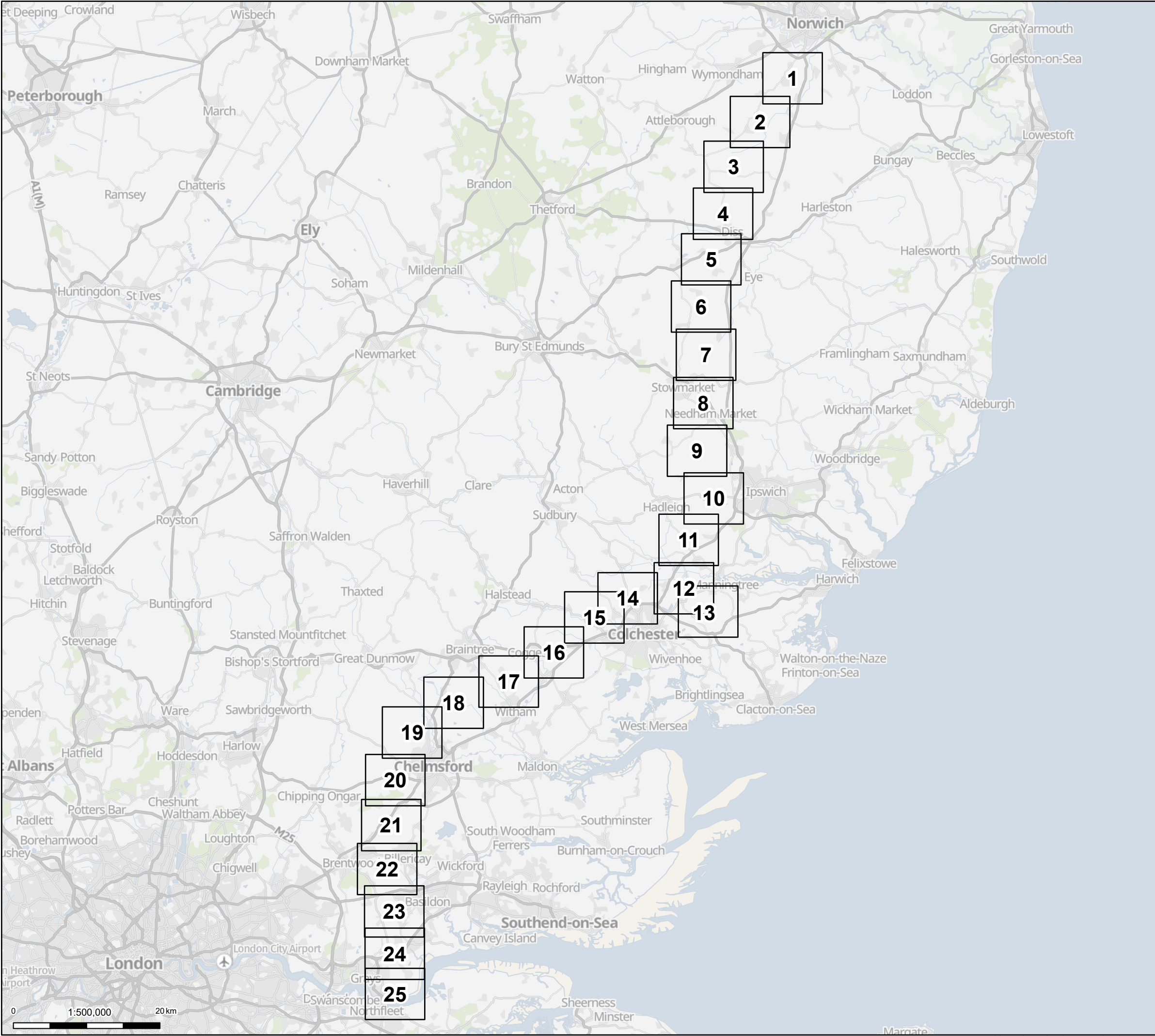
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Pages

**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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Rev	Date	Description	Drawn	Check	Approv

PROJECT:  
Norwich to  
Tilbury

Title:

Figure 12.3- Hydrology and Land Drainage-  
Water Framework Surface Waterbody  
Status  
Overview

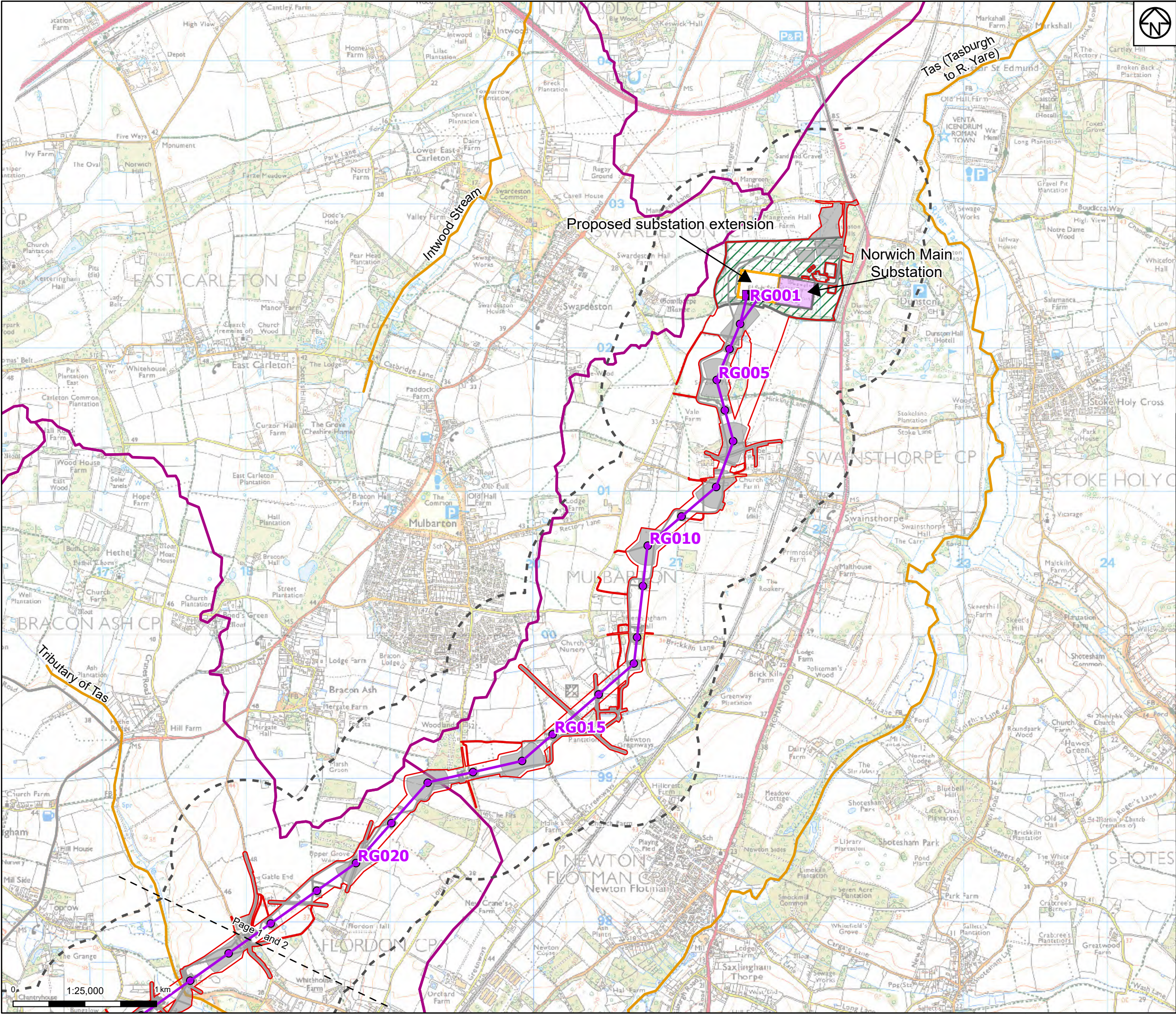
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Approved	K. Burrows	Date	June 2024
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:

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Drawing Number:	Revision:
10059280-ARC-ELS-ZZ-DR-ZZ-00100	B





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

500m Study Area

Water Framework Directive River Waterbody Catchments

Waterbodies Status

Moderate

Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.

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 12.3- Hydrology and Land Drainage-  
Water Framework Surface Waterbody  
Status  
Page 1 of 25

Designed	L. Driscoll	Date	June 2024
Drawn	S. Bhandarkar	Date	June 2024
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Approved	K. Burrows	Date	June 2024
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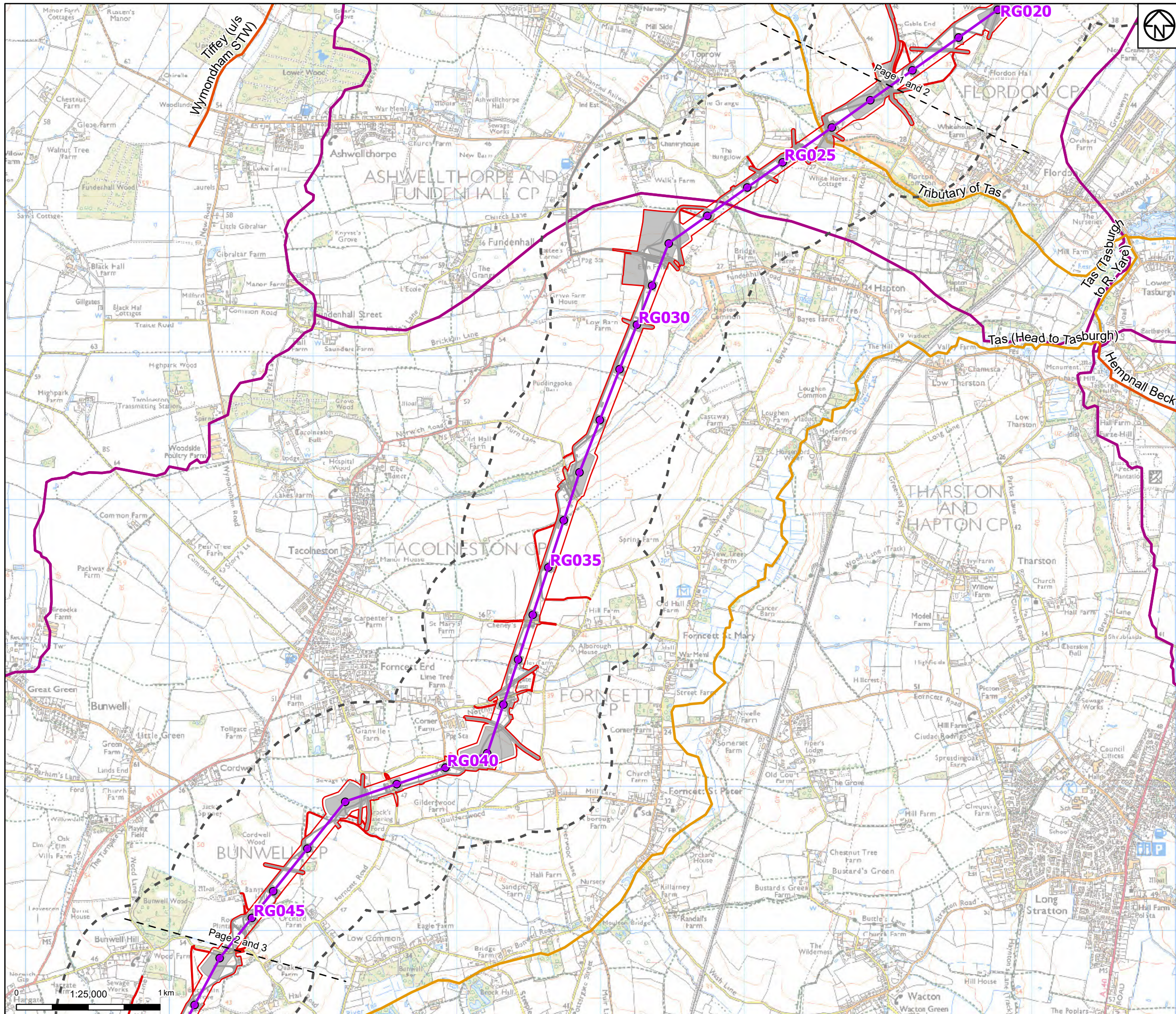
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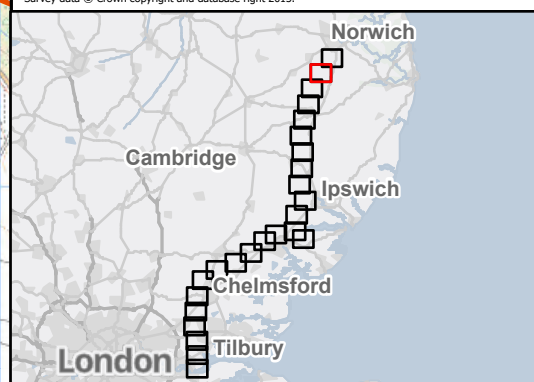
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- Draft order limits
- Proposed project design details
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  - Proposed pylon position
  - Other temporary and permanent construction and operational works
- Discipline specific constraints
  - 500m Study Area
  - Water Framework Directive River Waterbody Catchments
- Waterbodies Status
  - Moderate
  - Poor

Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.

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

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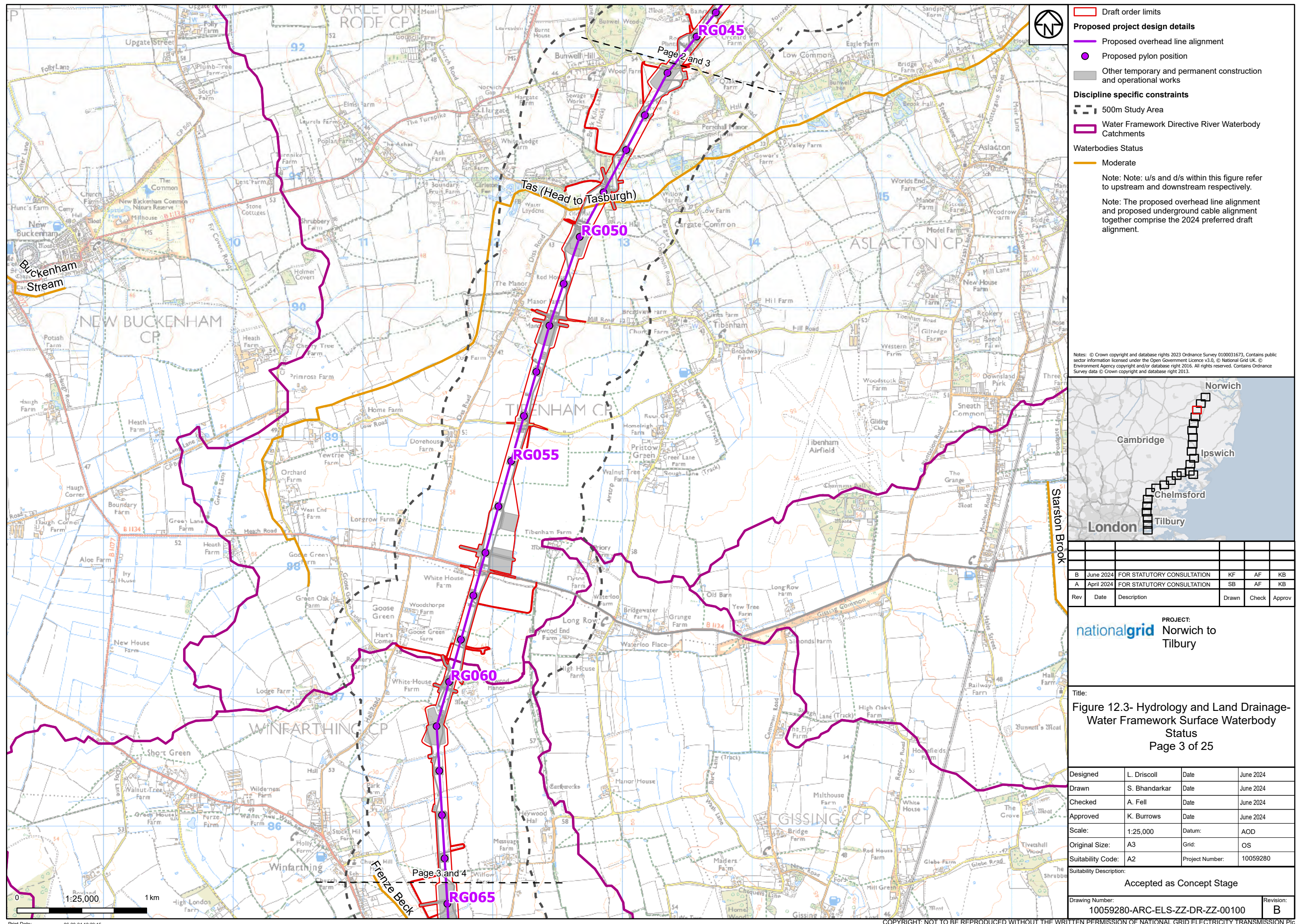
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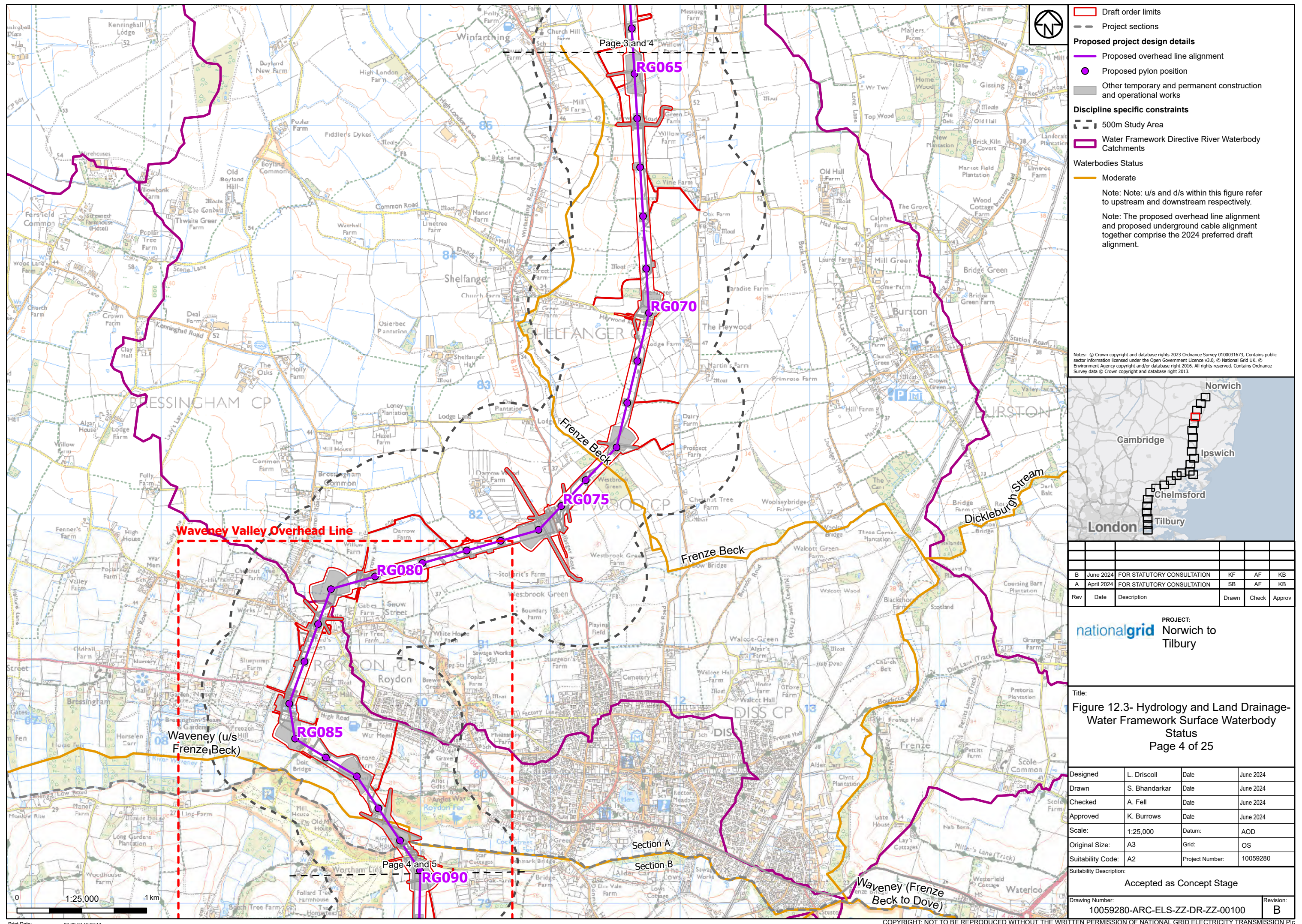
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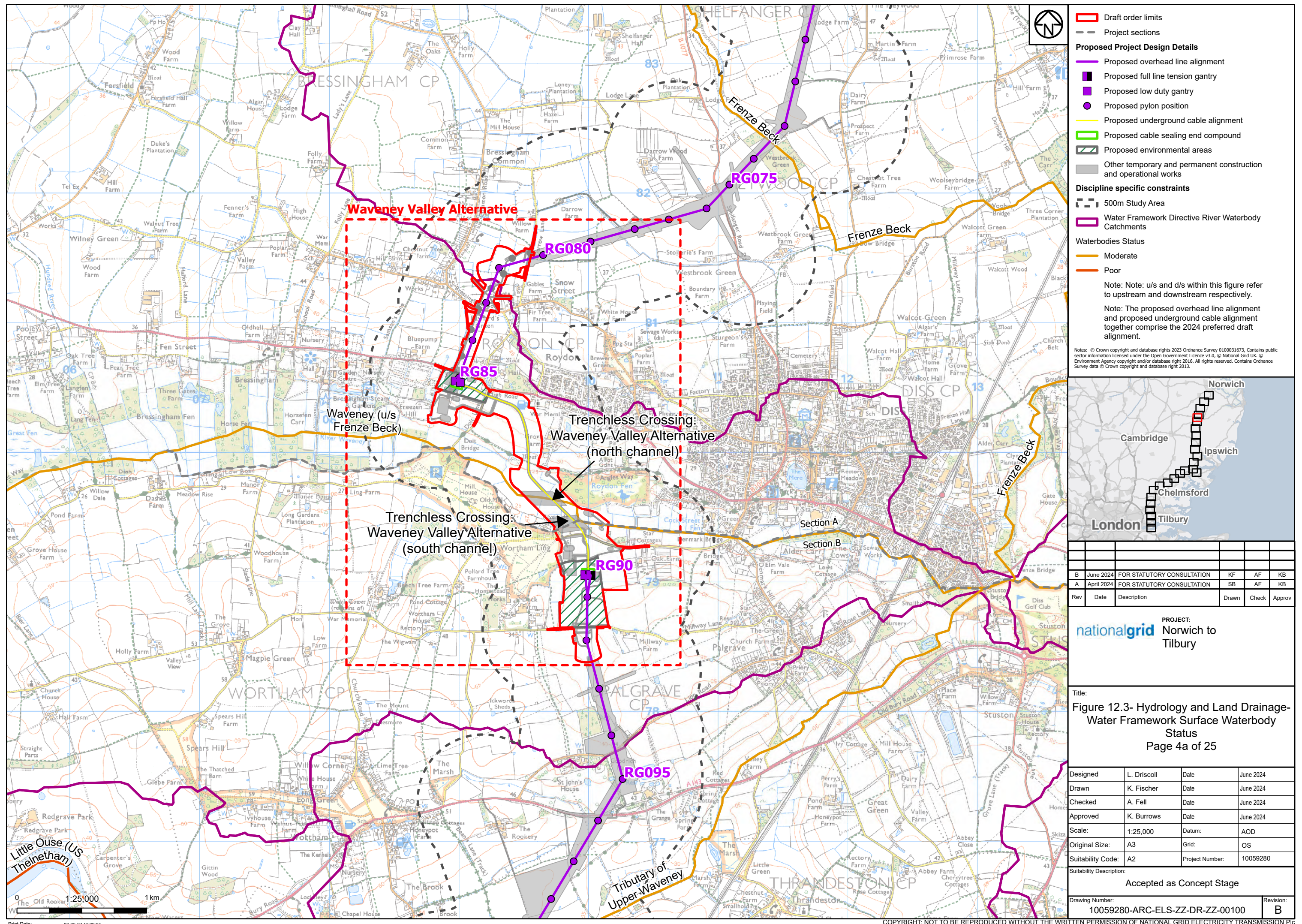




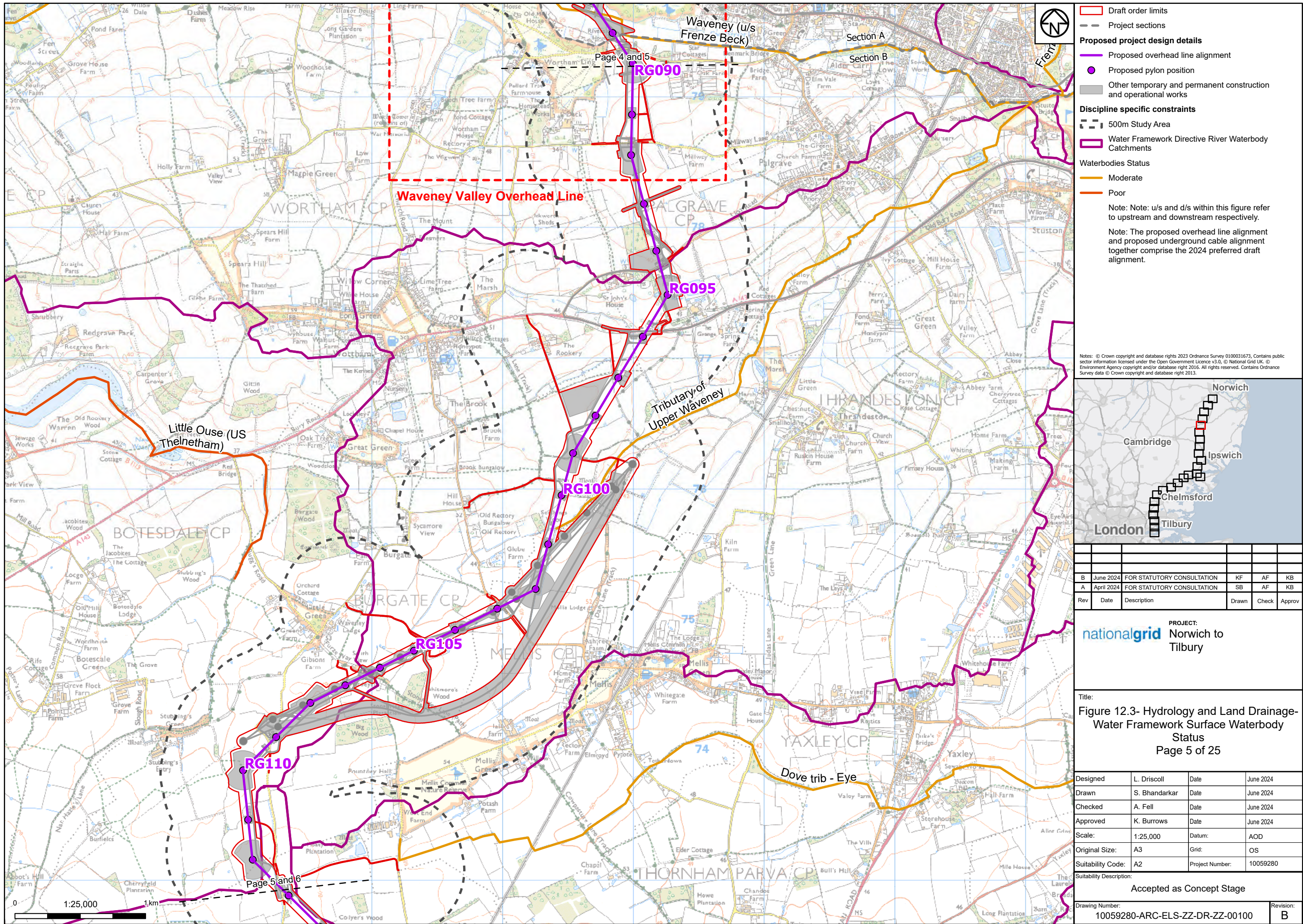




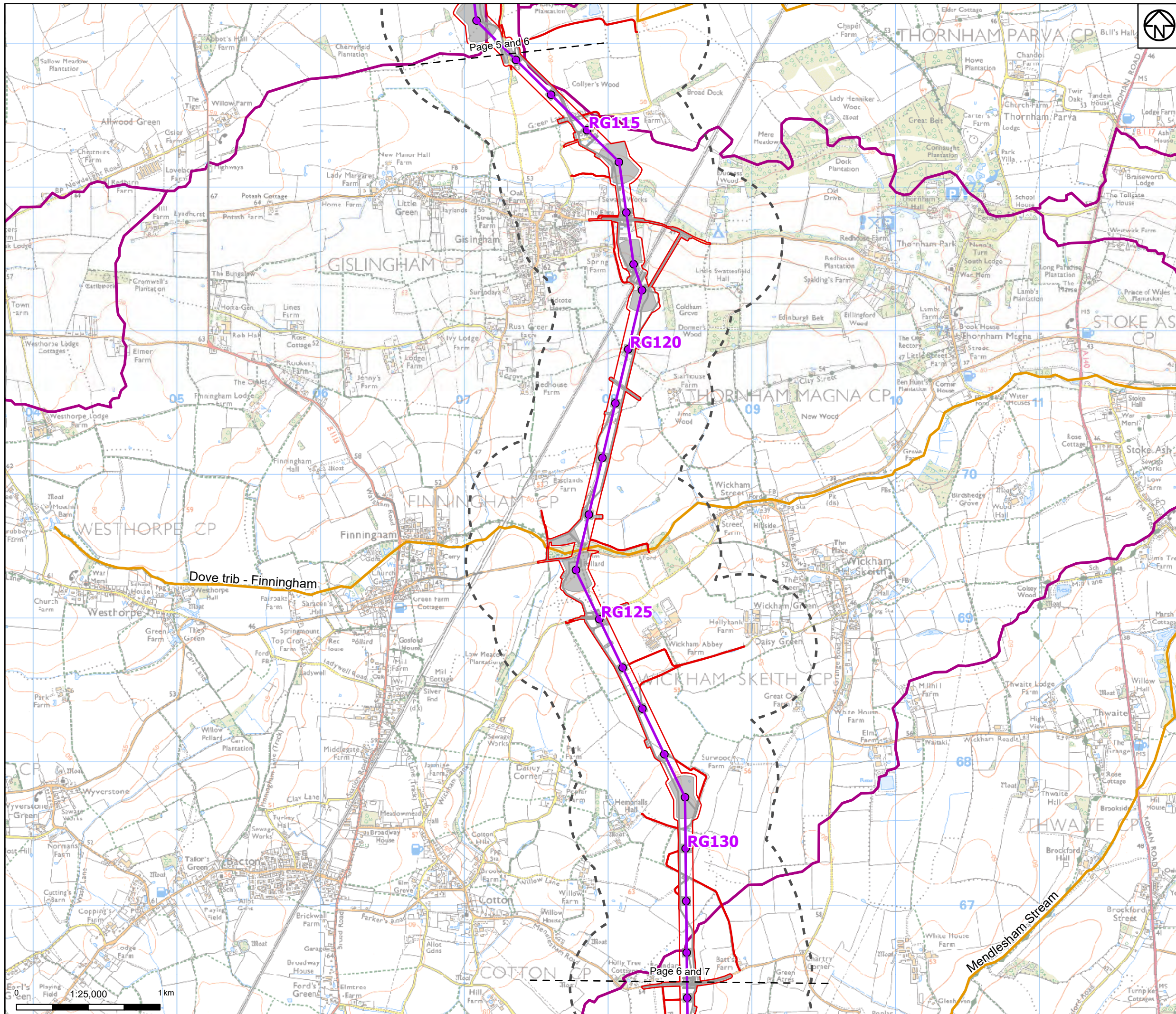










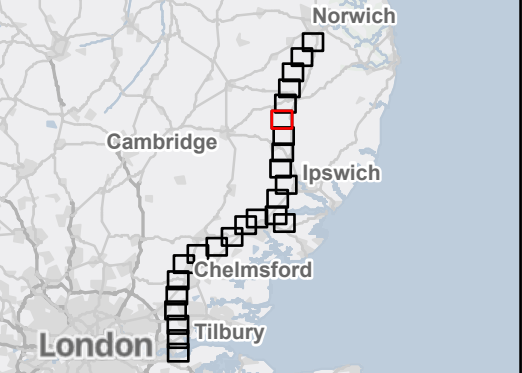


- Draft order limits
- Proposed project design details
  - Proposed overhead line alignment
  - Proposed pylon position
  - Other temporary and permanent construction and operational works
- Discipline specific constraints
  - 500m Study Area
  - Water Framework Directive River Waterbody Catchments
- Waterbodies Status
  - Moderate

Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.

