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Norwich to Tilbury

Volume 6: Environmental Statement

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Report (redacted) - Clean Version

Final Issue C

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nationalgrid

Revision History

Version	Date	Submitted at
A	29 August 2025	DCO Application
B	17 November 2025	Providing supplementary environmental information to Responses to advice provided under section 51 of the Planning Act 2008 by the Planning Inspectorate
C	21 July 2026	Deadline 7 to include latest cross references

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1. Introduction

1.1 Background

- 1.1.1 This report has been produced as an appendix to Chapter 8: Ecology and Biodiversity (document reference 6.8) (Revision C) of the Environment Statement (ES) (Volume 6 of the Development Consent Order (DCO) application) for Norwich to Tilbury (the 'Project').
- 1.1.2 The ecological background and the scope for badger *Meles meles* surveys is set out in the Environmental Impact Assessment (EIA) Scoping Report (document reference 6.19) and agreed within the EIA Scoping Opinion received from the Planning Inspectorate in December 2022 (document reference 6.20).
- 1.1.3 It is anticipated that badgers are widespread throughout the Order Limits. Badgers may be affected during construction through, for example, habitat loss/fragmentation and loss of/damage to/disturbance of setts which would constitute a breach of legislation.
- 1.1.4 Should consent be granted it is anticipated that construction of the Project would commence in 2027. As small badger setts can appear (as well as be abandoned) at any time, the survey focussed on main badger setts. As agreed through consultation with Natural England with respect to the Project, further badger survey work relating to all other badger setts would be undertaken as part of the pre-construction works, to ensure adherence to legislation and animal welfare. Pre-construction surveys and sett classifications would follow 'Surveying Badgers' (Harris *et al.*, 1989). In compliance with the Protection of Badgers Act 1992, all information related to badger including survey methodology and baseline information is presented in this Confidential Appendix. Release of this document will only be to the Planning Inspectorate, and on request from suitably qualified professionals.
- 1.1.5 The Project has also been sub-divided into eight geographical sections for reader accessibility, based largely on Local Planning Authority boundaries. These are shown on Figure A8.15.1: Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years in Annex A and comprise:
- 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 and Brentwood District Council
 - Section G – Basildon Borough Council and Brentwood Borough Council (and part of Chelmsford City Council)
 - Section H – Thurrock Council.

1.2 Brief and Objectives

- 1.2.1 The brief of the survey work was to obtain baseline data to inform the impact assessment for the Project; this was achieved by undertaking the following:
- A desk study for badger, looking at existing data available
 - A robust badger survey to determine the locations of main badger setts within, or in proximity to, the Order Limits.
- 1.2.2 Focussing on the locations of conspicuous main setts has ensured that changes in design have been made to avoid effects and identify suitable mitigation. A pre-construction survey would be undertaken to locate all sett types and collate up to date information on activity status.

1.3 Study and Survey Area

- 1.3.1 The Study Area for the desk study outlined in Section 3.1, is defined as the land within the Order Limits and a 2 km buffer from the Order Limits.
- 1.3.2 The Survey Area for the badger survey work is defined as the land within the Order Limits and a 30 m buffer from the Order Limits, as shown on Figure A8.15.2: Badger Sett Locations (Revision B) in Annex A.

2. Relevant Legislation and Policy

2.1 Legal Compliance

- 2.1.1 Surveys and assessments have been undertaken in accordance with current legislation in the context of the Project. A summary of the relevant legislation is provided in Table A8.15.1.

Table A8.15.1 Legal compliance

Legislation	Details
Protection of Badgers Act (1992)	Badger and their setts are protected under the Protection of Badgers Act (1992). This protects badgers and their setts by making it an offence to: • Wilfully kill, injure, or take a badger • Damage a badger sett or any part of it • Destroy a badger sett • Obstruct access to, or any entrance of, a badger sett • Disturb a badger when it is occupying a badger sett. A licence from Natural England is required for any activity that would result in obstruction, disturbance, or closure (temporarily or permanently) of an active sett. If a main sett requires closure, mitigation must be provided usually involving the construction of an artificial sett along with proof of uptake by badgers.

2.2 Planning Policy

- 2.2.1 Chapter 8: Ecology and Biodiversity (document reference 6.8) (Revision C) provides further details of relevant planning policy.

3. Methodology

3.1 Desk Study

- 3.1.1 The baseline assessment for badger consists of obtaining available data for badger records and known sett locations within the Study Area. Data requests for badger activity, consisting of records of both individuals and setts, have been made to four local environmental record centres (LERCs) or ecological groups that the Order Limits pass through to provide information to support the baseline assessment. These were:
- Norfolk Biodiversity Information Service
 - Suffolk Biodiversity Information Service
 - Essex Field Club
 - North- East Essex Badger Group.
- 3.1.2 This baseline data was used to confirm the presence of badgers across the Project, and therefore updated data was not required to be obtained subsequent to this.
- 3.1.3 Any individual badger records over 10 years old were omitted from the results as per the national guidance (Department for Environment, Food and Rural Affairs; DEFRA, 2024).
- 3.1.4 In addition, a review of freely available aerial photography (Google, 2025) images has allowed habitats within the Order Limits to be assessed in a wider (landscape-scale) context; identification of potential wildlife corridors or barriers to animal movements (e.g., road networks, built development and major watercourses); and a review of changes to habitats over time so that an assessment of reliability/longevity can be made.

3.2 Survey Methods

- 3.2.1 The surveys (completed in conjunction with the habitat walkover surveys) consisted of a systematic search of all areas within the Survey Area (i.e., the Order Limits and up to a 30 m buffer outside of this) with a primary focus on searching for main setts. Data recorded included:
- Location of main sett
 - Classification of the sett type (main) and if it is clearly active or inactive
 - Total number of entrances
 - Entrance usage status (well-used, partially used, or disused)
 - General direction of tunnel(s) from the entrance
 - Limitations or constraints to surveying.

- 3.2.2 As a secondary survey focus, other sett types and clear signs of badger activity were recorded incidentally if discovered such as:
- Sett type - Annexe, subsidiary, and outlier setts
 - Latrines
 - Badger hairs
 - Badger footprints
 - Pathways evidently used by badger
 - Carcasses
 - Scratching posts
 - Foraging signs (snuffle holes)
 - Evidence of persecution.
- 3.2.3 Where possible, setts were classified using the criteria and best practice guidance provided in 'Surveying Badgers' (Harris et al., 1989). The classification criteria are given below:
- Main setts – a large well established, extensive sett with many entrances (usually more than seven) and conspicuous spoil heaps. Well-used paths from and between sett entrances. There is only one main sett per social group of badger. This is where the cubs are most likely to be born
 - Annexe setts – occur in close association with the main sett, normally less than 150 m from the main sett, and are usually linked to the main sett by clear well-used paths. They usually have multiple entrances, but they may not be in use all the time. If a second litter of cubs are born, they will be reared here
 - Subsidiary setts – these often have between three and five holes, are normally over 50 m from a main sett and are not linked by clear paths. These setts are not continually active
 - Outlier setts – these usually have between one and three holes, have small spoil heaps, and are sporadically used. Fox *Vulpes vulpes* and rabbit *Oryctolagus cuniculus* may move in.
- 3.2.4 An assessment of the activity at each sett was undertaken; the following categories were assigned to each:
- Active: at least some entrances are clearly active, indicating an overall active sett. Active entrances are mostly clear of debris and vegetation, with smoothed walls and are obviously well-used or partially used. Partially used entrances could come into regular use with minimal clearance
 - Inactive: all entrances have not been used for some time and may be partially or completely blocked by naturally accumulated debris such as leaves, twigs, and earth
 - Unknown: setts with all entrances either not obviously in regular use or not obviously long disused, making it ambiguous as to whether the sett is active or not.

- 3.2.5 Badger setts that were recorded incidentally during other targeted ecological surveys have also been included in this report. All data was recorded using ArcGIS Field Maps and stored on ArcGIS Enterprise.

3.3 Dates of Survey and Personnel

- 3.3.1 Badger activity surveys can be undertaken at any time of year, but ideally outside of the mid-summer months when vegetation is dense. However, due to land access badger activity surveys were conducted concurrently with habitat surveys from April to October 2023, between April to November 2024 and April to September 2025.
- 3.3.2 The surveys were undertaken by suitably skilled and experienced ecologists, the lead surveyors hold membership of the Chartered Institute of Ecology and Environmental Management (CIEEM).

3.4 Notes and Limitations

- 3.4.1 As much land as practicable within the Survey Area has been accessed and surveyed. Some areas were inaccessible due to land access restrictions associated with health and safety concerns or environmental factors such as dense vegetation. It was not possible to survey 3% of the land within the Order Limits. It is possible that badger setts are located in the areas that have not been surveyed. As identified in the introduction pre-construction surveys will be undertaken to inform licensing and ensure legislative compliance.

4. Results

4.1 Overview

4.1.1 This section presents the results of both the desk study and the badger setts recorded during habitat surveys undertaken between April 2023 and September 2025. Results are shown on Figure A8.15.1: Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years and Figure A8.15.2: Badger Sett Locations (Revision B) in Annex A.

4.2 Desk Study Results

4.2.1 The desk study identified a total of 291 badger records within the Study Area in the last 10 years (2012 to 2022). Additionally, 79 sett locations have been recorded by NEEBG within 2 km of the Order Limits in the same period. The sett types are not distinguished in the data provided from NEEBG. This data does not necessarily indicate current badger activity or sett locations but gives an indication of historic badger activity in the local area.

4.2.2 Both individual records from NBIS, SBIS and EFC, and sett locations from NEEBG are shown on Figure A8.15.1: Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years in Annex A.

4.3 Survey Results

4.3.1 [REDACTED]

[REDACTED]

Table A8.15.2 Badger setts present within the Survey Area

Project Section	Sett Type				Total
	Main	Annexe	Subsidiary	Outlier	
A	3	0	2	5	10
B	12	4	8	35	59
C	10	1	4	33	48
D	8	1	5	16	30
E	2	0	1	11	14
F	8	2	8	31	49
G	1	0	3	10	14
H	4	0	0	3	7
Total	48	8	31	144	231

5. Conclusion

5.1.1 As shown on Figure A8.15.2: Badger Sett Locations (Revision B) in Annex A, the locations of badger setts are evenly distributed throughout the Project with a few notable exceptions. Results show that Sections A, E, G and H have noticeably fewer recorded badger setts, with only 45 setts recorded across these four Sections compared to other Project Sections.

5.1.2 [Redacted]

Abbreviations

Abbreviation	Full Reference
CIEEM	Chartered Institute of Ecology and Environmental Management
DCO	Development Consent Order
EFC	Essex Field Club
EIA	Environmental Impact Assessment
ES	Environmental Statement
GIS	Geographic Information Systems
LERC	Local Environmental Record Centres
NBIS	Norfolk Biodiversity Information Service
NEEBG	North-East Essex Badger Group
SBIS	Suffolk Biodiversity Information Service

Glossary

Term	Description
Badger Sett	A complex system of underground tunnels and chambers which badgers dig and live in.
CIEEM	Chartered Institute of Ecology and Environmental Management.
Habitat	The natural home or environment of an animal, plant, or other organism.
Habitat Fragmentation	The process by which a large, continuous area of natural habitat is broken into smaller, isolated patches, often due to human activities.
Local Planning Authority	The public authority whose duty it is to carry out specific planning functions for a particular area.
Mitigation	The action of reducing the severity and magnitude of change (impact) to the environment. Measures to avoid, reduce, remedy or compensate for significant adverse effects.
Order Limits	The maximum extent of land within which the authorised development may take place.

Bibliography

Department for Environment, Food and Rural Affairs (2024) *National Statistics: Biodiversity data for decision making*. Available at: <https://www.gov.uk/government/statistics/england-biodiversity-indicators/24-biodiversity-data-for-decision-making> (Accessed: 13 June 2025).

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Harris, S., Cresswell, P. and Jefferies, D. (1989) *Surveying Badgers*. Mammal Society Occasional Publications No 9. Mammal Society, London.

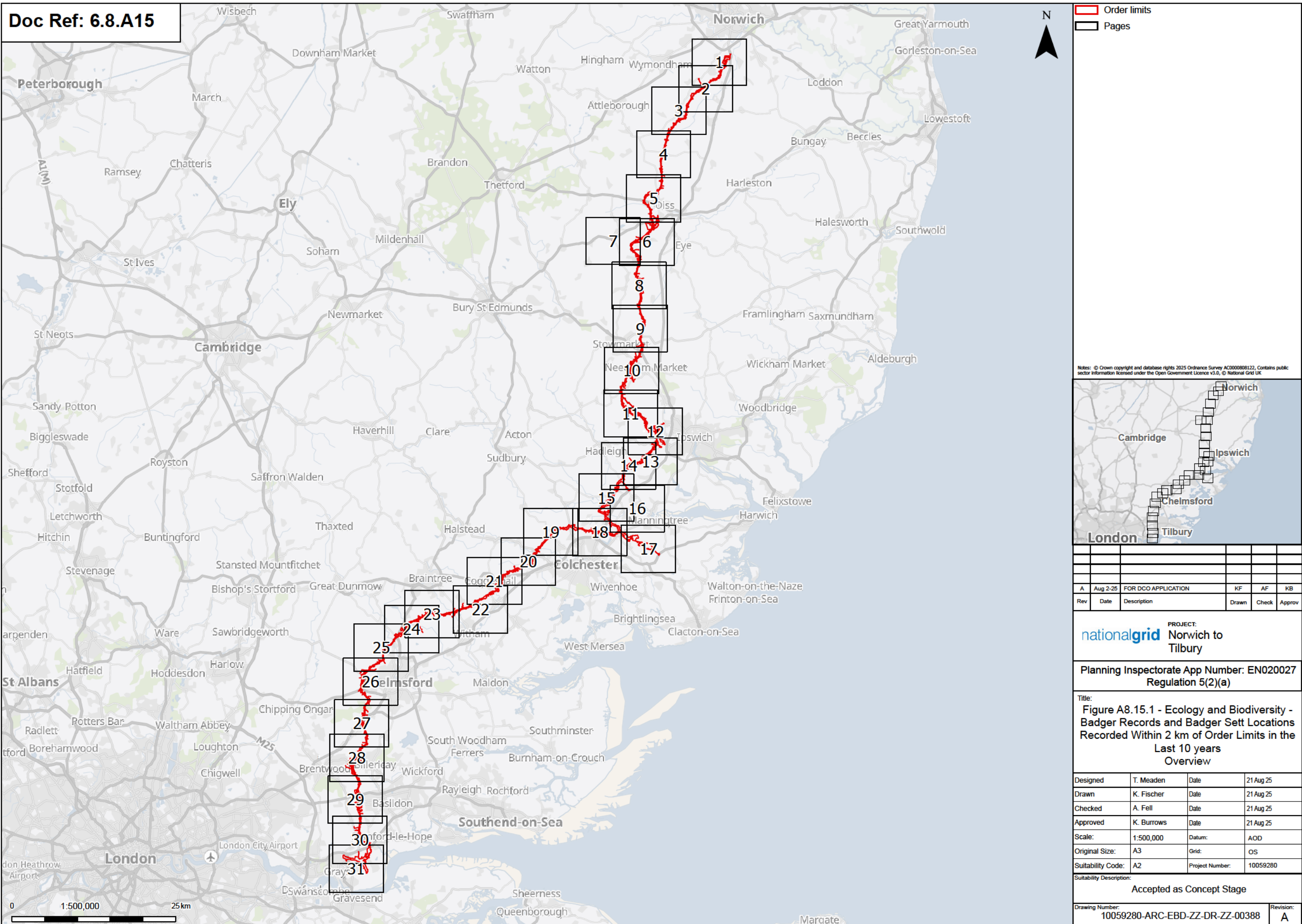
Protection of Badgers Act 1992. *Protection of Badgers Act 1992* (c.51). [online] Available at: <https://www.legislation.gov.uk/ukpga/1992/51/contents> (accessed: 13 June 2025).

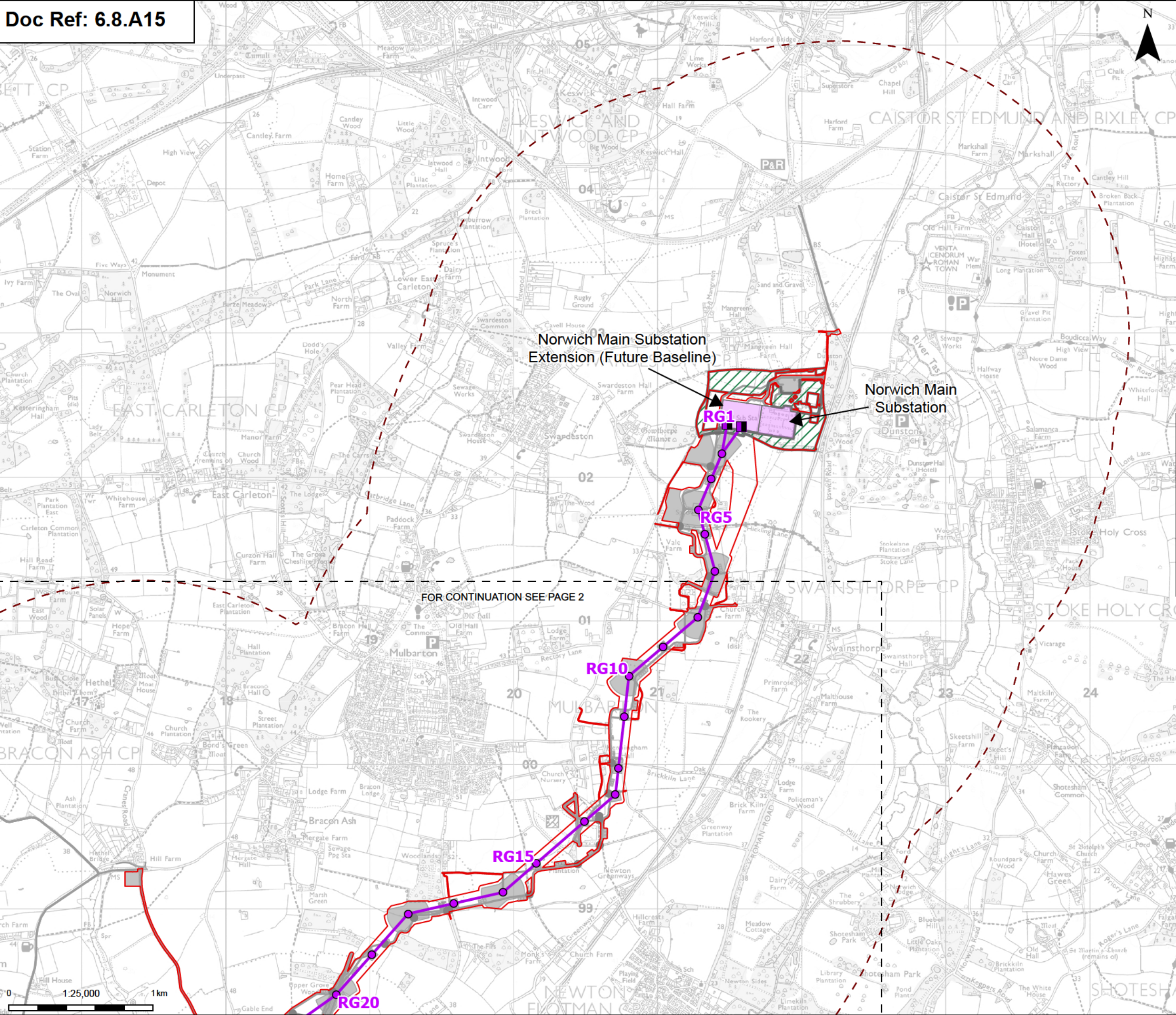
Annex A. Figures

Annex A

Figures

Figure A8.15.1 - Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years





Order limits

Sheet index cutline

Proposed project design details

Proposed full line tension gantry

Proposed standard lattice pylon location

Proposed overhead line alignment

Norwich Main Substation

Norwich Main Substation Extension (future baseline)