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 12.3- Hydrology and Land Drainage-  
Water Framework Surface Waterbody  
Status  
Page 6 of 25

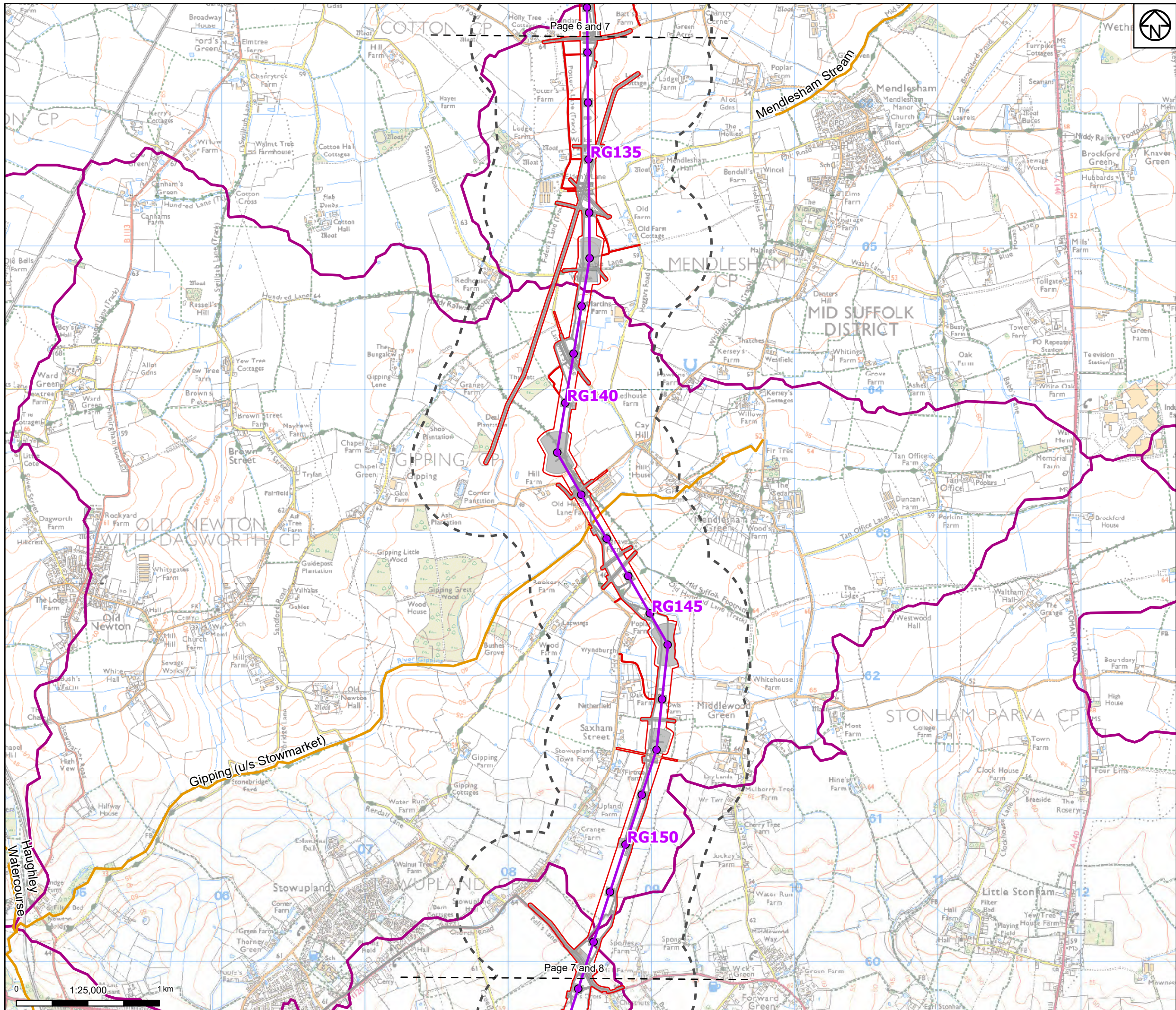
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Suitability Code:	A2	Project Number:	10059280

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Drawing Number:  
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Revision:  
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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

500m Study Area

Water Framework Directive River Waterbody Catchments

Waterbodies Status

Moderate

Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.

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Norwich

Cambridge

Ipswich

Chelmsford

Tilbury

London

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Rev	Date	Description	Drawn	Check	Approv

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PROJECT:

Norwich to Tilbury

Title:

Figure 12.3- Hydrology and Land Drainage-  
Water Framework Surface Waterbody  
Status  
Page 7 of 25

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Drawn	S. Bhandarkar	Date	June 2024
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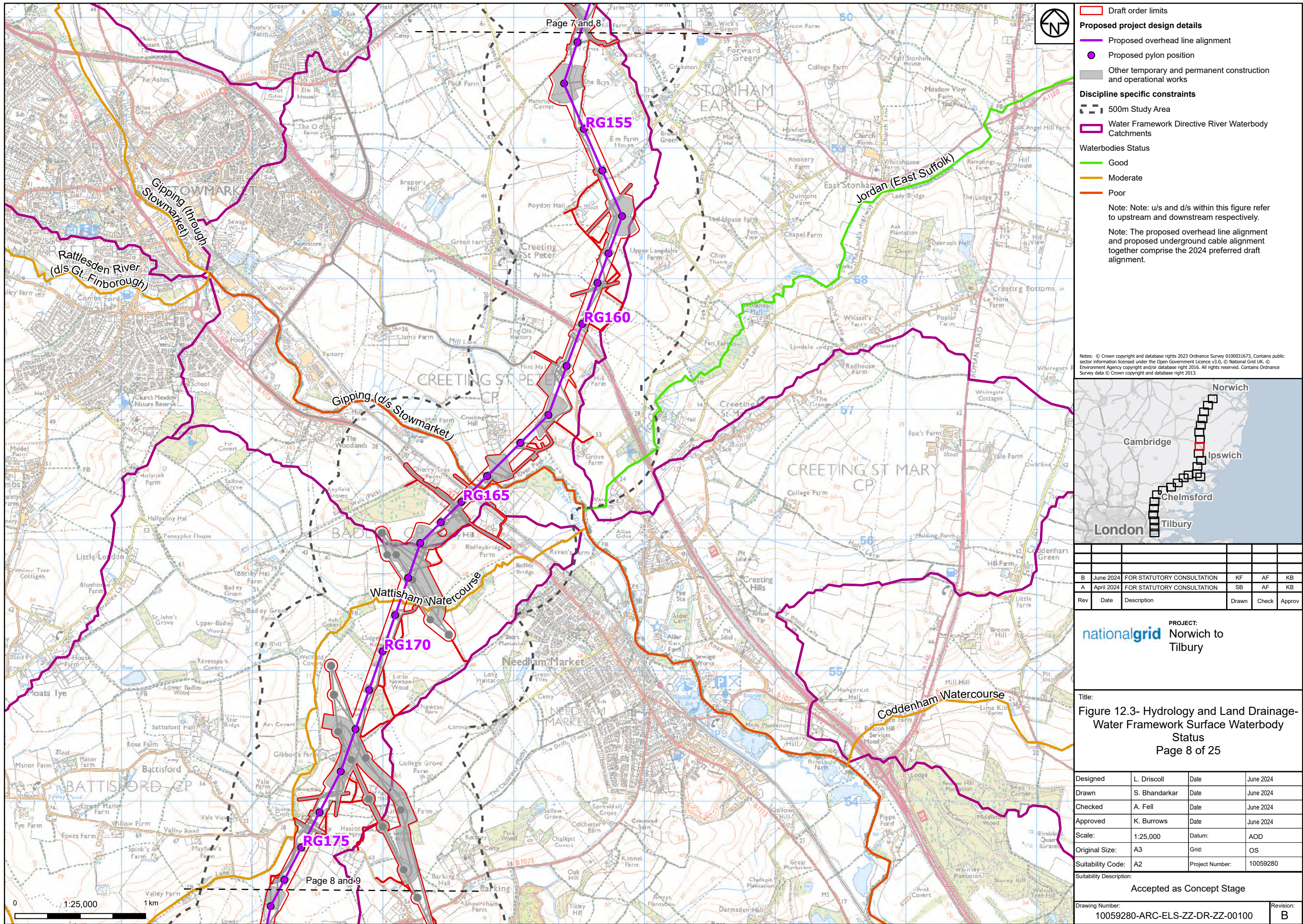
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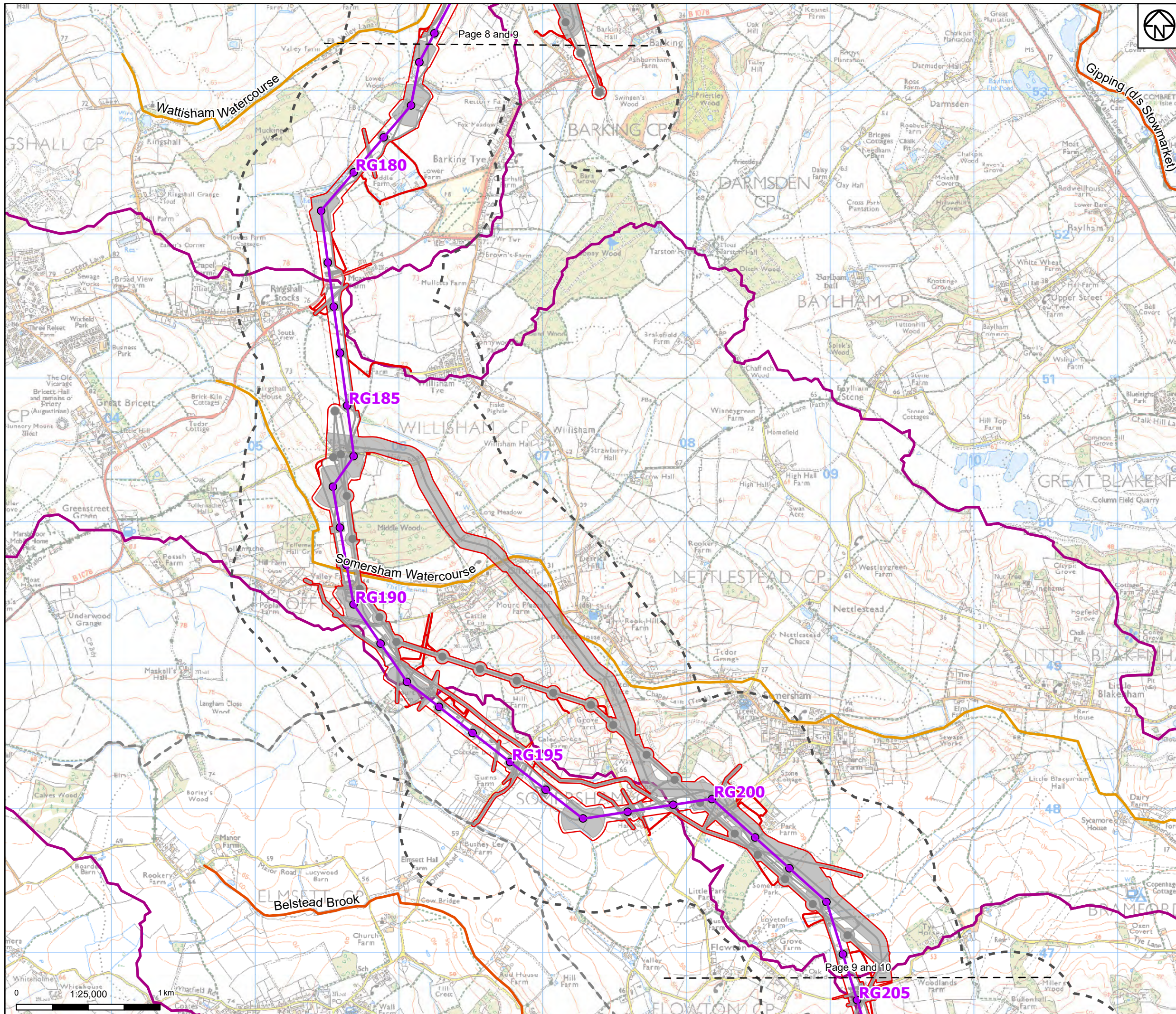
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- Draft order limits
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    - Proposed overhead line alignment
    - Proposed pylon position
    - Other temporary and permanent construction and operational works
  - Discipline specific constraints**
    - 500m Study Area
    - Water Framework Directive River Waterbody Catchments
  - Waterbodies Status**
    - Moderate
    - Poor
- Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.
- 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 12.3- Hydrology and Land Drainage-  
Water Framework Surface Waterbody  
Status  
Page 9 of 25

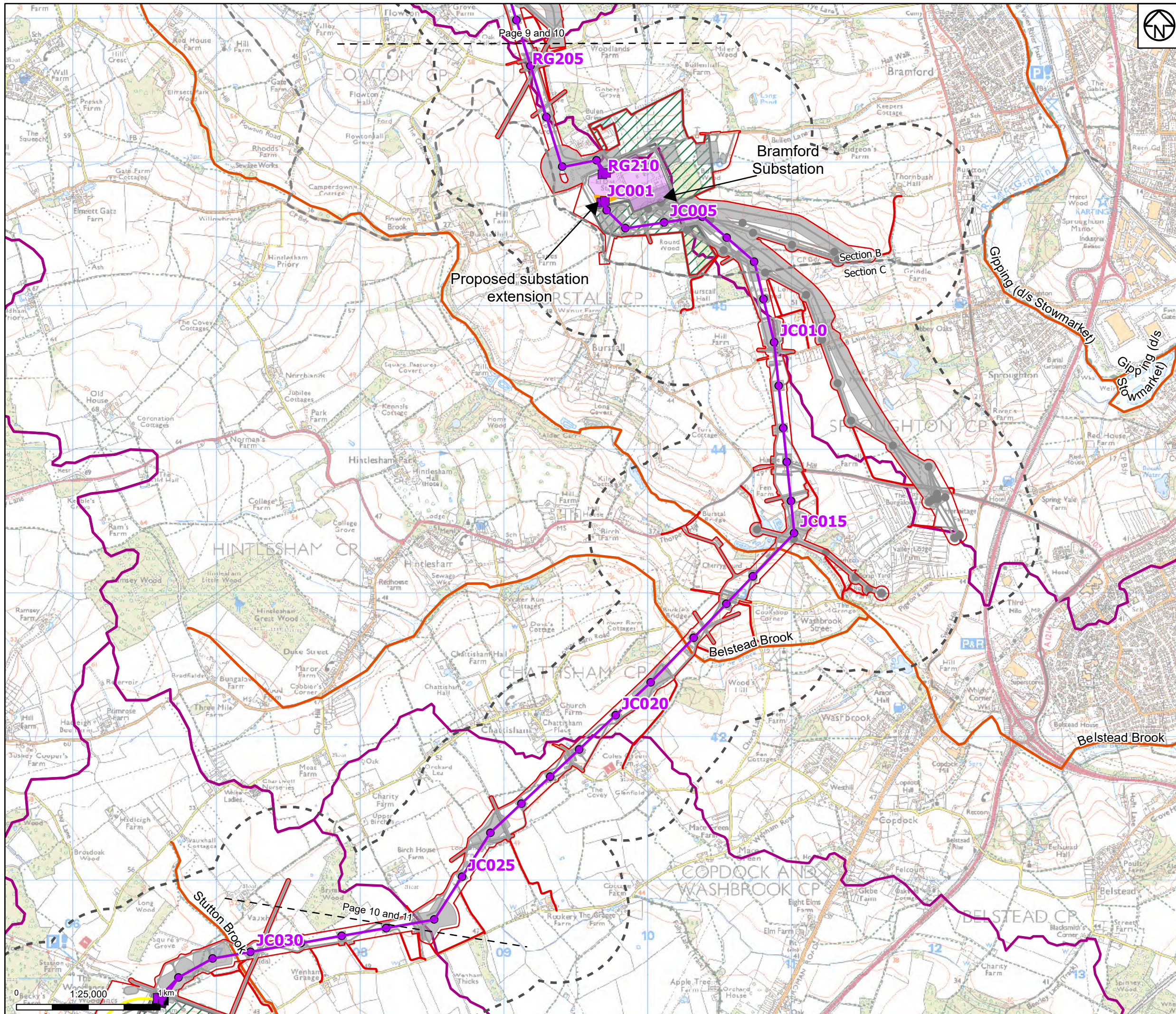
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Drawn	S. Bhandarkar	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

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Drawing Number:  
10059280-ARC-ELS-ZZ-DR-ZZ-00100

Revision:  
B





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

Proposed environmental areas

Other temporary and permanent construction and operational works

Discipline specific constraints

500m Study Area

Water Framework Directive River Waterbody Catchments

Waterbodies Status

Poor

Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.

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 12.3- Hydrology and Land Drainage-Water Framework Surface Waterbody Status  
Page 10 of 25

Designed	L. Driscoll	Date	June 2024
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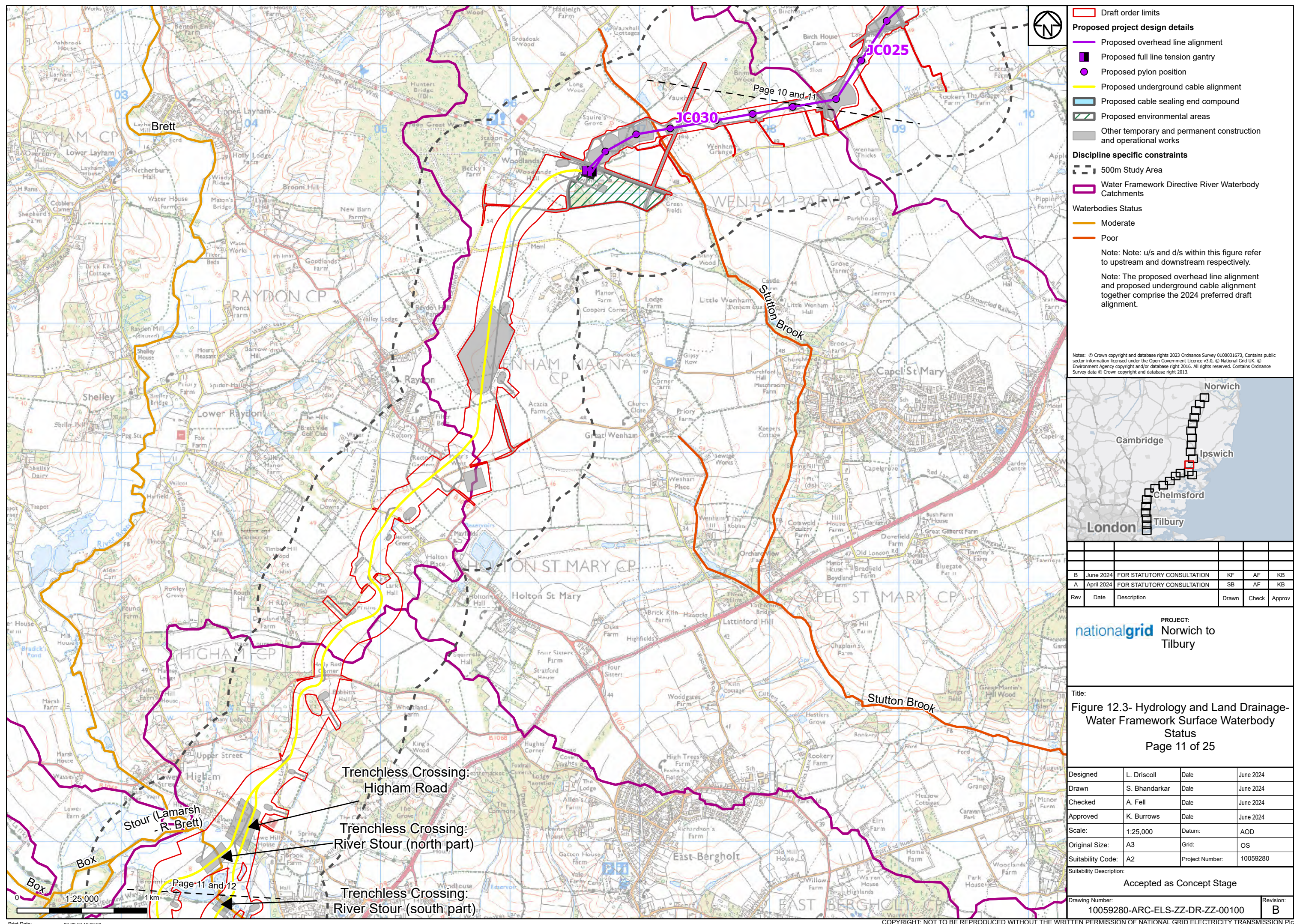
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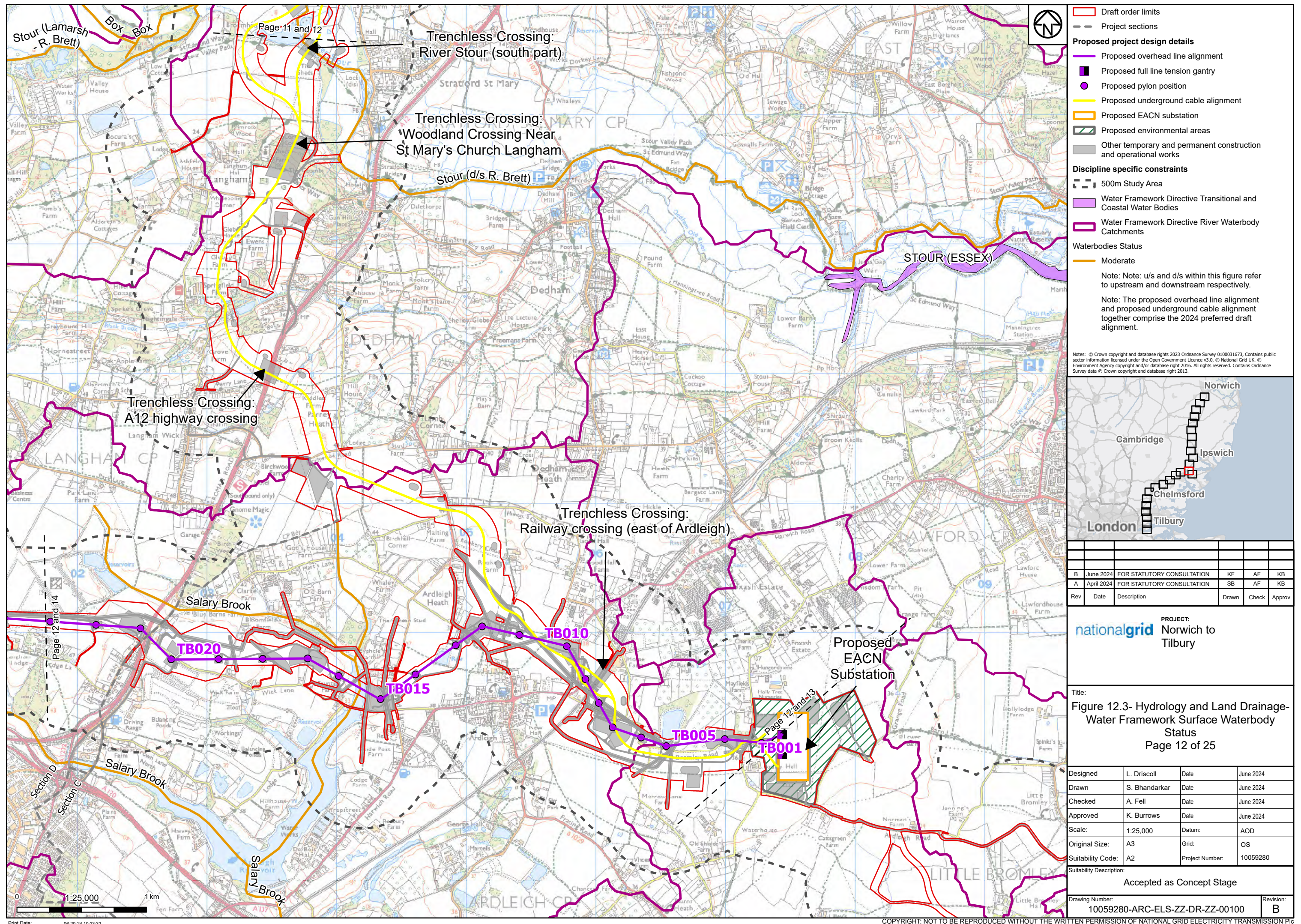
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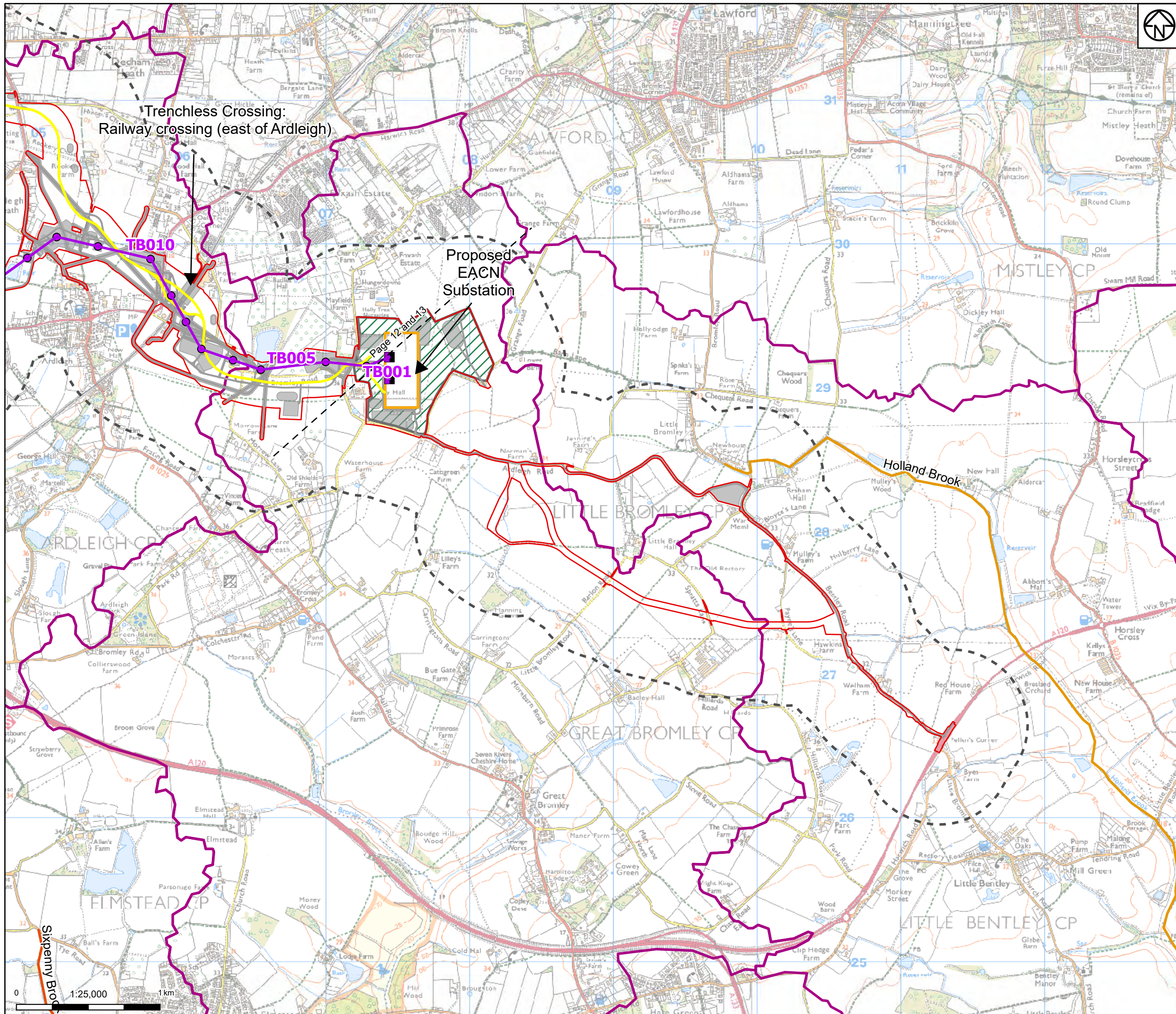












Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed full line tension gantry

Proposed pylon position

Proposed underground cable alignment

Proposed EACN substation

Proposed environmental areas

Other temporary and permanent construction and operational works

Discipline specific constraints

500m Study Area

Water Framework Directive River Waterbody Catchments

Waterbodies Status

Moderate

Poor

Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.

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 12.3- Hydrology and Land Drainage-  
Water Framework Surface Waterbody  
Status  
Page 13 of 25

Designed	L. Driscoll	Date	June 2024
Drawn	S. Bhandarkar	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
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Suitability Description:

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Drawing Number:

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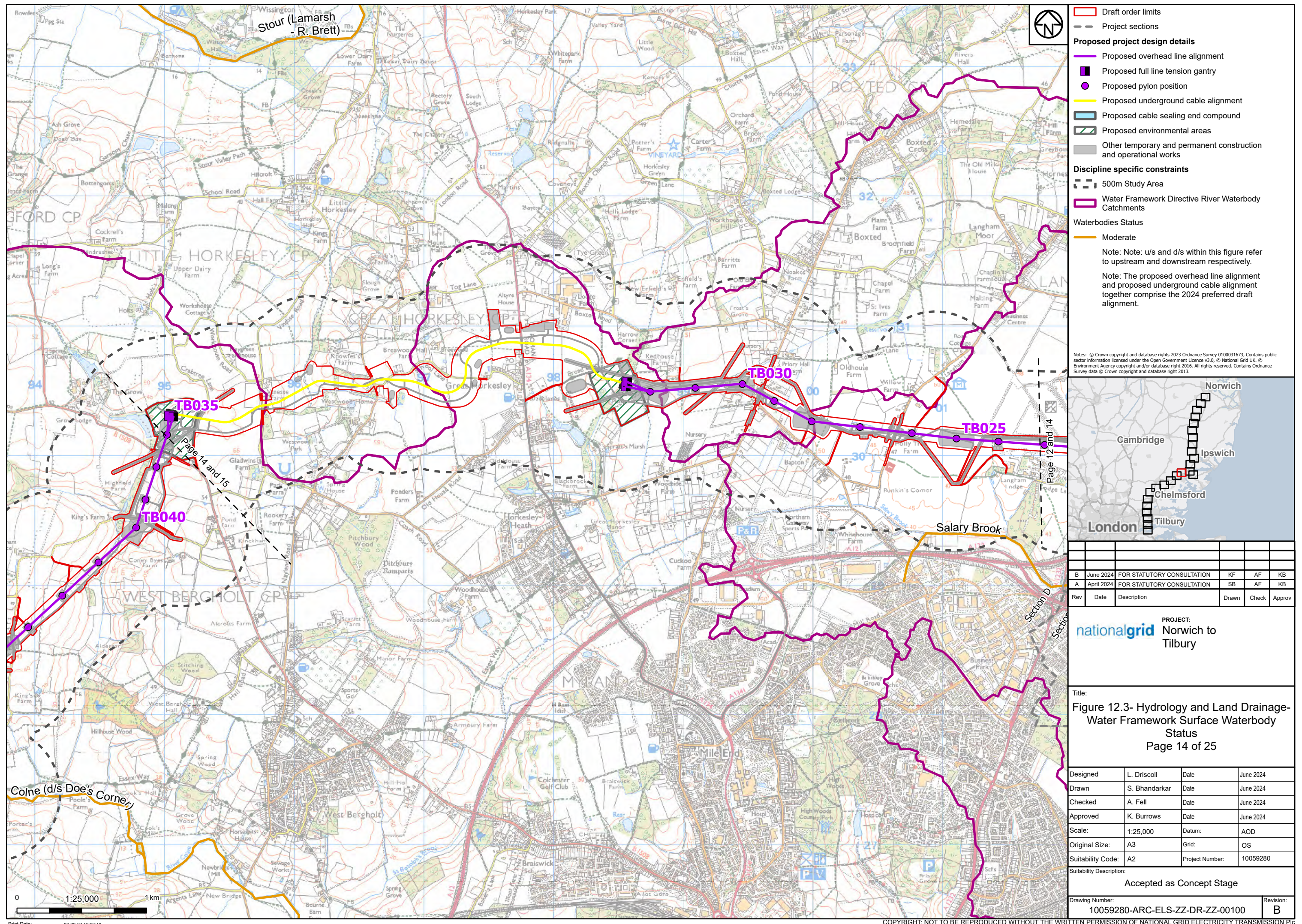
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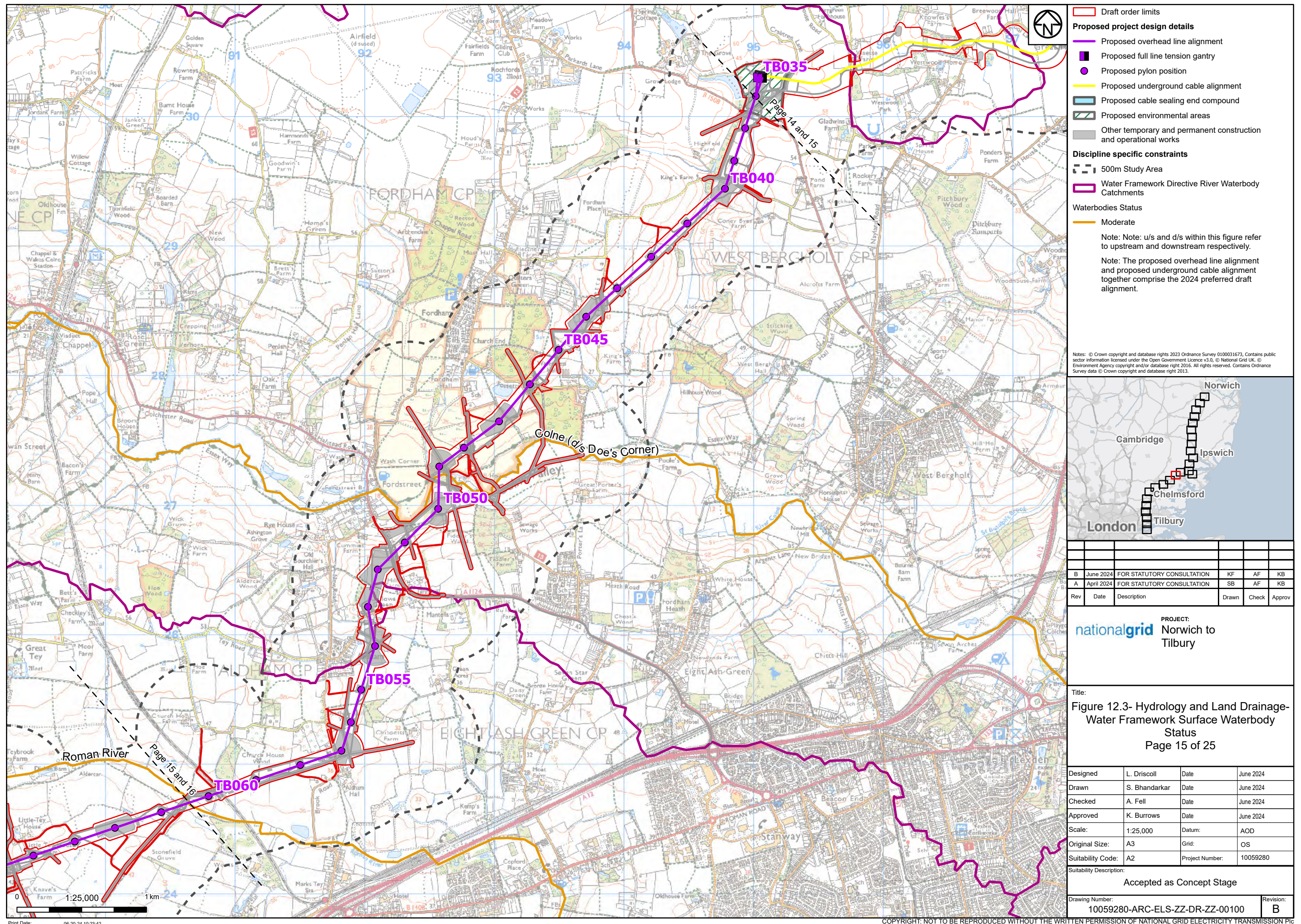
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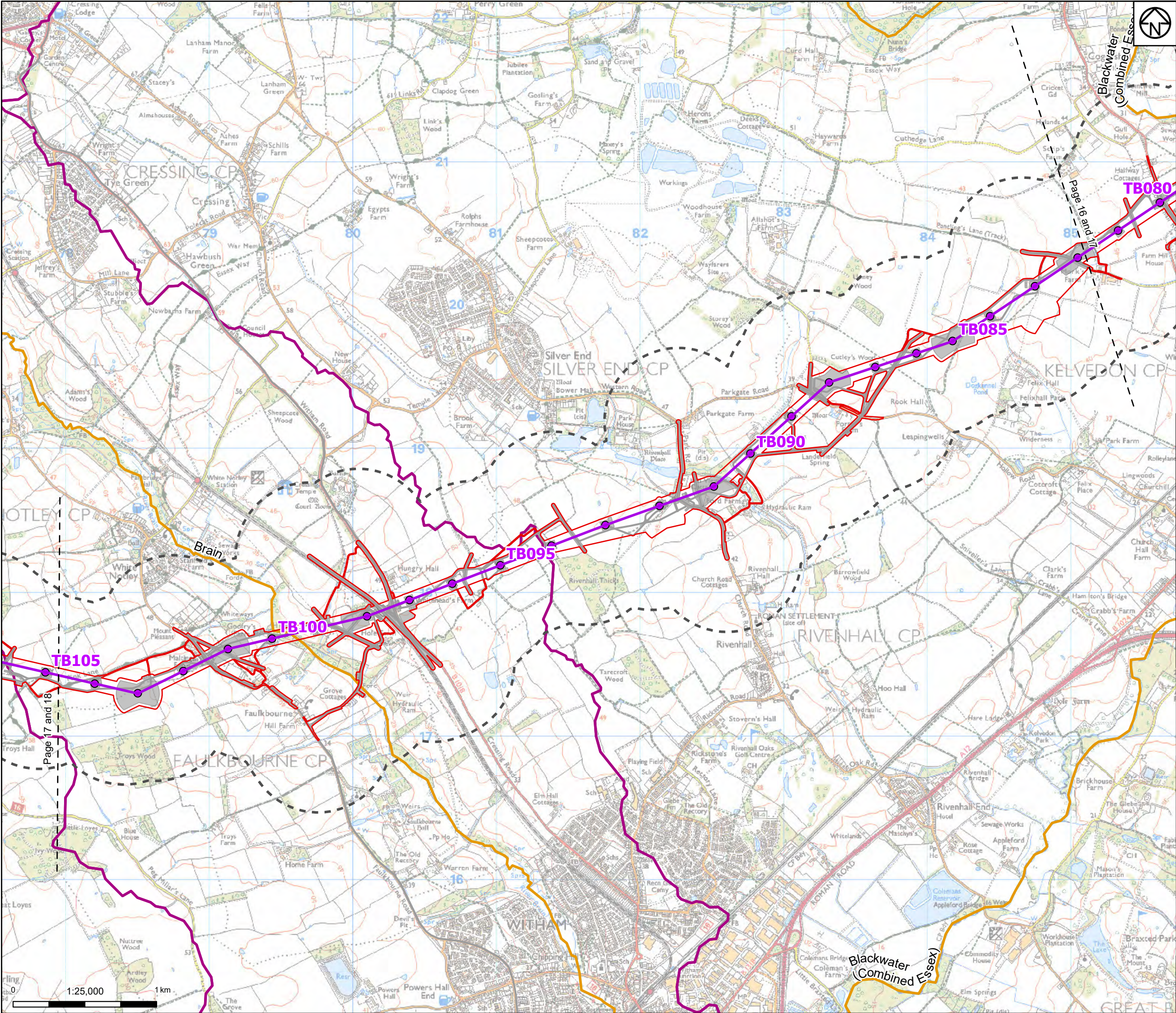












Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

500m Study Area

Water Framework Directive River Waterbody Catchments

Waterbodies Status

Moderate

Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.

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 12.3- Hydrology and Land Drainage-  
Water Framework Surface Waterbody  
Status  
Page 17 of 25

Designed	L. Driscoll	Date	June 2024
Drawn	S. Bhandarkar	Date	June 2024
Checked	A. Fell	Date	June 2024
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Revision:

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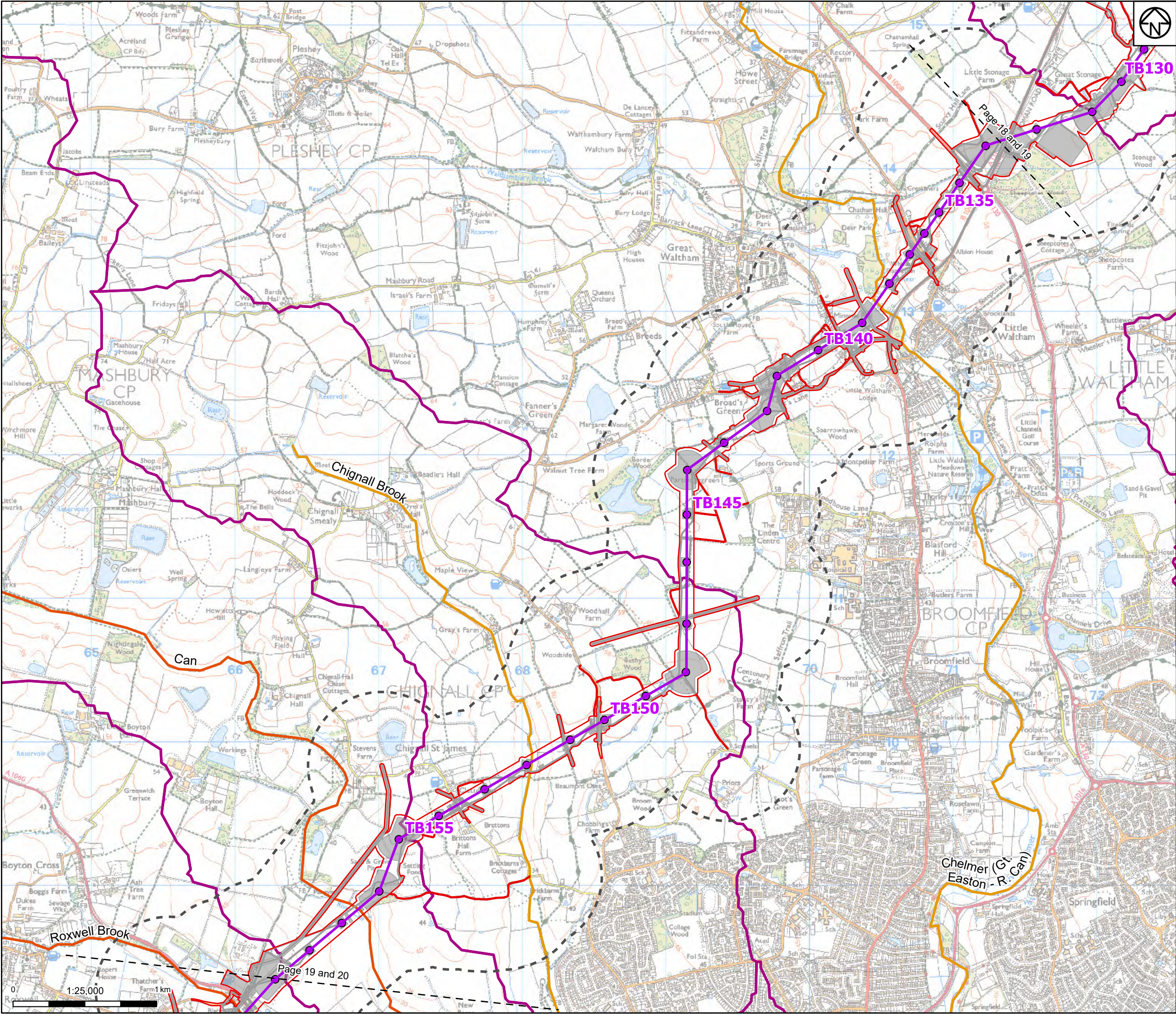
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Draft order limits

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

500m Study Area

Water Framework Directive River Waterbody Catchments

Waterbodies Status

Moderate

Poor

Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.

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 12.3- Hydrology and Land Drainage-  
Water Framework Surface Waterbody  
Status  
Page 19 of 25

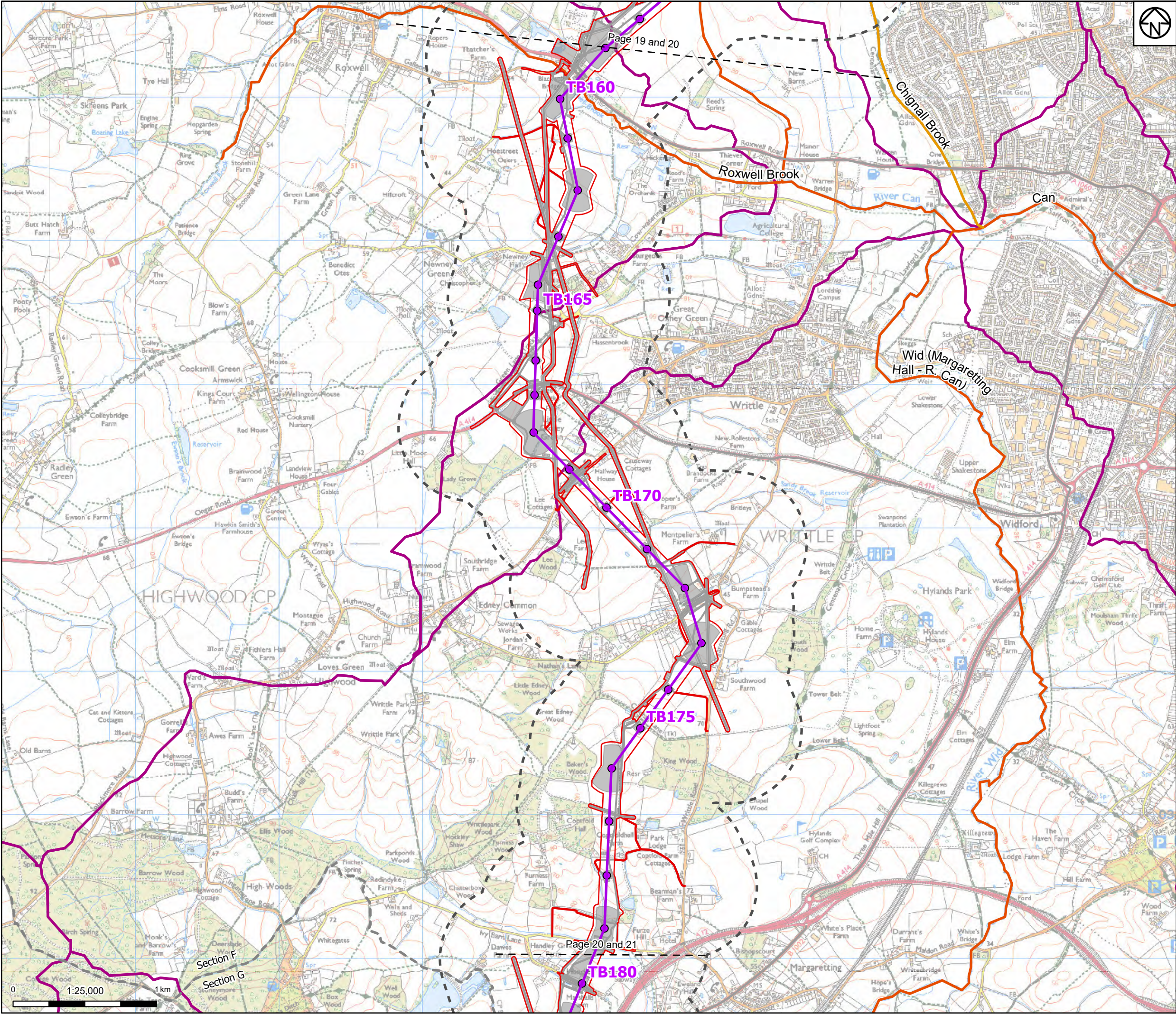
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Suitability Description:  
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Revision:  
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Draft order limits

Project sections

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

500m Study Area

Water Framework Directive River Waterbody Catchments

Waterbodies Status

Moderate

Poor

Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.

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PROJECT:

Norwich to Tilbury

Title:  
Figure 12.3- Hydrology and Land Drainage-  
Water Framework Surface Waterbody  
Status  
Page 20 of 25

Designed	L. Driscoll	Date	June 2024
Drawn	S. Bhandarkar	Date	June 2024
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Approved	K. Burrows	Date	June 2024
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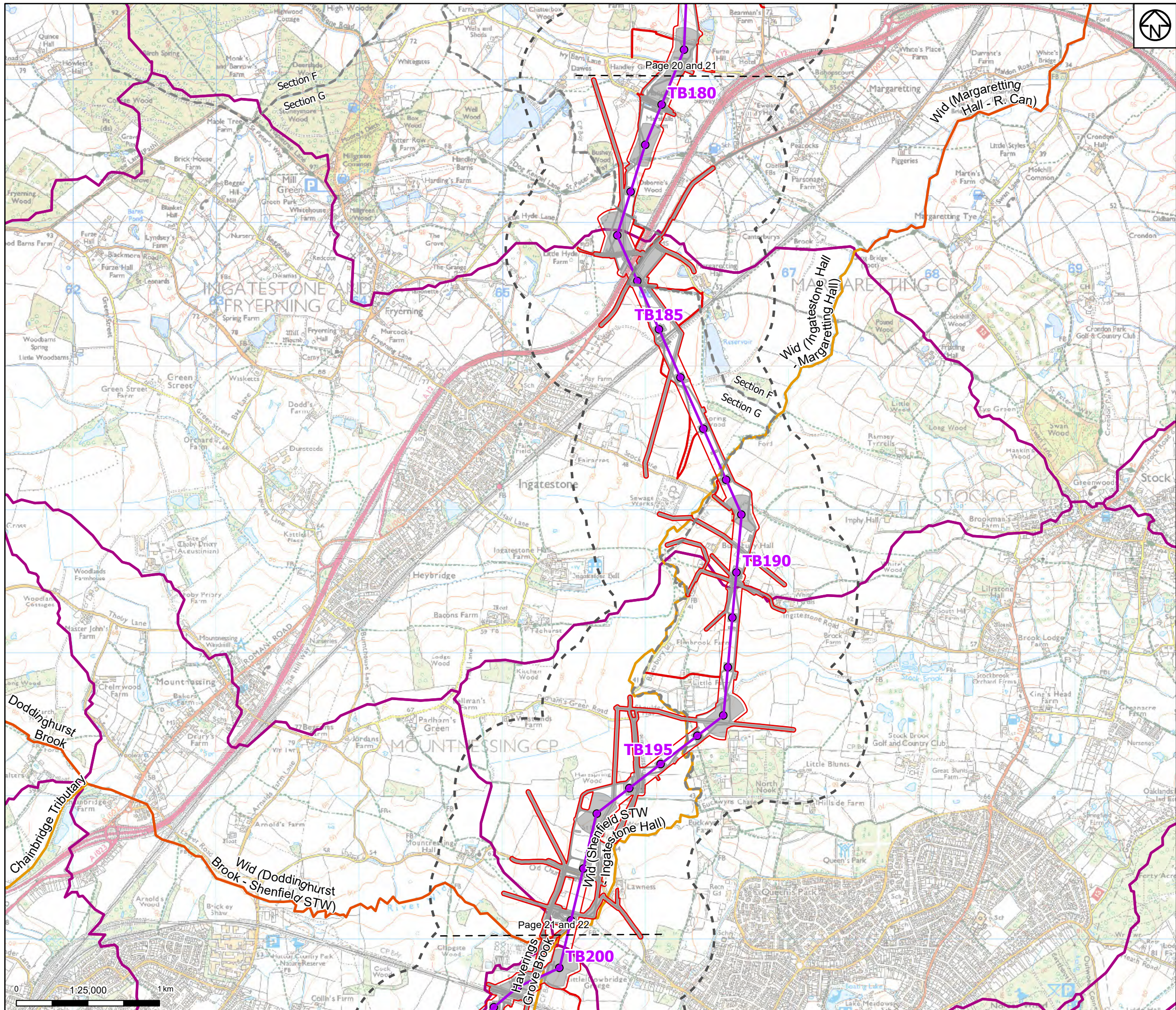
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Revision:

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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

500m Study Area

Water Framework Directive River Waterbody Catchments

Waterbodies Status

Moderate

Poor

Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.

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 12.3- Hydrology and Land Drainage-  
Water Framework Surface Waterbody  
Status  
Page 21 of 25

Designed	L. Driscoll	Date	June 2024
Drawn	S. Bhandarkar	Date	June 2024
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Approved	K. Burrows	Date	June 2024
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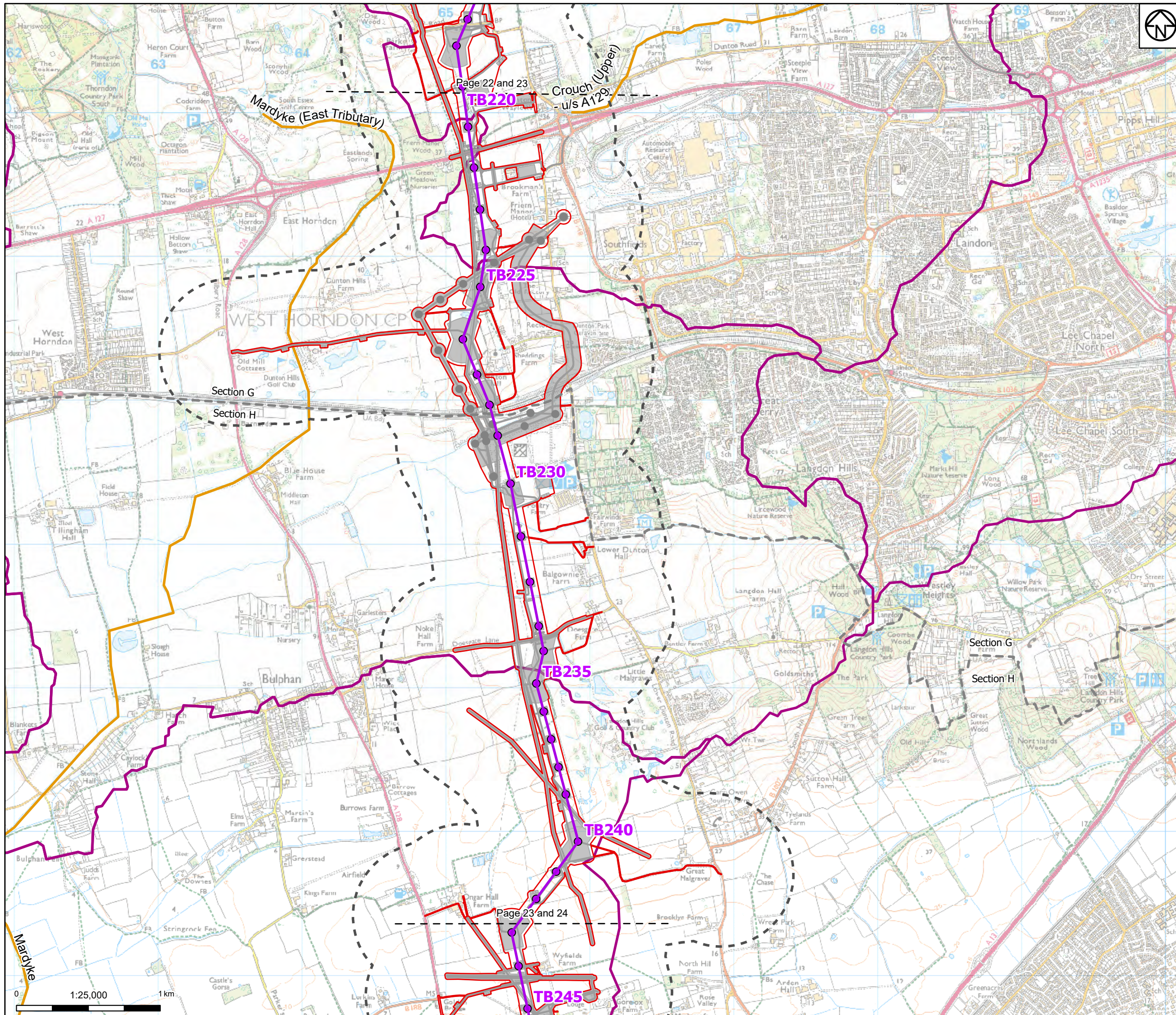
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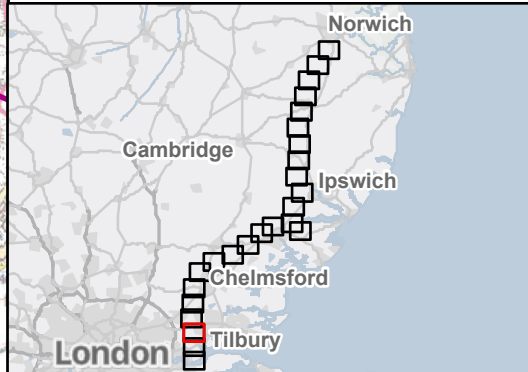






- Draft order limits
  - Project sections
  - Proposed project design details**
  - Proposed overhead line alignment
  - Proposed pylon position
  - Other temporary and permanent construction and operational works
  - Discipline specific constraints**
  - 500m Study Area
  - Water Framework Directive River Waterbody Catchments
  - Waterbodies Status**
  - Moderate
- Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.
- 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 12.3- Hydrology and Land Drainage-  
Water Framework Surface Waterbody  
Status  
Page 23 of 25

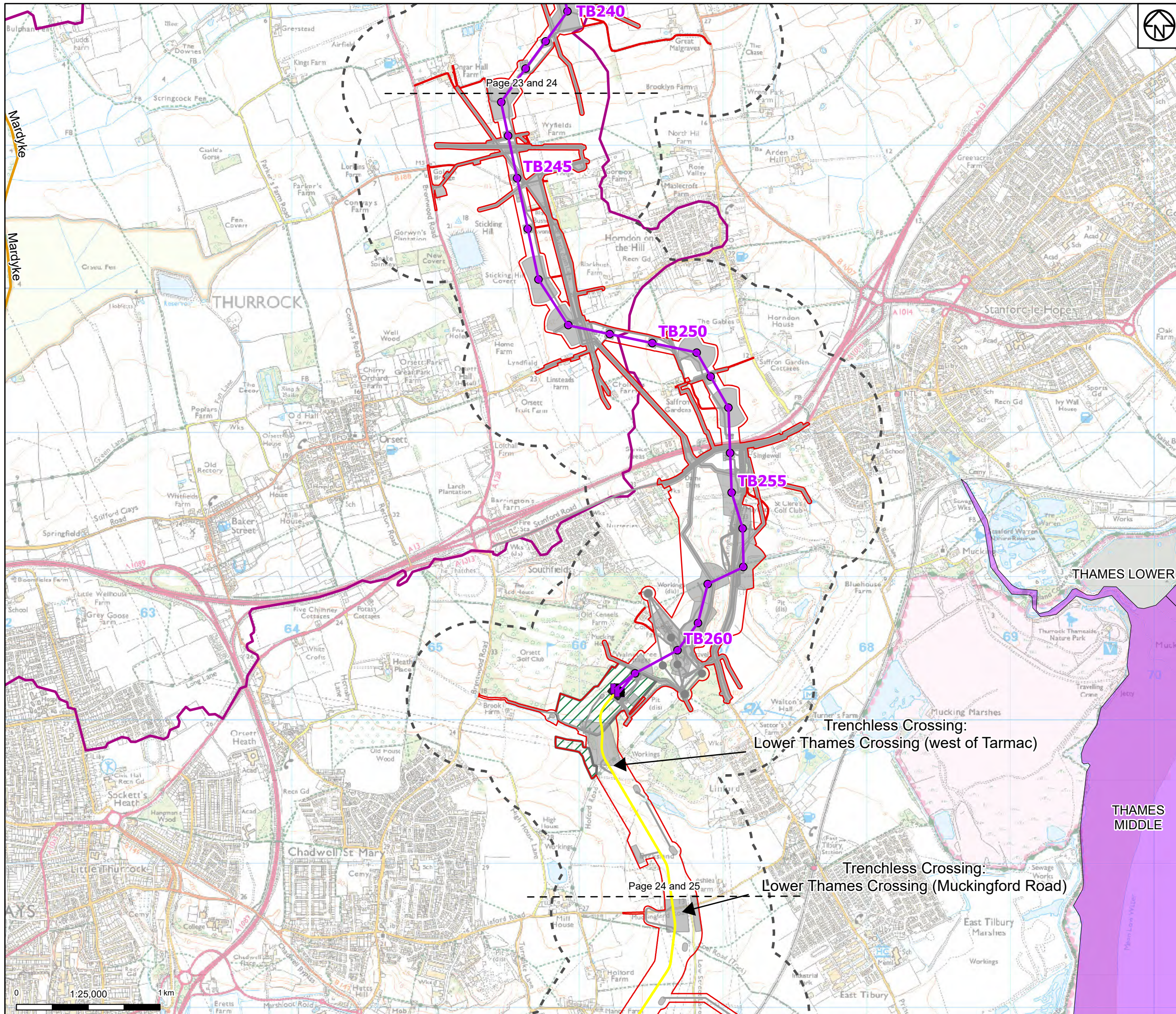
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Suitability Description:  
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Revision:  
B