Environmental area

Other temporary and permanent construction and operational works

Discipline specific constraints

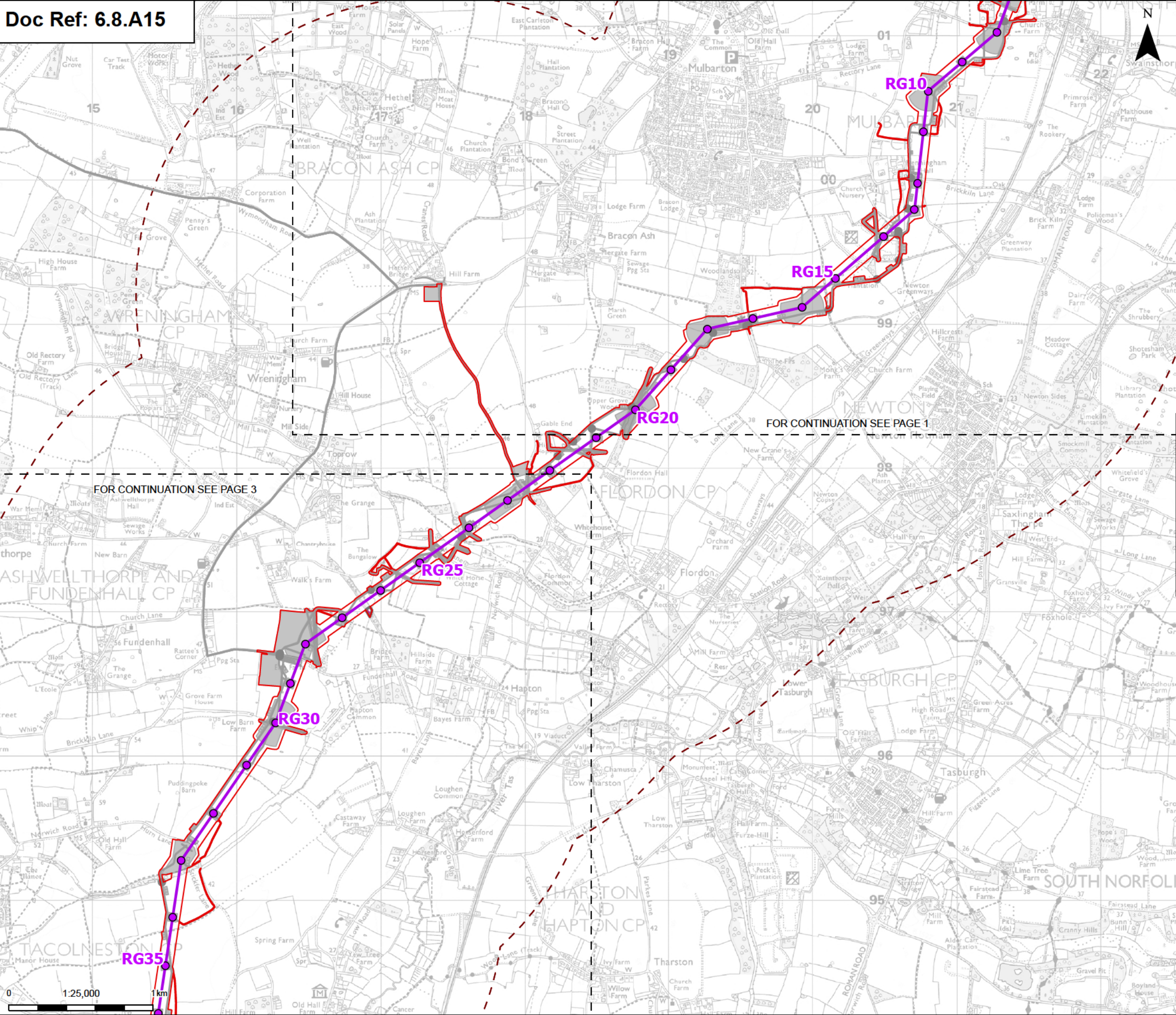
2 km Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

A	Aug 2-25	FOR DCO APPLICATION	KF	AF	KB
Rev	Date	Description	Drawn	Check	Approv
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Planning Inspectorate App Number: EN020027 Regulation 5(2)(a)					
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Designed	T. Meaden	Date	21 Aug 25		
Drawn	K. Fischer	Date	21 Aug 25		
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Approved	K. Burrows	Date	21 Aug 25		
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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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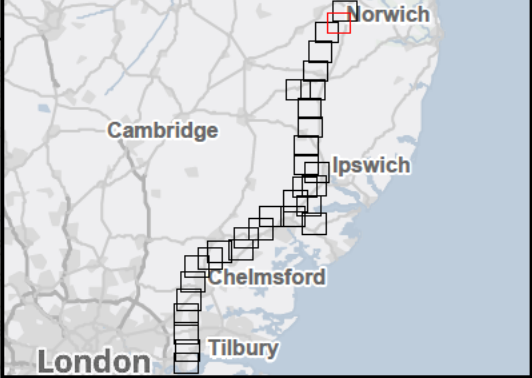
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- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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Regulation 5(2)(a)

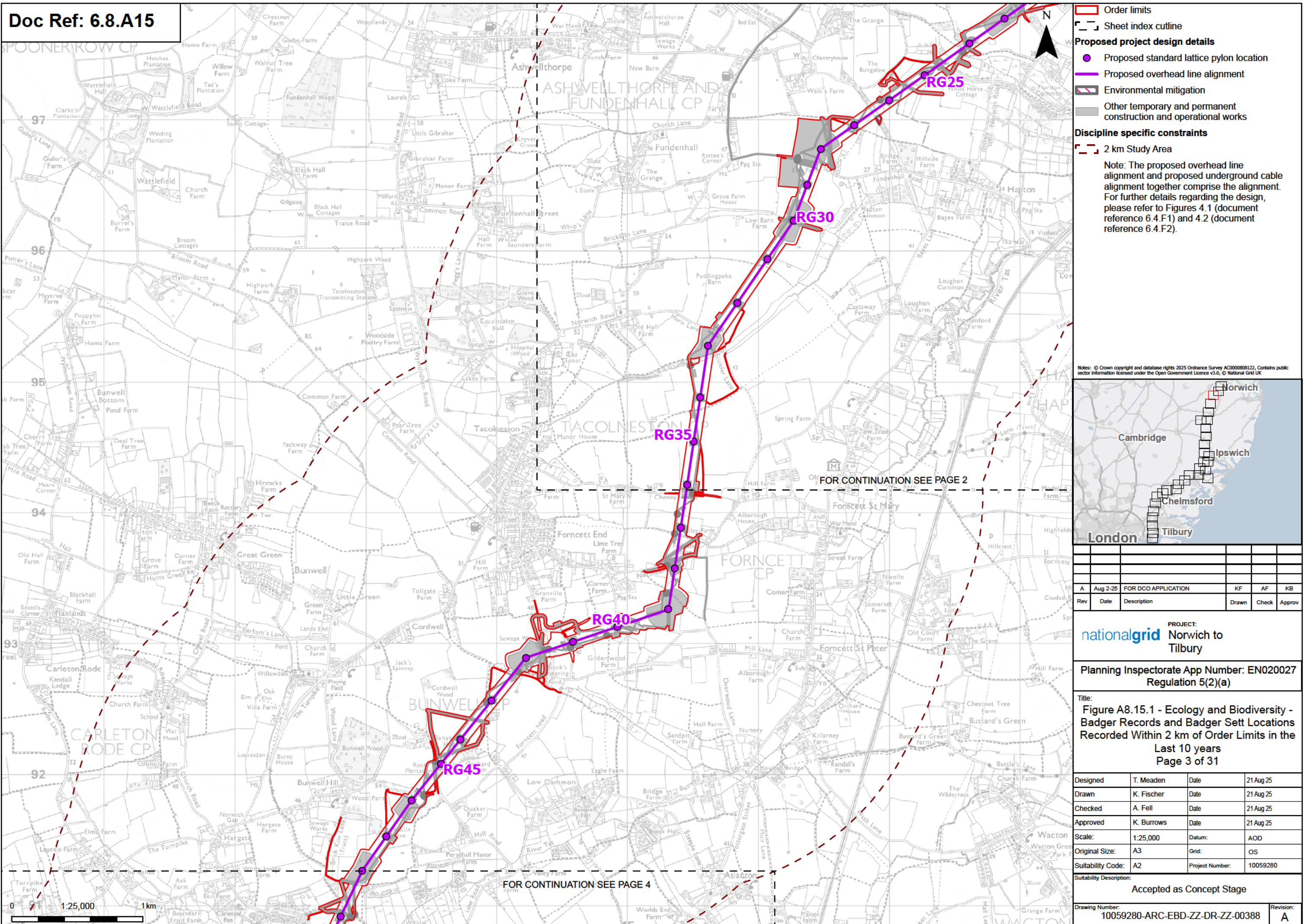
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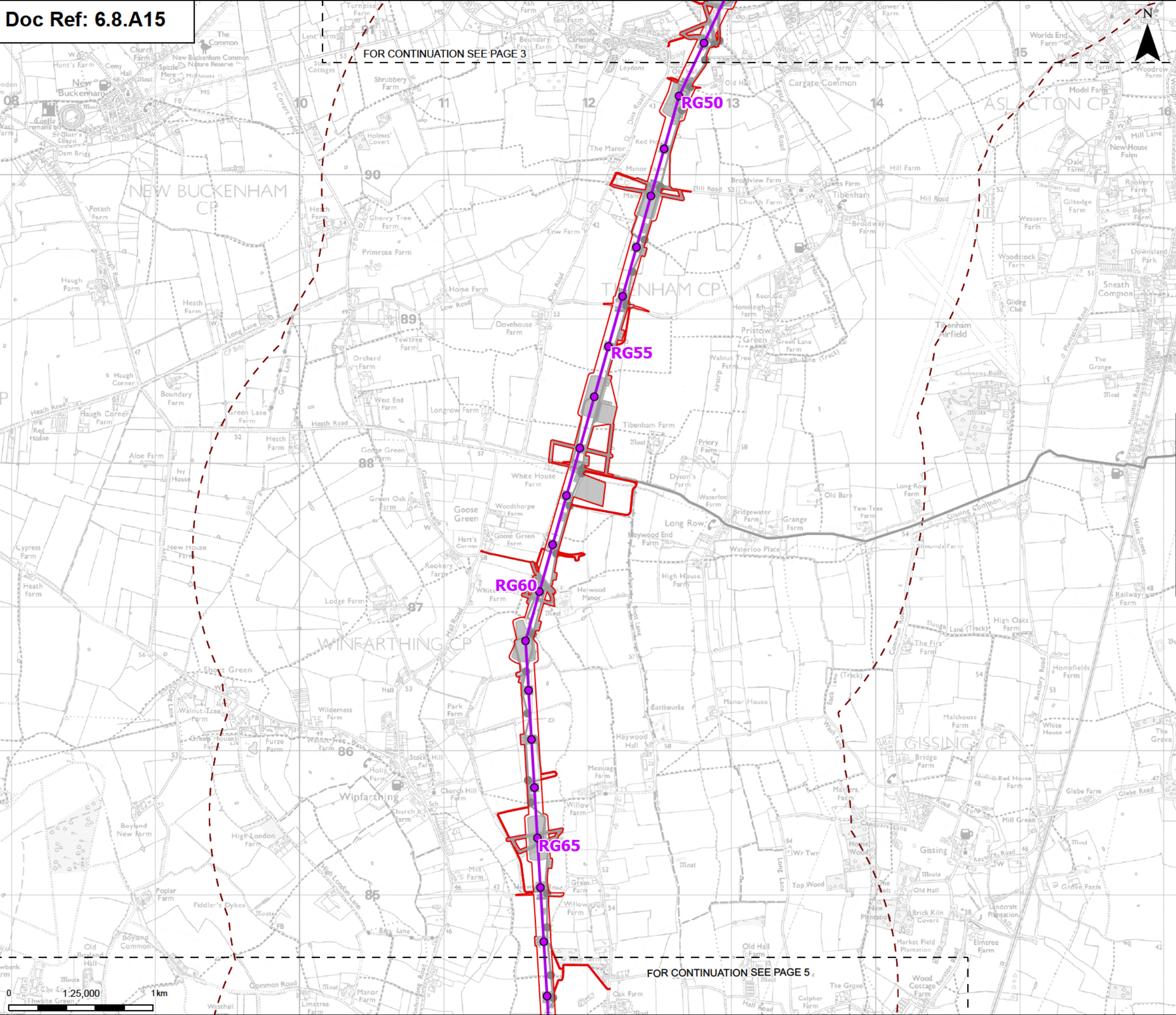
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Revision:
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Order limits

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Proposed project design details

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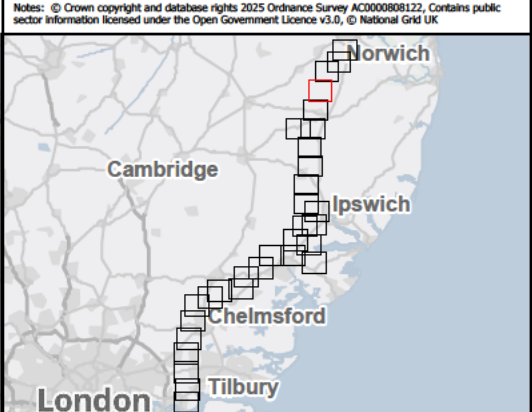
Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

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Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure A8.15.1 - Ecology and Biodiversity - Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years

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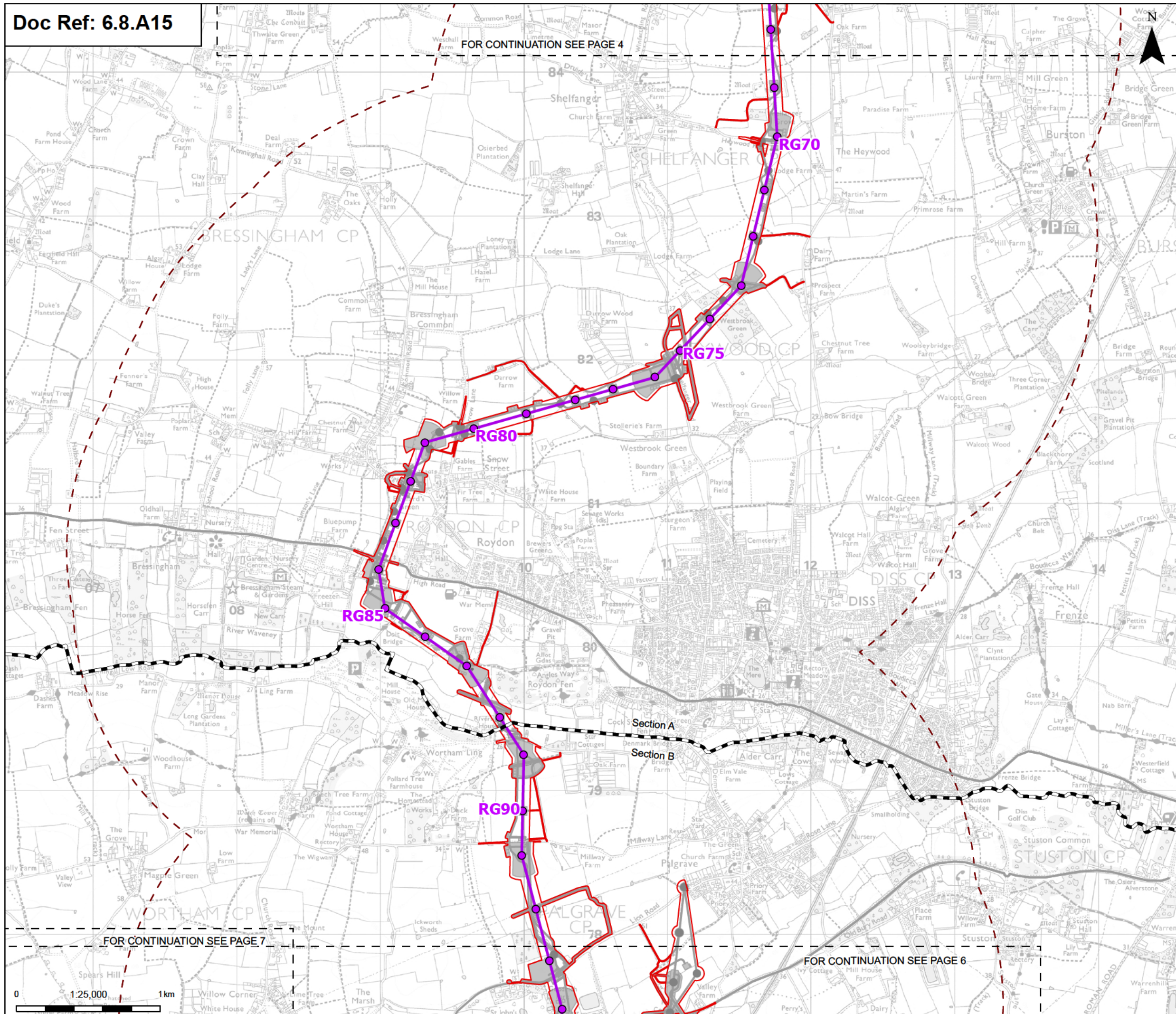
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Order limits

Sheet index cutline

Project section line

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

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Tilbury

Norwich

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PROJECT:

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Norwich to Tilbury

Planning Inspectorate App Number: EN020027

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Figure A8.15.1 - Ecology and Biodiversity - Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years