- 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**
    - 500m Study Area
    - Water Framework Directive Transitional and Coastal Water Bodies
    - Water Framework Directive River Waterbody Catchments
  - Waterbodies Status**
    - Moderate
- Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.
- 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 12.3- Hydrology and Land Drainage-  
Water Framework Surface Waterbody  
Status  
Page 24 of 25

Designed	L. Driscoll	Date	June 2024
Drawn	S. Bhandarkar	Date	June 2024
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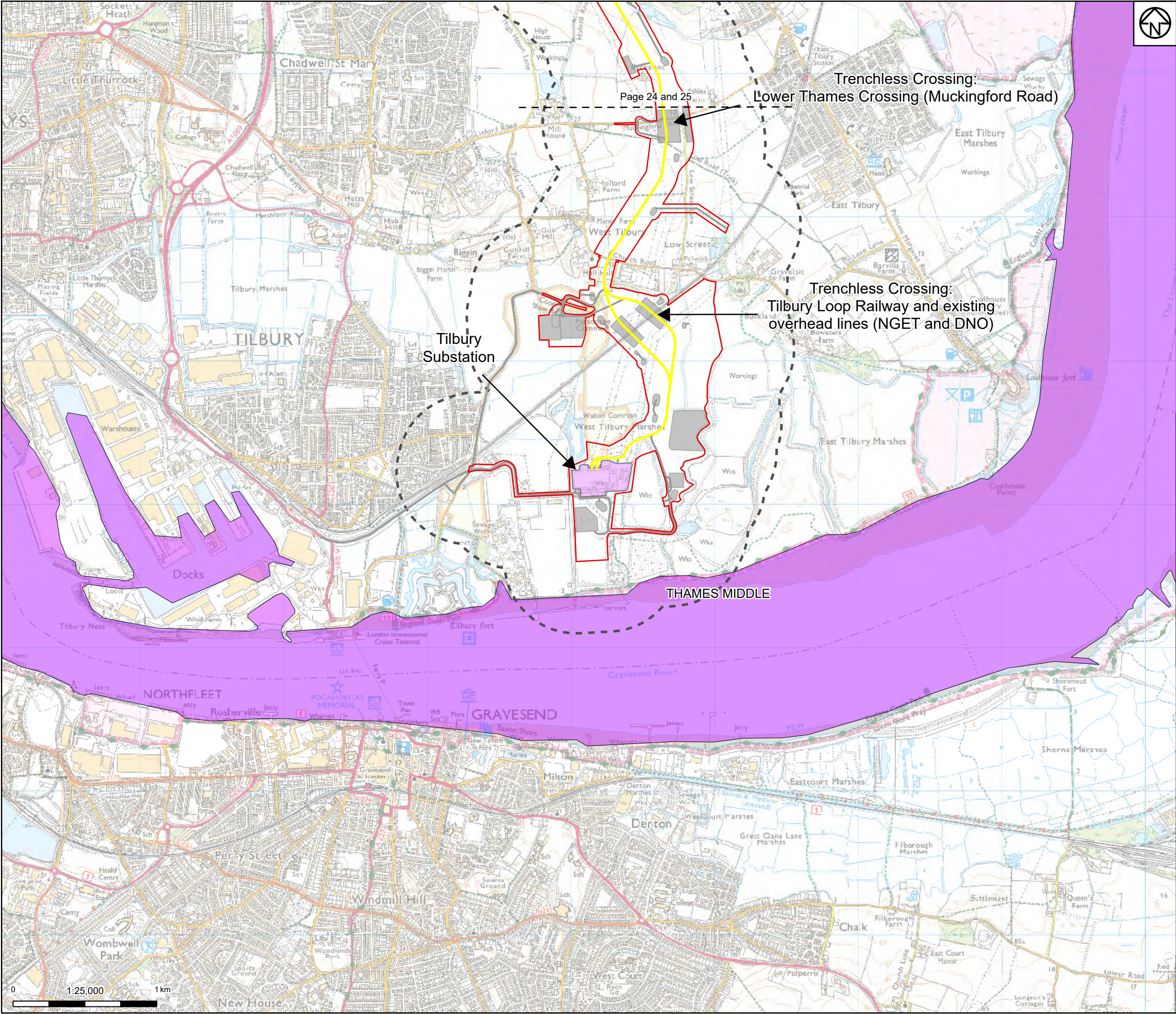
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Draft order limits

Proposed project design details

Proposed underground cable alignment

Existing substation

Other temporary and permanent construction and operational works

Discipline specific constraints


500m Study Area

Water Framework Directive Transitional and Coastal Water Bodies

Note: Note: u/s and d/s within this figure refer to upstream and downstream respectively.

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

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Chelmsford

Ipswich

Norwich

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PROJECT: Norwich to Tilbury

Title: Figure 12.3- Hydrology and Land Drainage- Water Framework Surface Waterbody Status  
Page 25 of 25

Designed	L. Driscoll	Date	June 2024
Drawn	S. Bhandarkar	Date	June 2024
Checked	A. Fell	Date	June 2024
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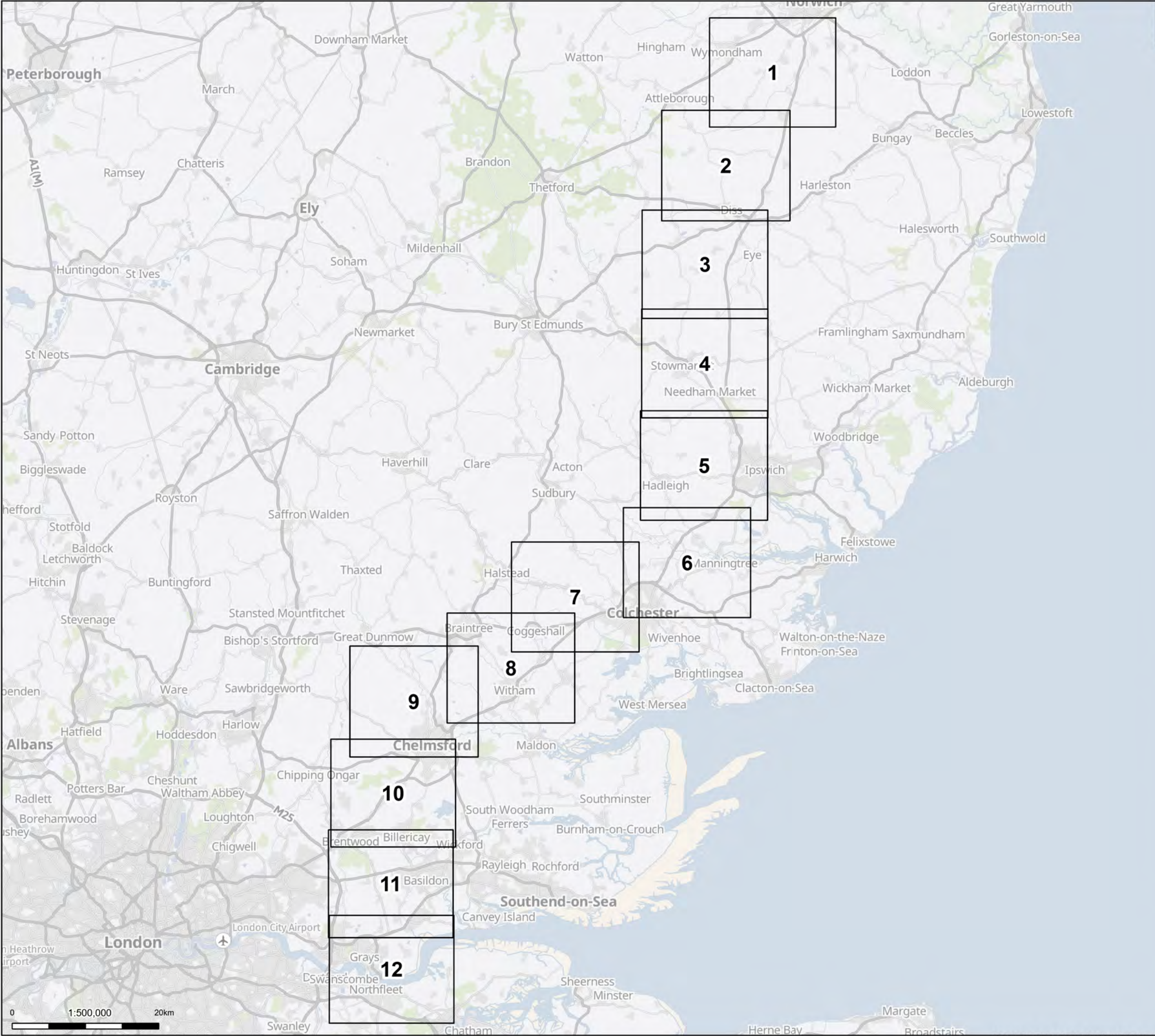
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Note: This figure has been revised. This does not affect the preliminary assessment in the PEIR. For more details we refer you to the Errata and Corrections Log (June 2024) on the Project website

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PROJECT:

Norwich to Tilbury

Title:

Figure 13.1 - Landscape and Visual - LVIA Study Area and Landscape Designations Overview

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Drawn	K. Fischer	Date	June 2024
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Approved	K. Burrows	Date	June 2024
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Suitability Description:

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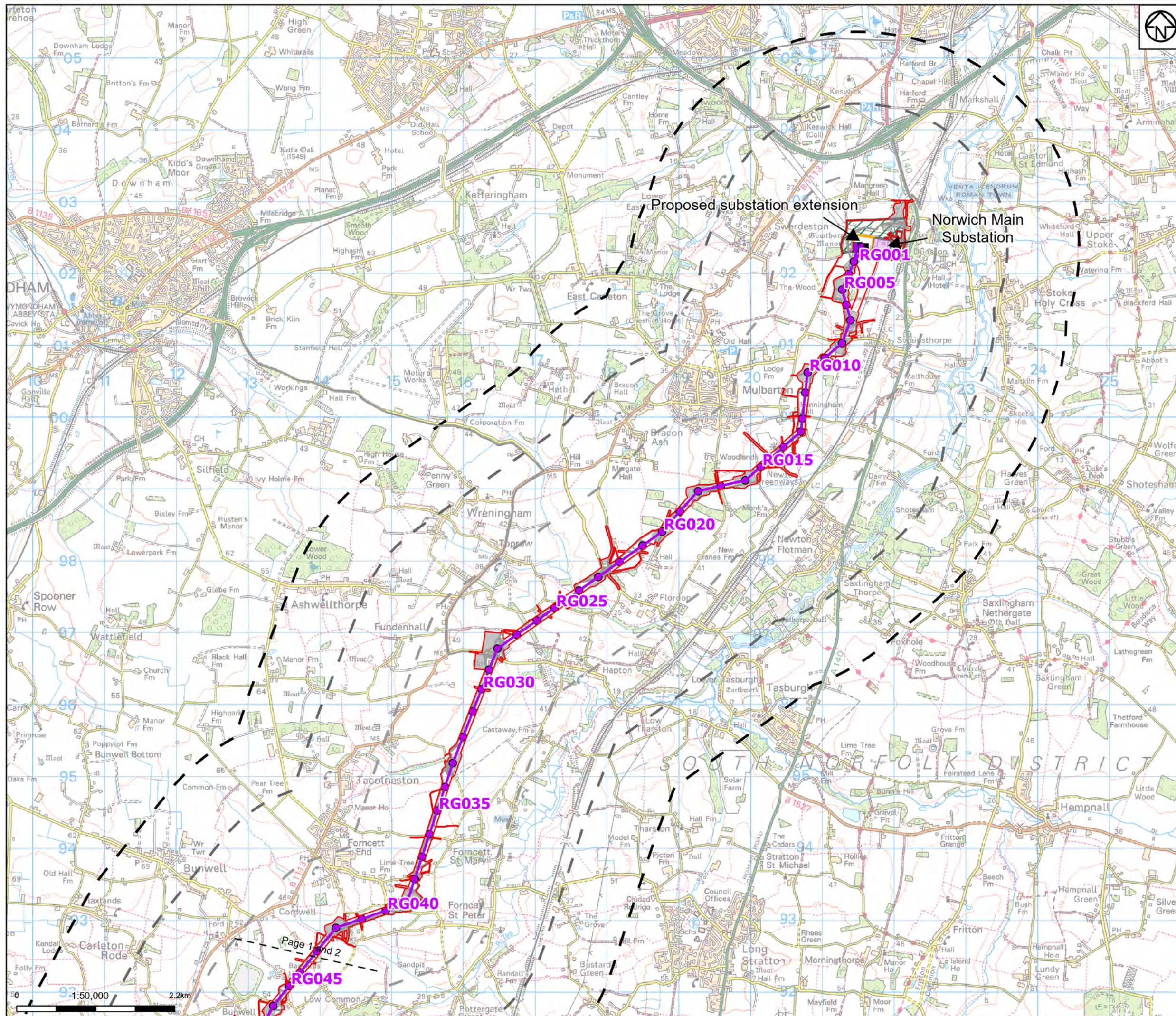
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Revision:

B





- Legend**
- Draft order limits
  - Project sections
  - Proposed project design details**
  - Proposed overhead line alignment
  - Proposed full line tension gantry
  - Proposed pylon position
  - Existing substation
  - Proposed substation extension
  - Other temporary and permanent construction and operational works
  - Proposed environmental areas
  - Discipline specific constraints**
  - Study Areas**
  - 3km - for above ground elements
  - Project Buffer (for context only)
  - 1km
  - 2km
  - 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

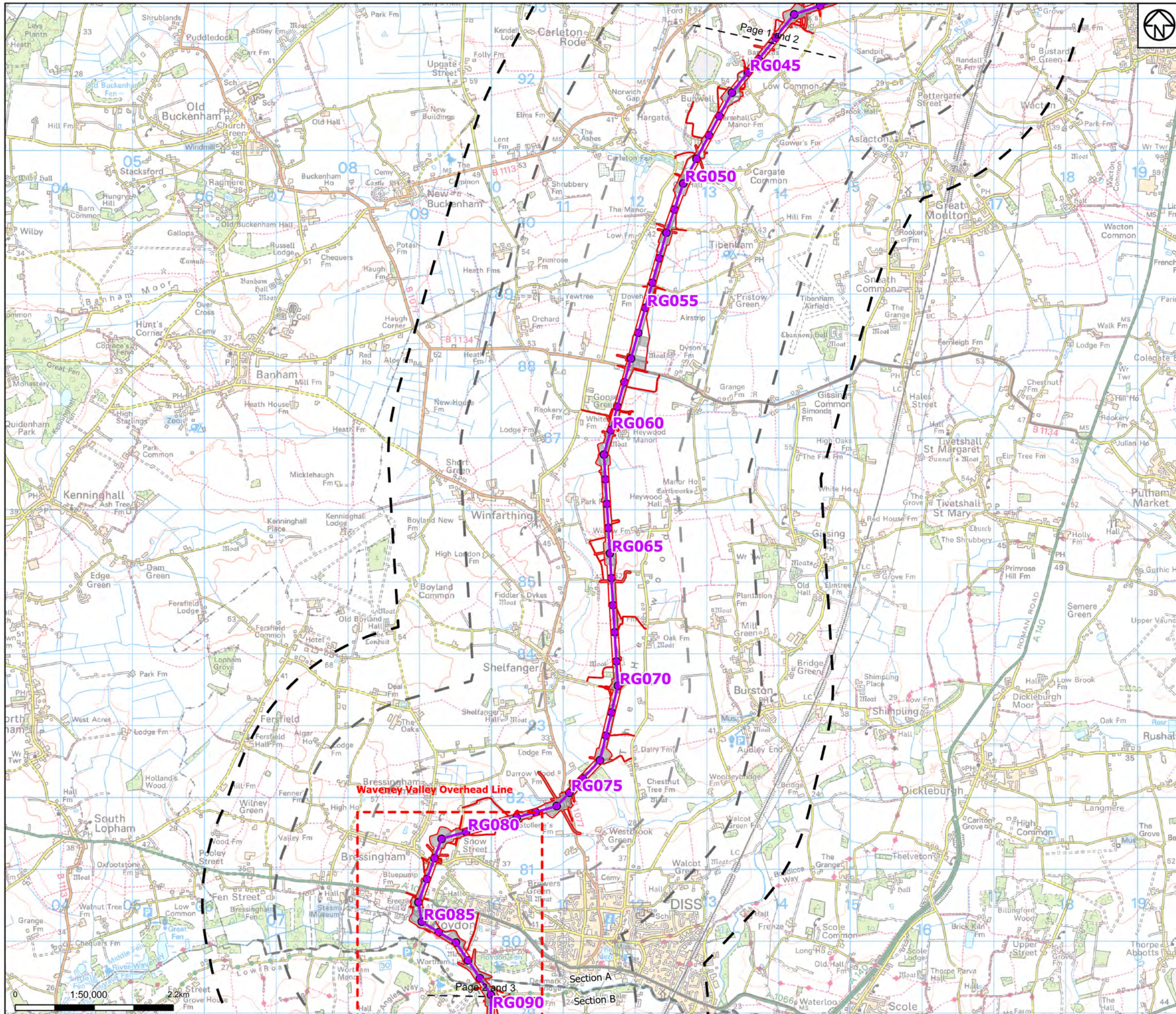
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Figure 13.1 - Landscape and Visual - LVIA Study Area and Landscape Designations  
Page 1 of 12

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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

Suitability Description:  
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Drawing Number:  
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Revision:  
B





- 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
- Study Areas
  - 3km - for above ground elements
  - 1km
  - 2km
- Project Buffer (for context only)
- 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 13.1 - Landscape and Visual -  
LVIA Study Area and  
Landscape Designations  
Page 2 of 12

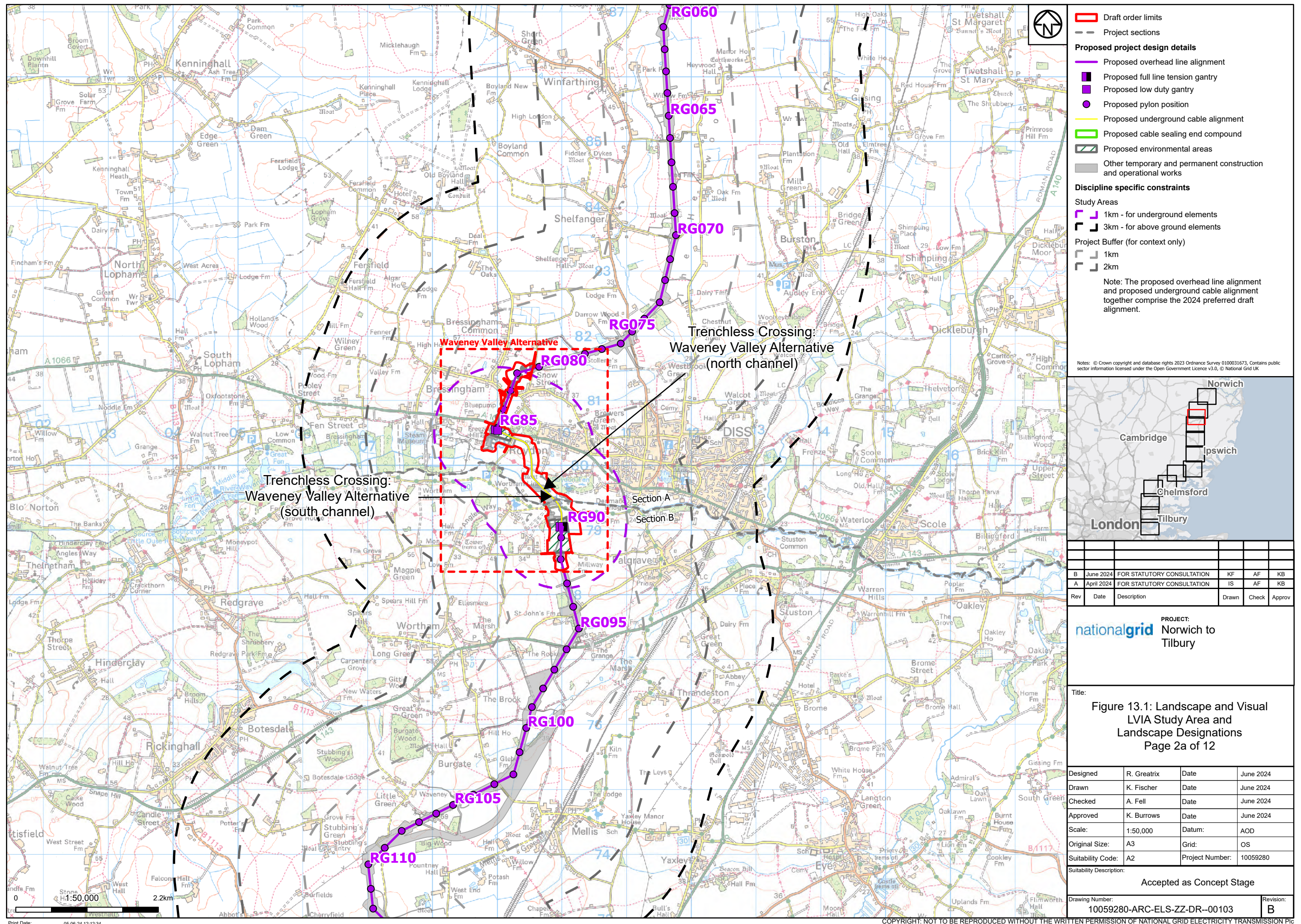
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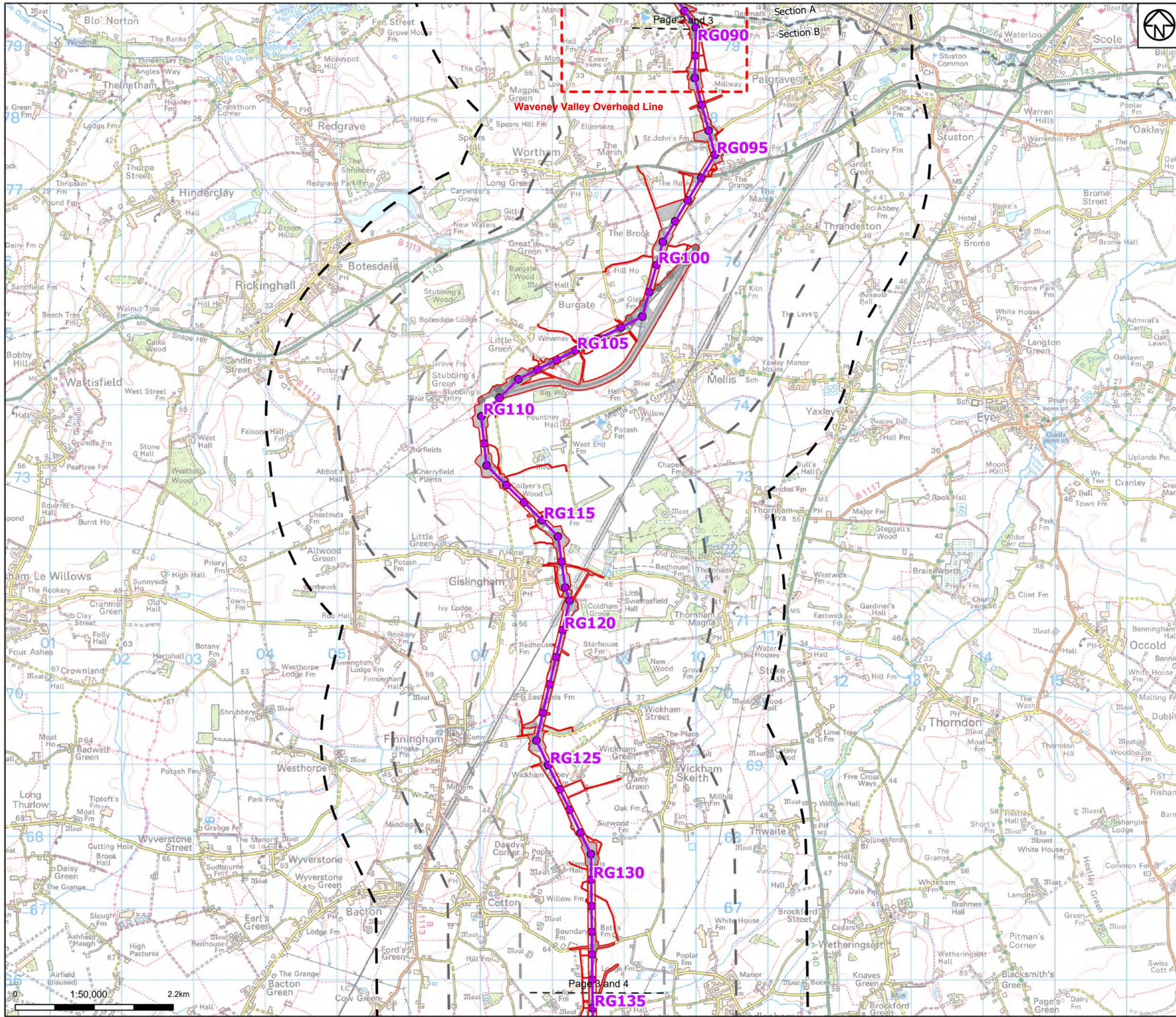
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Revision:  
B









Draft order limits

Project sections

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Study Areas

3km - for above ground elements

1km

2km

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

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Norwich

Cambridge

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PROJECT:

nationalgrid

Norwich to Tilbury

Title:

Figure 13.1 - Landscape and Visual - LVIA Study Area and Landscape Designations

Page 3 of 12

Designed	R. Greatrix	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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Suitability Description:	Accepted as Concept Stage		

Drawing Number:

10059280-ARC-ELS-ZZ-DR--00103

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Page 2 and 3

Page 3 and 4

Section A

Section B

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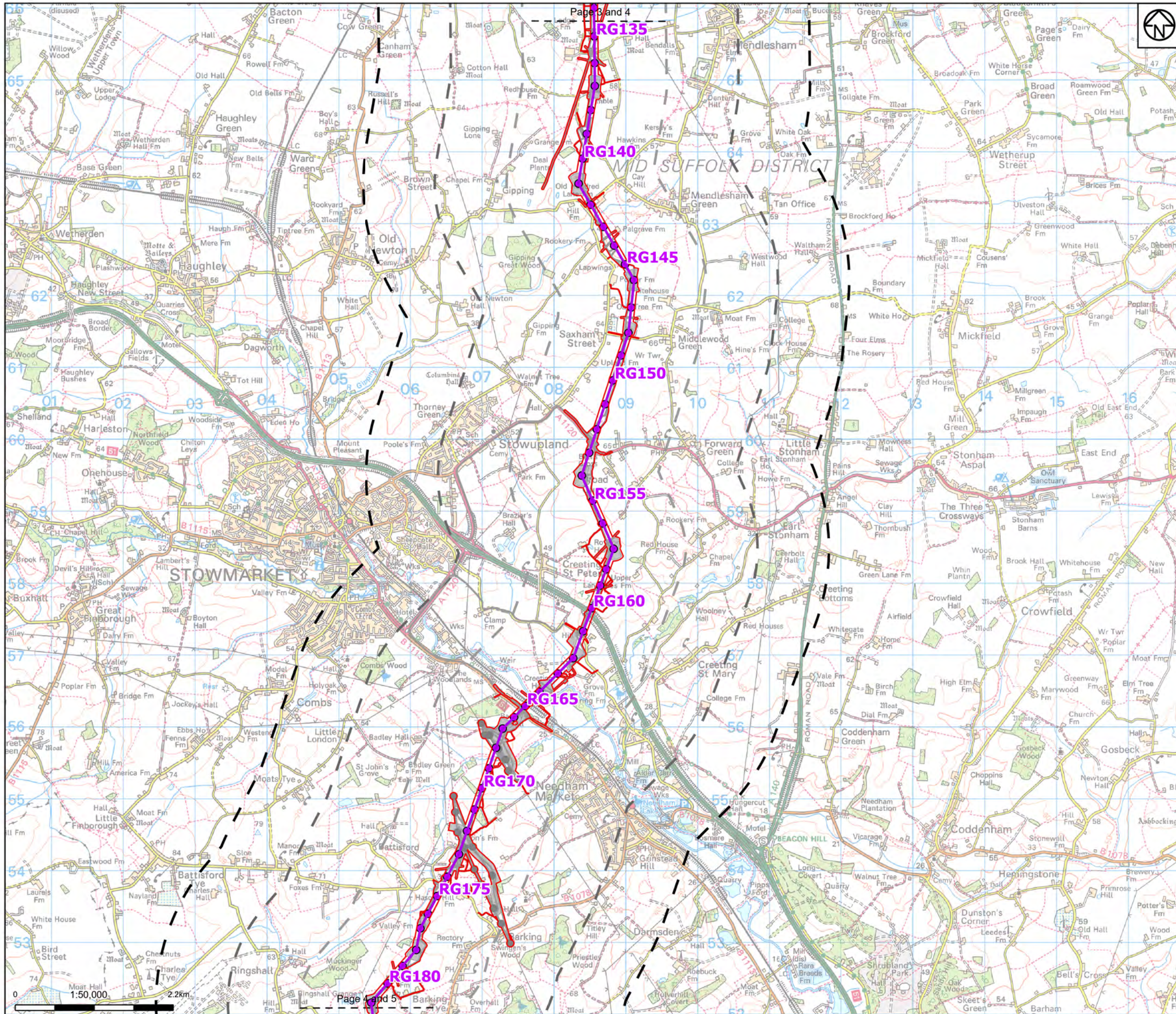
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- Draft order limits
- Project sections
- Proposed project design details
  - Proposed overhead line alignment
  - Proposed pylon position
  - Other temporary and permanent construction and operational works
- Discipline specific constraints
- Study Areas
  - 3km - for above ground elements
  - 1km
  - 2km
- Project Buffer (for context only)

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	IS	AF	KB

PROJECT:  
nationalgrid Norwich to Tilbury

Title:  
Figure 13.1 - Landscape and Visual - LVIA Study Area and Landscape Designations  
Page 4 of 12