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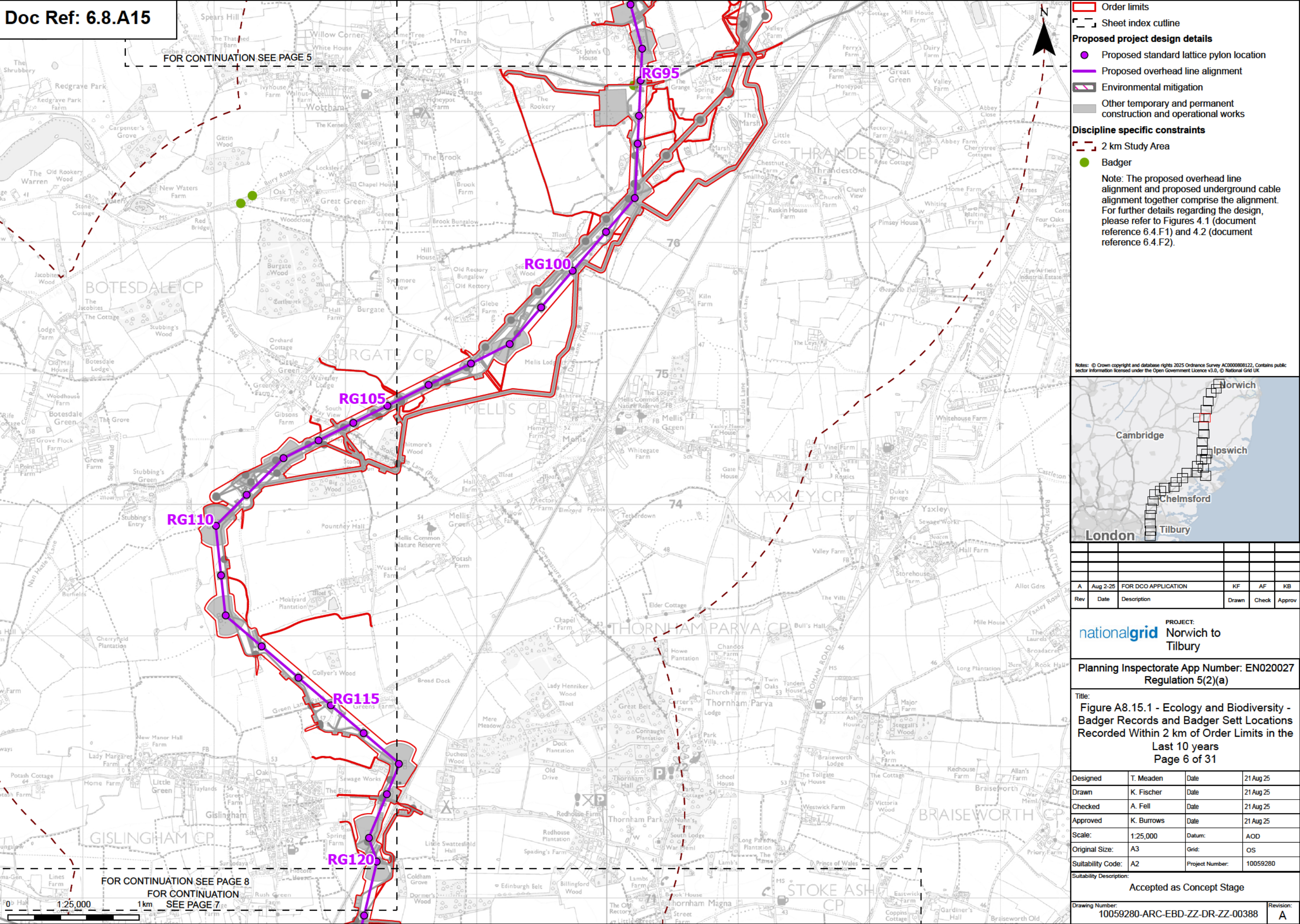
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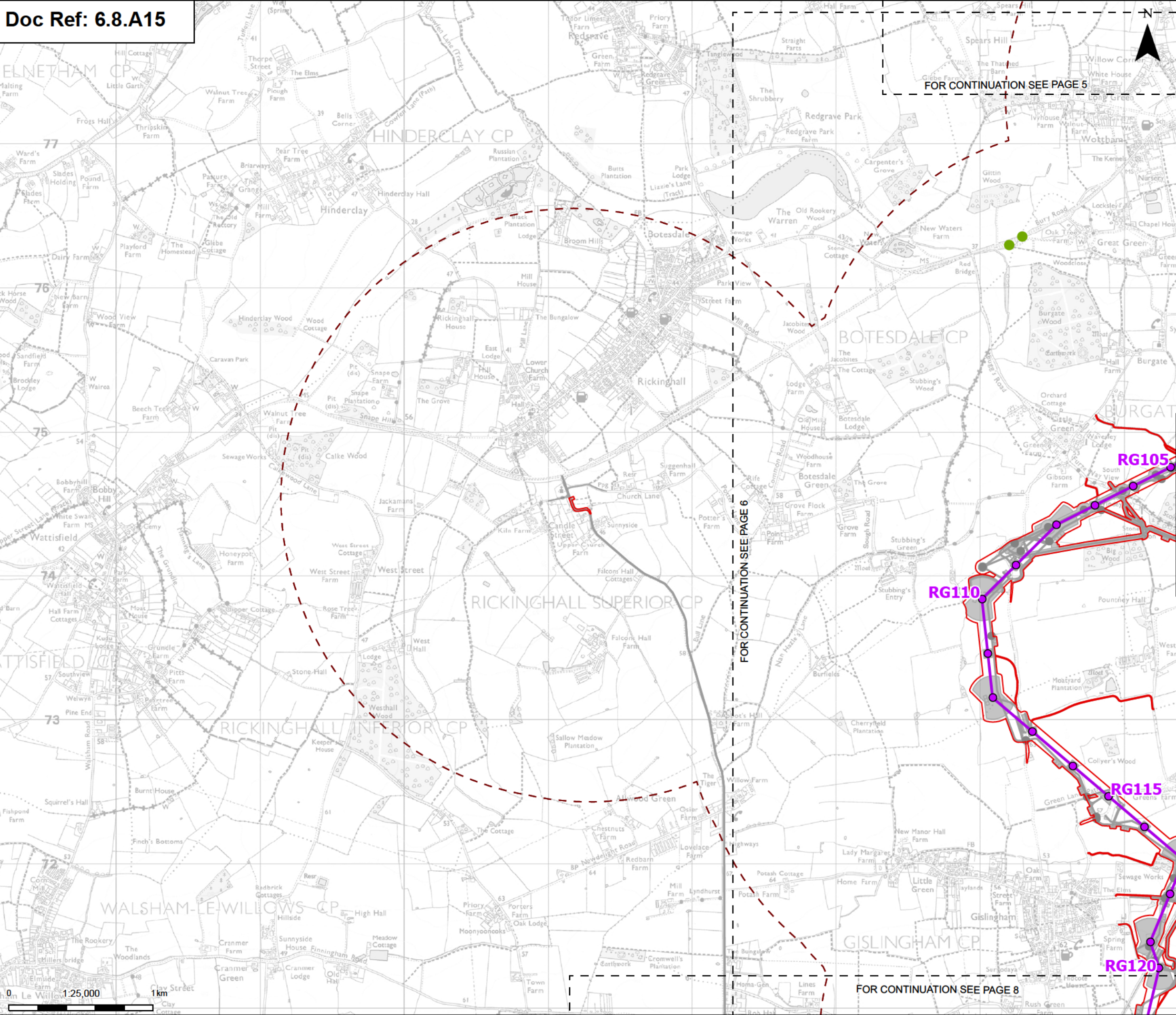
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Order limits

Sheet index cutline

Proposed project design details

Proposed standard lattice pylon location

Proposed overhead line alignment

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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Norwich to Tilbury

Planning Inspectorate App Number: EN020027

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Figure A8.15.1 - Ecology and Biodiversity - Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years

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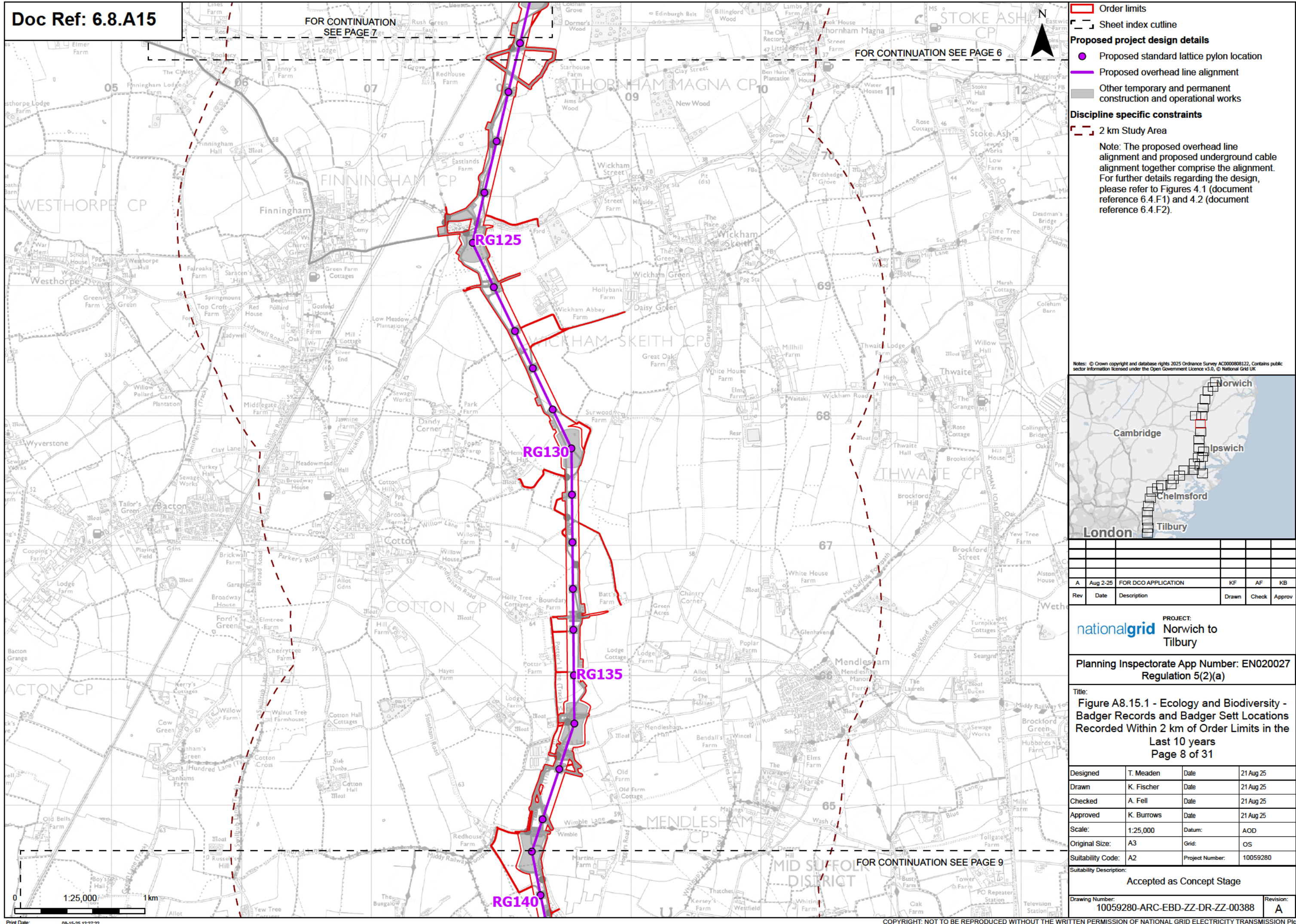
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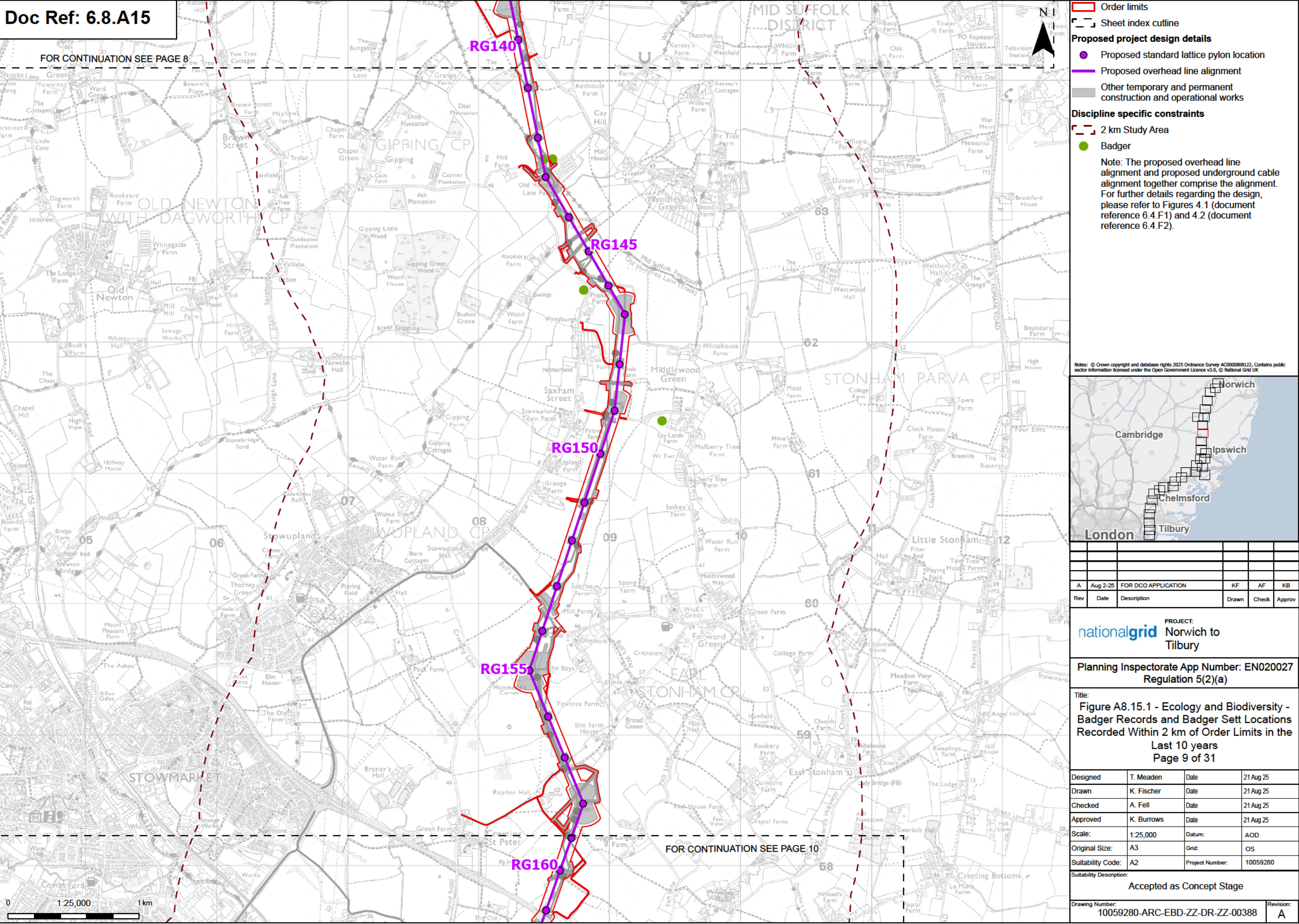
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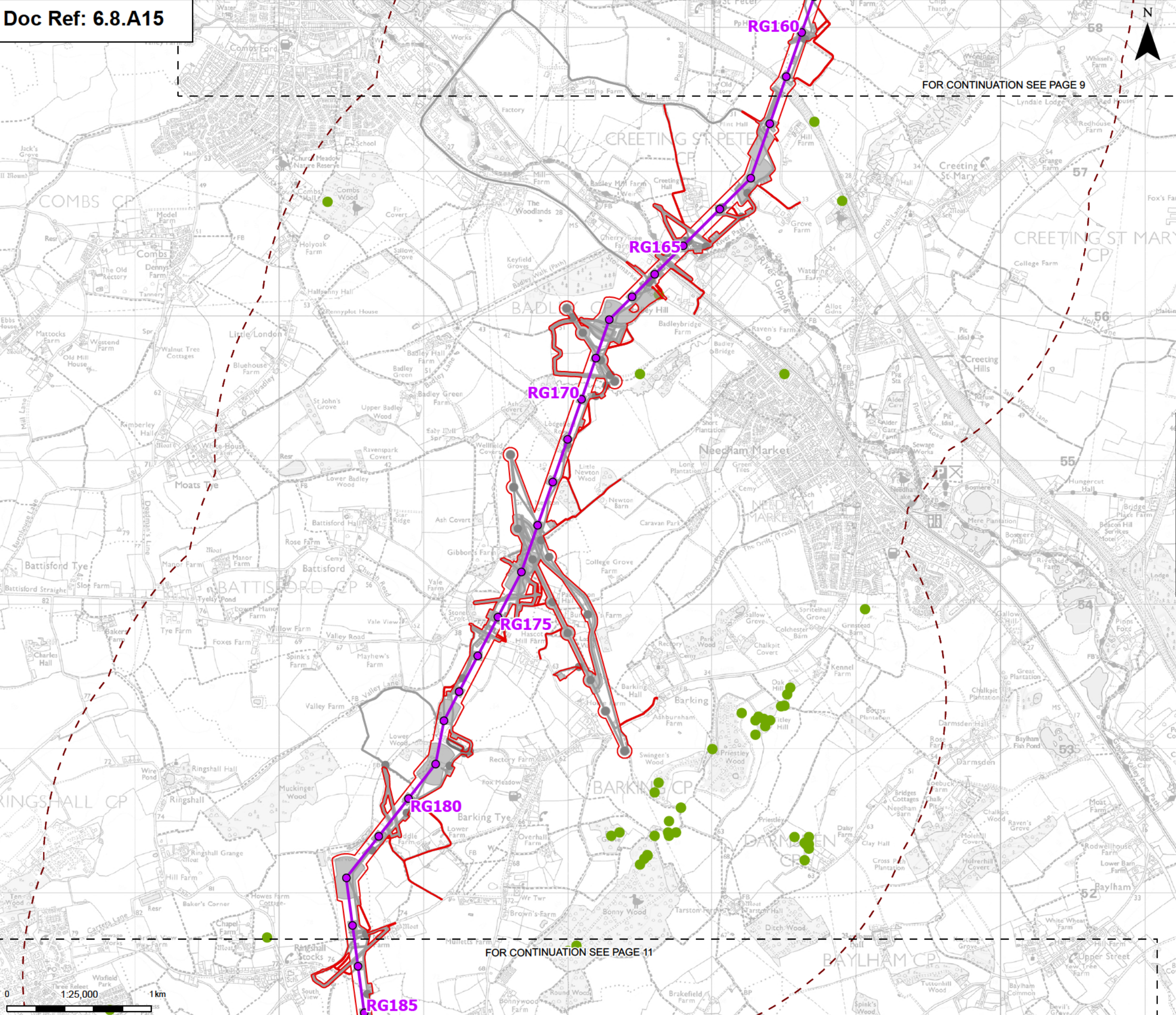
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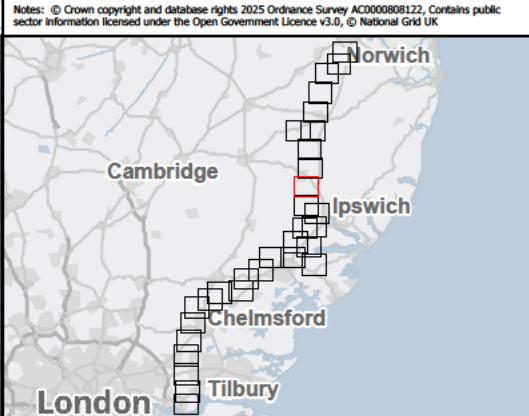
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- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).



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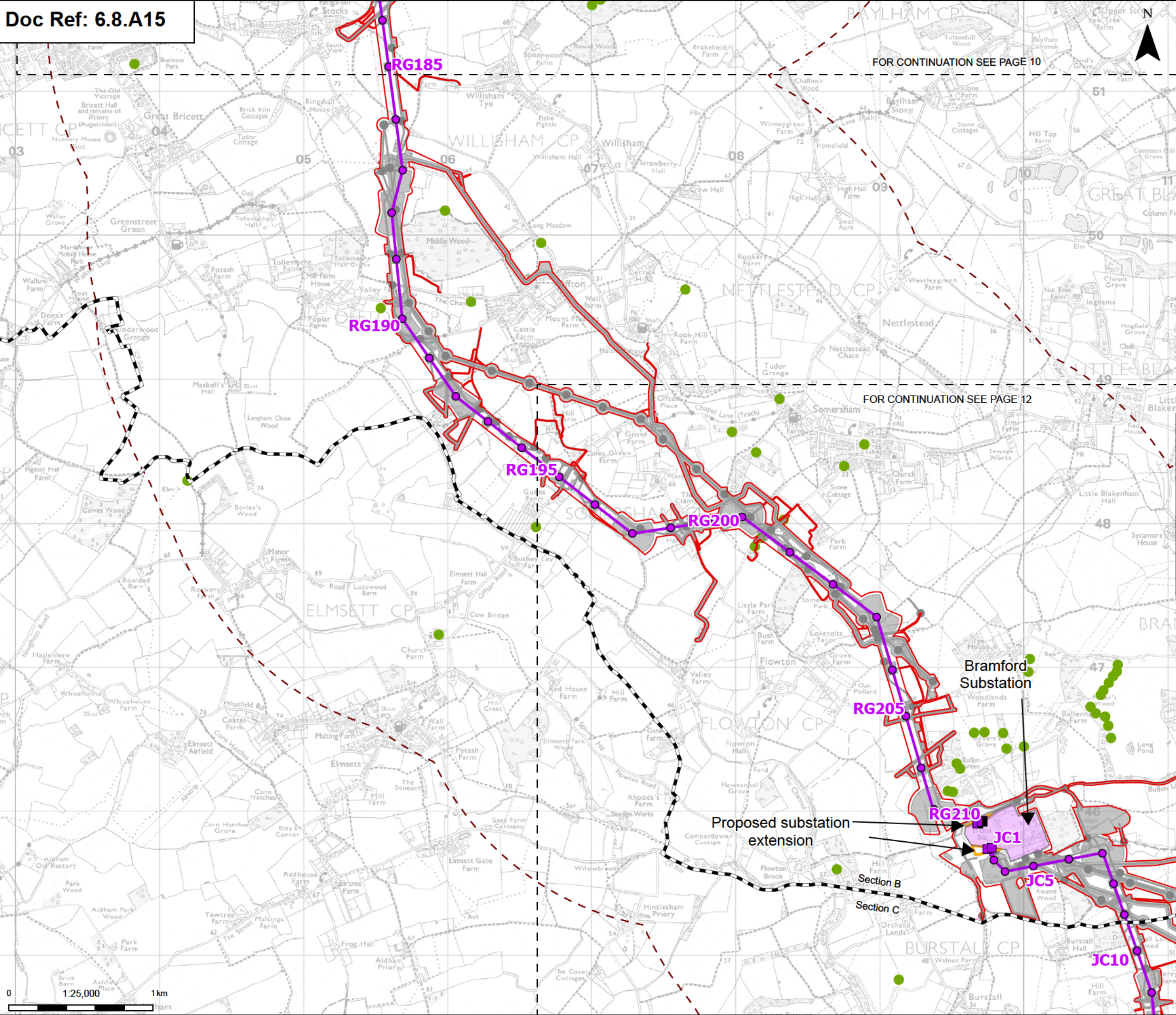
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Order limits

Sheet index cutline

Project section line

Proposed project design details

Proposed full line tension gantry

Proposed low duty gantry

Proposed standard lattice pylon location

Proposed overhead line alignment

Bramford Substation

Bramford Substation Extension

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Badger

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Rev	Date	Description	Drawn	Check	Approv

PROJECT:

nationalgrid

Norwich to Tilbury

Planning Inspectorate App Number: EN020027

Regulation 5(2)(a)

Title:

Figure A8.15.1 - Ecology and Biodiversity - Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years

Page 11 of 31

Designed

T. Meaden

Date

21 Aug 25

Drawn

K. Fischer

Date

21 Aug 25

Checked

A. Fell

Date

21 Aug 25

Approved

K. Burrows

Date

21 Aug 25

Scale:

1:25,000

Datum:

AOD

Original Size:

A3

Grid:

OS

Suitability Code:

A2

Project Number:

10059280

Suitability Description:

Accepted as Concept Stage

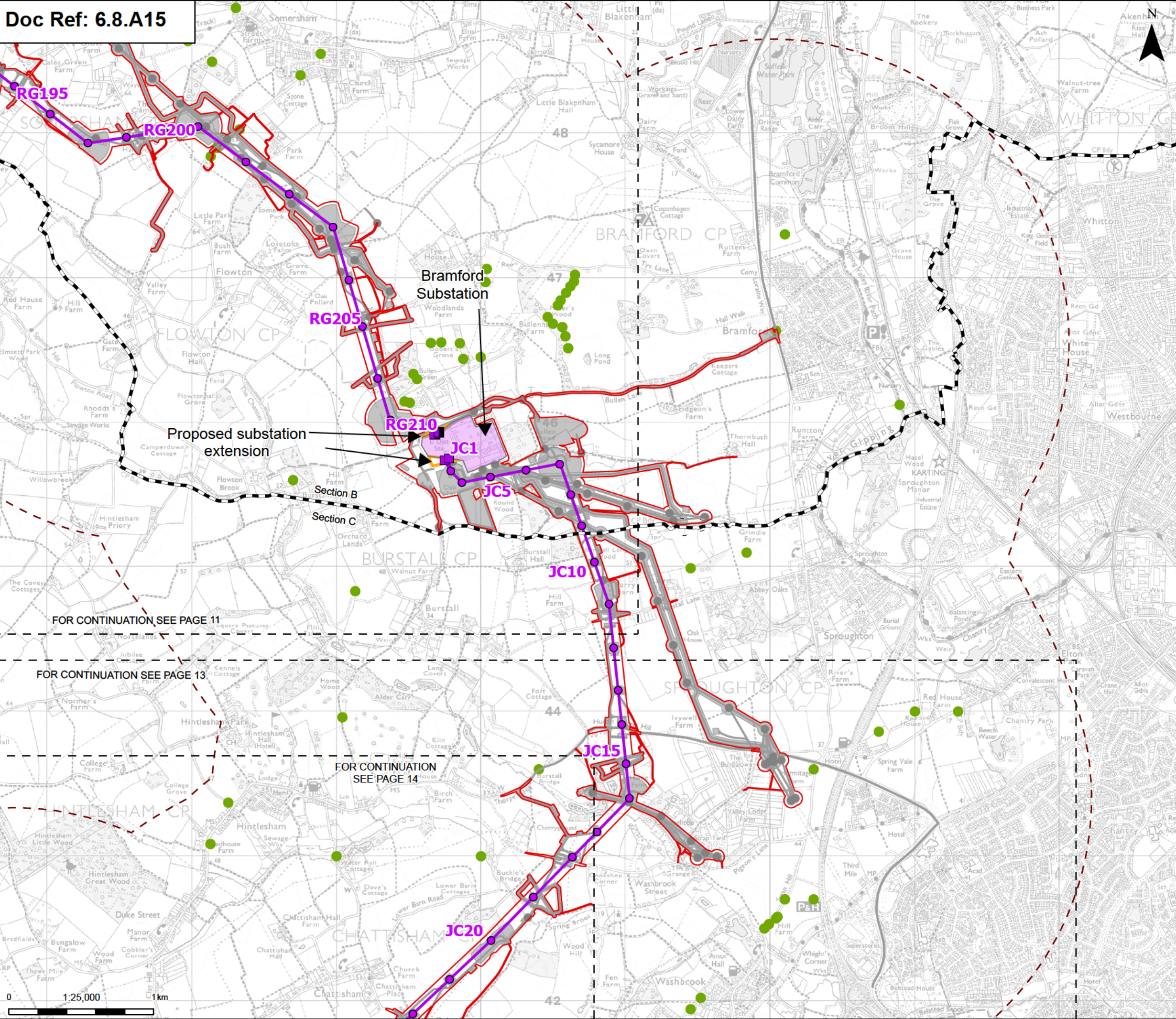
Drawing Number:

10059280-ARC-EBD-ZZ-DR-ZZ-00388

Revision:

A

Print Date: 08-15-25 12:28:02 COPYRIGHT: NOT TO BE REPRODUCED WITHOUT THE WRITTEN PERMISSION OF NATIONAL GRID ELECTRICITY TRANSMISSION Plc



Order limits

Sheet index cutline

Project section line

Proposed project design details

- Proposed full line tension gantry
- Proposed low duty gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Bramford Substation
- Bramford Substation Extension
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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A	Aug 2-25	FOR DCO APPLICATION	KF	AF	KB
Rev	Date	Description	Drawn	Check	Approv

PROJECT: Norwich to Tilbury

nationalgrid

Planning Inspectorate App Number: EN020027 Regulation 5(2)(a)

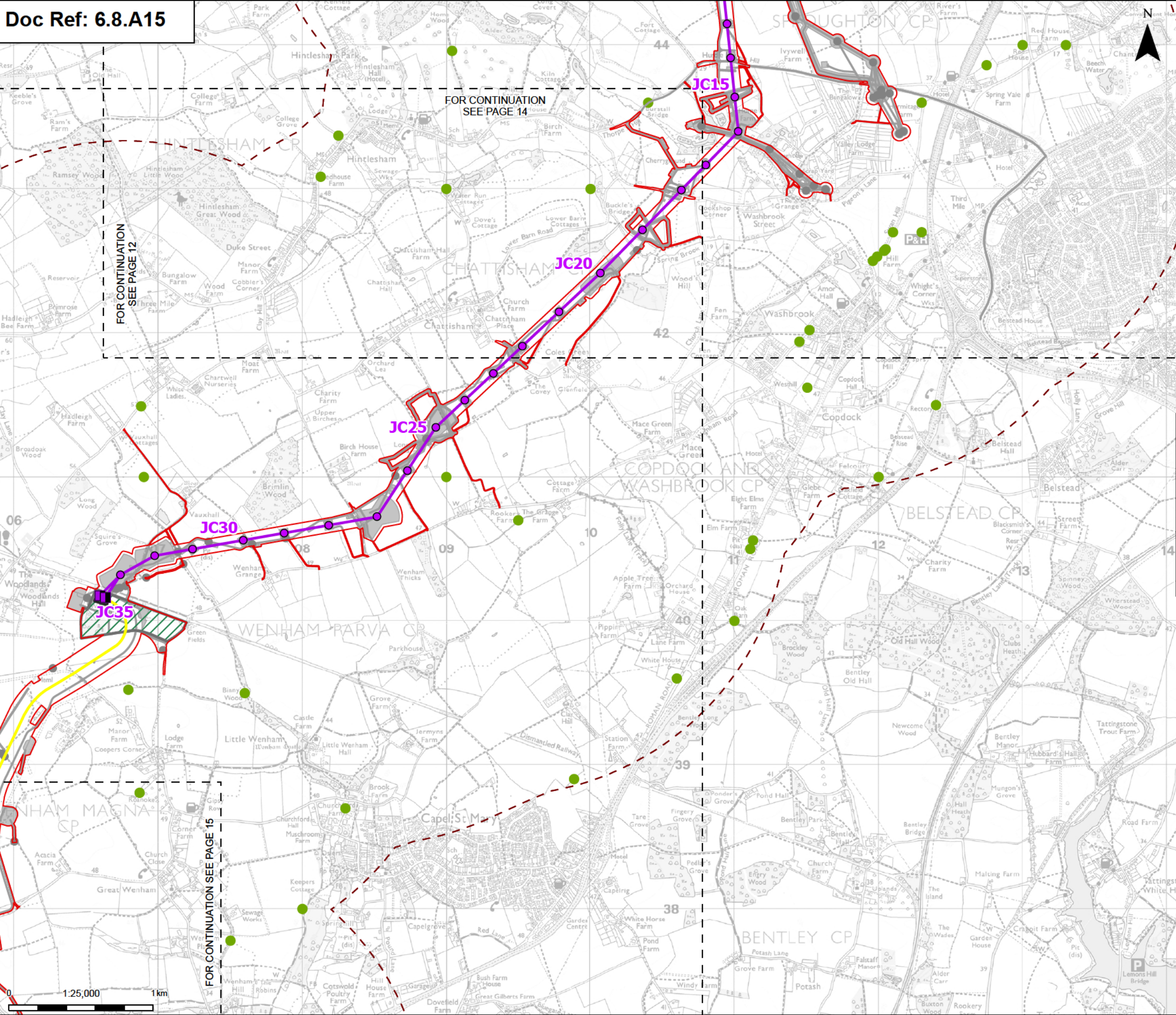
Title: Figure A8.15.1 - Ecology and Biodiversity - Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years
Page 12 of 31

Designed	T. Meaden	Date	21 Aug 25
Drawn	K. Fischer	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:

Accepted as Concept Stage

Drawing Number:	10059280-ARC-EBD-ZZ-DR-ZZ-00388	Revision:	A
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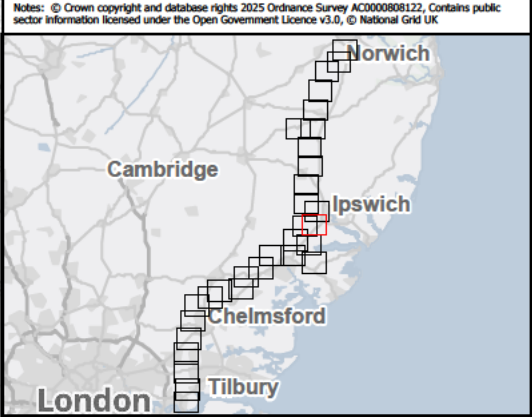
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- Proposed full line tension gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).



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PROJECT: **Norwich to Tilbury**

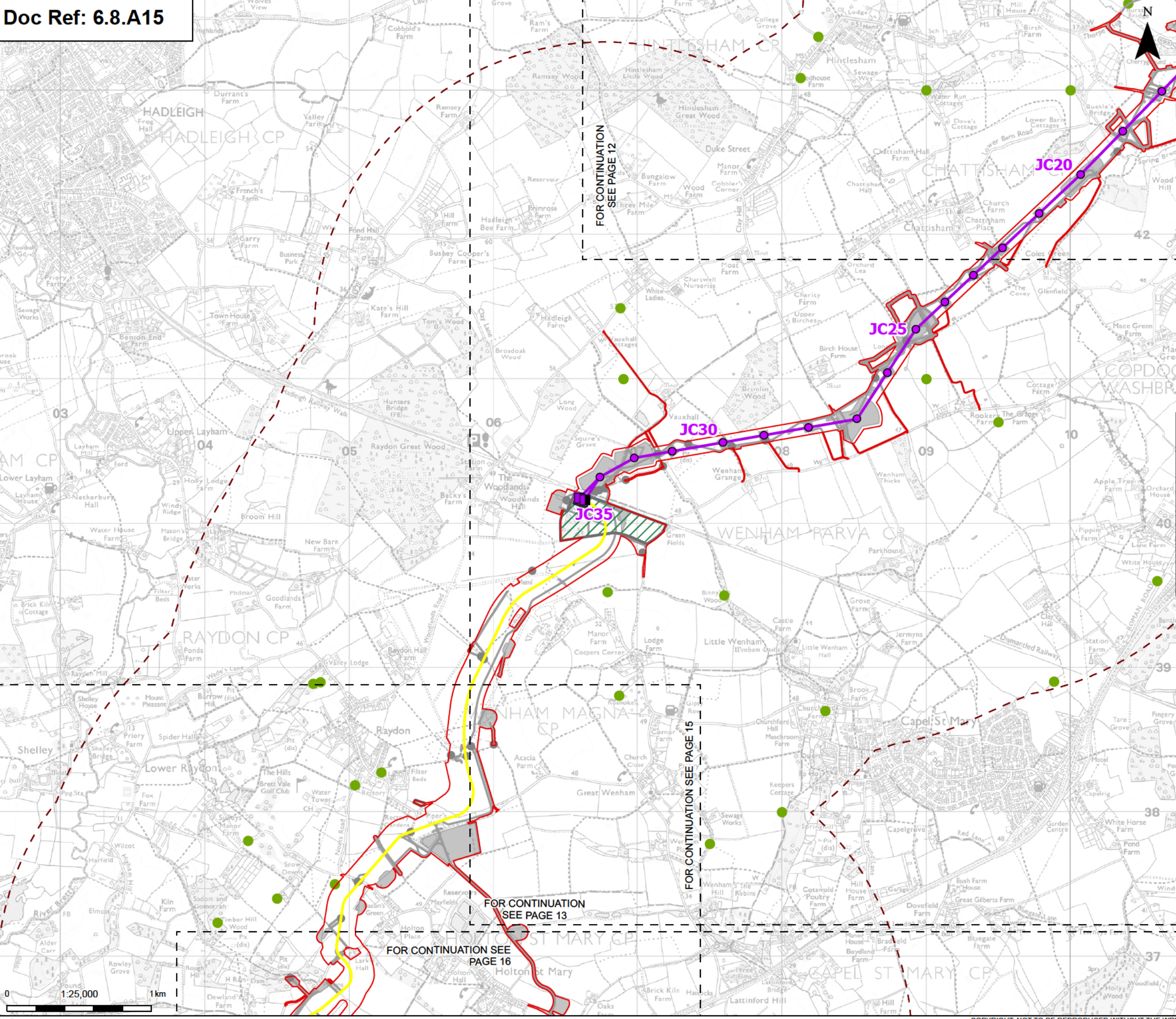
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Regulation 5(2)(a)

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Figure A8.15.1 - Ecology and Biodiversity - Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years
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Designed	T. Meaden	Date	21 Aug 25
Drawn	K. Fischer	Date	21 Aug 25
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Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00388	Revision: A
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Order limits

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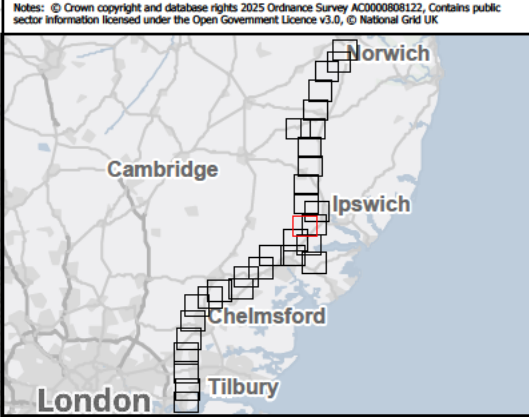
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- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).