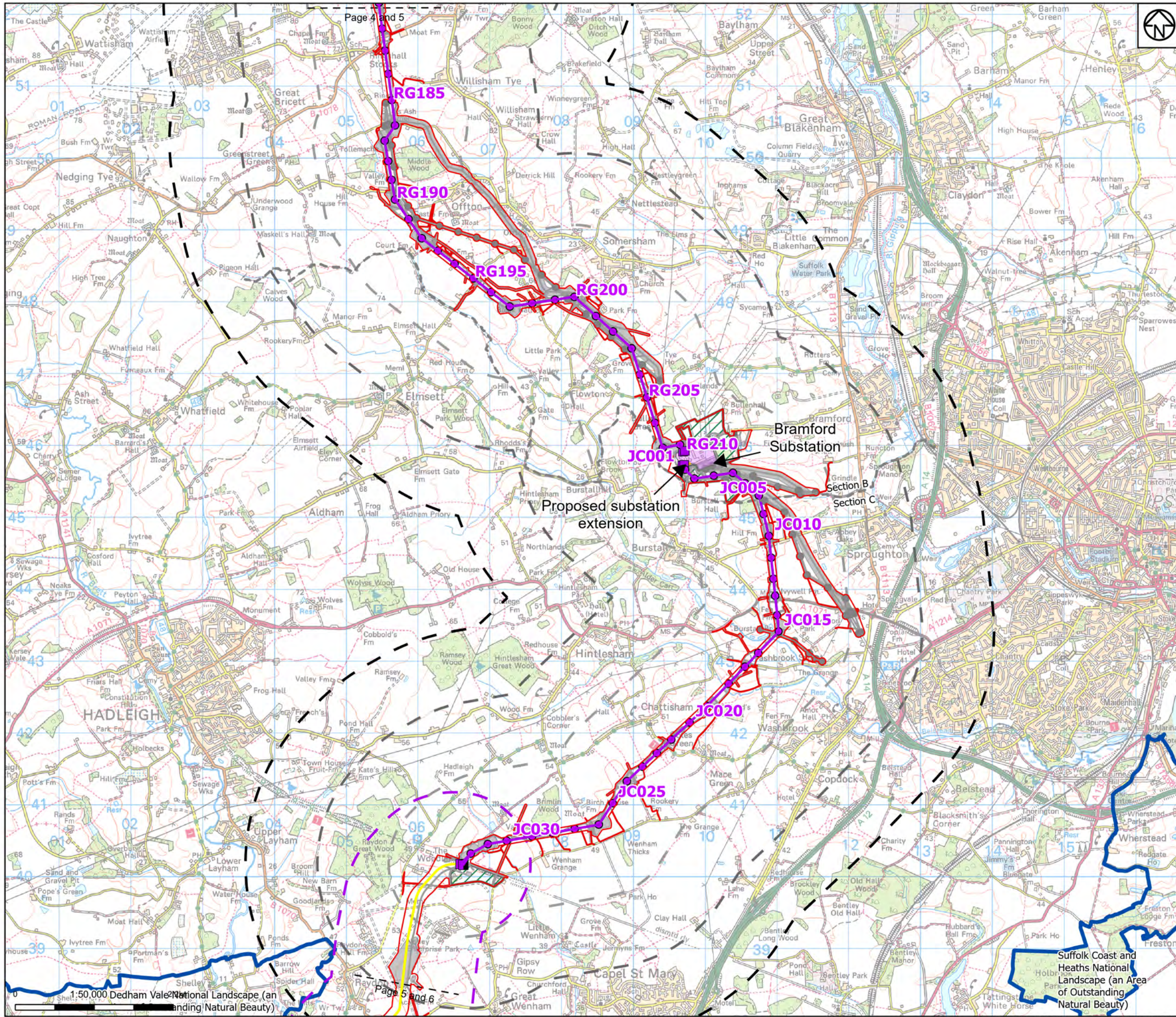
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:

Accepted as Concept Stage

Drawing Number: 10059280-ARC-ELS-ZZ-DR-00103  
Revision: B





- 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**
  - National Landscapes (an AONB)
- Study Areas**
  - 1km - for underground elements
  - 3km - for above ground elements
- Project Buffer (for context only)**
  - 1km
  - 2km
- 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 13.1 - Landscape and Visual - LVIA Study Area and Landscape Designations  
Page 5 of 12

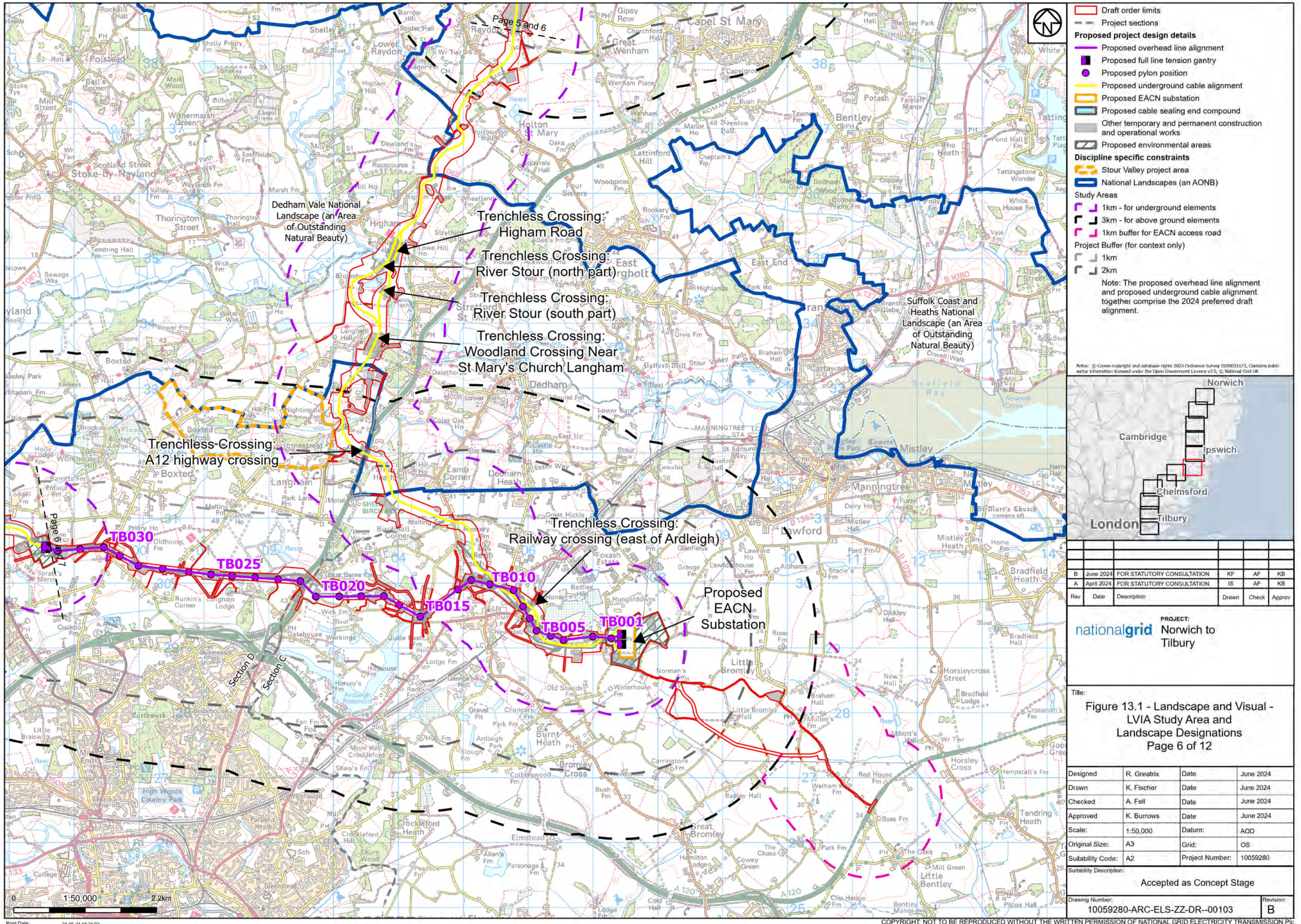
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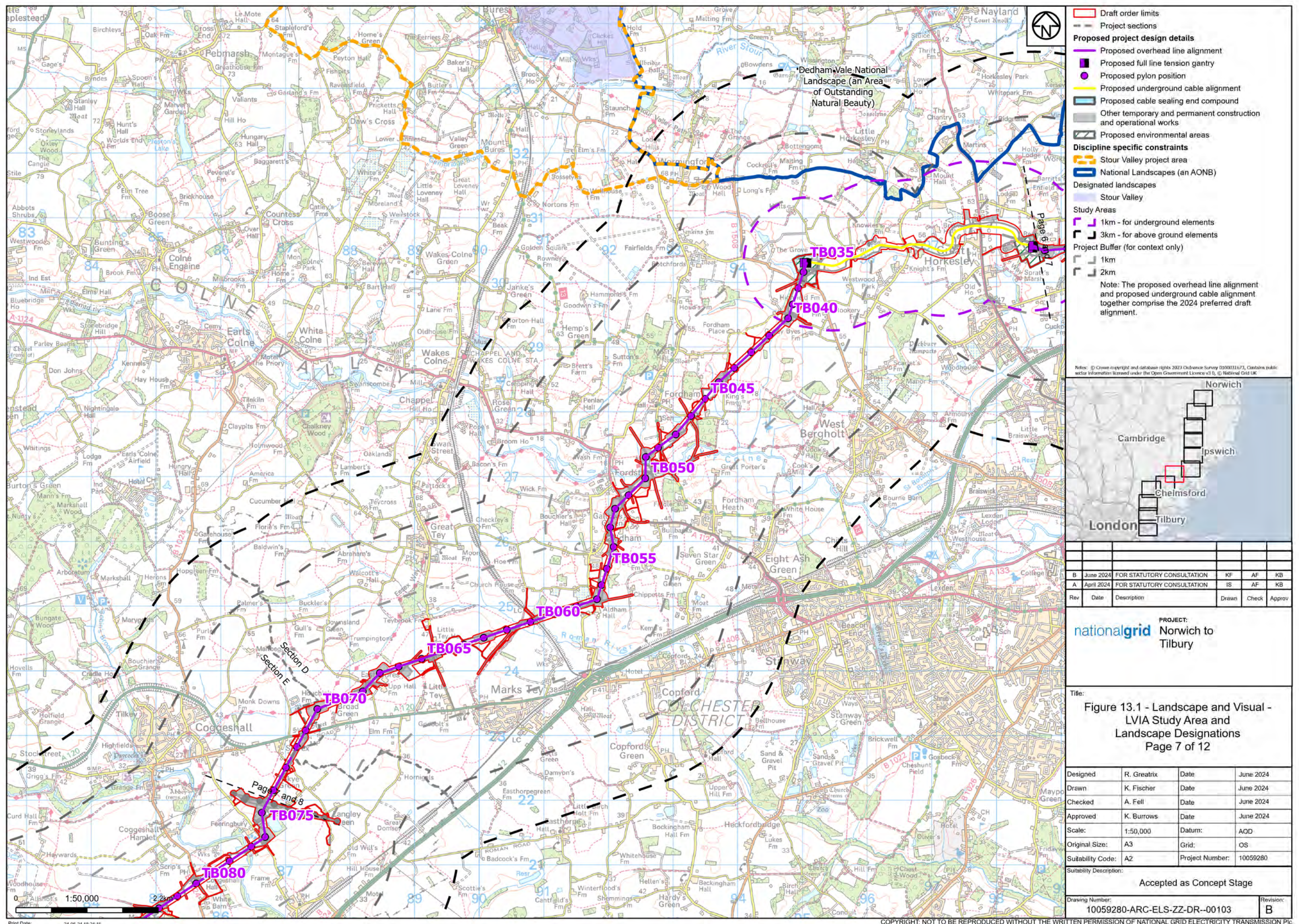
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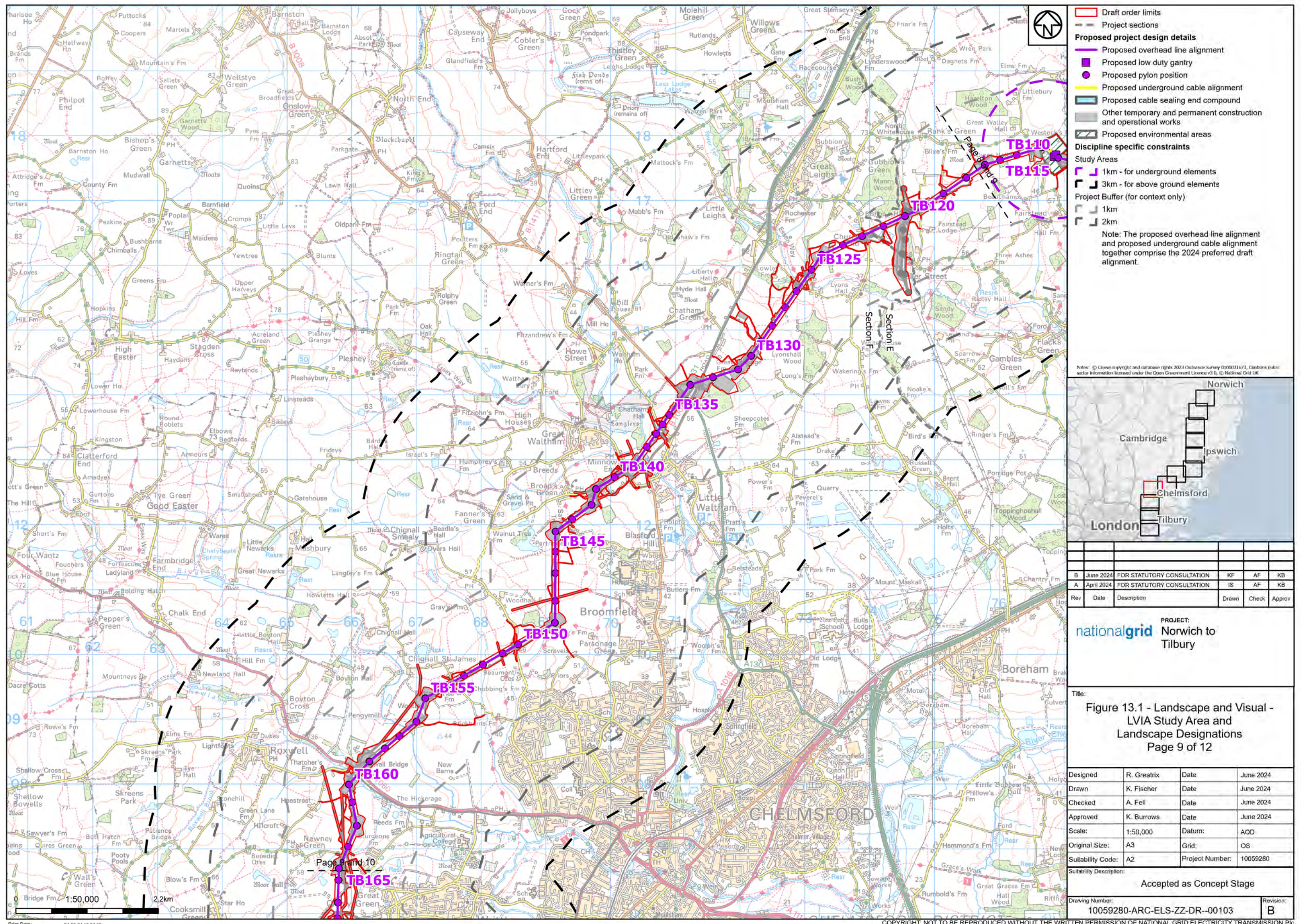




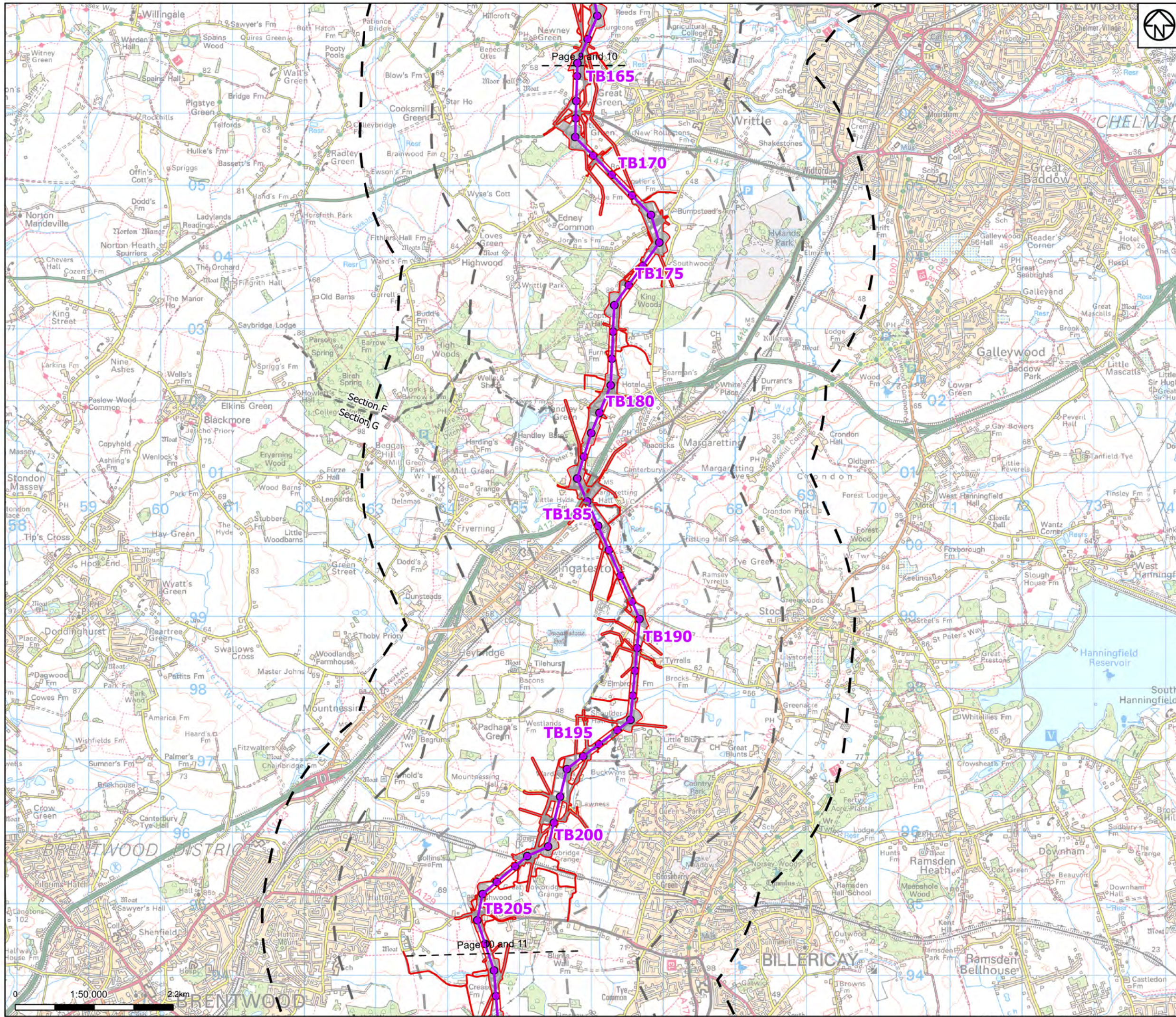












- Draft order limits
  - Project sections
  - Proposed project design details
    - Proposed overhead line alignment
    - Proposed pylon position
    - Other temporary and permanent construction and operational works
  - Discipline specific constraints
  - Study Areas
    - 3km - for above ground elements
    - 1km
    - 2km
  - Project Buffer (for context only)
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the 2024 preferred draft alignment.

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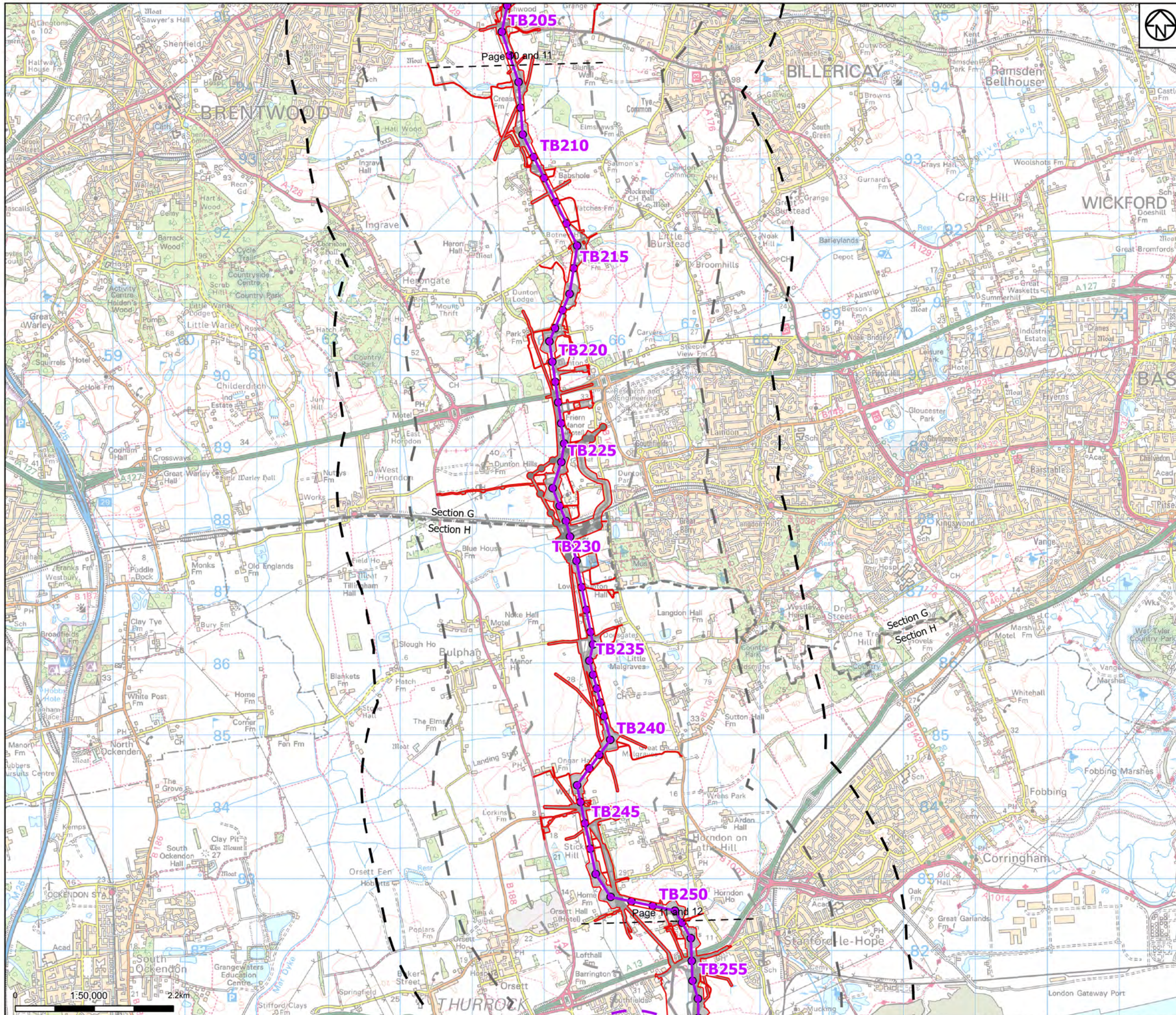
PROJECT:  
**nationalgrid** Norwich to Tilbury

Title:  
Figure 13.1 - Landscape and Visual - LVIA Study Area and Landscape Designations  
Page 10 of 12

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Approved	K. Burrows	Date	June 2024
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Suitability Description:			

Accepted as Concept Stage		
Drawing Number:	10059280-ARC-ELS-ZZ-DR--00103	Revision:
		B





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

Study Areas

1km - for underground elements

3km - for above ground elements

Project Buffer (for context only)

1km

2km

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 13.1 - Landscape and Visual - LVIA Study Area and Landscape Designations  
Page 11 of 12

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Drawn	K. Fischer	Date	June 2024
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Approved	K. Burrows	Date	June 2024
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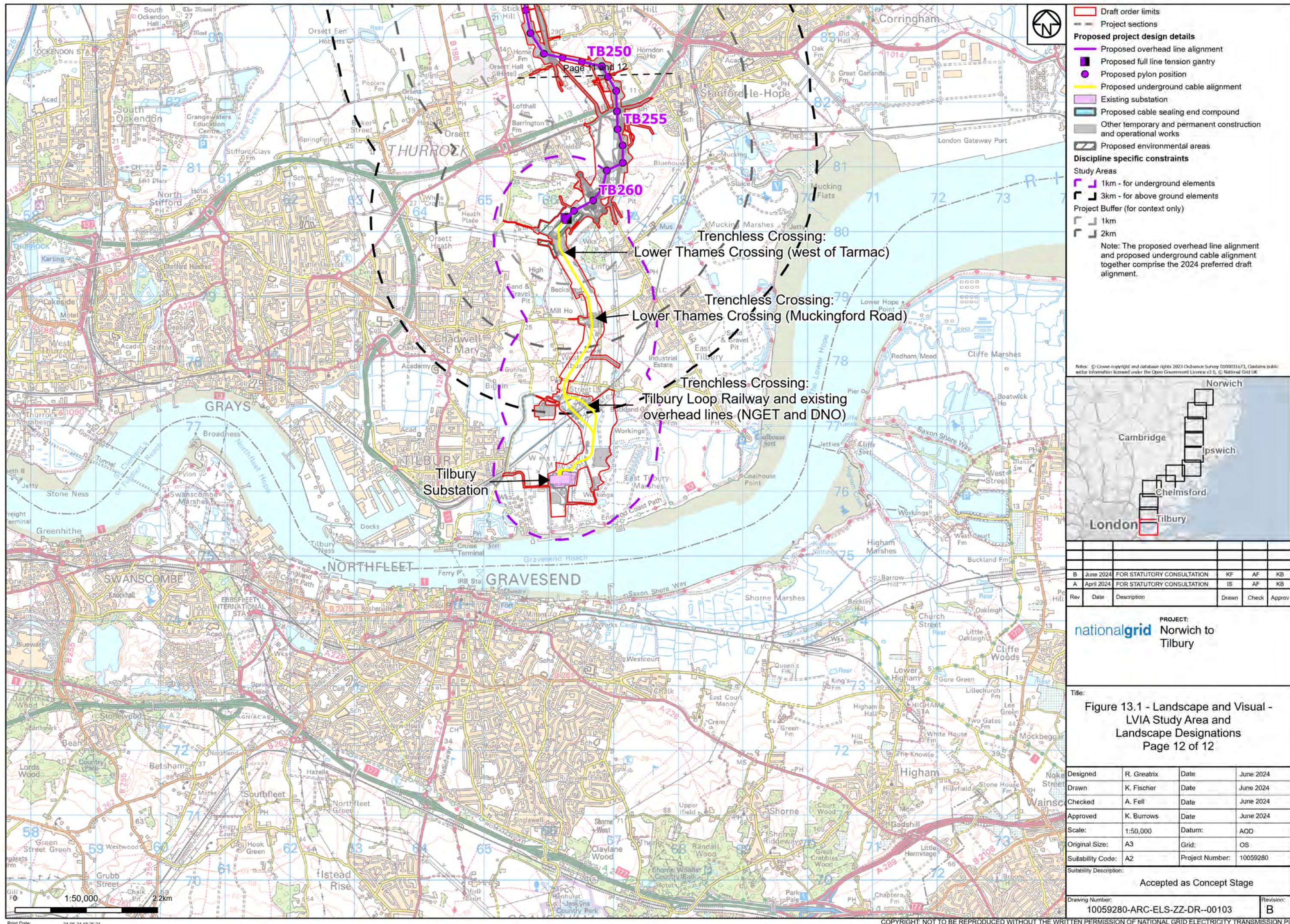
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- Legend**
- Draft order limits
  - Project sections
  - Proposed project design details**
    - Proposed overhead line alignment
    - Proposed full line tension gantry
    - Proposed pylon position
    - Proposed underground cable alignment
    - Existing substation
    - Proposed cable sealing end compound
    - Other temporary and permanent construction and operational works
    - Proposed environmental areas
  - Discipline specific constraints**
    - Study Areas**
      - 1km - for underground elements
      - 3km - for above ground elements
    - Project Buffer (for context only)**
      - 1km
      - 2km
- 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 13.1 - Landscape and Visual -  
LVIA Study Area and  
Landscape Designations  
Page 12 of 12

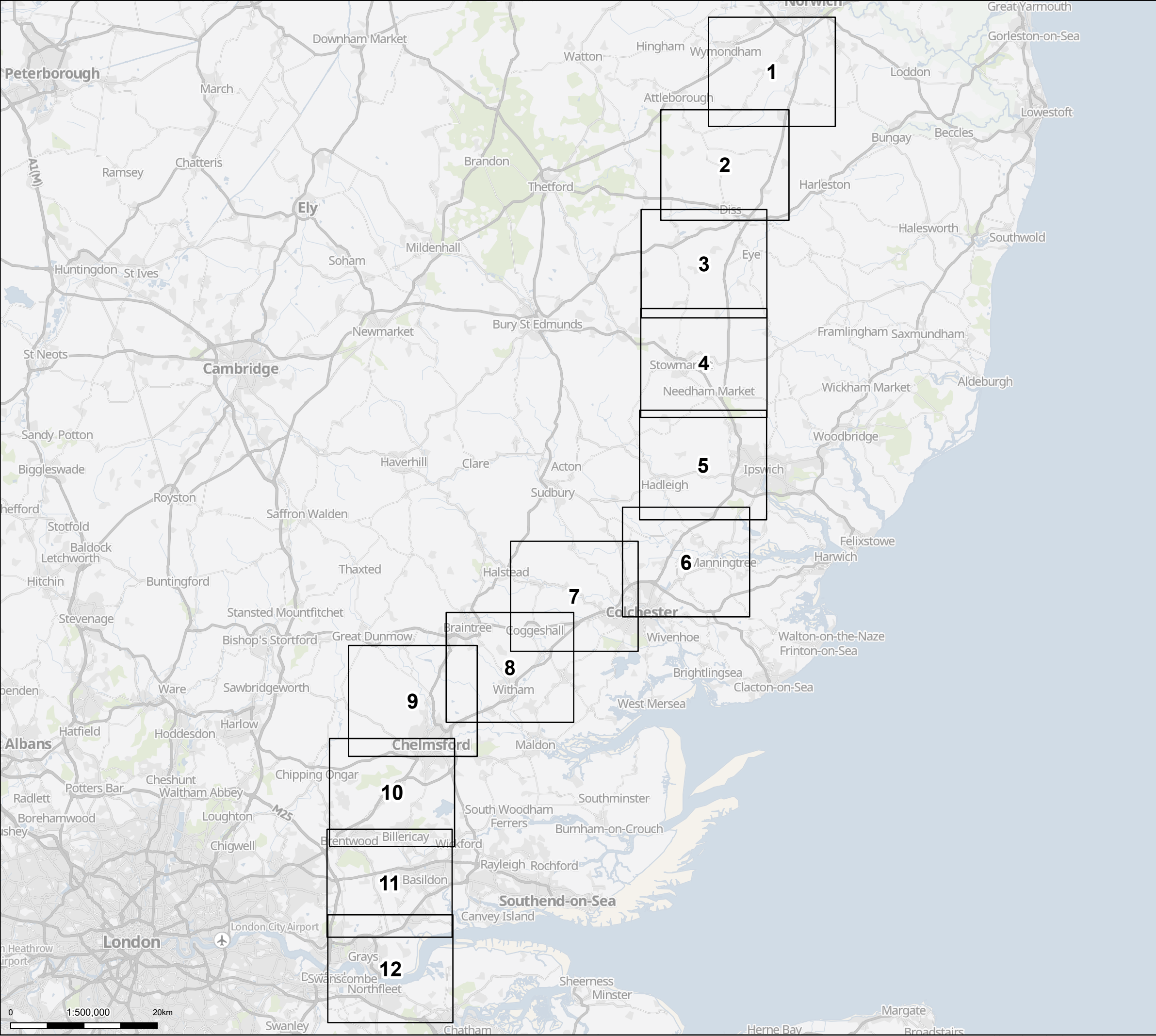
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Suitability Code:	A2	Project Number:	10059280