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PROJECT: Norwich to Tilbury

nationalgrid

Planning Inspectorate App Number: EN020027 Regulation 5(2)(a)

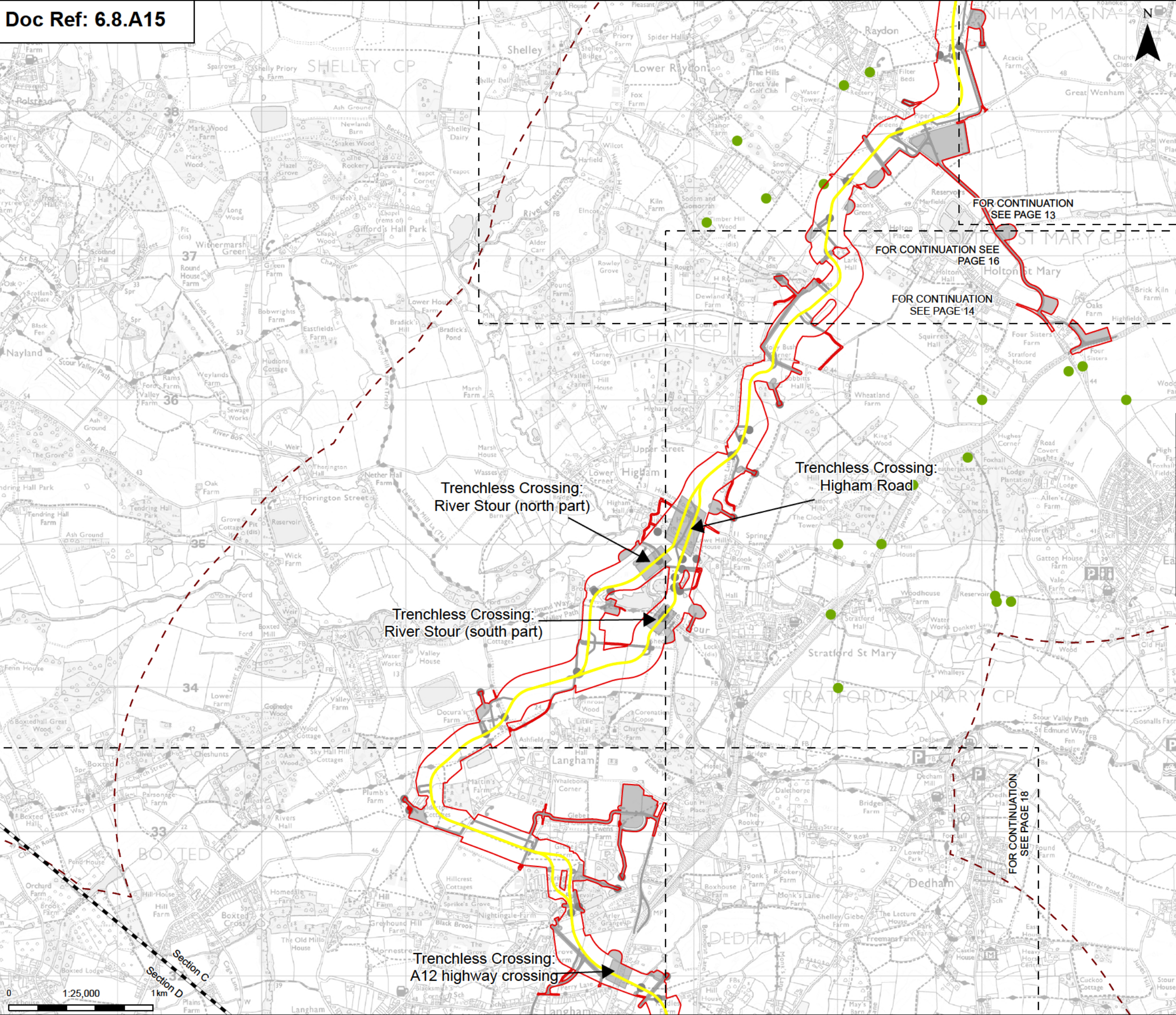
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Drawn	K. Fischer	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00388

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Order limits

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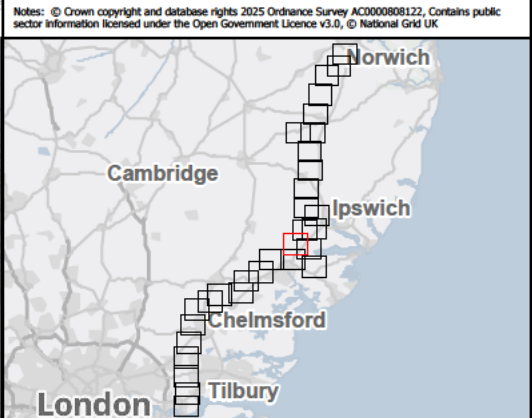
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- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).



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PROJECT: Norwich to Tilbury

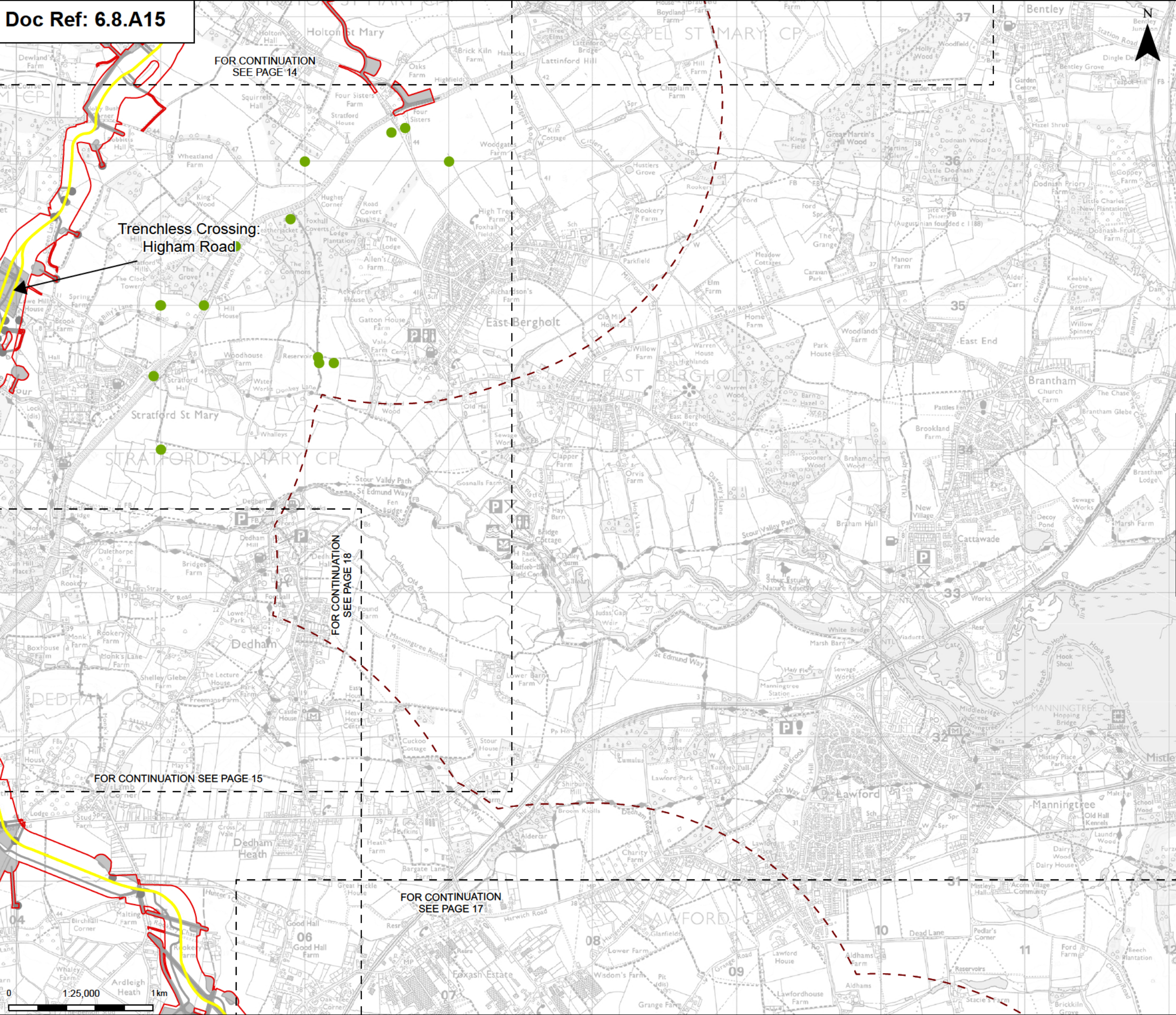
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Designed	T. Meaden	Date	21 Aug 25
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Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description: Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00388 **Revision:** A



Order limits

Sheet index cutline

Proposed project design details

- Proposed standard lattice pylon location
- Proposed underground cable alignment
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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Rev	Date	Description	Drawn	Check	Approv

PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

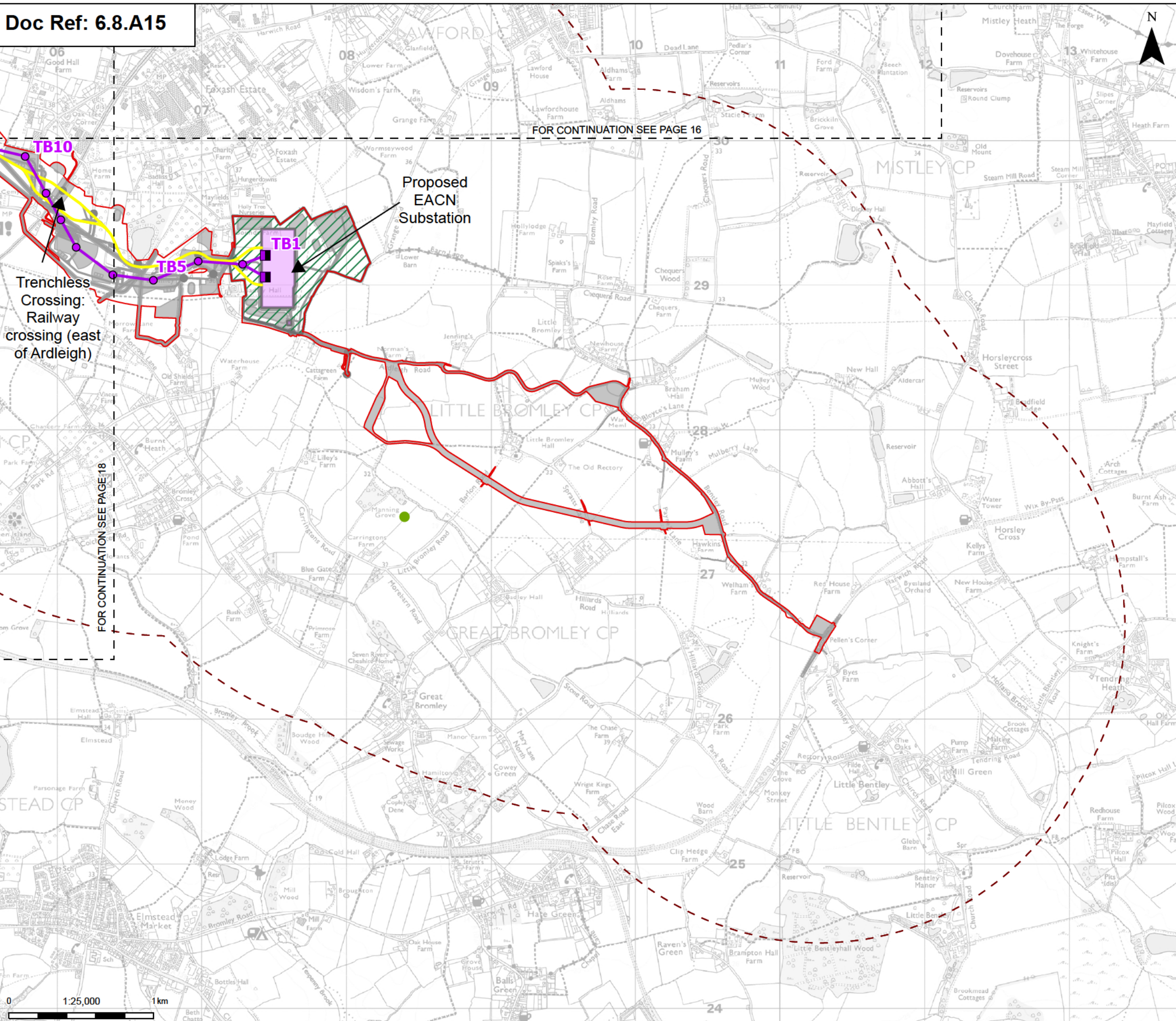
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Approved	K. Burrows	Date	21 Aug 25
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:

Accepted as Concept Stage

Drawing Number:	10059280-ARC-EBD-ZZ-DR-ZZ-00388	Revision:	A
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Order limits

Sheet index cutline

Proposed project design details

- Proposed full line tension gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed DNO Substation
- Proposed East Anglia Connection Node Substation (EACN)
- Environmental area
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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PROJECT:
nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

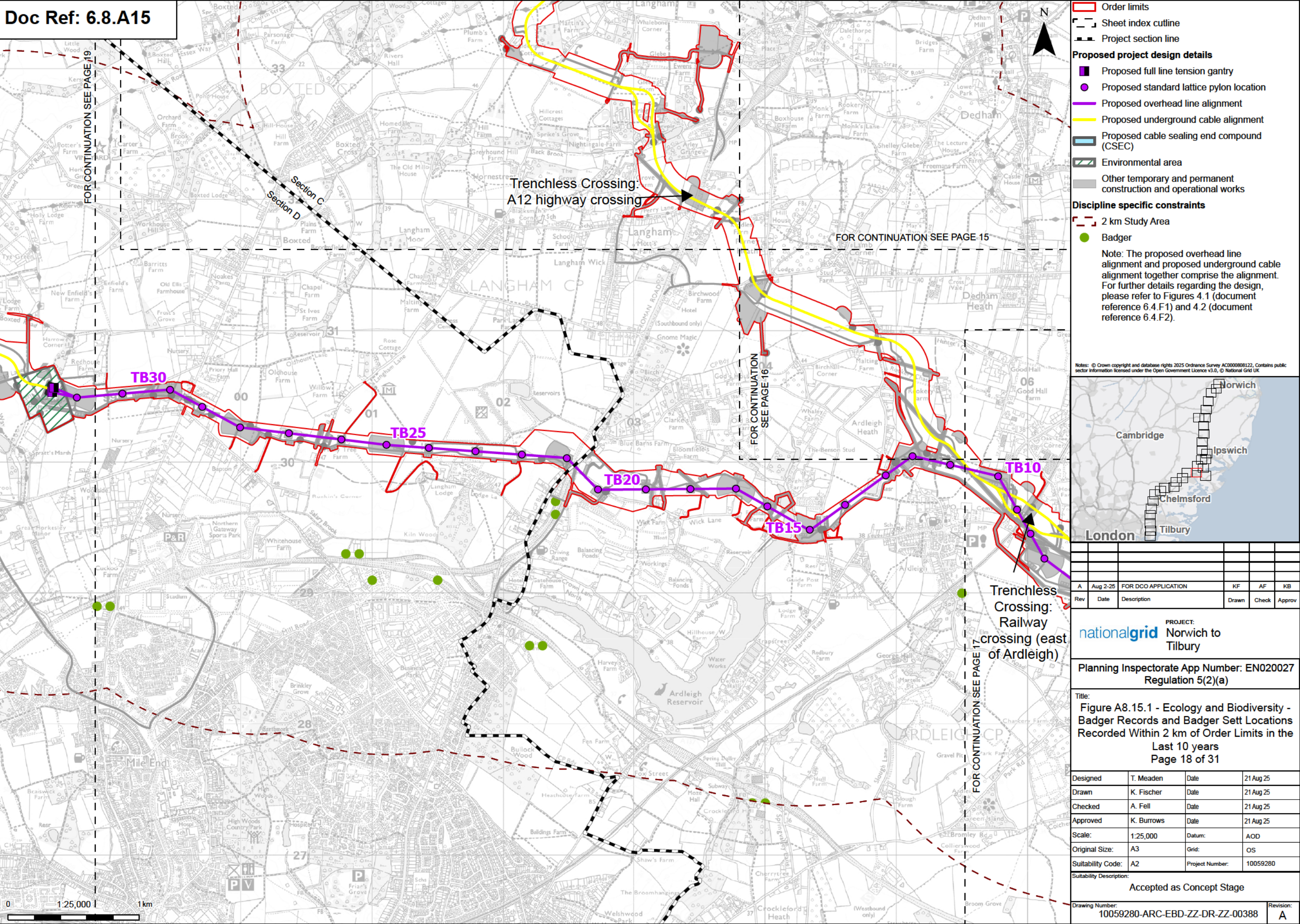
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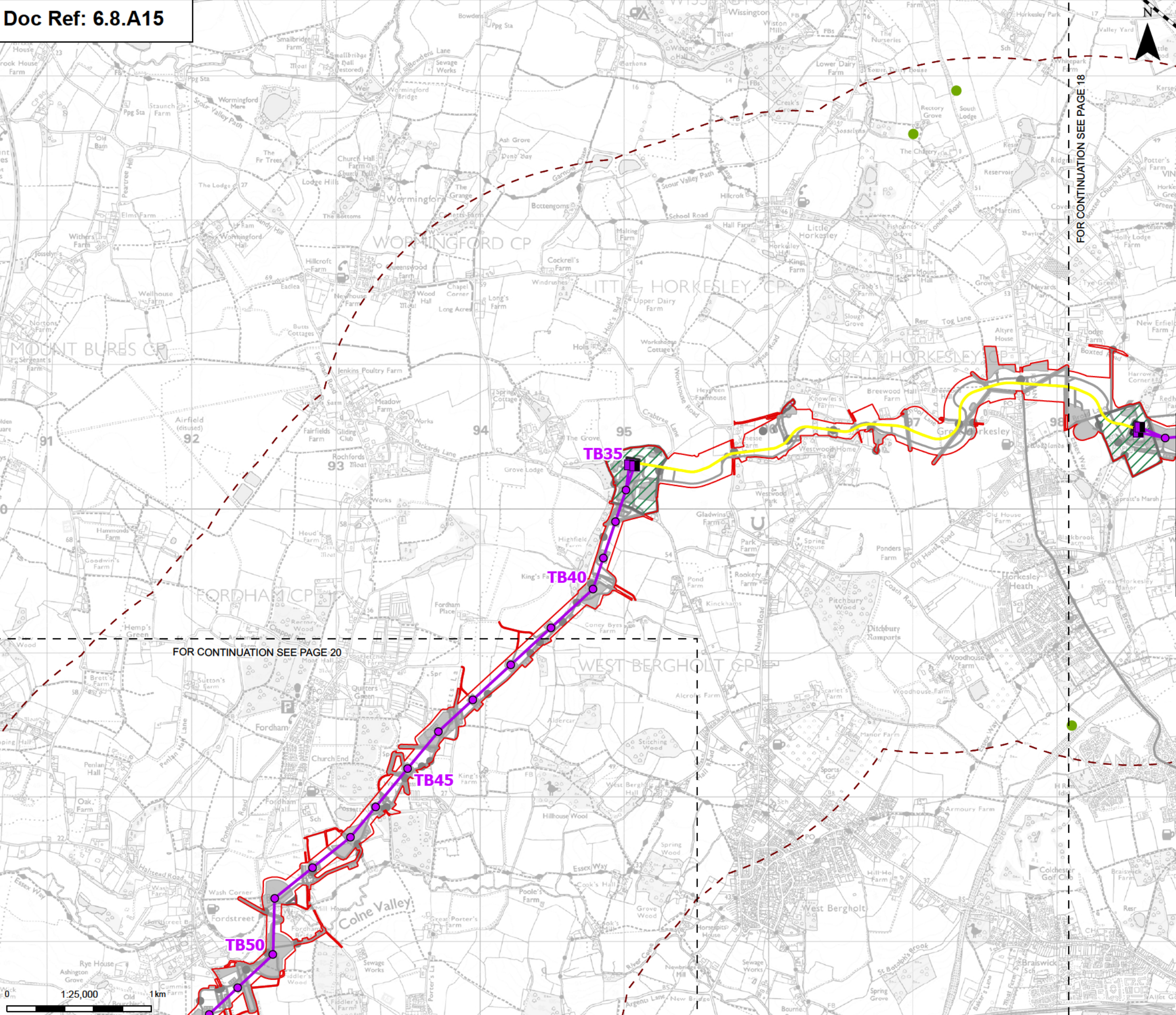
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
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Revision:
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Order limits

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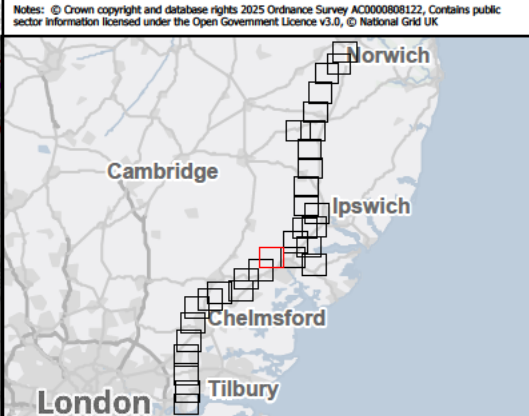
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- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).