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PROJECT:  
Norwich to  
Tilbury

Title:

**Figure 13.2 - Landscape and Visual -  
Landform and Drainage  
Overview**

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Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
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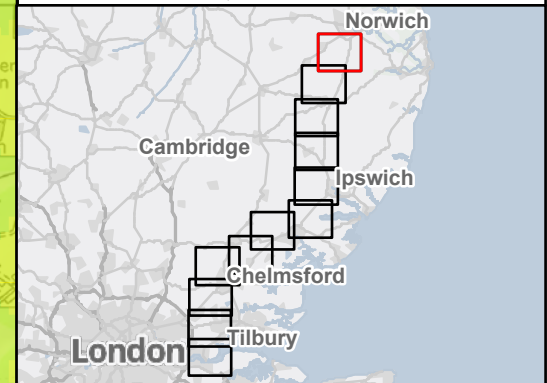
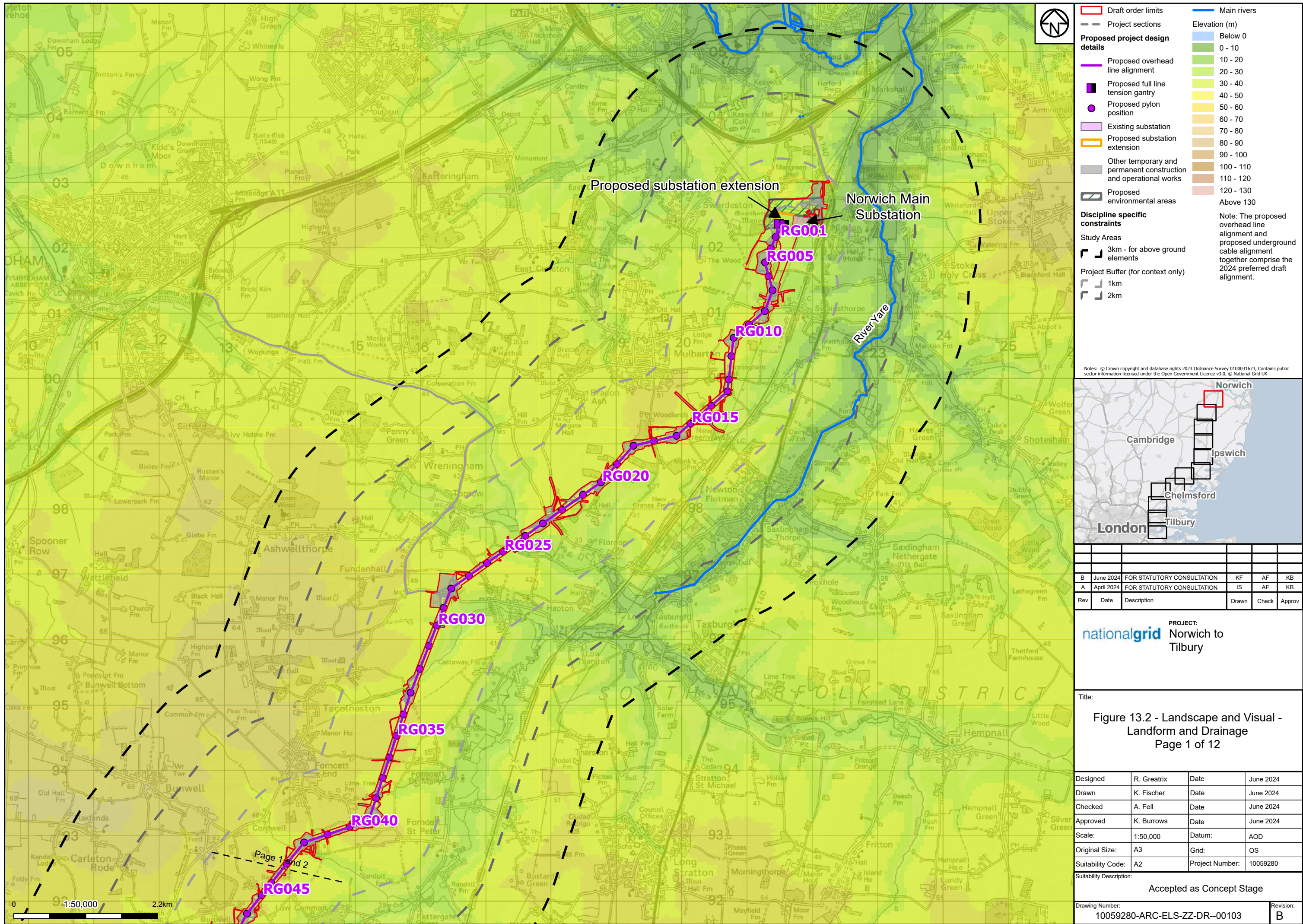
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**PROJECT:**  
nationalgrid Norwich to Tilbury

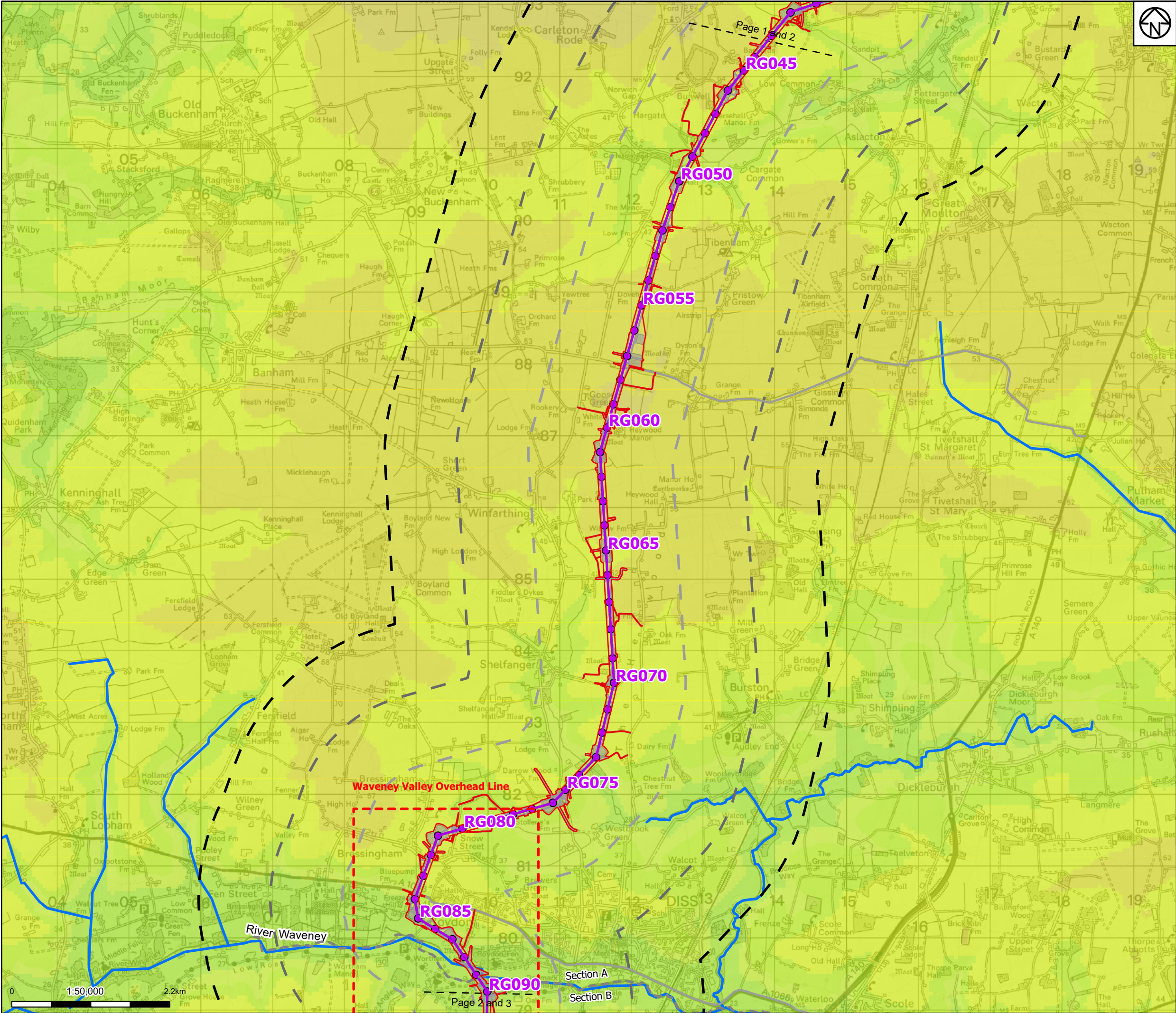
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Figure 13.2 - Landscape and Visual - Landform and Drainage  
Page 1 of 12

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Checked	A. Fell	Date	June 2024
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Suitability Code:	A2	Project Number:	10059280

**Suitability Description:**  
Accepted as Concept Stage

**Drawing Number:** 10059280-ARC-ELS-ZZ-DR--00103  
**Revision:** B





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

Study Areas

Project Buffer (for context only)

Main rivers

Elevation (m)

0 - 10

10 - 20

20 - 30

30 - 40

40 - 50

50 - 60

60 - 70

70 - 80

80 - 90

90 - 100

100 - 110

110 - 120

120 - 130

Above 130

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

3km - for above ground elements

1km

2km

Below 0

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PROJECT:

Norwich to Tilbury

Title:  
Figure 13.2 - Landscape and Visual - Landform and Drainage  
Page 2 of 12

Designed	R. Greatrix	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
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Accepted as Concept Stage

Drawing Number:  
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Revision:  
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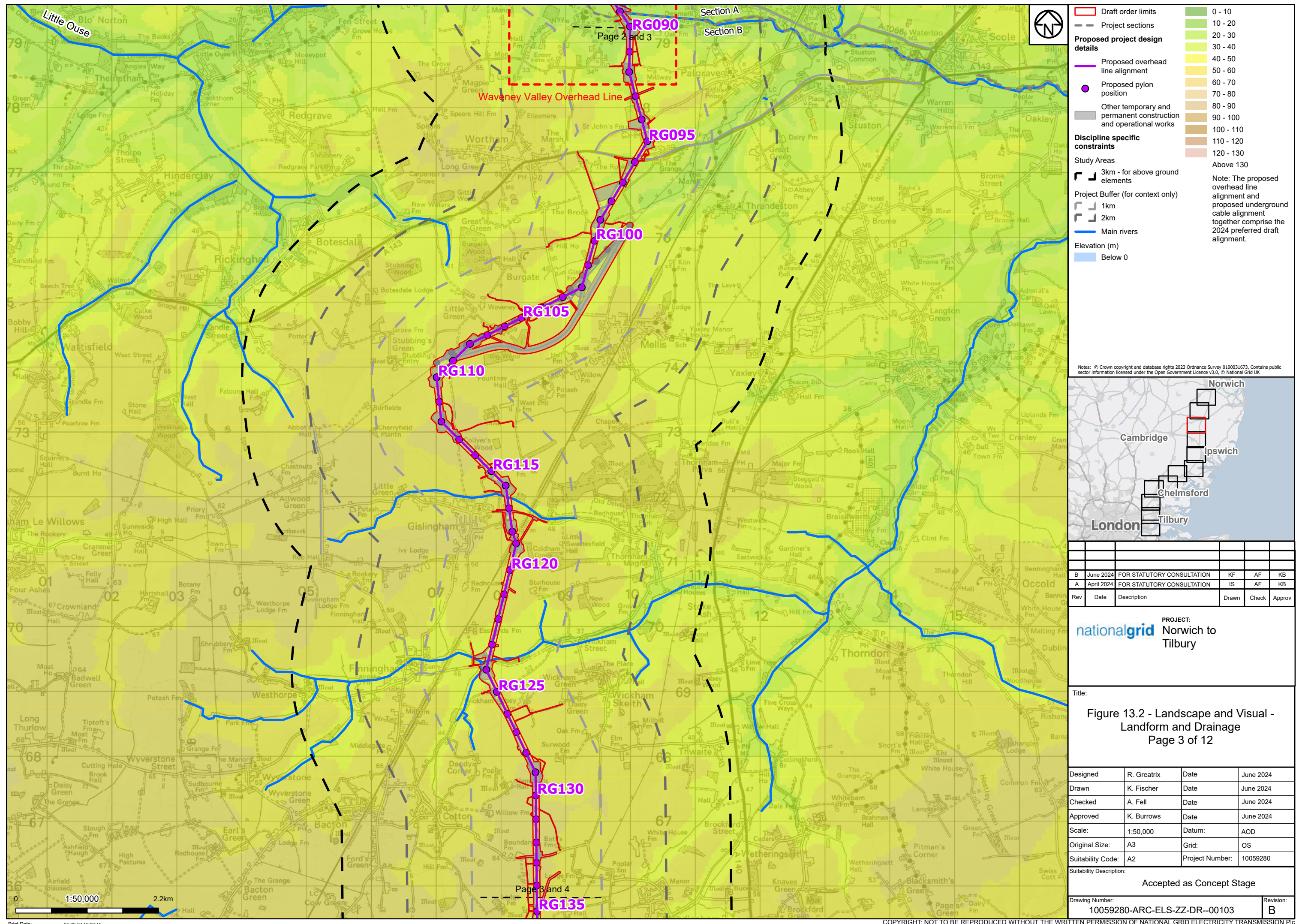
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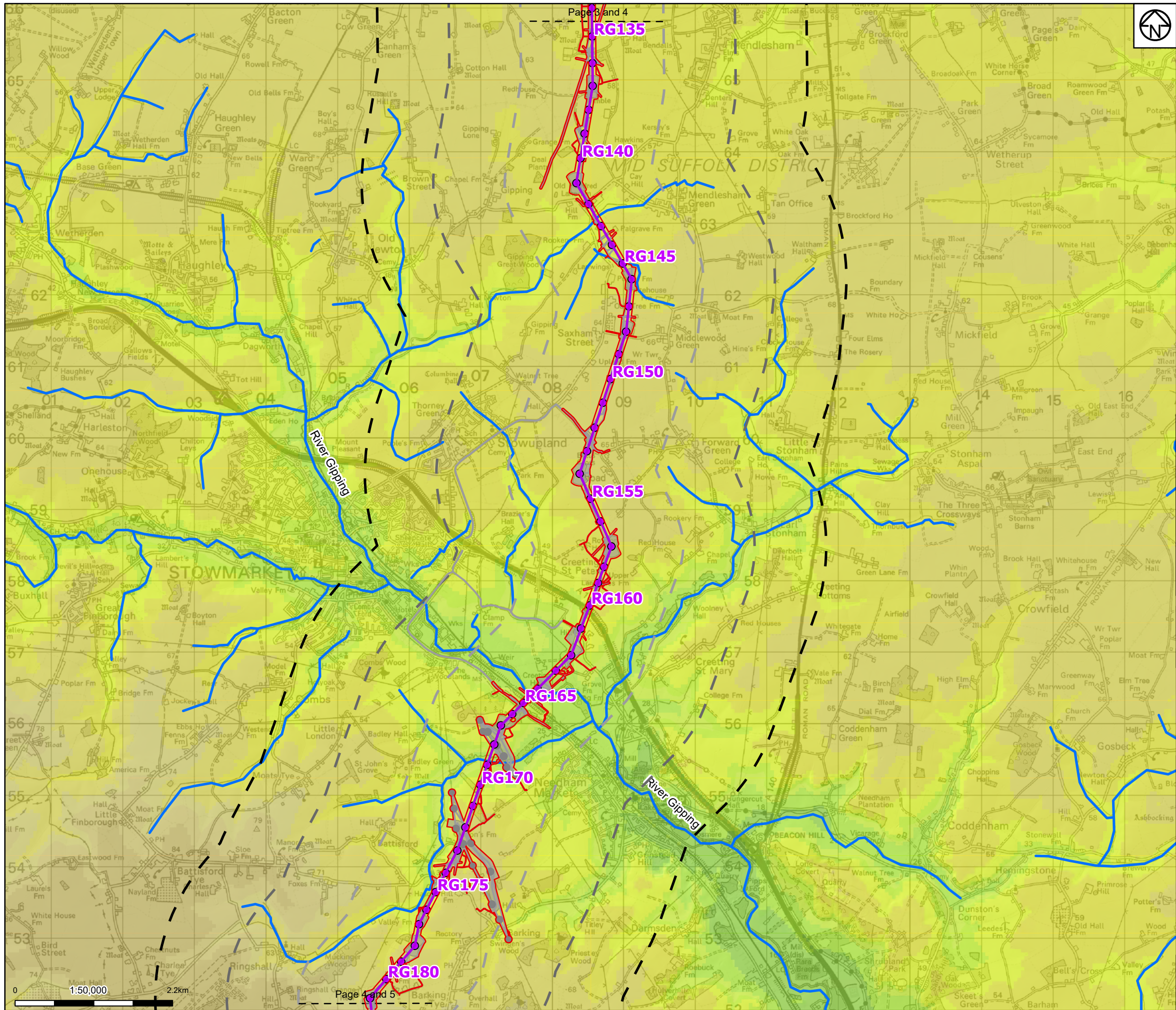












- Draft order limits

Project sections

Proposed project design details

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Study Areas

Project Buffer (for context only)

Elevation (m)

0 - 10

10 - 20

20 - 30

30 - 40

40 - 50

50 - 60

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70 - 80

80 - 90

90 - 100

100 - 110

110 - 120

120 - 130

Above 130

3km - for above ground elements

1km

2km

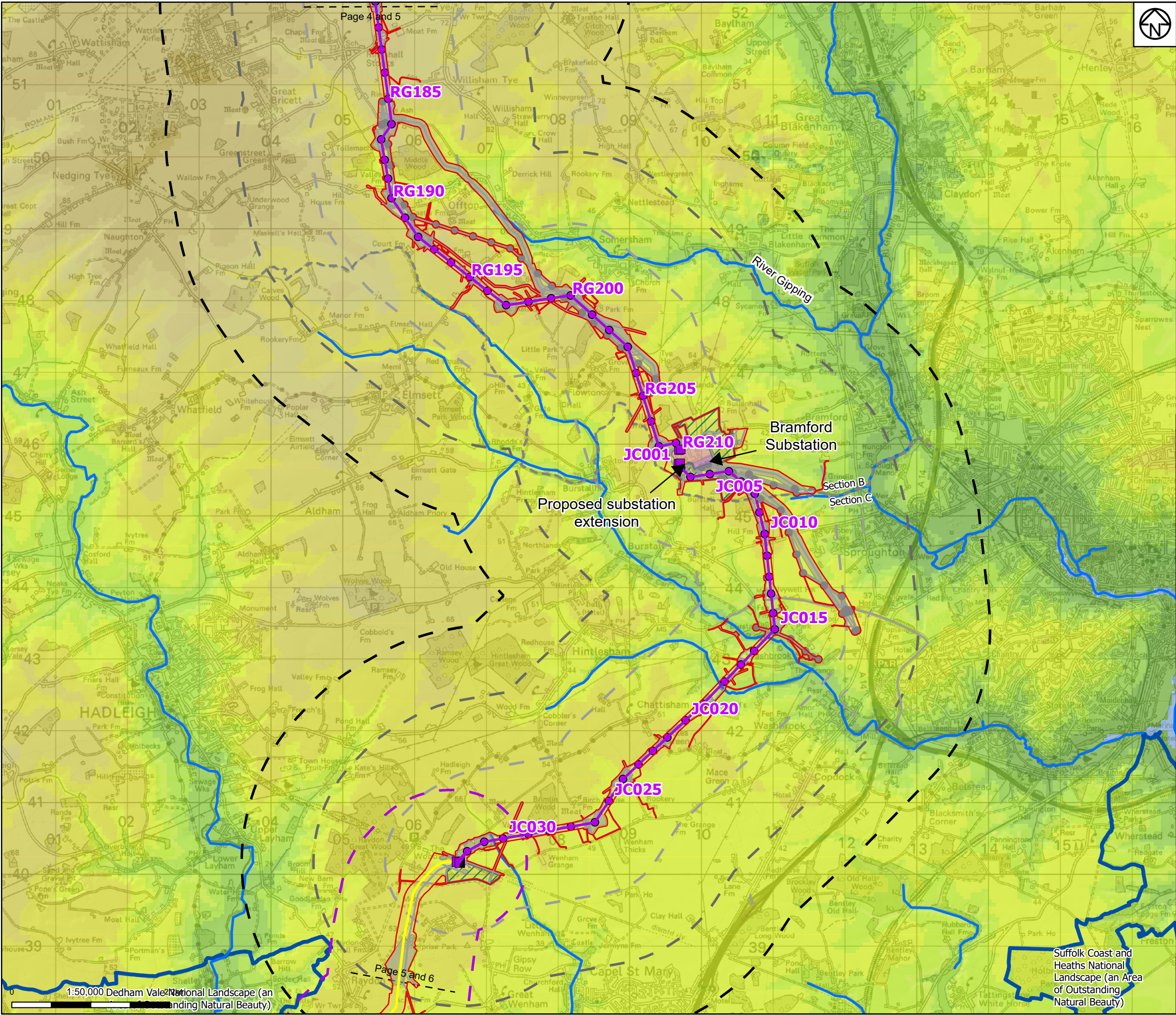
Main rivers

Below 0

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 13.2 - Landscape and Visual - Landform and Drainage  
Page 4 of 12
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| Drawn             | K. Fischer  | Date            | June 2024 |
| Checked           | A. Fell     | Date            | June 2024 |
| Approved          | K. Burrows  | Date            | June 2024 |
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- Suitability Description:  
Accepted as Concept Stage
- |                              |           |
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| Drawing Number:              | Revision: |
| 10059280-ARC-ELS-ZZ-DR-00103 | B         |





Draft order limits

Project sections

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

Study Areas

1km - for underground elements

3km - for above ground elements

Project Buffer (for context only)

1km

2km

Main rivers

National Landscapes (an AONB)

Elevation (m)

Below 0

0 - 10

10 - 20

20 - 30

30 - 40

40 - 50

50 - 60

60 - 70

70 - 80

80 - 90

90 - 100

100 - 110

110 - 120

120 - 130

Above 130

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 13.2 - Landscape and Visual - Landform and Drainage  
Page 5 of 12

Designed	R. Greatrix	Date	June 2024
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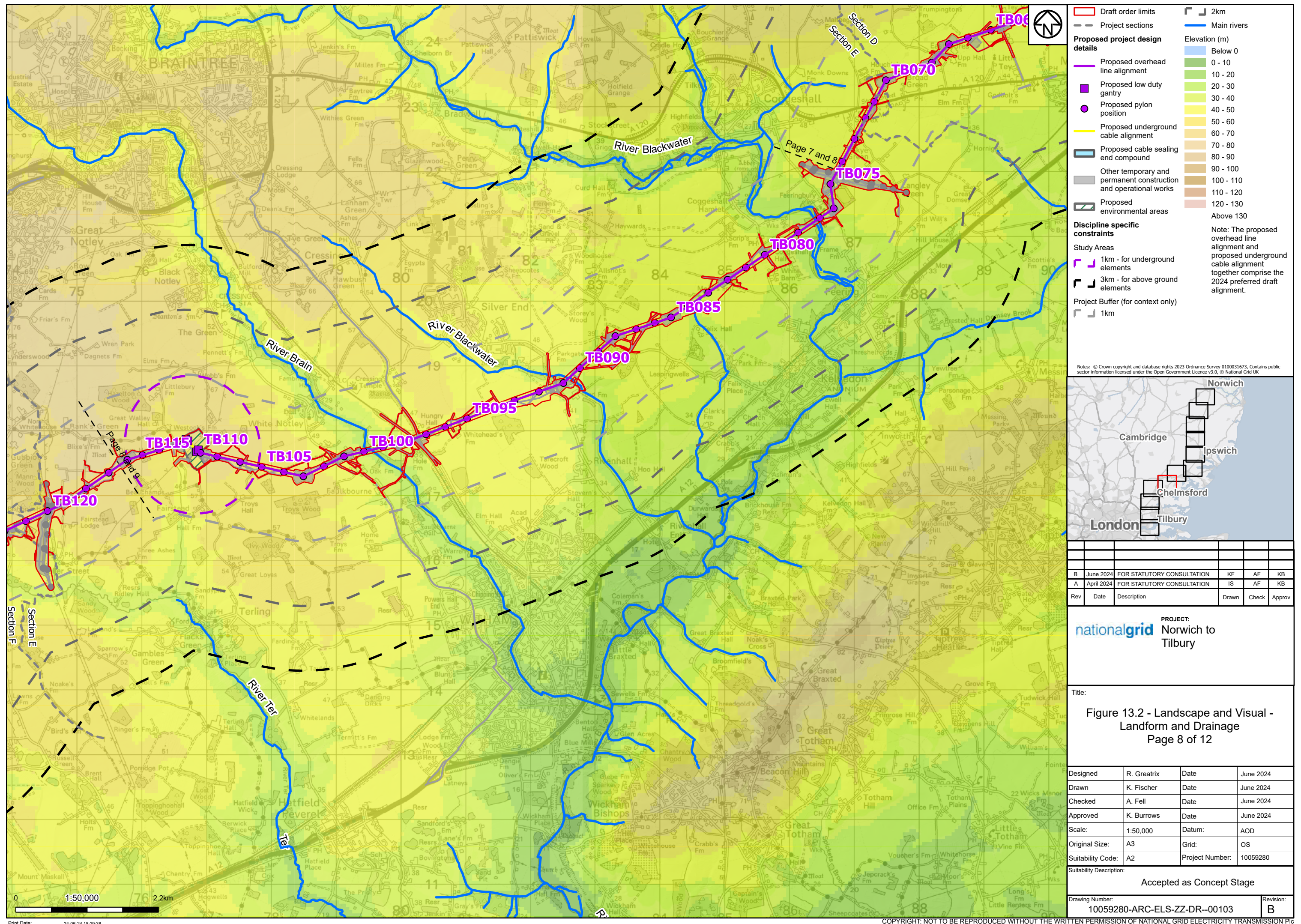








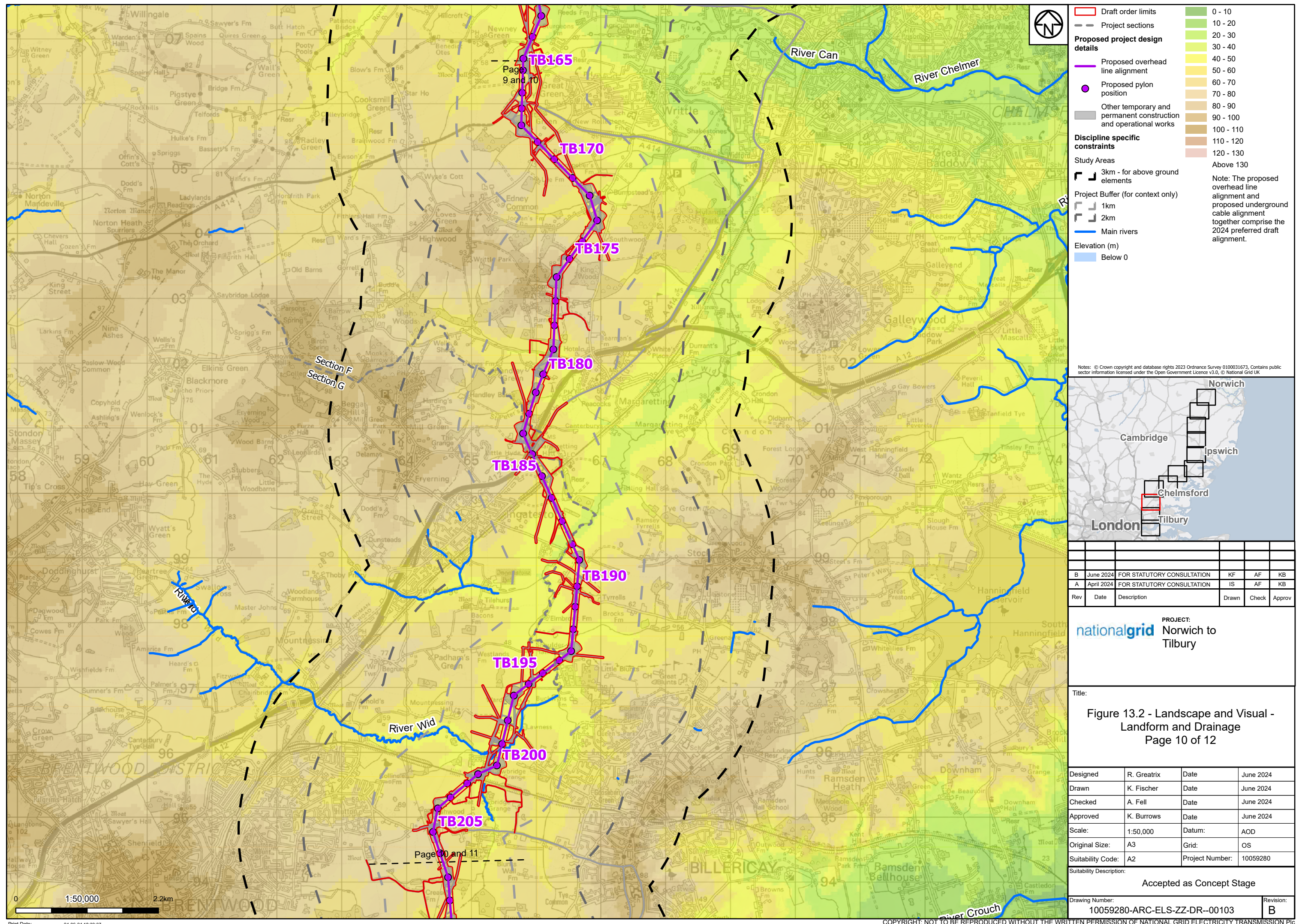




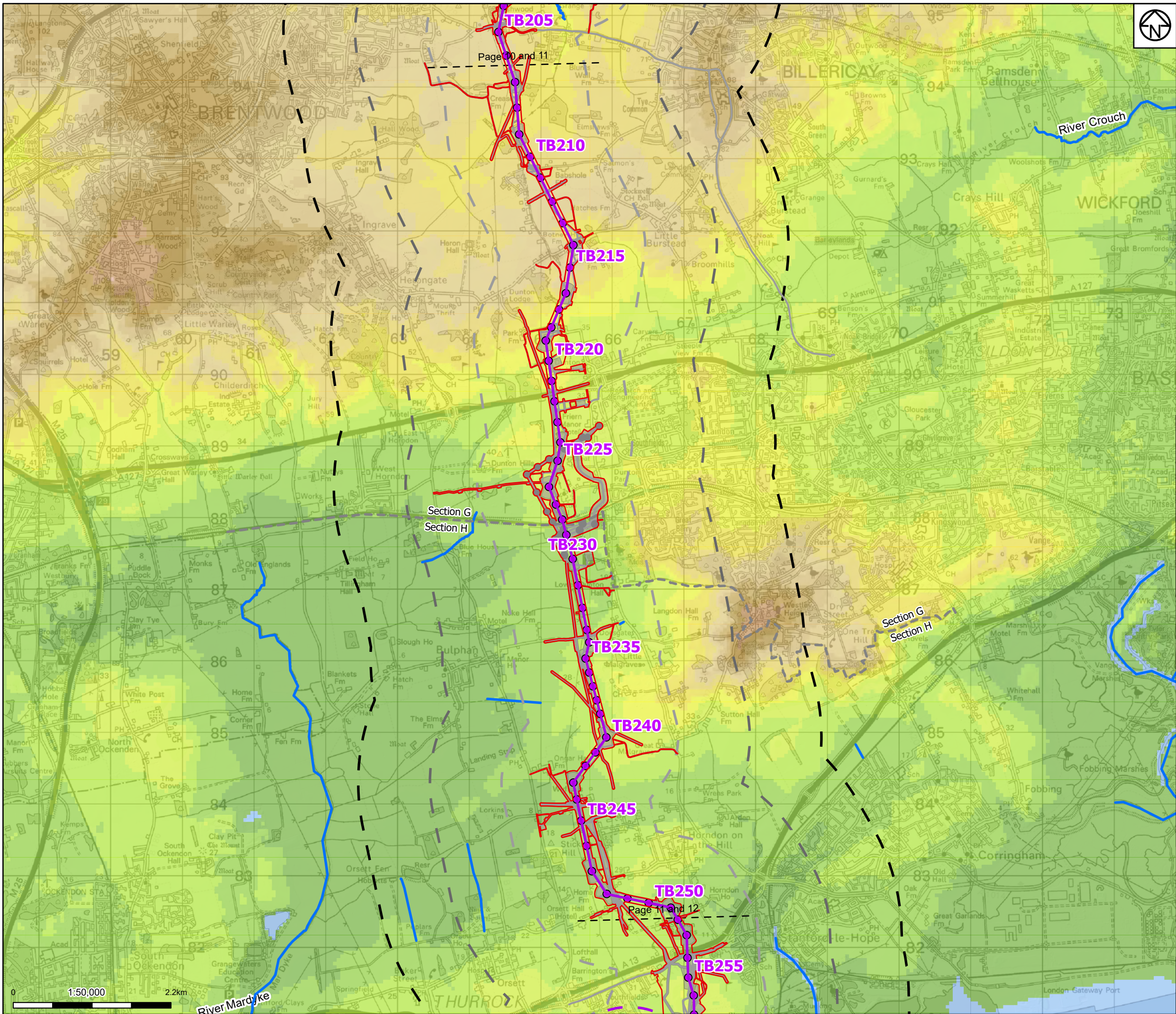






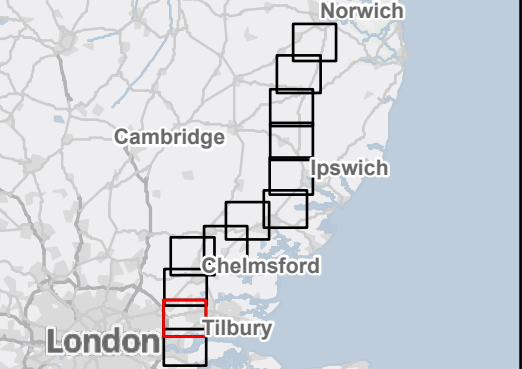






- Legend**
- Draft order limits
  - Project sections
  - Proposed project design details**
  - Proposed overhead line alignment
  - Proposed pylon position
  - Other temporary and permanent construction and operational works
  - Discipline specific constraints**
  - Study Areas**
  - 1km - for underground elements
  - 3km - for above ground elements
  - Project Buffer (for context only)
  - 1km
  - 2km
  - Main rivers
- Elevation (m)**
- Below 0
  - 0 - 10
  - 10 - 20
  - 20 - 30
  - 30 - 40
  - 40 - 50
  - 50 - 60
  - 60 - 70
  - 70 - 80
  - 80 - 90
  - 90 - 100
  - 100 - 110
  - 110 - 120
  - 120 - 130
  - Above 130
- 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 13.2 - Landscape and Visual - Landform and Drainage  
Page 11 of 12