Rev	Date	Description	Drawn	Check	Approv
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PROJECT: **Norwich to Tilbury**

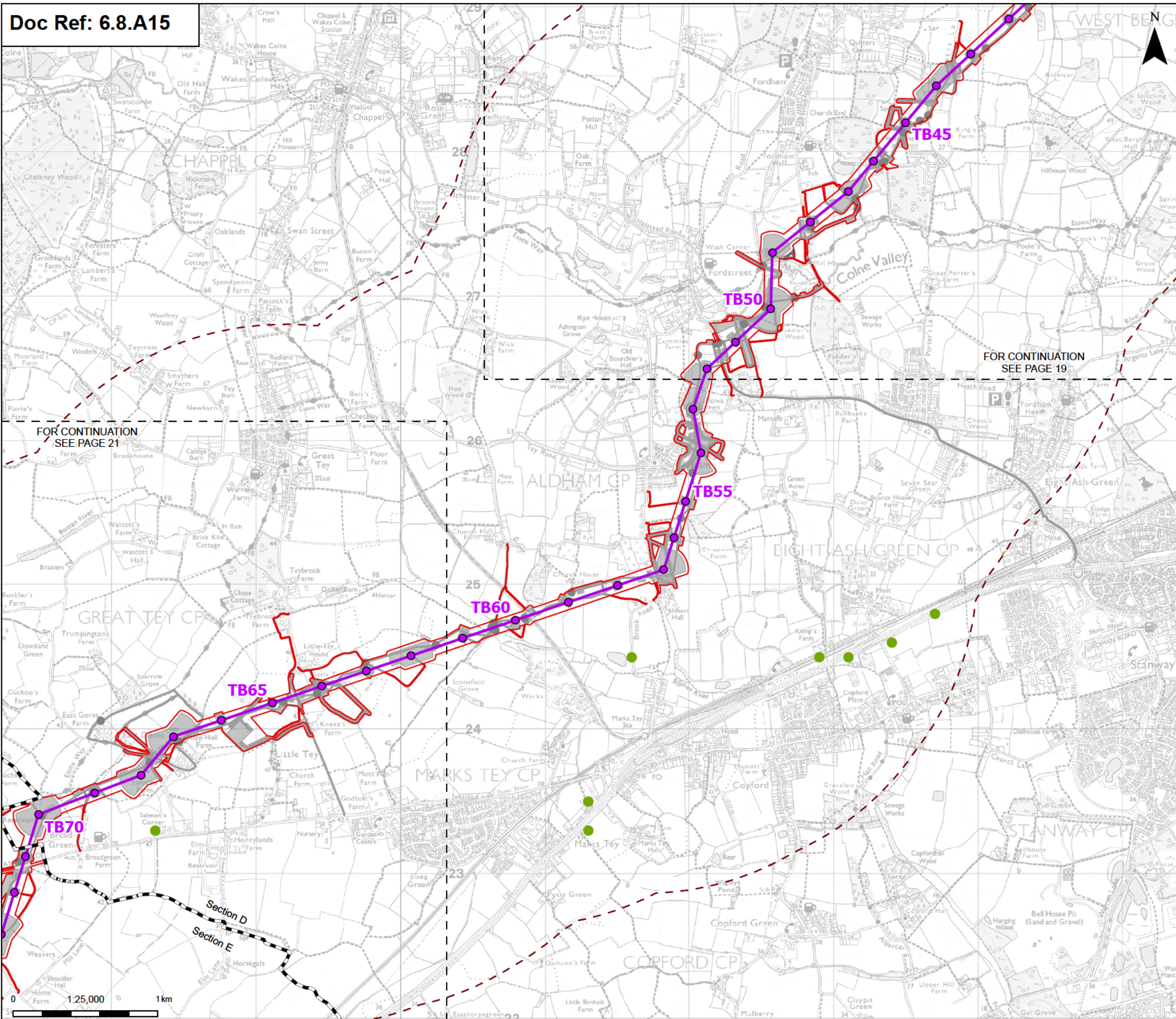
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Regulation 5(2)(a)

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Figure A8.15.1 - Ecology and Biodiversity -
Badger Records and Badger Sett Locations
Recorded Within 2 km of Order Limits in the
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Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
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Suitability Code:	A2	Project Number:	10059280

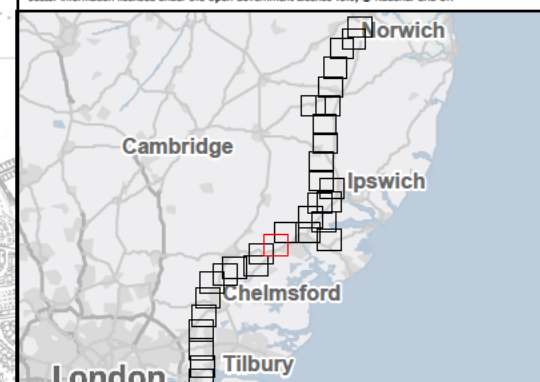
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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00388
Revision: A



-  Order limits
 -  Sheet index cutline
 -  Project section line
- Proposed project design details**
-  Proposed standard lattice pylon location
 -  Proposed overhead line alignment
 -  Environmental mitigation
 -  Other temporary and permanent construction and operational works
- Discipline specific constraints**
-  2 km Study Area
 -  Badger
- Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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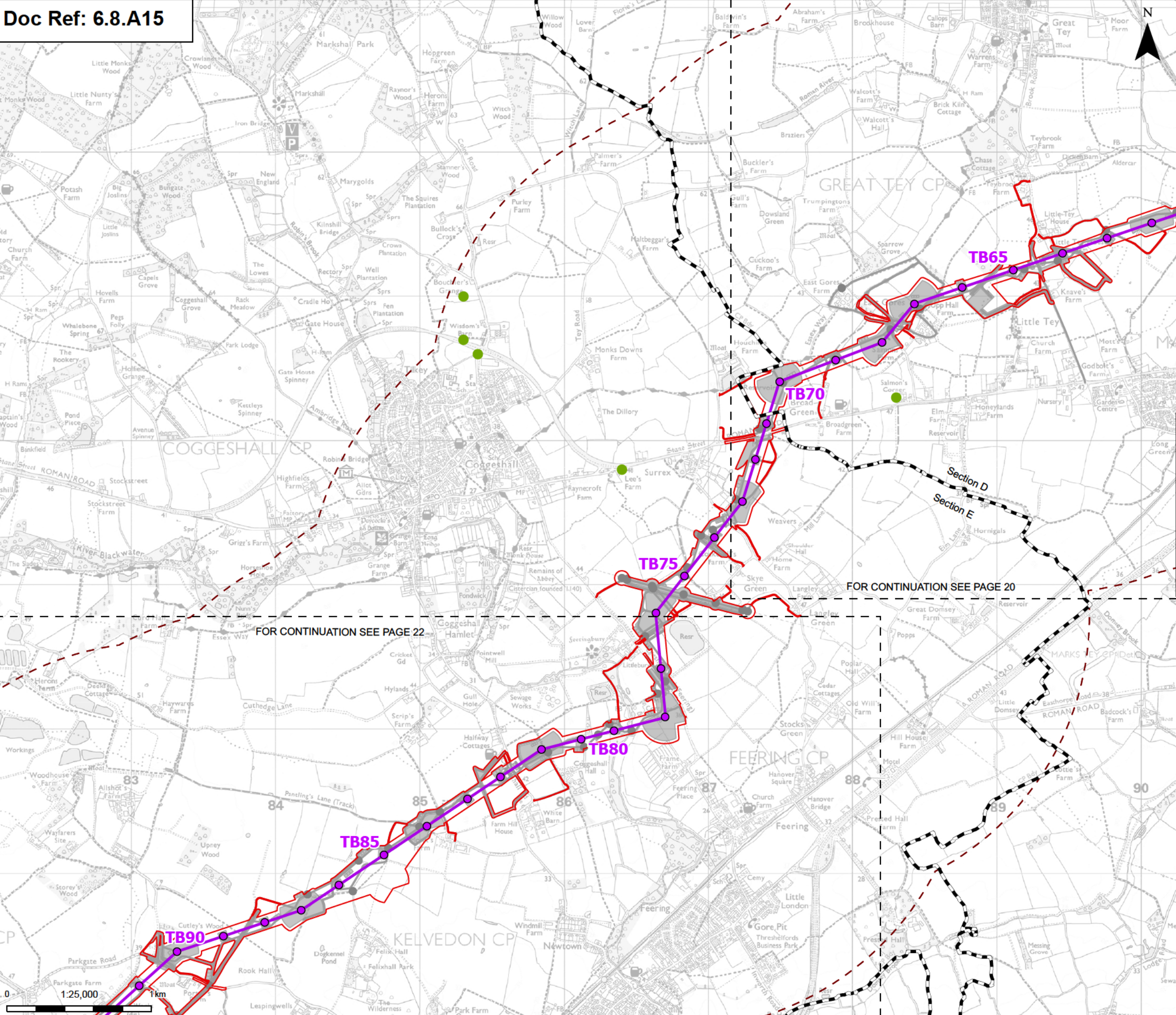
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Regulation 5(2)(a)

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Figure A8.15.1 - Ecology and Biodiversity -
Badger Records and Badger Set Locations
Recorded Within 2 km of Order Limits in the
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Approved	K. Burrows	Date	21 Aug 25
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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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Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00388	Revision: A
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Order limits

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Project section line

Proposed project design details

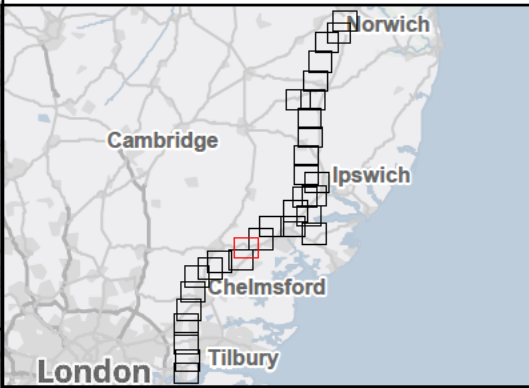
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- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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PROJECT: **Norwich to Tilbury**

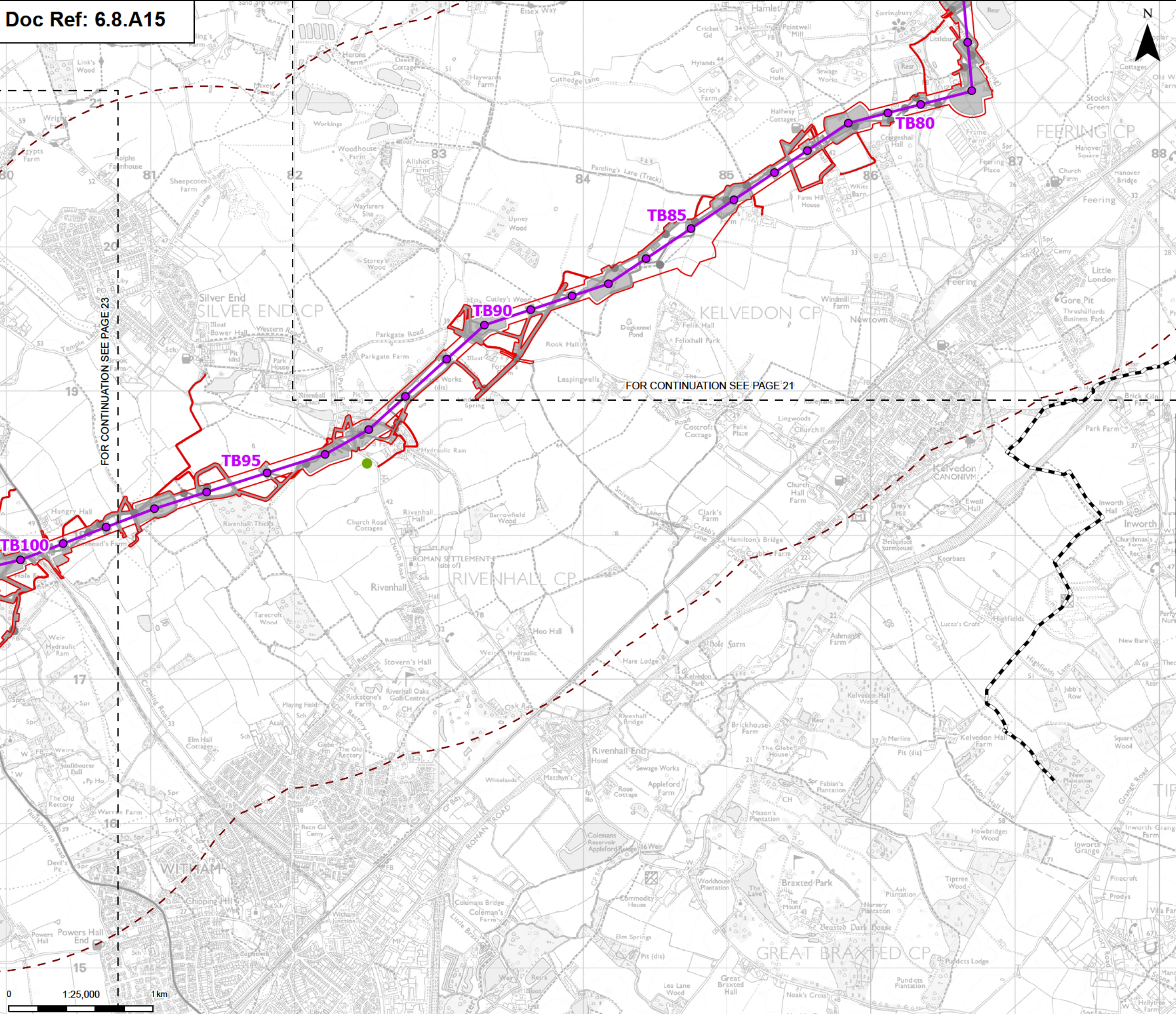
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Regulation 5(2)(a)

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Figure A8.15.1 - Ecology and Biodiversity -
Badger Records and Badger Sett Locations
Recorded Within 2 km of Order Limits in the
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Approved	K. Burrows	Date	21 Aug 25
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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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Order limits

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Proposed project design details

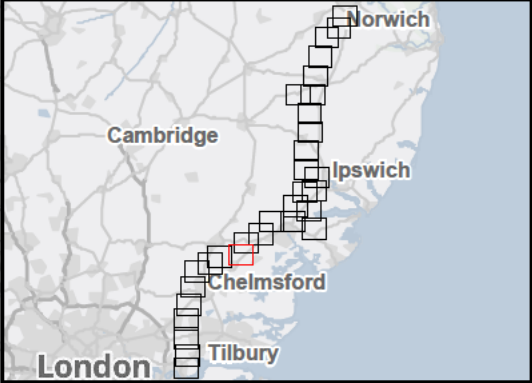
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- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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PROJECT: **Norwich to Tilbury**

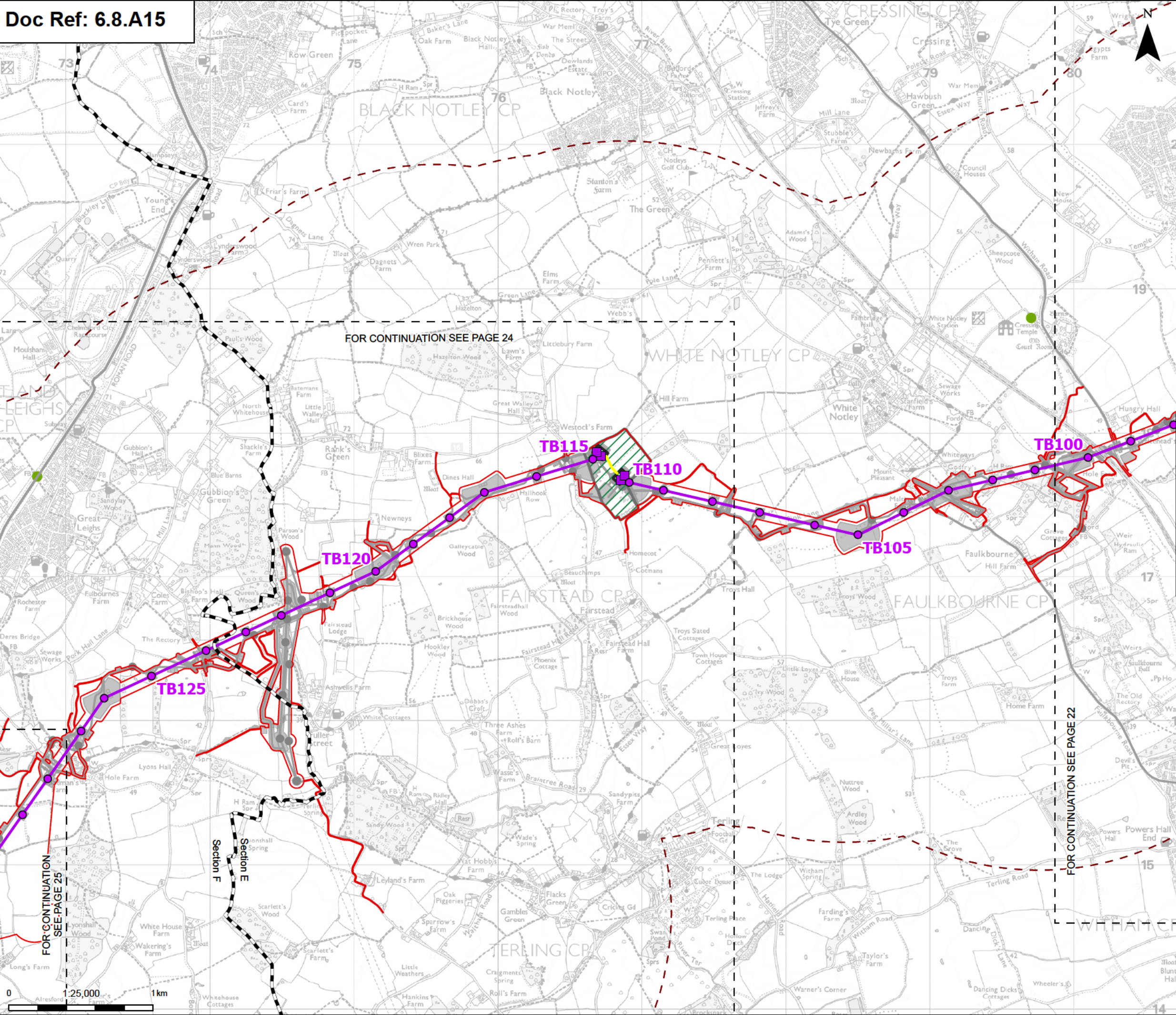
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Regulation 5(2)(a)

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Figure A8.15.1 - Ecology and Biodiversity - Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years
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Approved	K. Burrows	Date	21 Aug 25
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

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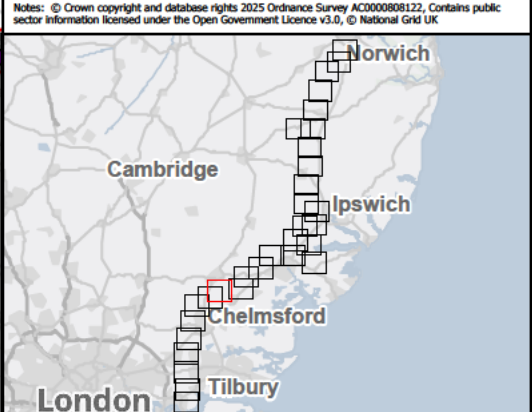
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- Proposed low duty gantry
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).



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PROJECT: **Norwich to Tilbury**

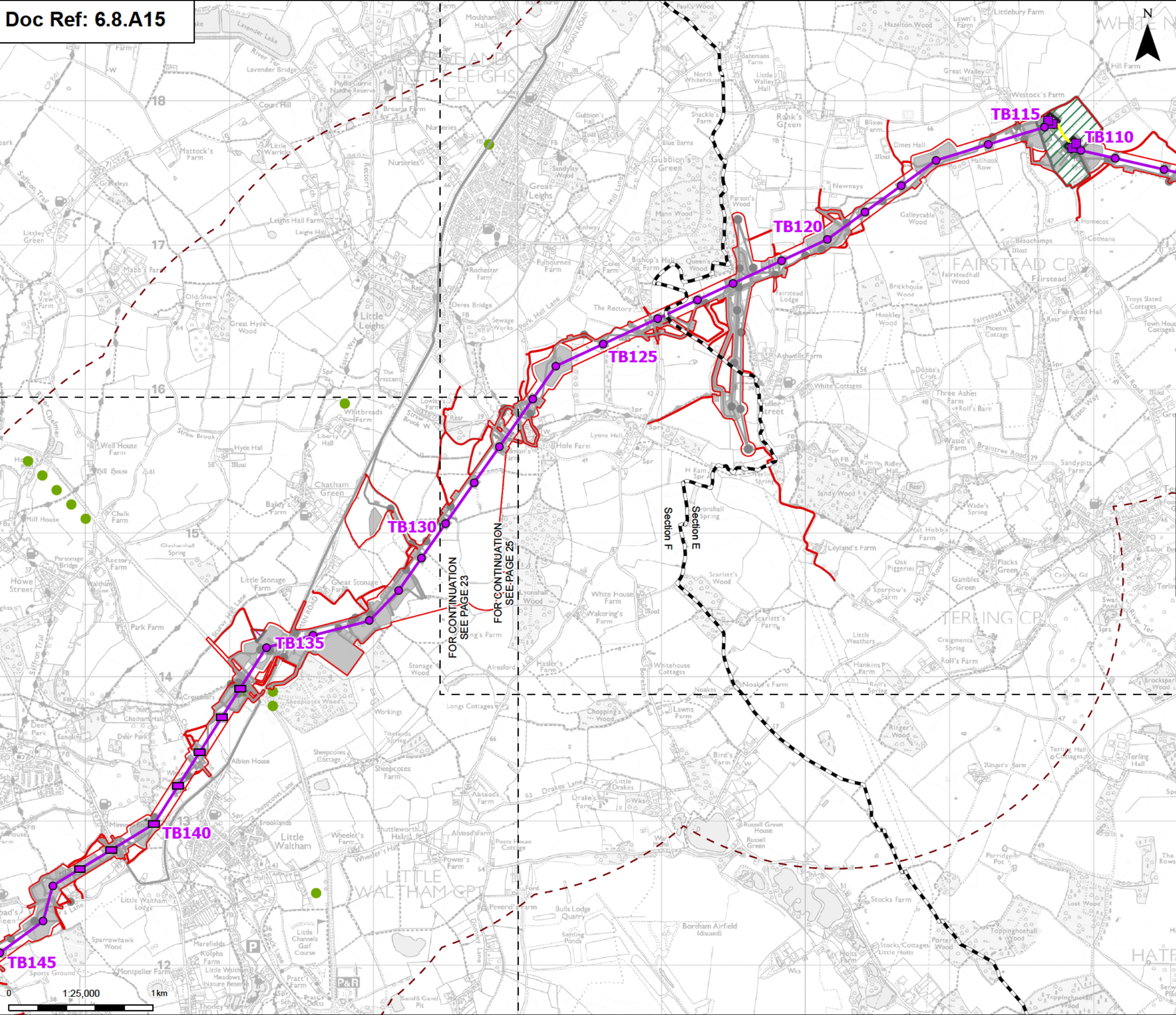
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Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00388 Revision: A



Order limits

Sheet index cutline

Project section line

Proposed project design details

- Proposed low duty gantry
- Proposed low height pylon location
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Proposed underground cable alignment
- Proposed cable sealing end compound (CSEC)
- Environmental area
- Environmental mitigation
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Discipline specific constraints

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London

Cambridge

Ipswich

Chelmsford

Tilbury

Norwich

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Rev	Date	Description	Drawn	Check	Approv

PROJECT:

nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027 Regulation 5(2)(a)

Title:

Figure A8.15.1 - Ecology and Biodiversity - Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years

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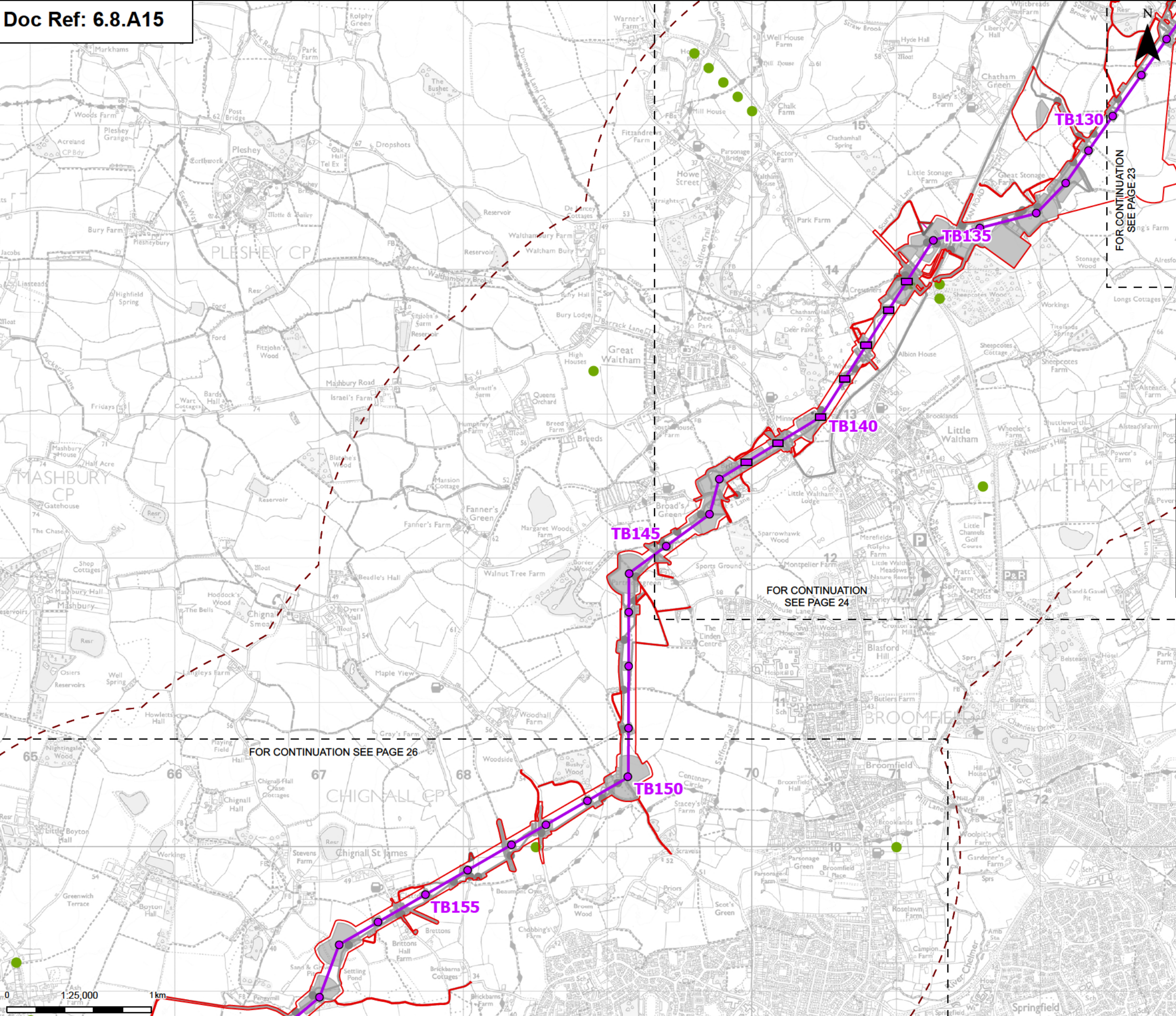
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Revision:

A



Order limits

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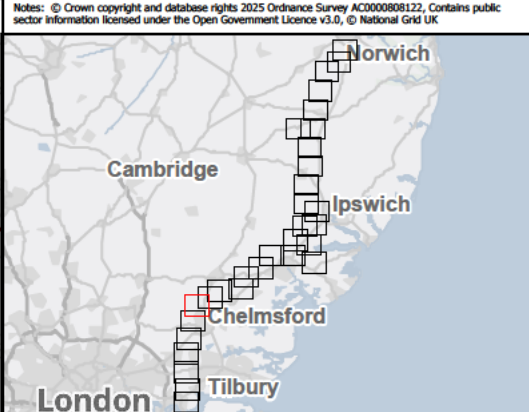
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- Proposed low height pylon location
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).



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PROJECT: **Norwich to Tilbury**

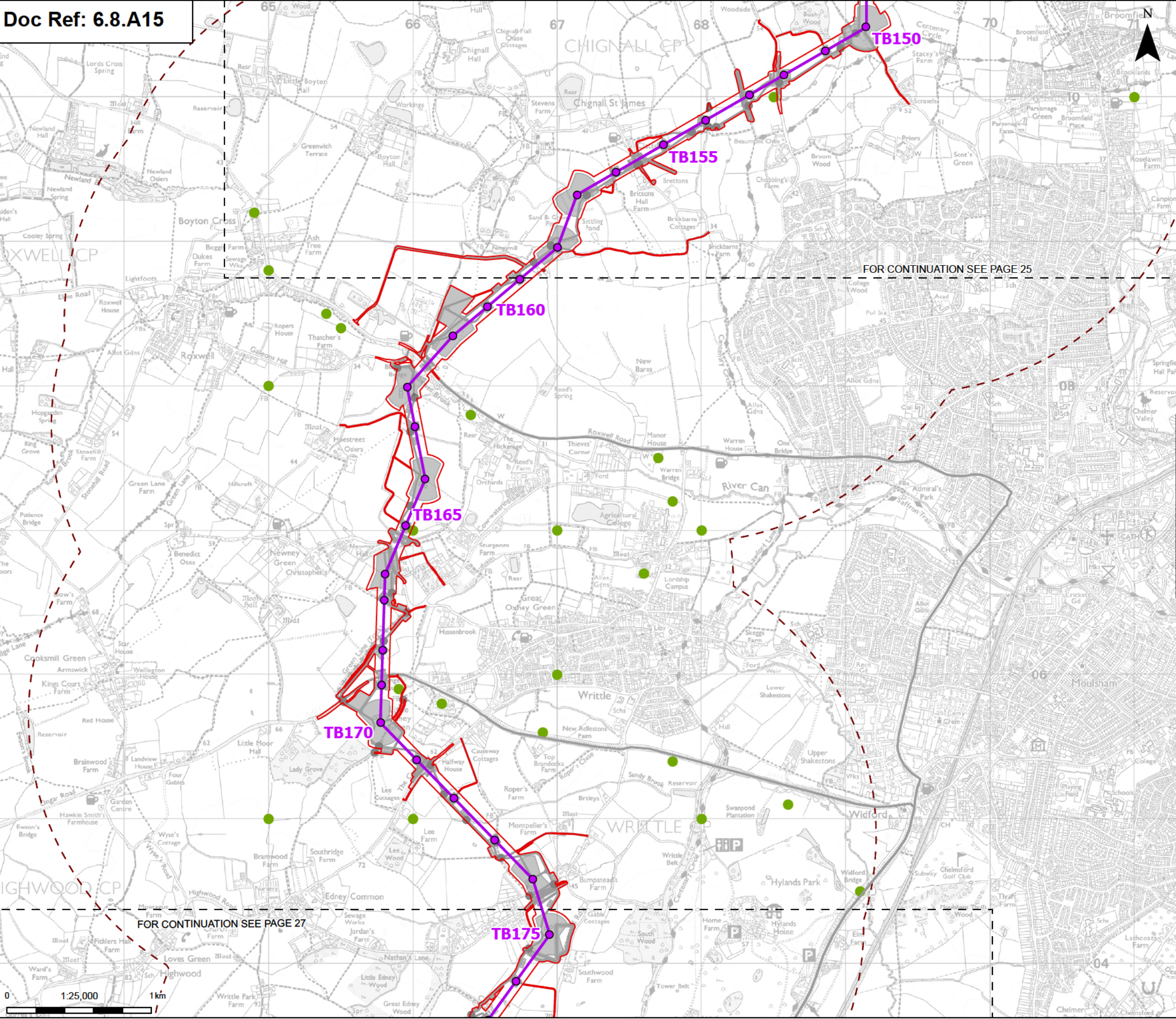
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Figure A8.15.1 - Ecology and Biodiversity -
Badger Records and Badger Sett Locations
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Order limits

Sheet index cutline

Proposed project design details

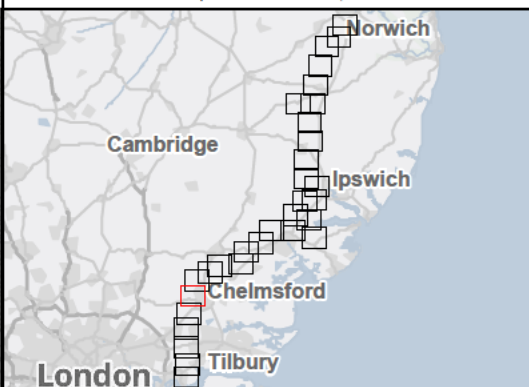
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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Rev	Date	Description	Drawn	Check	Approv
A	Aug 2-25	FOR DCO APPLICATION	KF	AF	KB

PROJECT: **Norwich to Tilbury**

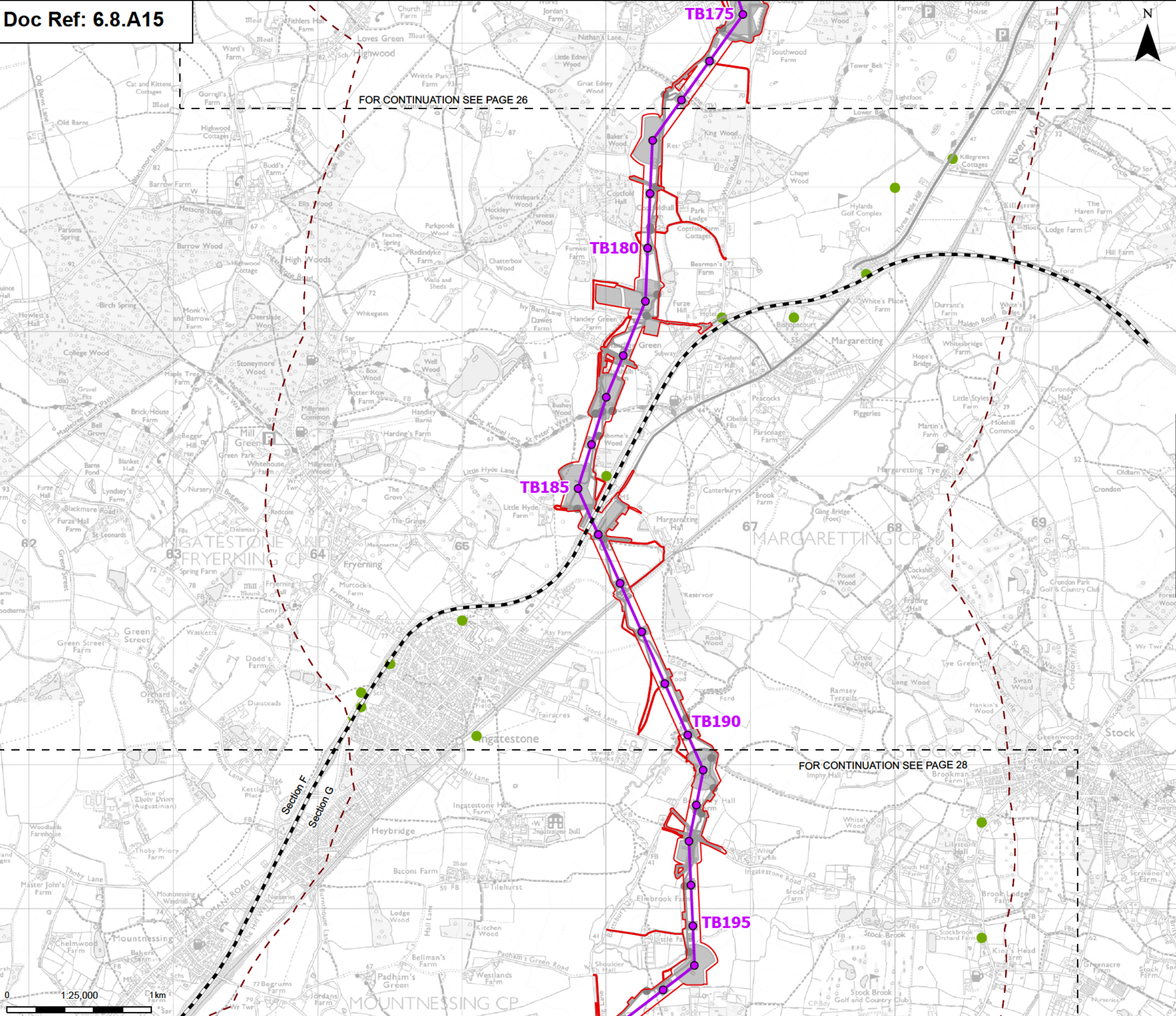
Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure A8.15.1 - Ecology and Biodiversity -
Badger Records and Badger Sett Locations
Recorded Within 2 km of Order Limits in the
Last 10 years
Page 26 of 31

Designed	T. Meaden	Date	21 Aug 25
Drawn	K. Fischer	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00388	Revision: A
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Order limits

Sheet index cutline

Project section line

Proposed project design details

- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).