Designed	R. Greatrix	Date	June 2024
Drawn	K. Fischer	Date	June 2024
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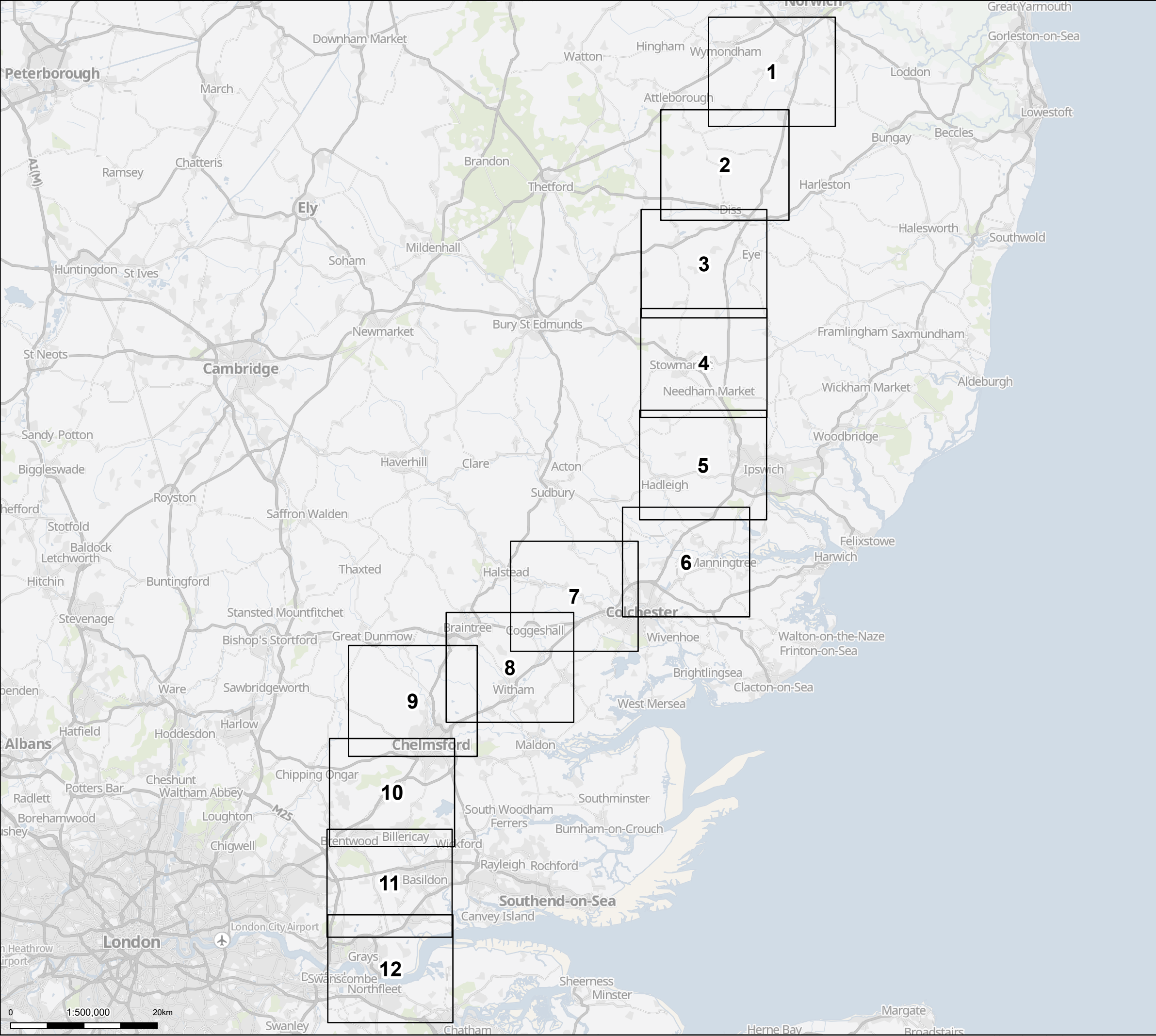
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PROJECT:  
Norwich to  
Tilbury

Title:

Figure 13.3 - Landscape and Visual -  
Trees and Woodland  
Overview

Designed	R. Greatrix	Date	June 2024
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Approved	K. Burrows	Date	June 2024
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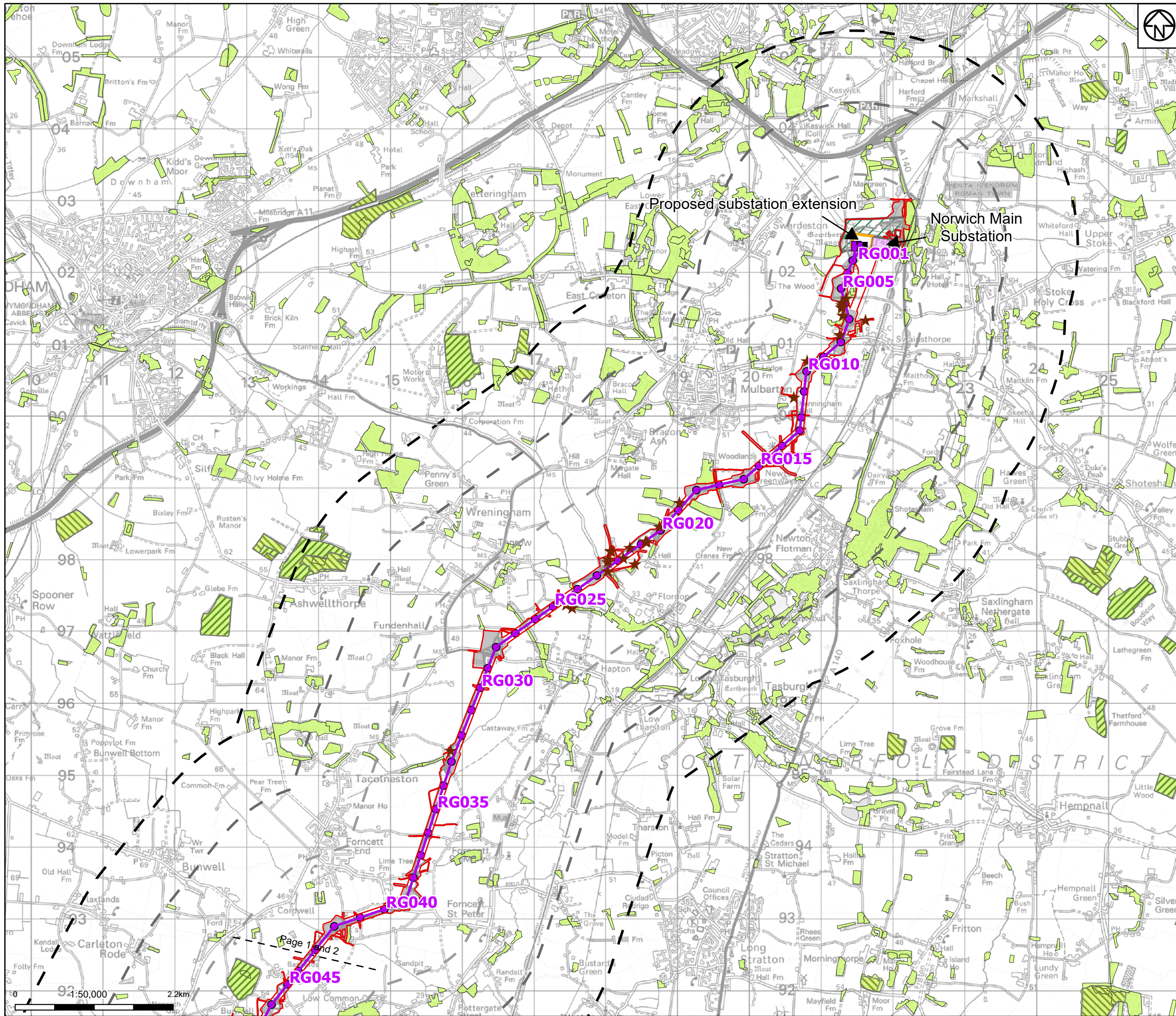
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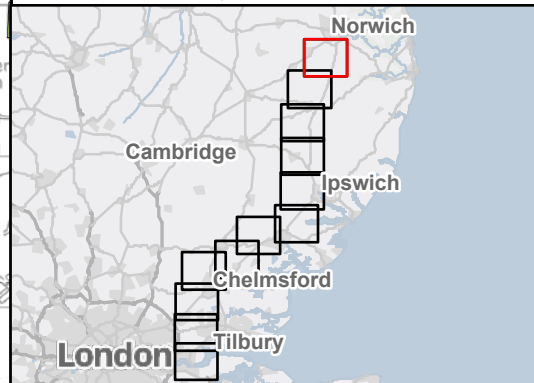
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  - Proposed overhead line alignment
  - Proposed full line tension gantry
  - Proposed pylon position
  - Existing substation
  - Proposed substation extension
  - Other temporary and permanent construction and operational works
  - Proposed environmental areas

Discipline specific constraints

- Study Areas
- 3km - for above ground elements
- Project Buffer (for context only)
- 1km
  - 2km
- Veteran trees
  - Ancient & Semi-Natural Woodland
  - Ancient Replanted Woodland
  - National Forest Inventory Woodland

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

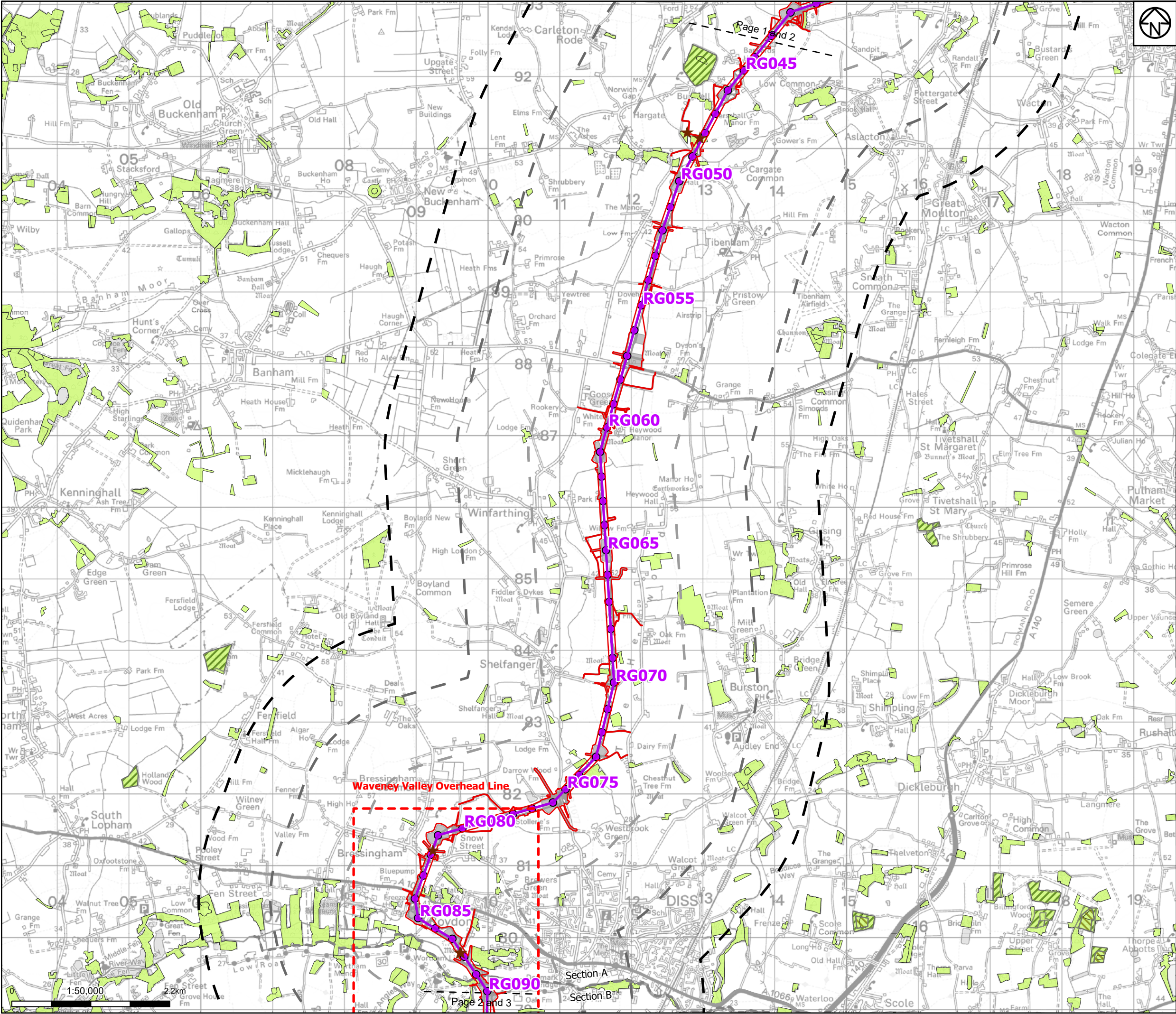
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Trees and Woodland  
Page 1 of 12

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Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

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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

Study Areas

3km - for above ground elements

Project Buffer (for context only)

1km

2km

Veteran trees

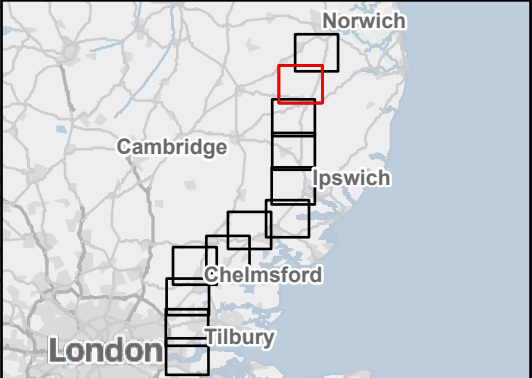
Ancient & Semi-Natural Woodland

Ancient Replanted Woodland

National Forest Inventory Woodland

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 13.3 - Landscape and Visual - Trees and Woodland

Page 2 of 12

Designed	R. Greatrix	Date	June 2024
Drawn	K. Fischer	Date	June 2024
Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:50,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number:

10059280-ARC-ELS-ZZ-DR--00103

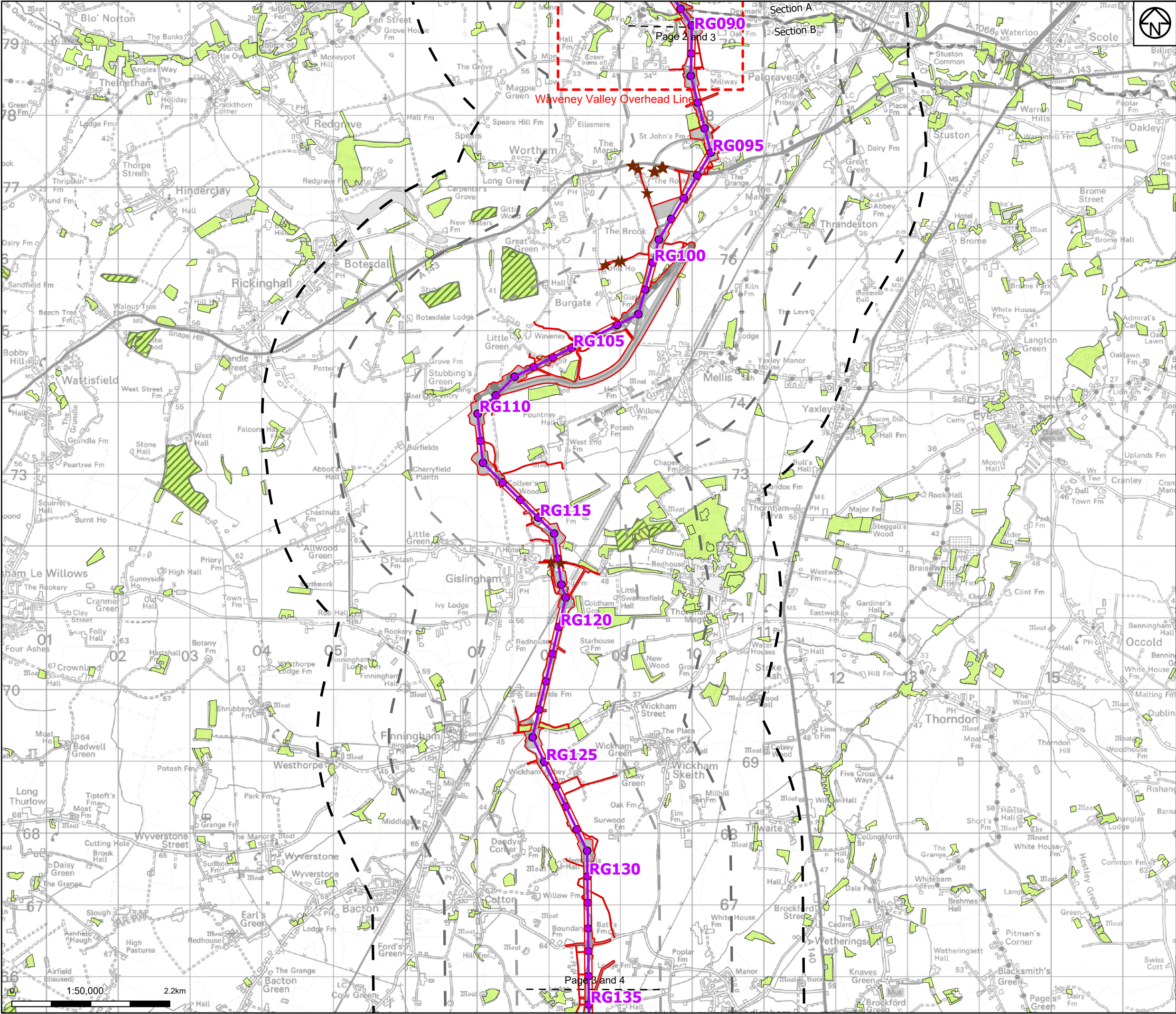
Revision:

B









Draft order limits

Project sections

Proposed overhead line alignment

Proposed pylon position

Other temporary and permanent construction and operational works

Discipline specific constraints

Study Areas

3km - for above ground elements

Project Buffer (for context only)

1km

2km

Veteran trees

Ancient & Semi-Natural Woodland

Ancient Replanted Woodland

National Forest Inventory Woodland

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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Rev	Date	Description	Drawn	Check	Approv

PROJECT:

nationalgrid

Norwich to Tilbury

Title:

Figure 13.3 - Landscape and Visual - Trees and Woodland

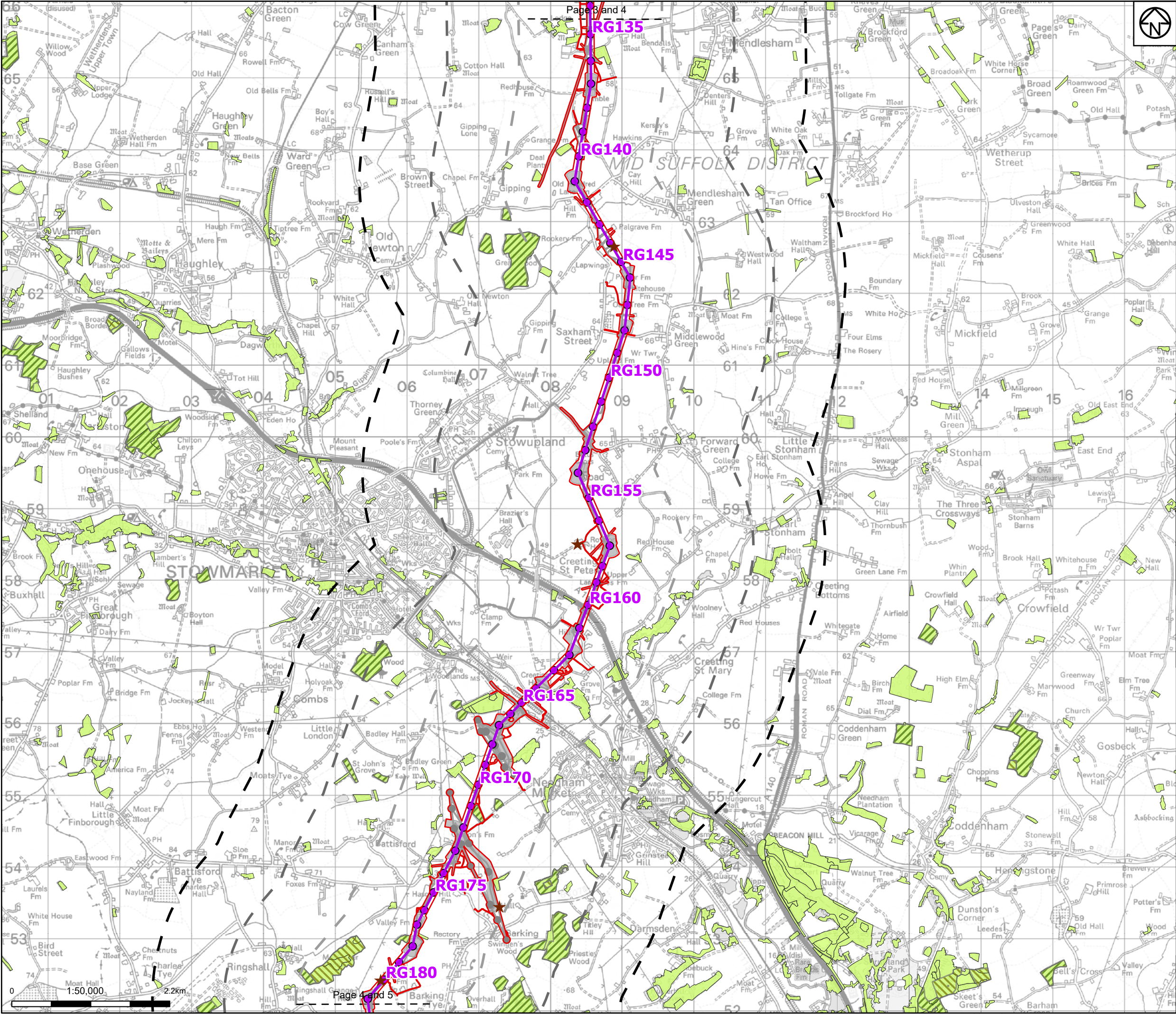
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Checked	A. Fell	Date	June 2024
Approved	K. Burrows	Date	June 2024
Scale:	1:50,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280
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Drawing Number:	10059280-ARC-ELS-ZZ-DR-00103		Revision:
			B

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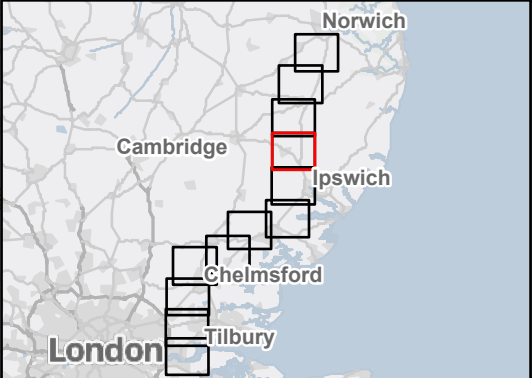
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- Legend**
- Draft order limits
  - Proposed project design details**
    - Proposed overhead line alignment
    - Proposed pylon position
    - Other temporary and permanent construction and operational works
  - Discipline specific constraints**
    - Study Areas
      - 3km - for above ground elements
    - Project Buffer (for context only)
      - 1km
      - 2km
    - Veteran trees
    - Ancient & Semi-Natural Woodland
    - Ancient Replanted Woodland
    - National Forest Inventory Woodland
  - 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 13.3 - Landscape and Visual -  
Trees and Woodland**  
Page 4 of 12

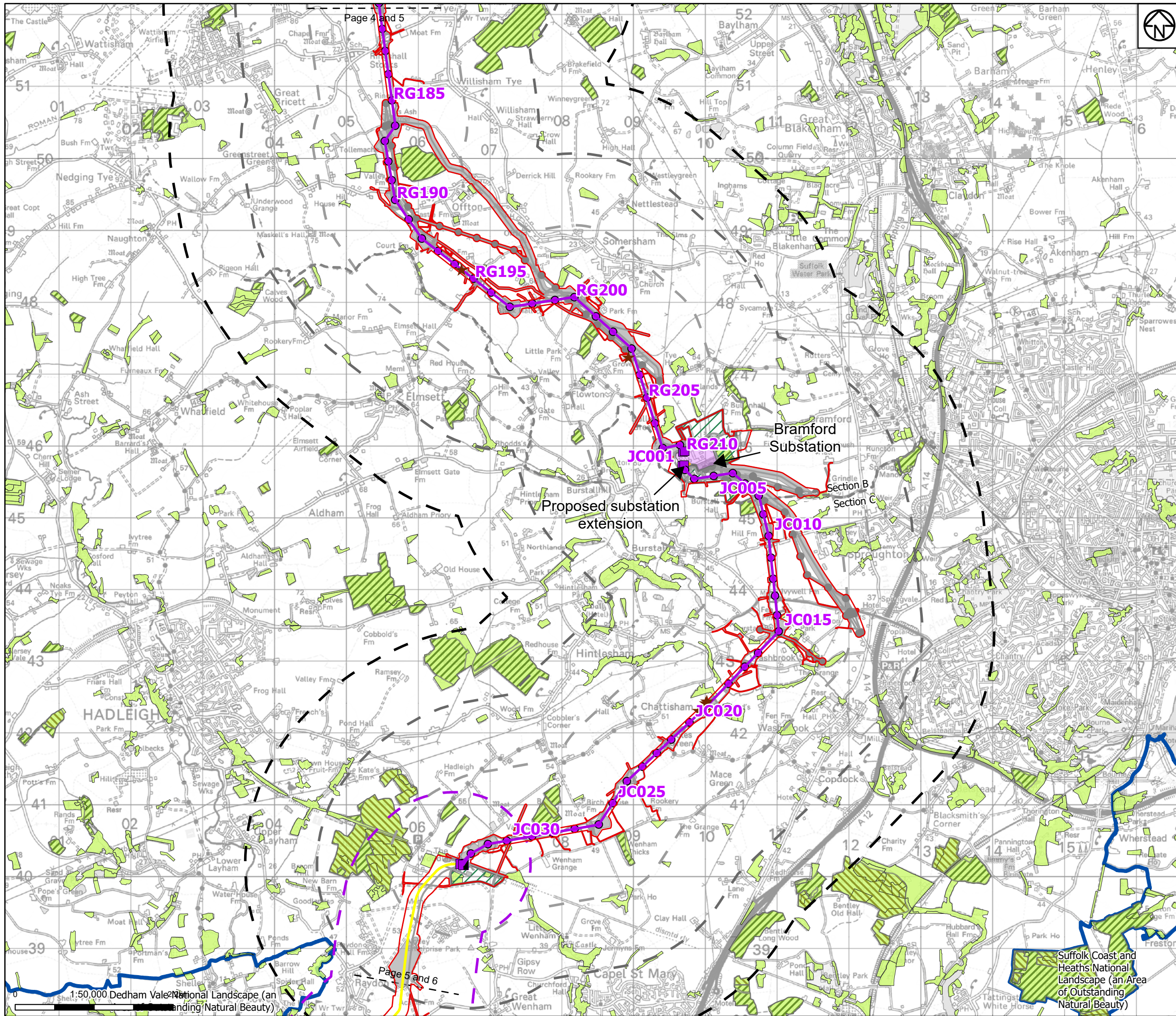
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:  
Accepted as Concept Stage

Drawing Number:  
10059280-ARC-ELS-ZZ-DR-00103

Revision:  
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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

Study Areas

1km - for underground elements

3km - for above ground elements

Project Buffer (for context only)