Rev		Date	Description	Drawn	Check	Approv
A		Aug 2-25	FOR DCO APPLICATION	KF	AF	KB

PROJECT: Norwich to Tilbury

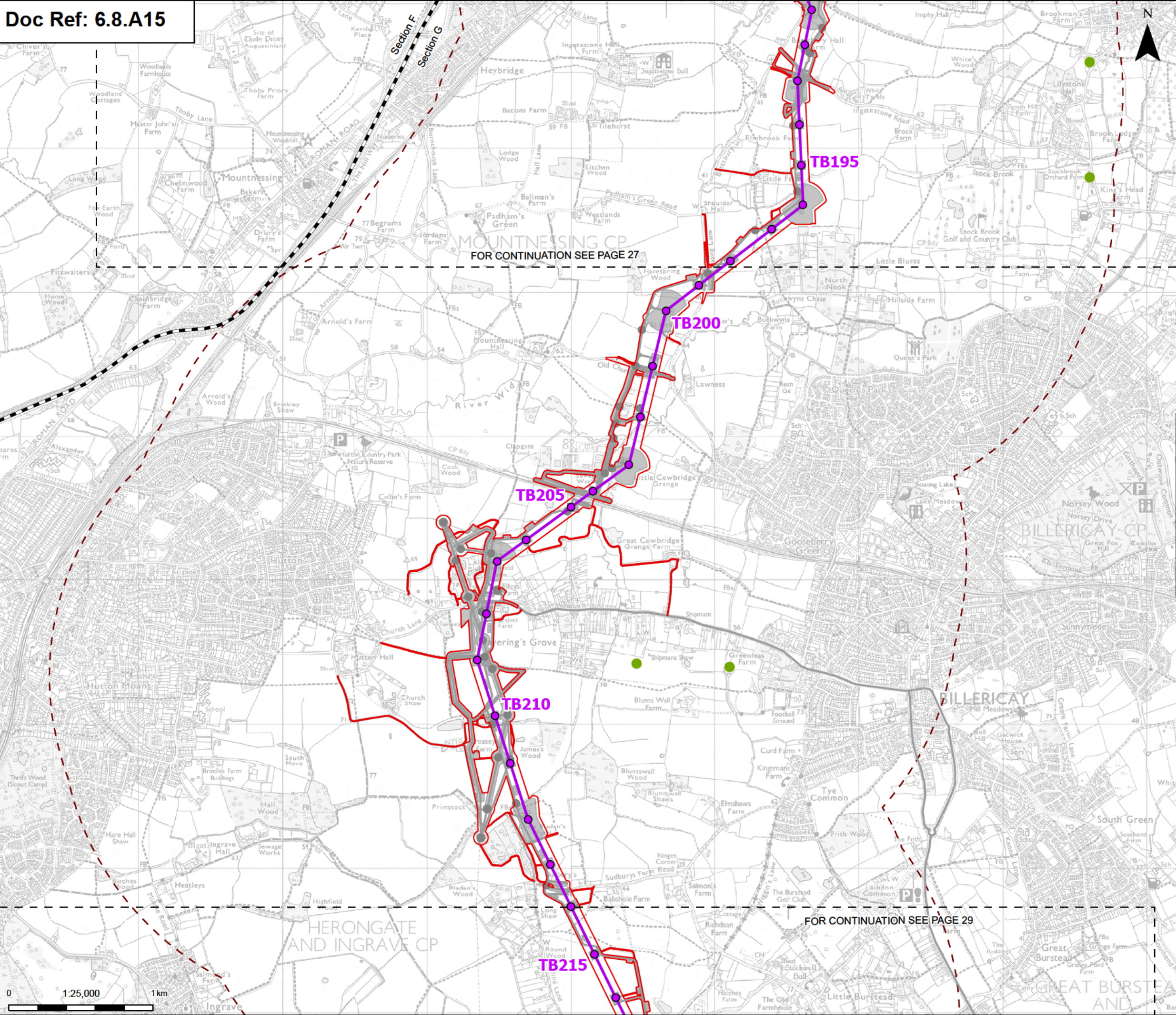
Planning Inspectorate App Number: EN020027 Regulation 5(2)(a)

Title: Figure A8.15.1 - Ecology and Biodiversity - Badger Records and Badger Sett Locations Recorded Within 2 km of Order Limits in the Last 10 years Page 27 of 31

Designed	T. Meaden	Date	21 Aug 25
Drawn	K. Fischer	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description: Accepted as Concept Stage

Drawing Number: 10059280-ARC-EBD-ZZ-DR-ZZ-00388	Revision: A
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Order limits

Sheet index cutline

Project section line

Proposed project design details

- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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Rev	Date	Description	Drawn	Check	Approv

PROJECT: **Norwich to Tilbury**

nationalgrid

Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure A8.15.1 - Ecology and Biodiversity -
Badger Records and Badger Sett Locations
Recorded Within 2 km of Order Limits in the
Last 10 years
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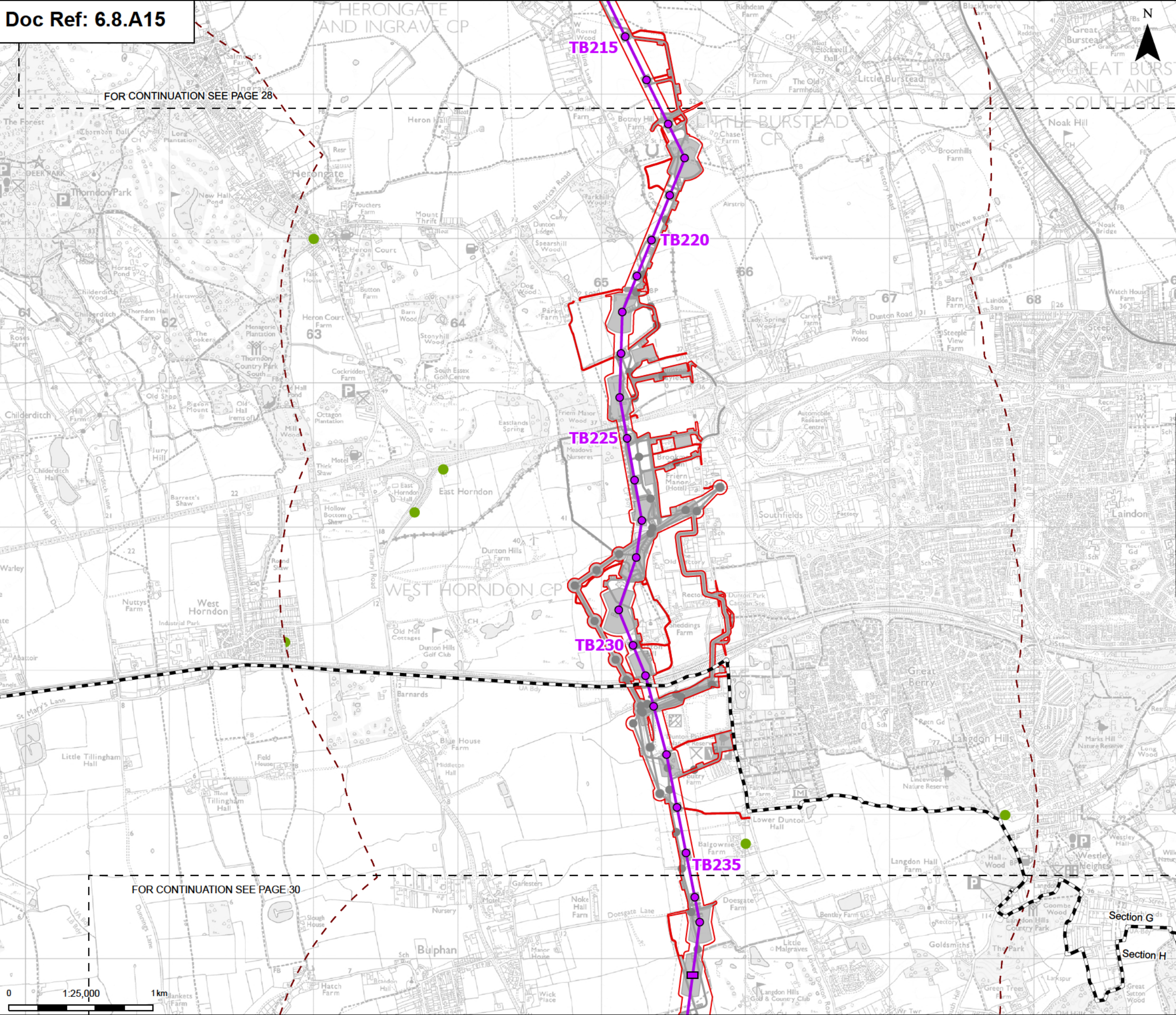
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Drawn	K. Fischer	Date	21 Aug 25
Checked	A. Fell	Date	21 Aug 25
Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10059280

Suitability Description:

Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00388

Revision:
A



Order limits

Sheet index cutline

Project section line

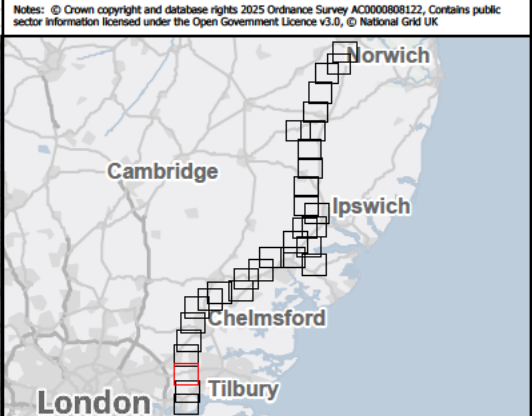
Proposed project design details

- Proposed low height pylon location
- Proposed standard lattice pylon location
- Proposed overhead line alignment
- Environmental mitigation
- Other temporary and permanent construction and operational works

Discipline specific constraints

- 2 km Study Area
- Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).



A	Aug 2-25	FOR DCO APPLICATION	KF	AF	KB
Rev	Date	Description	Drawn	Check	Approv

PROJECT: **Norwich to Tilbury**

Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

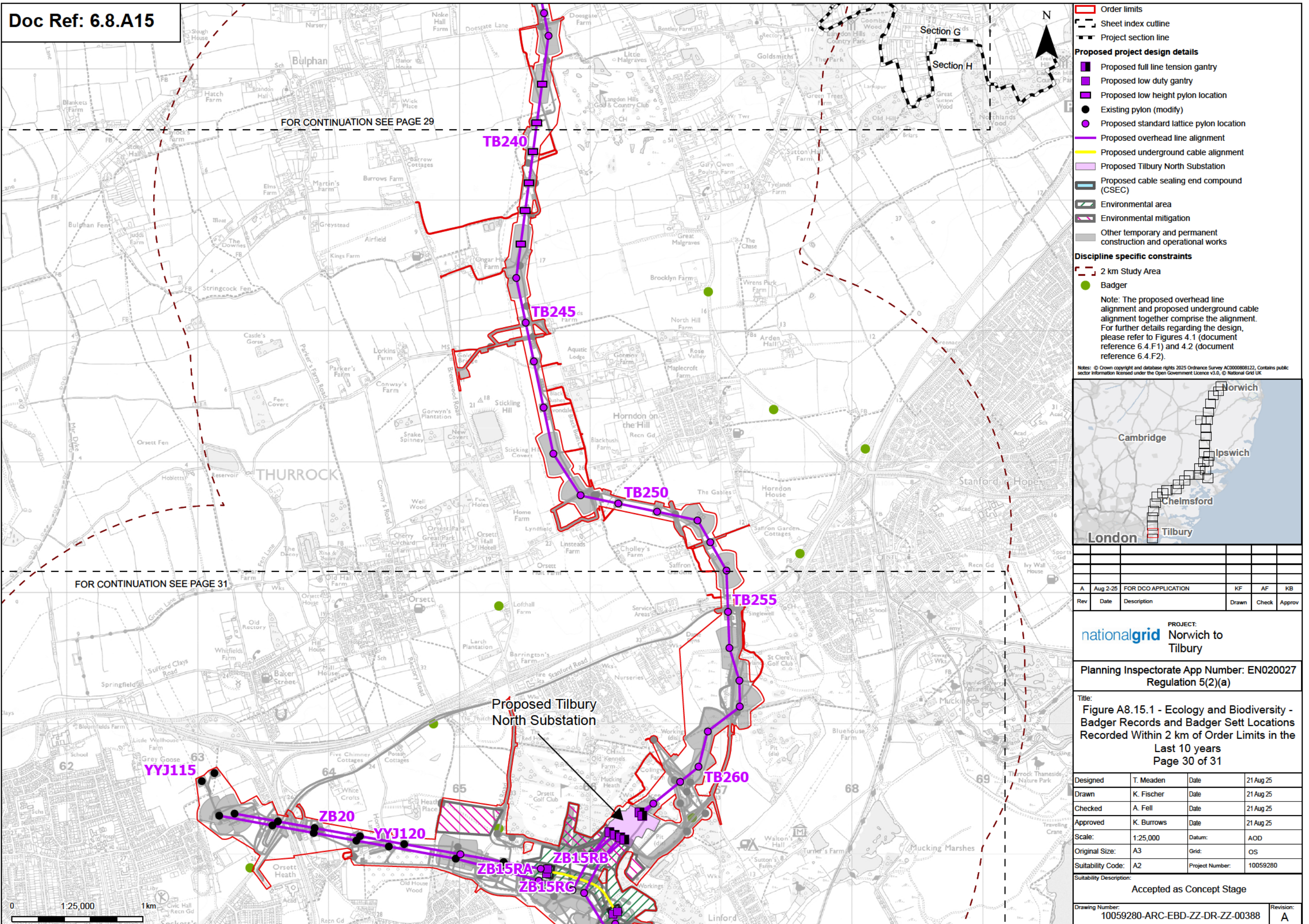
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Figure A8.15.1 - Ecology and Biodiversity -
Badger Records and Badger Sett Locations
Recorded Within 2 km of Order Limits in the
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Page 29 of 31

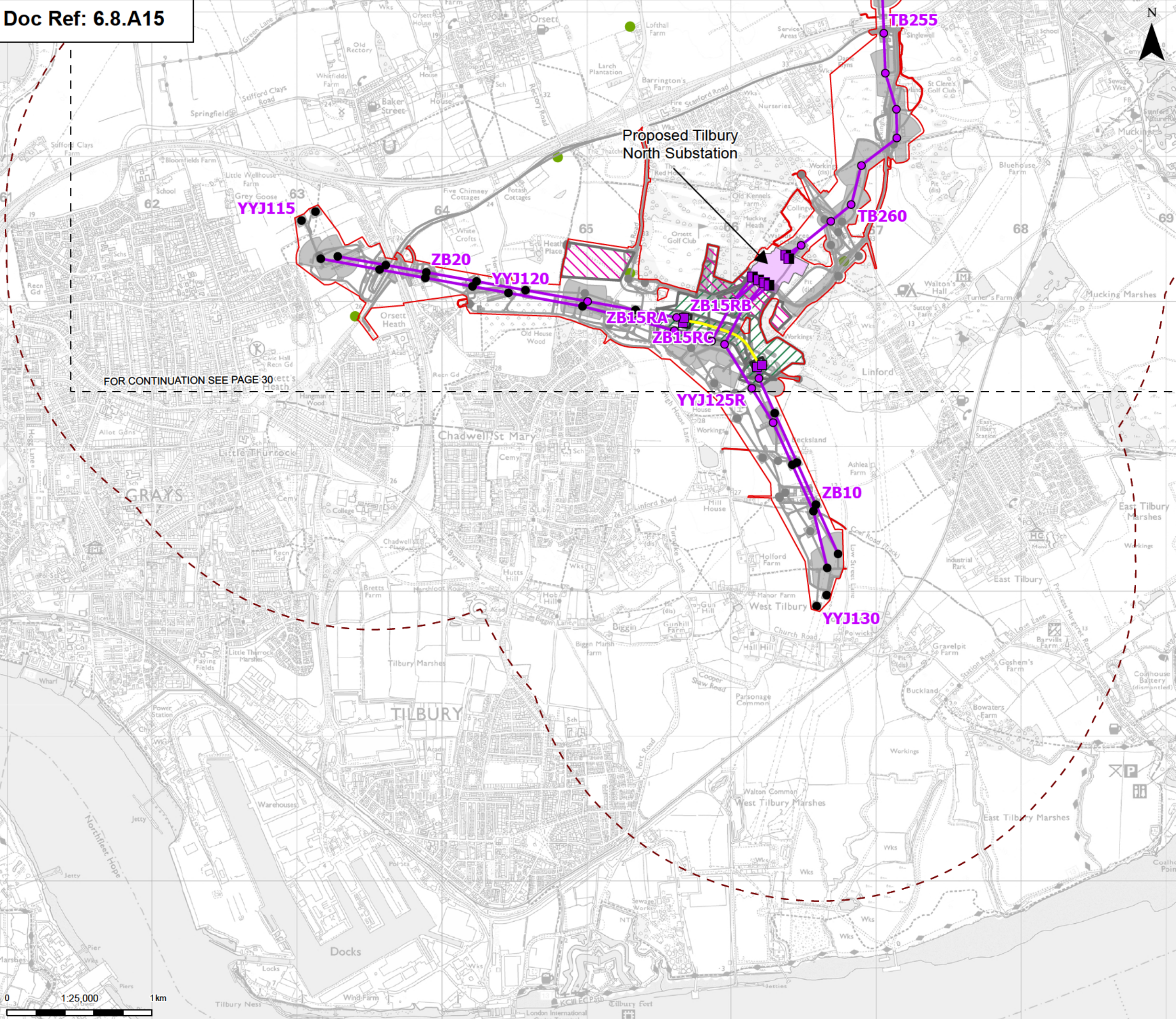
Designed	T. Meaden	Date	21 Aug 25
Drawn	K. Fischer	Date	21 Aug 25
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Approved	K. Burrows	Date	21 Aug 25
Scale:	1:25,000	Datum:	AOD
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Suitability Code:	A2	Project Number:	10059280

Suitability Description:
Accepted as Concept Stage

Drawing Number:
10059280-ARC-EBD-ZZ-DR-ZZ-00388

Revision:
A





Order limits

Sheet index outline

Proposed project design details

Proposed full line tension gantry

Proposed low duty gantry

Existing pylon (modify)

Proposed standard lattice pylon location

Proposed overhead line alignment

Proposed underground cable alignment

Proposed Tilbury North Substation

Proposed cable sealing end compound (CSEC)

Environmental area

Environmental mitigation

Other temporary and permanent construction and operational works

Discipline specific constraints

2 km Study Area

Badger

Note: The proposed overhead line alignment and proposed underground cable alignment together comprise the alignment. For further details regarding the design, please refer to Figures 4.1 (document reference 6.4.F1) and 4.2 (document reference 6.4.F2).

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PROJECT:

nationalgrid Norwich to Tilbury

Planning Inspectorate App Number: EN020027
Regulation 5(2)(a)

Title:
Figure A8.15.1 - Ecology and Biodiversity -
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Page 31 of 31

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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:
A

Print Date: 08-15-25 12:33:49

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Figure A8.15.2 - Badger Sett Locations (Revision B)

FIGURE REMOVED AS IS CONFIDENTIAL

Annex B. Badger Setts Recorded

National Grid plc
National Grid House,
Warwick Technology Park,
Gallows Hill, Warwick.
CV34 6DA United Kingdom

Registered in England and Wales
No. 4031152
nationalgrid.com