1km

2km

Veteran trees

Ancient & Semi-Natural Woodland

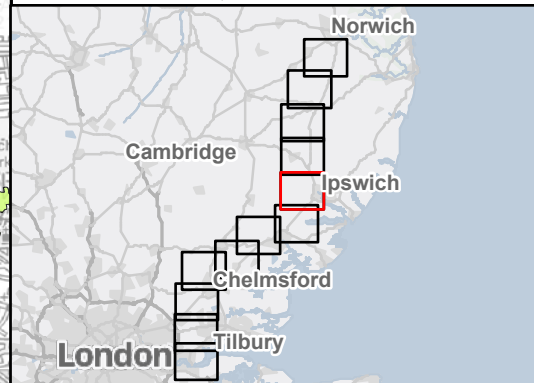
Ancient Replanted Woodland

National Forest Inventory Woodland

National Landscapes (an AONB)

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PROJECT:  
Norwich to  
Tilbury

Title:  
  
Figure 13.3 - Landscape and Visual -  
Trees and Woodland  
Page 5 of 12

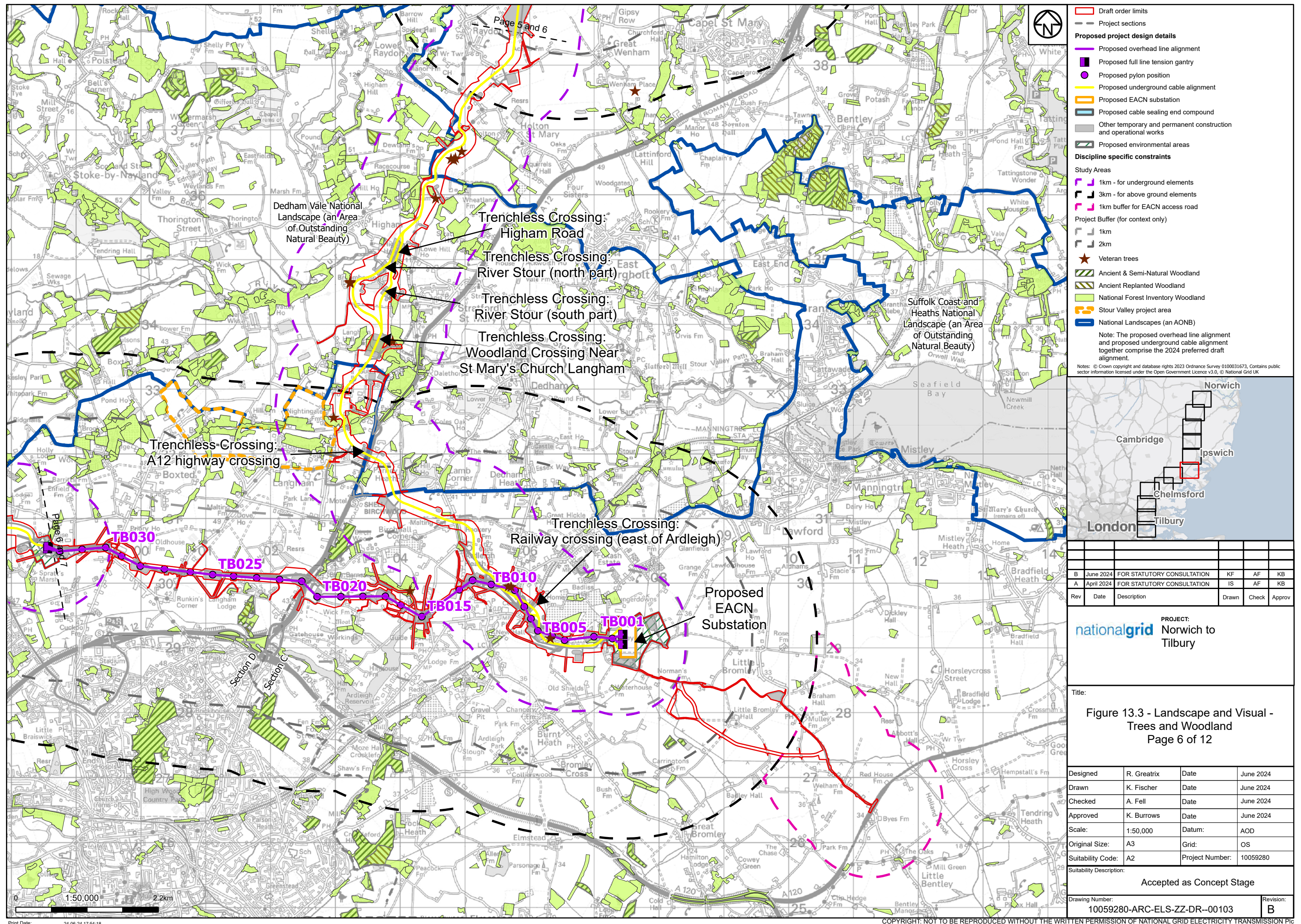
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:  
  
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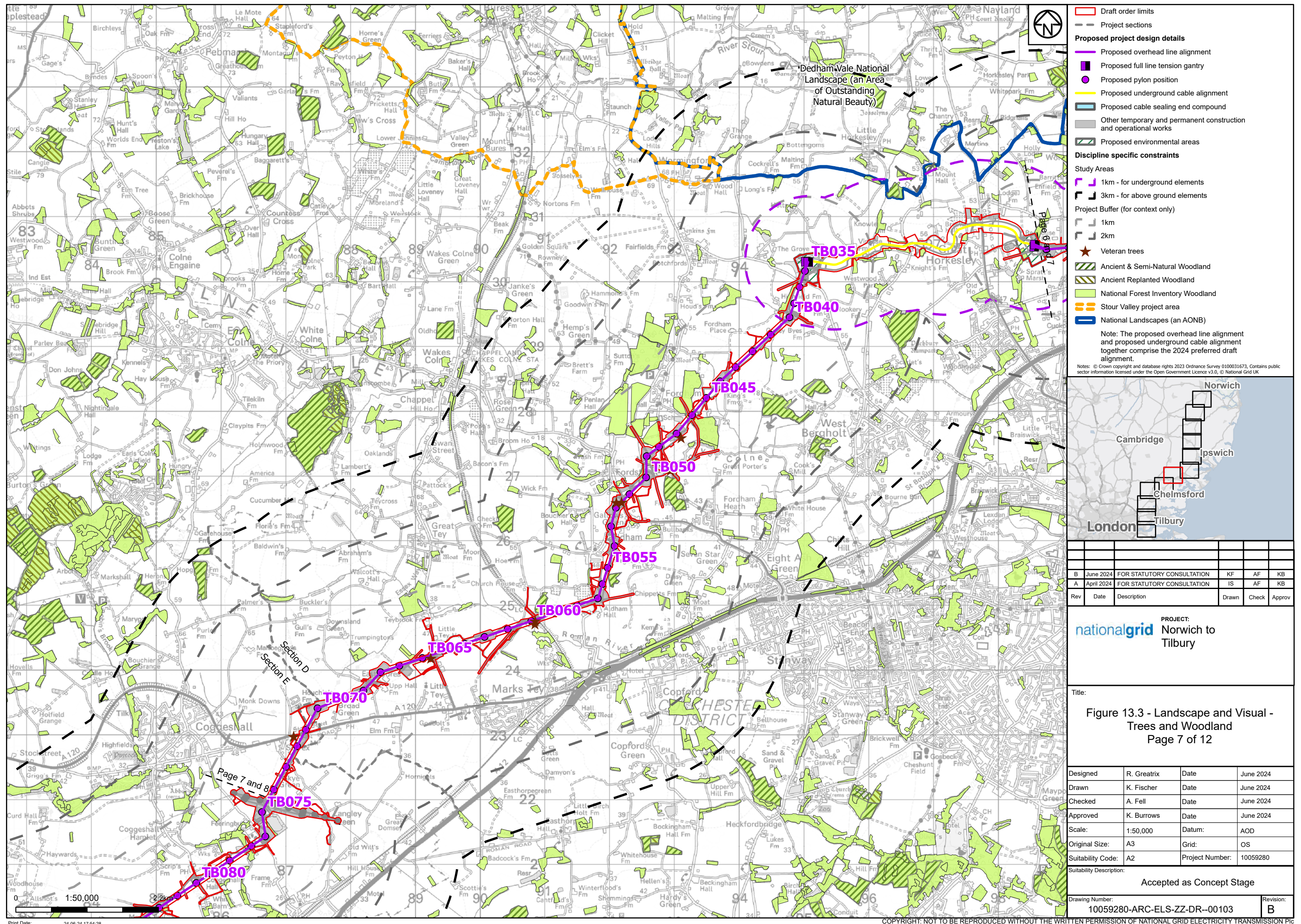
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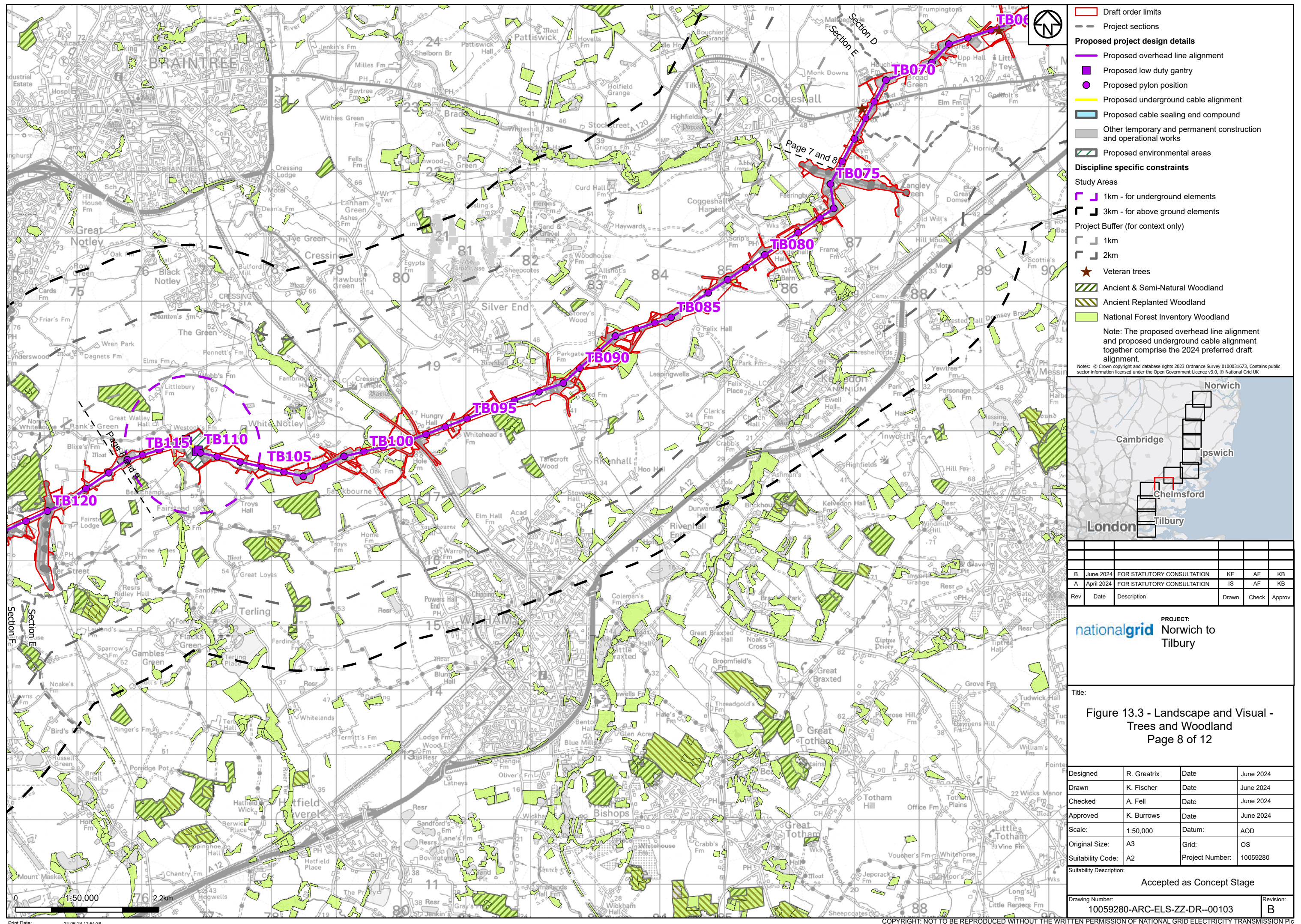




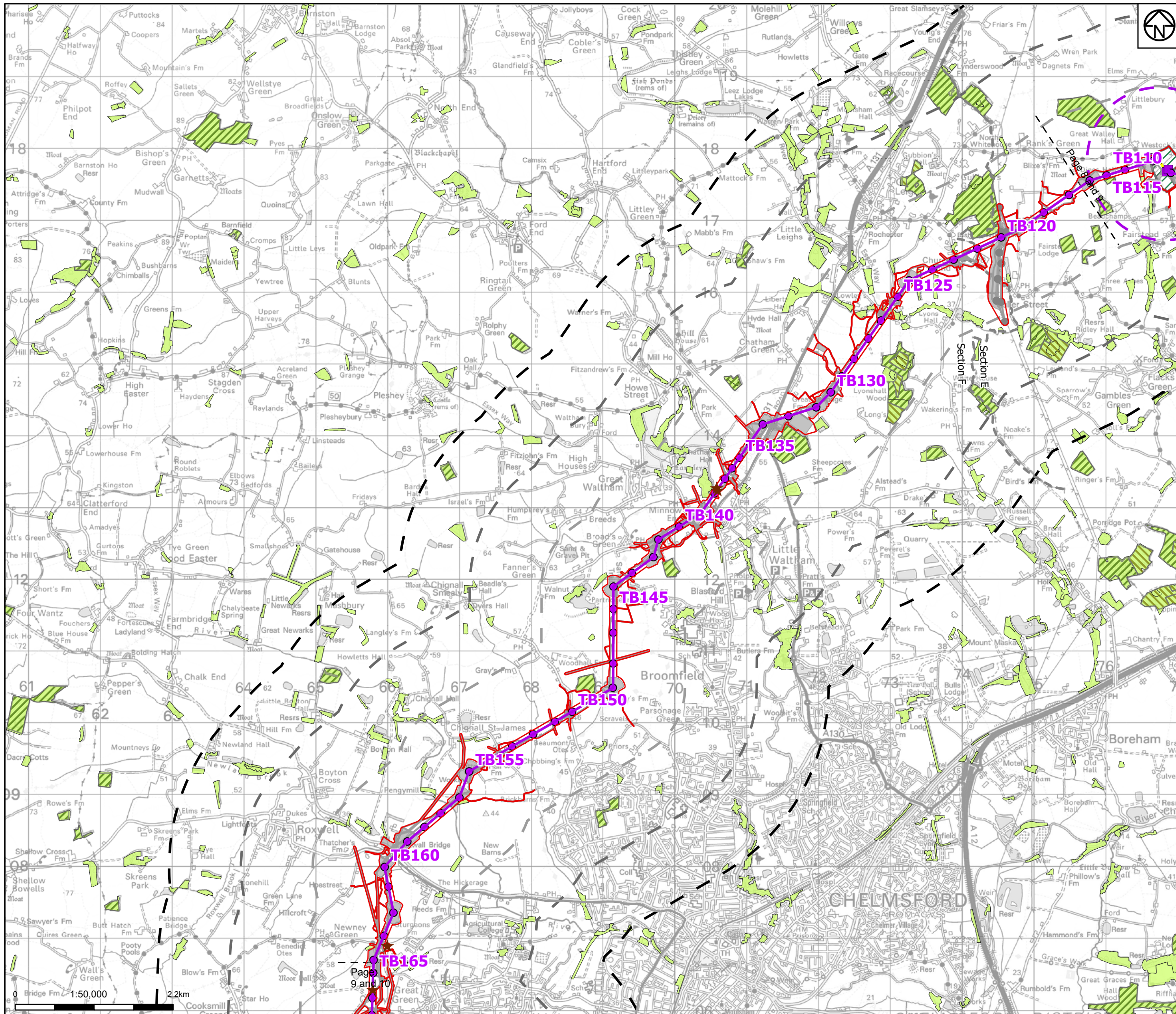




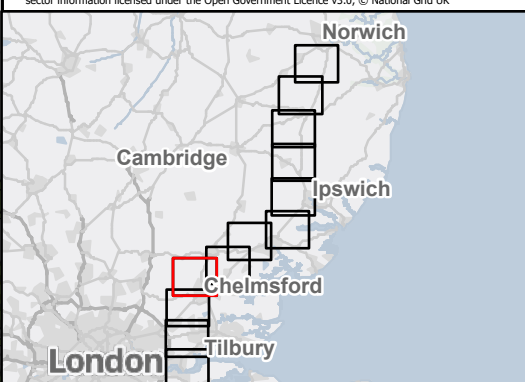








- Draft order limits
- Project sections
- Proposed project design details**
  - Proposed overhead line alignment
  - Proposed low duty gantry
  - Proposed pylon position
  - Proposed underground cable alignment
  - Proposed cable sealing end compound
  - Other temporary and permanent construction and operational works
  - Proposed environmental areas
- Discipline specific constraints**
  - Study Areas**
    - 1km - for underground elements
    - 3km - for above ground elements
  - Project Buffer (for context only)**
    - 1km
    - 2km
  - Veteran trees
  - Ancient & Semi-Natural Woodland
  - Ancient Replanted Woodland
  - National Forest Inventory Woodland
- 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

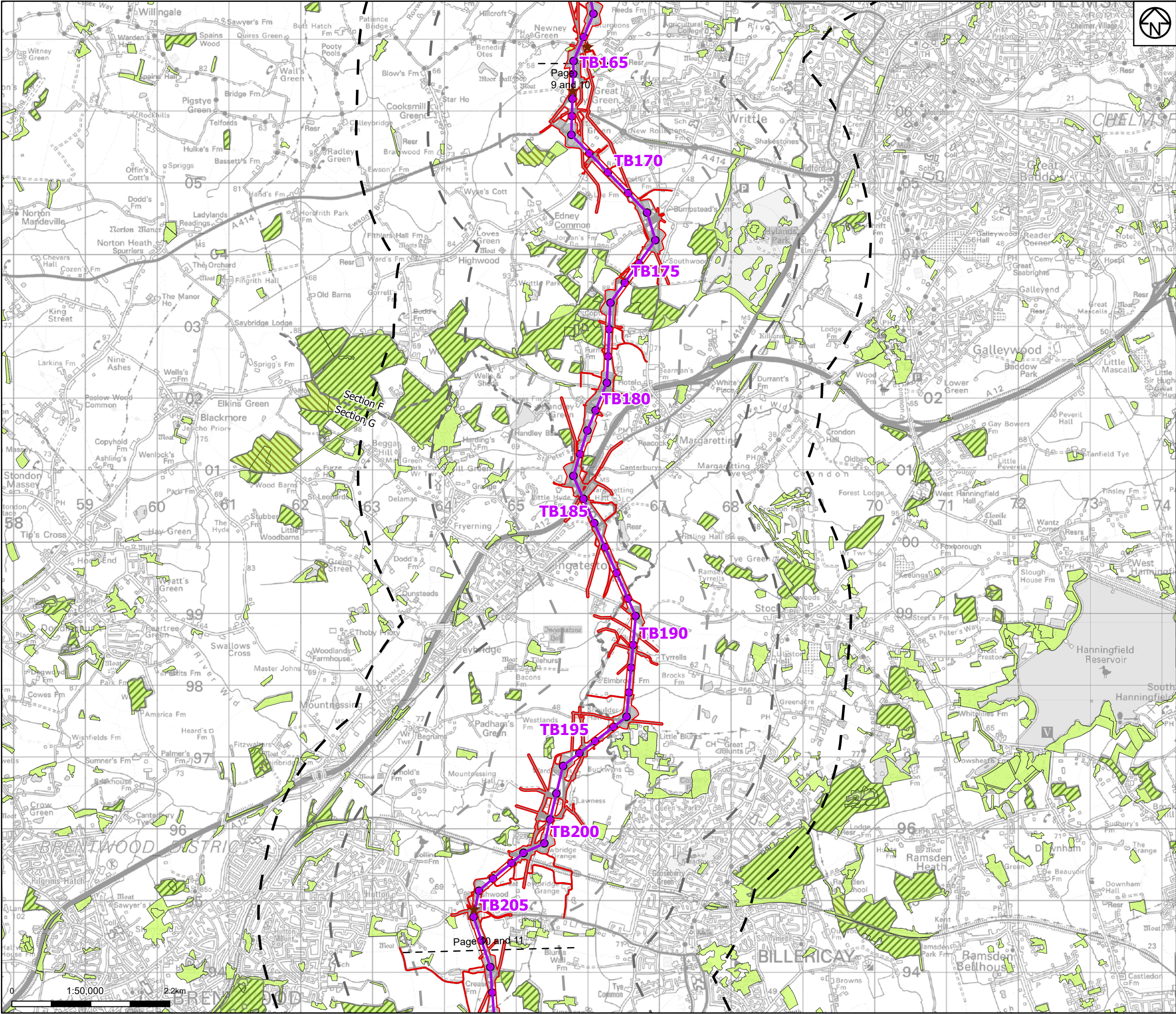
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**Figure 13.3 - Landscape and Visual - Trees and Woodland**  
Page 9 of 12

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Suitability Code:	A2	Project Number:	10059280

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Revision: B





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

Study Areas

3km - for above ground elements

Project Buffer (for context only)

1km

2km

Veteran trees

Ancient & Semi-Natural Woodland

Ancient Replanted Woodland

National Forest Inventory Woodland

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 13.3 - Landscape and Visual -  
Trees and Woodland  
Page 10 of 12

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Suitability Description:

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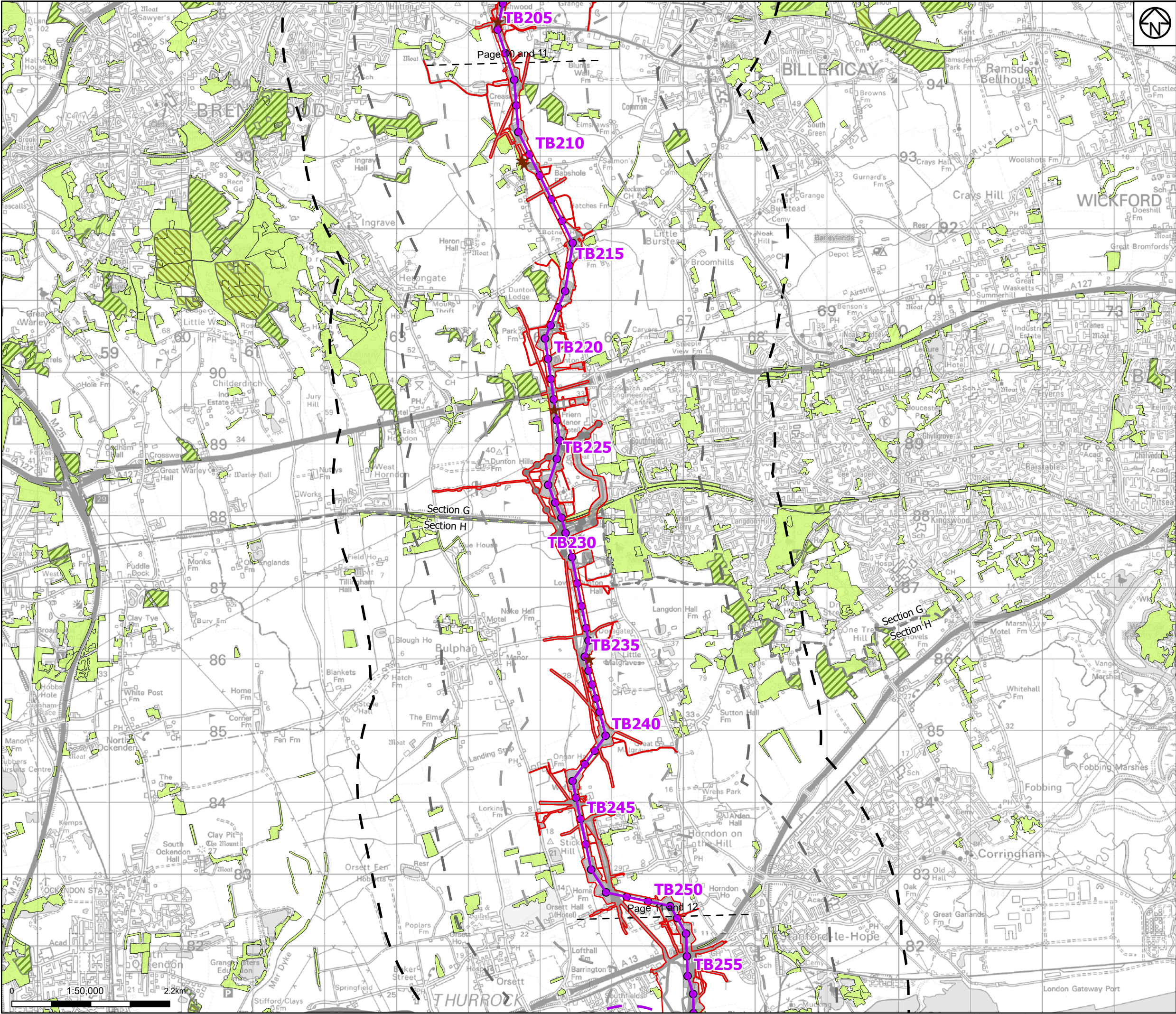
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**Legend**

**Proposed project design details**

- Proposed overhead line alignment
- Proposed pylon position
- Other temporary and permanent construction and operational works

**Discipline specific constraints**

**Study Areas**

- 1km - for underground elements
- 3km - for above ground elements

**Project Buffer (for context only)**

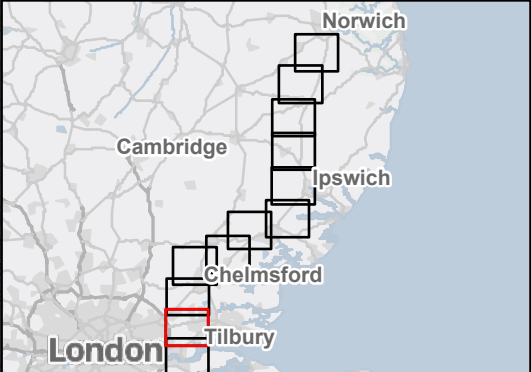
- 1km
- 2km

**Other features**

- Veteran trees
- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland
- National Forest Inventory Woodland

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**PROJECT:**  
Norwich to Tilbury

**Title:**  
Figure 13.3 - Landscape and Visual - Trees and Woodland  
Page 11 of 12

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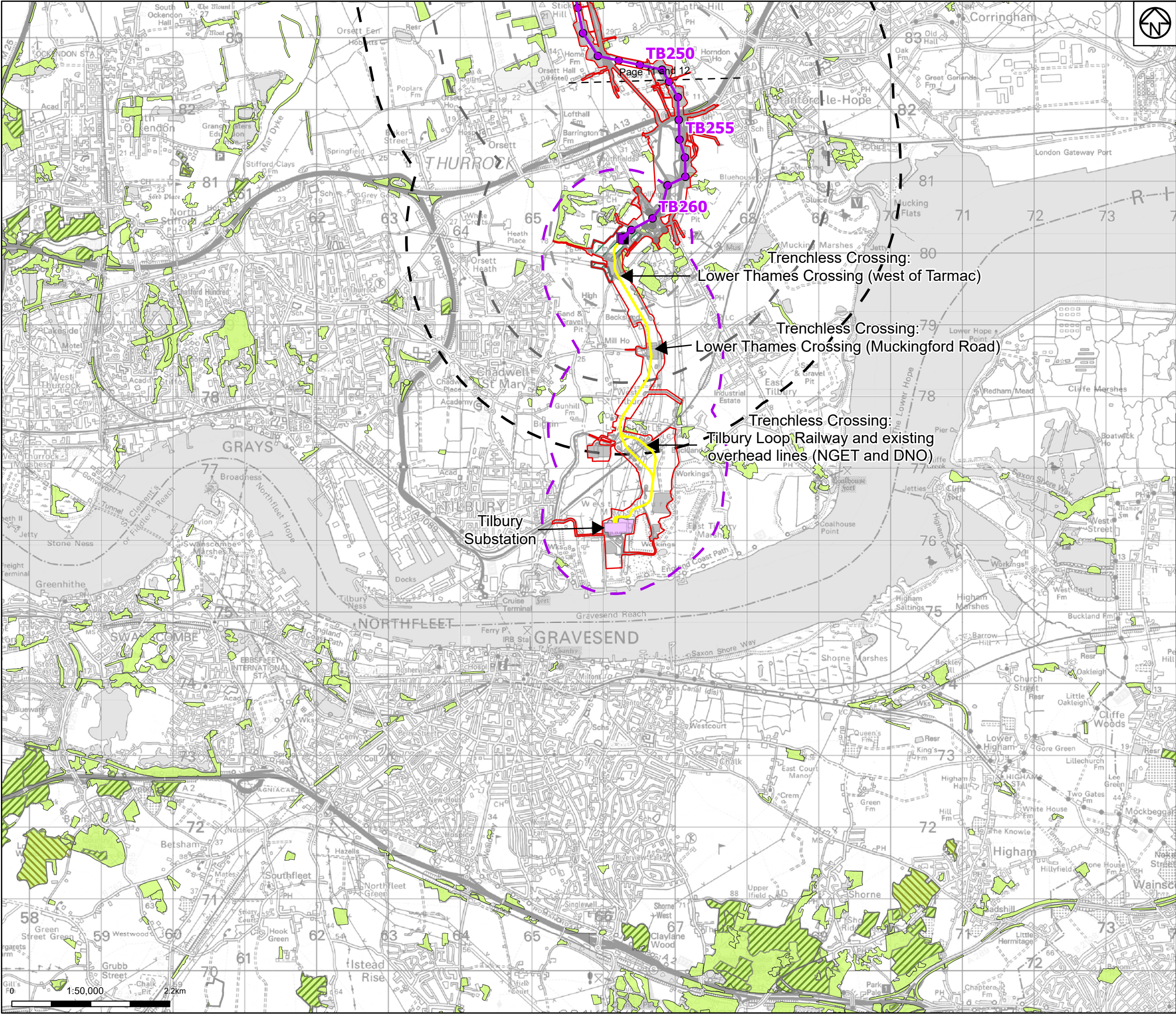
Suitability Description:

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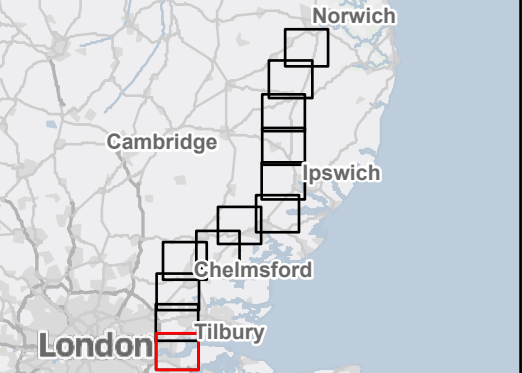
Revision: B





- Legend**
- Draft order limits
  - Proposed project design details**
    - Proposed overhead line alignment
    - Proposed full line tension gantry
    - Proposed pylon position
    - Proposed underground cable alignment
    - Existing substation
    - Proposed cable sealing end compound
    - Other temporary and permanent construction and operational works
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  - Discipline specific constraints**
    - Study Areas**
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**PROJECT:**  
nationalgrid Norwich to Tilbury

Title:  
Figure 13.3 - Landscape and Visual - Trees and Woodland  
Page 12 of 12

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